

Class 8 : Breast Cancer

Outline

Today we will apply the machine learning methods we introduced in the last class on breast cancer biopsy data

The data is supplied on CSV format:

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

	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean
842302	M	17.99	10.38	122.80	1001.0
842517	M	20.57	17.77	132.90	1326.0
84300903	M	19.69	21.25	130.00	1203.0
84348301	M	11.42	20.38	77.58	386.1
84358402	M	20.29	14.34	135.10	1297.0
843786	M	12.45	15.70	82.57	477.1

	smoothness_mean	compactness_mean	concavity_mean	concave.points_mean
842302	0.11840	0.27760	0.3001	0.14710
842517	0.08474	0.07864	0.0869	0.07017
84300903	0.10960	0.15990	0.1974	0.12790
84348301	0.14250	0.28390	0.2414	0.10520
84358402	0.10030	0.13280	0.1980	0.10430
843786	0.12780	0.17000	0.1578	0.08089

	symmetry_mean	fractal_dimension_mean	radius_se	texture_se	perimeter_se
842302	0.2419	0.07871	1.0950	0.9053	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
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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				

Now I will store the diagnosis column for later and exclude it from the data set I will actually do things with that I will call 'wisc.data'

```
diagnosis <- as.factor(wisc.df$diagnosis)
wisc.data <- wisc.df[,-1]
```

```
diagnosis <-wisc.df[,1]
diagnosis
```

```
[1] "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M"
[19] "M" "B" "B" "B" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M"
[37] "M" "B" "M" "M" "M" "M" "M" "M" "M" "M" "B" "M" "B" "B" "B" "B" "B" "M"
[55] "M" "B" "M" "M" "B" "B" "B" "B" "M" "B" "M" "M" "B" "B" "B" "B" "M" "B"
[73] "M" "M" "B" "M" "B" "M" "M" "B" "B" "B" "M" "M" "B" "M" "M" "M" "B" "B"
[91] "B" "M" "B" "B" "M" "M" "B" "B" "B" "M" "M" "B" "B" "B" "B" "M" "B" "B"
[109] "M" "B" "B" "B" "B" "B" "B" "B" "B" "M" "M" "M" "B" "M" "M" "B" "B" "B"
[127] "M" "M" "B" "M" "B" "M" "M" "B" "M" "M" "B" "B" "M" "B" "B" "M" "B" "B"
[145] "B" "B" "M" "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B" "B" "B" "B" "M"
[163] "M" "B" "M" "B" "B" "M" "M" "B" "B" "M" "M" "B" "B" "B" "B" "M" "B" "B"
[181] "M" "M" "M" "B" "M" "B" "M" "B" "B" "B" "M" "B" "B" "M" "M" "B" "M" "M"
[199] "M" "M" "B" "M" "M" "M" "B" "M" "B" "M" "B" "B" "M" "B" "M" "M" "M" "M"
[217] "B" "B" "M" "M" "B" "B" "B" "M" "B" "B" "B" "B" "B" "M" "M" "B" "B" "M"
[235] "B" "B" "M" "M" "B" "M" "B" "B" "B" "B" "M" "B" "B" "B" "B" "B" "M" "B"
[253] "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "M" "B" "B" "B" "B"
[271] "B" "B" "M" "B" "M" "B" "B" "M" "B" "B" "M" "B" "M" "M" "B" "B" "B" "B"
[289] "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B" "B" "M" "B" "M" "B" "B" "B"
[307] "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B" "B" "B" "M" "B" "M"
[325] "B" "B" "B" "B" "M" "M" "M" "B" "B" "B" "B" "M" "B" "M" "B" "M" "B" "B"
[343] "B" "M" "B" "B" "B" "B" "B" "B" "B" "M" "M" "M" "B" "B" "B" "B" "B" "B"
[361] "B" "B" "B" "B" "B" "M" "M" "B" "M" "M" "M" "B" "M" "M" "B" "B" "B" "B"
[379] "B" "M" "B" "B" "B" "B" "B" "M" "B" "B" "B" "M" "B" "B" "M" "M" "B" "B"
[397] "B" "B" "B" "B" "M" "B" "B" "B" "B" "B" "B" "B" "M" "B" "B" "B" "B" "B"
[415] "M" "B" "B" "M" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B"
[433] "M" "M" "B" "M" "B" "B" "B" "B" "B" "M" "B" "B" "M" "B" "M" "B" "B" "M"
[451] "B" "M" "B" "B" "B" "B" "B" "B" "B" "B" "M" "M" "B" "B" "B" "B" "B" "B"
[469] "M" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B" "B" "B" "B" "B" "B"
[487] "B" "M" "B" "M" "B" "B" "M" "B" "B" "B" "B" "B" "M" "M" "B" "M" "B" "M"
[505] "B" "B" "B" "B" "B" "M" "B" "B" "M" "B" "M" "B" "M" "M" "B" "B" "B" "M"
[523] "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "M" "B" "M" "M" "B" "B" "B"
[541] "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B" "B"
[559] "B" "B" "B" "B" "M" "M" "M" "M" "M" "M" "B"
```

Q1. How many observations are in this dataset?

```
nrow(wisc.df)
```

```
[1] 569
```

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

```
table(wisc.df$diagnosis)
```

```
B    M  
357 212
```

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

```
x <- colnames(wisc.df)  
length(grep("_mean", x))
```

```
[1] 10
```

```
x
```

```
[1] "diagnosis"           "radius_mean"  
[3] "texture_mean"        "perimeter_mean"  
[5] "area_mean"           "smoothness_mean"  
[7] "compactness_mean"    "concavity_mean"  
[9] "concave.points_mean" "symmetry_mean"  
[11] "fractal_dimension_mean" "radius_se"  
[13] "texture_se"          "perimeter_se"  
[15] "area_se"             "smoothness_se"  
[17] "compactness_se"      "concavity_se"  
[19] "concave.points_se"   "symmetry_se"  
[21] "fractal_dimension_se" "radius_worst"  
[23] "texture_worst"       "perimeter_worst"  
[25] "area_worst"          "smoothness_worst"  
[27] "compactness_worst"   "concavity_worst"  
[29] "concave.points_worst" "symmetry_worst"  
[31] "fractal_dimension_worst"
```

#Principal Component Analysis

We need to scale to input data before PCA as some of the columns are measured in terms of very different units with different means and different variances. The upshot here is we set `'scale=TRUE'` argument to `'prcomp()'`

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

Importance of components:

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
Standard deviation	3.6444	2.3857	1.67867	1.40735	1.28403	1.09880	0.82172
Proportion of Variance	0.4427	0.1897	0.09393	0.06602	0.05496	0.04025	0.02251
Cumulative Proportion	0.4427	0.6324	0.72636	0.79239	0.84734	0.88759	0.91010
	PC8	PC9	PC10	PC11	PC12	PC13	PC14
Standard deviation	0.69037	0.6457	0.59219	0.5421	0.51104	0.49128	0.39624
Proportion of Variance	0.01589	0.0139	0.01169	0.0098	0.00871	0.00805	0.00523
Cumulative Proportion	0.92598	0.9399	0.95157	0.9614	0.97007	0.97812	0.98335
	PC15	PC16	PC17	PC18	PC19	PC20	PC21
Standard deviation	0.30681	0.28260	0.24372	0.22939	0.22244	0.17652	0.1731
Proportion of Variance	0.00314	0.00266	0.00198	0.00175	0.00165	0.00104	0.0010
Cumulative Proportion	0.98649	0.98915	0.99113	0.99288	0.99453	0.99557	0.9966
	PC22	PC23	PC24	PC25	PC26	PC27	PC28
Standard deviation	0.16565	0.15602	0.1344	0.12442	0.09043	0.08307	0.03987
Proportion of Variance	0.00091	0.00081	0.0006	0.00052	0.00027	0.00023	0.00005
Cumulative Proportion	0.99749	0.99830	0.9989	0.99942	0.99969	0.99992	0.99997
	PC29	PC30					
Standard deviation	0.02736	0.01153					
Proportion of Variance	0.00002	0.00000					
Cumulative Proportion	1.00000	1.00000					

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

0.4427

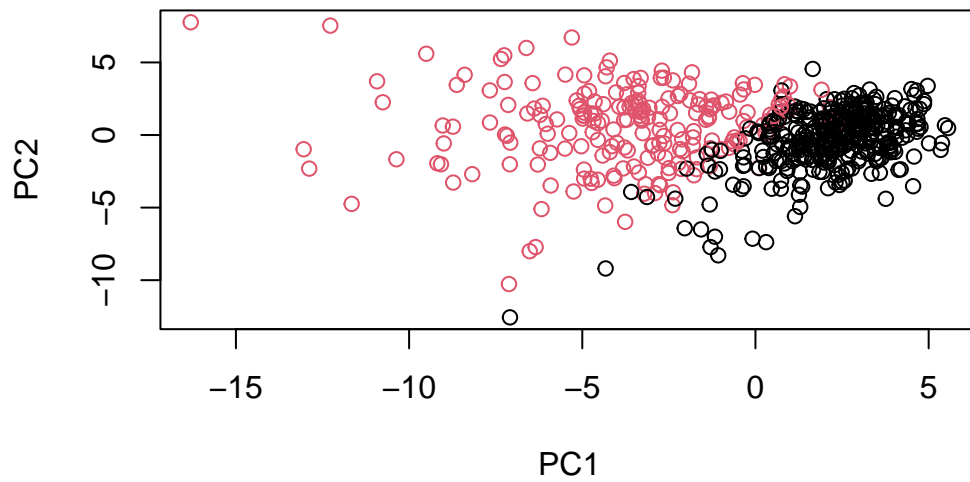
Q5. How many principal components (PCs) are required to describe at least 70% of the original variance in the data?

PC3

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

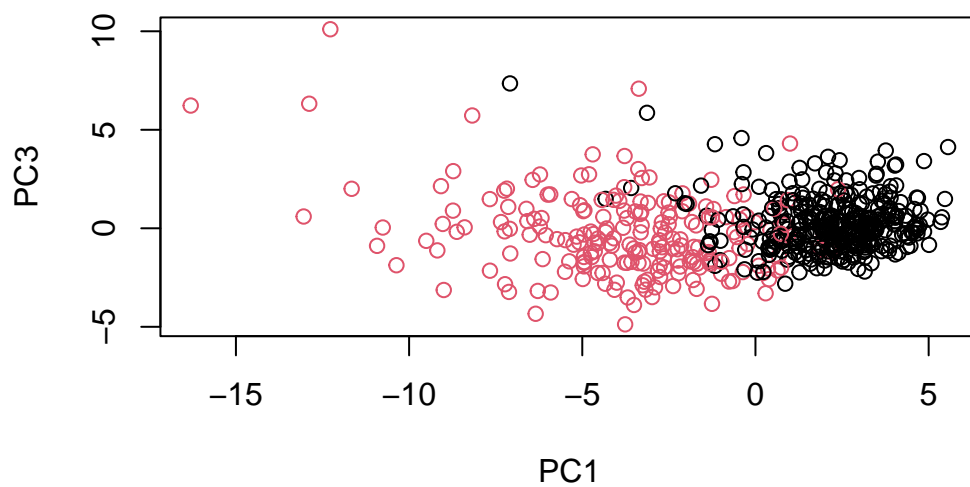
PC7

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

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

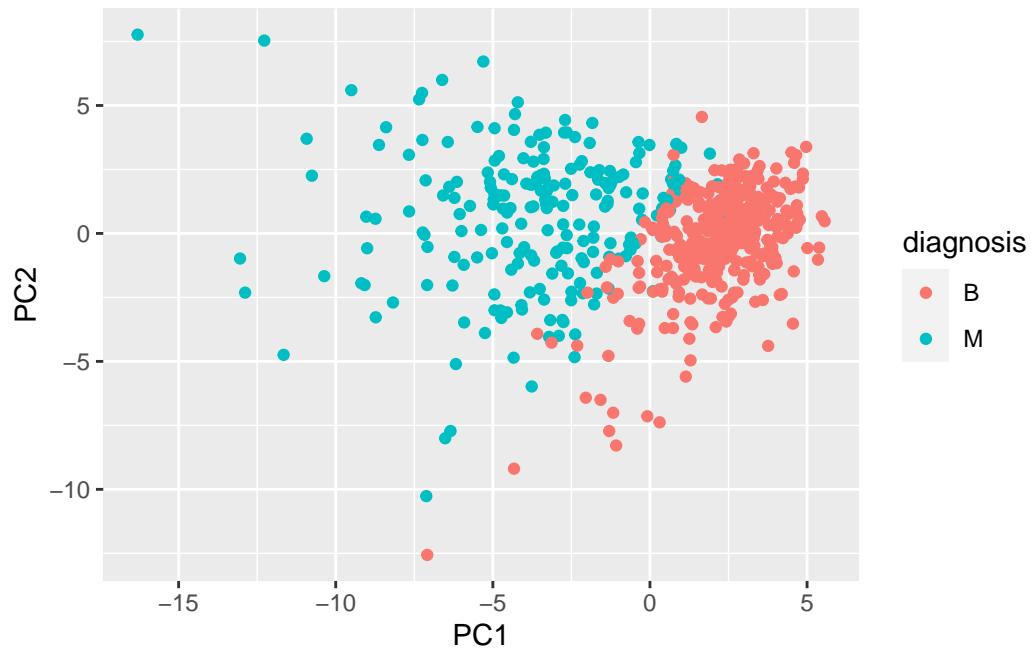
```
# Repeat for components 1 and 3
plot(wisc.pr$x[,1], wisc.pr$x[,3], col = as.factor(diagnosis) ,
     xlab = "PC1", ylab = "PC3")
```



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

# Load the ggplot2 package
library(ggplot2)

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

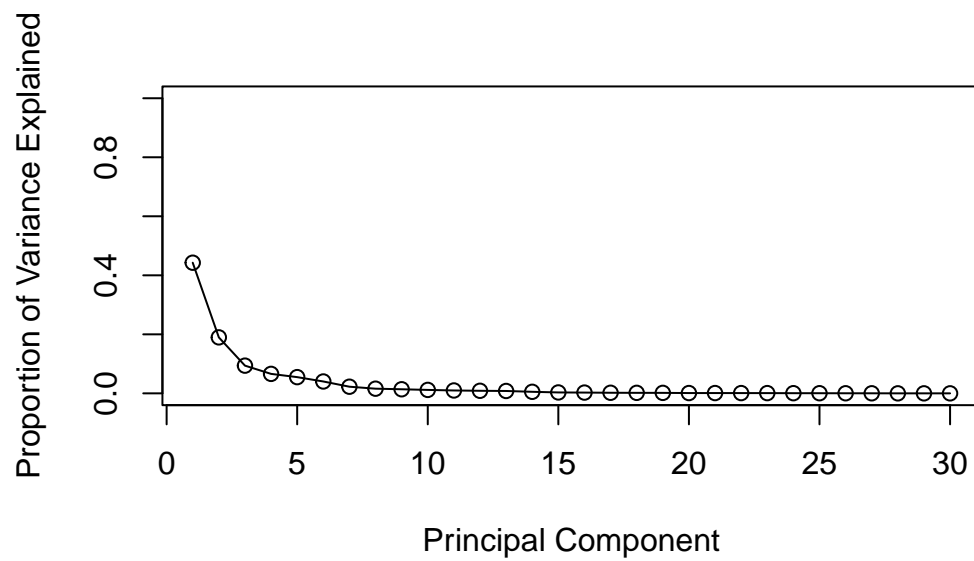



```
# Calculate variance of each component
pr.var <- wisc.pr$sdev^2
head(pr.var)
```

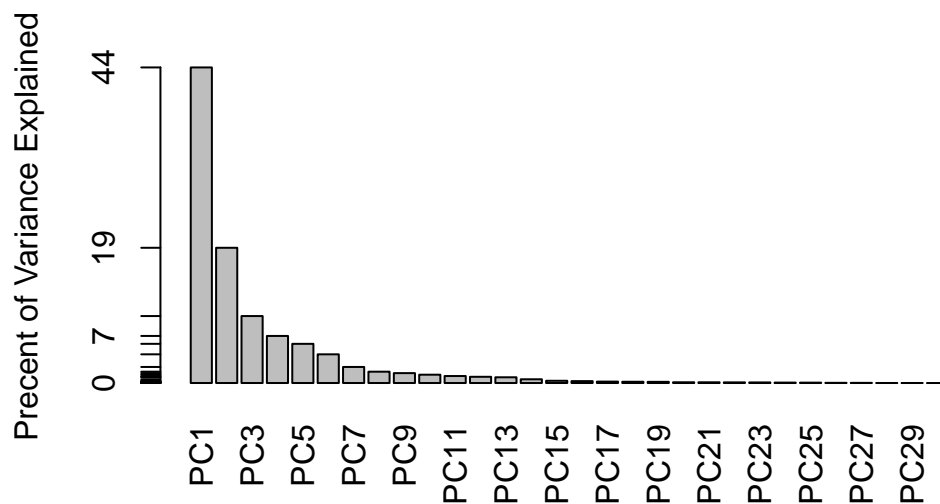
```
[1] 13.281608  5.691355  2.817949  1.980640  1.648731  1.207357
```

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

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

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

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

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

3. Hierarchical clustering

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

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

	842302	842517	84300903	84348301	84358402	843786	844359
842517	10.309426						
84300903	6.771675	5.027592					
84348301	10.463467	16.236452	12.833428				
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	
84458202	8.929482	7.055800	5.997905	11.325629	6.939961	3.582305	5.780860
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
846226	10.104981	12.215681	9.648420	13.610601	10.995883	12.224841	12.269454
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
84799002	8.940154	8.717955	6.520378	9.790415	9.139905	4.402474	7.029326
848406	11.218622	4.515949	6.185314	15.021900	6.174510	6.669885	2.976629
84862001	7.104093	6.710604	4.421995	10.737201	6.582130	3.830273	5.131675
849014	9.395328	4.052172	4.336321	16.084289	4.865025	9.201365	3.796792
8510426	11.655172	5.806473	7.233677	14.873262	6.319202	6.402997	4.860363
8510653	11.645611	6.752034	7.937243	14.154985	7.801845	5.702085	5.540953
8510824	13.504653	8.617341	10.012752	15.457610	8.726424	7.461549	7.949380
8511133	6.439353	8.701006	5.583709	9.220053	7.745343	5.197555	7.716080
851509	10.596898	3.612942	5.352819	16.944811	5.996455	9.934417	3.725186
852552	7.511414	5.287981	3.869033	13.310113	5.794841	6.650944	4.002844

852631	4.906745	8.839330	5.418522	10.915414	7.399943	7.359732	8.442058
852763	8.637058	7.822286	5.972291	10.439750	8.623297	4.090776	6.147178
852781	9.825794	4.578856	4.869360	15.313609	3.494102	8.309801	4.609296
852973	8.449243	6.830792	4.757618	11.575809	7.448830	4.995362	4.782035
853201	9.253827	3.414970	4.603754	14.599046	3.705644	6.680191	3.136485
853401	6.991827	6.136471	3.178060	12.718621	5.764411	7.011603	5.062092
853612	8.272373	9.040140	7.371494	8.837967	9.277182	3.067162	7.592235
85382601	7.831239	6.348092	3.635910	12.102475	5.719753	5.514153	4.768166
854002	8.207293	5.552946	4.185699	12.910103	6.602700	6.733237	4.379783
854039	8.181787	6.047359	5.058798	11.417780	7.115445	4.071896	4.548122
854253	9.005081	5.722088	4.650539	12.315793	6.651716	5.821964	4.067777
854268	9.969499	5.994716	5.656758	12.470184	6.760116	4.571273	4.236936
854941	14.939600	7.909367	10.273570	17.685173	9.183862	9.893589	7.507450
855133	14.297250	8.024711	9.785954	19.017937	8.341965	11.537297	8.121897
855138	10.582520	6.276625	6.403554	13.089365	7.125636	4.554862	4.518211
855167	13.364489	5.995239	8.368541	16.449831	8.294015	8.279504	4.956606
855563	11.747450	8.394838	8.113105	12.896289	8.684634	4.715655	6.505581
855625	7.733106	11.114813	7.548690	11.316037	10.164264	10.632107	10.714272
856106	9.624712	6.067128	5.878365	12.154406	7.061679	3.792533	4.256247
85638502	11.475432	6.328342	7.119303	13.845814	8.092749	5.509878	4.387182
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
8611103	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							
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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
8611103	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
861103	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				
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855167	6.076439	4.704437	4.641840	7.191012	5.099389		
855563	6.338382	4.273221	7.556850	9.331103	3.972188	6.198439	
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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
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857392	5.250297	5.332808	7.843456	7.692440	6.417099	6.926861	7.141764
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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
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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
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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
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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
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861648	6.156859	4.699355	3.927545	6.056164	5.291411	2.291666	5.998300
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861853	7.913632	6.593717	3.854302	6.003221	6.511619	3.459675	7.762817
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86211	7.611723	5.788613	3.334698	6.295863	5.922735	4.338752	5.816933
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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
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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
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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
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865423	14.827488	15.583354	18.917396	17.096524	16.682619	18.690439	16.597658
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866714	6.139182	4.717084	5.780659	8.881932	4.901084	4.929310	5.295774
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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
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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
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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
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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
871122	7.675976	6.007518	4.290663	7.824717	5.631542	3.737873	6.331406
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8712289	5.913354	7.265960	10.574514	10.013376	8.039348	8.508900	10.169995
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87127	9.116083	7.394708	5.698957	8.834759	6.592697	5.787013	7.098096
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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

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871642	8.867931	7.654265	3.971493	7.774742	8.264900	5.442363	7.807050
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85638502	12.190086	2.360502						
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
842517							
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84348301							
84358402							
843786							
844359							
84458202							
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84501001							
845636							
84610002							
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851509							
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852781							
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853401							
853612							
85382601							

854002							
854039							
854253							
854268							
854941							
855133							
855138							
855167							
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855625							
856106							
85638502							
857010							
85713702							
85715							
857155							
857156							
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
8611103	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
864292	6.007591	5.917438	6.556168	5.630040	7.402549	6.936198	5.333713
864496	6.271267	6.122558	5.998553	5.171392	8.627439	6.394788	5.239167
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
864729	6.647399	8.509514	7.985985	7.703003	5.251183	5.961195	7.343098
864877	8.182832	10.006754	9.593703	9.464597	6.142721	7.449602	9.205355

865128	6.432223	7.256990	7.934198	7.209929	6.321160	6.971996	6.078059
865137	4.939074	4.849156	3.772449	3.397880	7.891162	4.858958	4.145071
86517	6.054926	7.490353	7.222540	7.304415	2.808559	5.381357	6.957879
865423	17.764660	18.800254	19.186677	18.813821	12.773665	17.559572	17.871238
865432	4.532480	5.246429	4.421798	4.252286	5.387975	4.589099	4.404683
865468	3.792675	4.087637	2.621547	3.914536	7.506230	4.270139	5.178358
86561	3.097896	2.630919	1.648151	2.340864	7.212653	3.265710	3.781042
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
867739	4.702069	6.407911	6.040275	6.527031	4.182343	3.440744	6.508521
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
868871	5.491863	5.316080	5.448882	4.830946	7.309619	6.098679	4.760578
868999	6.004217	4.549465	4.739919	3.161868	9.010251	6.659956	3.685563
869104	4.151728	5.286862	5.157621	5.228984	3.197593	3.711780	5.120186
869218	3.765429	3.434938	4.144972	3.785485	6.728417	4.633042	3.413892
869224	3.193649	3.814938	3.245303	2.627559	6.429053	3.627317	2.924142
869254	4.170679	2.418756	2.353438	2.716729	8.387184	5.011954	3.831730
869476	7.221534	6.933658	7.061072	6.035515	7.170113	7.563234	5.705768
869691	9.283031	10.488643	10.965771	9.711863	8.410084	10.151515	8.388047
86973701	5.235223	5.773232	5.805169	5.888168	5.579211	6.108455	5.690149
86973702	3.524612	4.850045	3.775164	4.002936	5.570240	3.327788	4.477281
869931	3.291884	2.867163	1.509468	2.970259	7.430969	3.616878	4.418722
871001501	4.385925	4.806671	6.143296	4.233942	6.090942	5.509504	3.094979
871001502	9.375127	9.997956	10.062389	9.277381	10.247300	9.954514	9.072793
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
8711003	2.465569	3.116652	3.043568	1.771836	6.706330	3.530144	2.560469
8711202	6.778119	8.146194	8.102416	8.144929	3.356264	6.378704	7.830264
8711216	3.563335	4.617144	4.520418	5.226245	5.957086	4.329307	5.682122
871122	4.100713	3.340431	2.334103	2.270408	7.714995	4.354226	3.491772
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
8711803	7.925702	8.537727	8.457931	8.573077	5.669783	7.576887	8.292641

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
872608	10.800720	10.952621	11.171287	10.801312	10.557640	11.542952	10.414397
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84300903							
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84358402							
843786							
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857343								
857373								
857374								
857392								
857438								
85759902								
857637								
857793	5.188813							
857810	8.974026	7.609526						
858477	10.285272	7.851279	6.021257					
858970	10.028343	7.614204	6.294785	6.121872				
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	

859711	13.678339	11.406273	11.918086	10.477362	10.431301	10.229645	10.105044
859717	5.506613	4.694376	10.714806	11.076244	11.133620	10.282153	4.027639
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
8611103	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
8611792	7.087220	6.957352	10.636923	12.001558	10.859673	9.632395	6.620304
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
86208	3.348133	5.204736	8.350044	10.835414	9.573662	9.752379	6.723621
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
862548	5.759968	3.405949	5.934087	6.764585	7.329557	5.861515	5.626217
862717	6.290709	4.638610	4.731987	7.192951	7.953272	6.314788	7.404886
862722	11.326365	8.386401	6.591295	3.393242	5.061618	4.112201	10.586672
862965	8.760474	6.688371	3.011746	6.229943	7.280540	6.256179	9.925212
862980	8.353947	5.369082	5.057408	4.169061	6.000814	3.993190	7.485007
862989	8.815759	6.110016	3.721270	4.827311	3.807386	3.763703	8.664228
863030	7.709371	5.071989	10.677113	8.414108	9.316239	8.449457	5.251894
863031	7.207509	4.419909	5.995092	5.076372	6.502529	4.047834	6.534186
863270	8.424709	6.002706	3.644983	5.323447	7.320248	6.484909	9.383577
86355	9.778401	11.793408	17.322164	17.768694	16.268654	16.347734	9.507231
864018	8.122547	5.816980	5.012978	4.245895	7.414988	4.976634	7.936832
864033	9.284110	7.061816	5.410146	4.045786	5.588280	3.004734	8.262590
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
864292	9.181498	6.232403	6.437717	5.628429	5.770222	3.846116	7.170349

864496	9.505987	6.325209	6.924926	2.847694	6.594853	4.841673	8.202135
864685	7.714456	5.285596	4.060709	4.618447	6.688148	4.842439	7.658780
864726	11.366404	9.619792	8.301101	7.316212	9.218102	6.841826	8.846247
864729	4.853443	3.096256	8.864897	7.845506	8.293826	7.760214	4.776072
864877	5.663273	4.325739	10.481073	9.723362	10.027064	9.032482	3.161527
865128	6.985119	7.204934	7.069293	9.775890	7.752697	9.097992	10.374879
865137	8.526446	6.413165	5.017554	3.215115	6.800594	6.338229	9.097793
86517	2.653132	4.711203	7.493746	8.933841	8.412422	8.265937	6.136987
865423	13.054838	15.162281	18.702094	19.380203	17.368539	17.081900	12.556205
865432	6.679896	4.892748	5.432408	5.405998	6.276507	6.658738	7.956843
865468	8.423282	6.642427	4.487323	6.469702	8.459165	7.360311	8.421774
86561	8.171202	6.544270	2.678611	5.536515	7.271169	6.724526	9.680873
866083	6.545386	4.253500	5.539101	6.795869	7.976792	6.682440	7.763611
866203	4.618626	6.162846	6.218740	9.779947	9.006438	9.326210	8.146427
866458	6.100522	4.670350	6.993903	7.167056	6.892715	6.468230	5.765366
866674	4.135374	4.557772	9.105241	10.870308	10.246008	10.007994	6.056509
866714	7.827001	5.177425	4.942623	3.705484	4.812027	4.979596	8.162389
8670	4.234564	3.592492	6.245346	7.208258	7.781633	7.150561	6.294975
86730502	4.393228	3.208490	5.976687	7.818557	7.410603	7.169567	6.672135
867387	6.008869	5.107912	4.482181	6.257895	7.075258	7.204645	8.166179
867739	3.255441	4.754159	6.601224	8.818167	9.188260	8.438520	7.131506
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
868999	10.516991	8.137463	4.169724	3.425942	5.342355	6.271571	11.138471
869104	4.097664	4.087426	5.402828	7.363089	7.182602	6.943871	6.320255
869218	8.193181	5.633839	4.255555	4.661437	5.630611	3.570457	8.359478
869224	7.230363	4.889601	4.130324	4.549977	6.084131	5.963484	8.205498
869254	9.624910	7.777911	2.769437	5.094120	7.306441	6.258981	10.192375
869476	8.950293	6.305452	7.068165	5.361689	5.276610	5.476719	7.323012
869691	9.490983	6.897456	10.838808	9.778846	7.297118	8.726671	8.605782
86973701	7.447545	5.575320	6.019928	7.920477	7.008466	6.856369	6.841577
86973702	6.137726	4.434209	5.256956	5.799777	7.271357	6.701055	7.068409
869931	8.445203	6.823599	3.132532	6.411552	7.995544	7.539761	9.766831
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
8711003	7.815811	5.193154	3.319074	4.672997	5.684537	5.555006	8.469344
8711202	4.122614	5.044139	8.347446	9.717640	9.126238	8.404157	4.608383

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
8712064	7.904115	5.470192	5.182524	5.428051	6.960082	4.091964	6.915758
8712289	3.631201	7.025050	10.069677	12.374540	11.991987	12.202206	8.495288
8712291	8.167978	6.906966	2.741792	6.763554	7.776039	7.223412	10.237646
87127	9.982277	8.208026	5.016494	3.436860	7.565092	6.723189	10.430328
8712729	4.378156	4.743227	5.265437	8.157297	7.675025	7.617401	7.115584
8712766	4.625899	6.059777	9.587893	11.315720	11.231327	10.164778	5.454666
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
871642	10.219288	8.437262	2.983551	5.438551	5.205223	5.281964	11.120916
872113	10.951989	8.495477	3.964285	3.478898	5.531583	5.428855	11.051775
872608	12.100802	9.802077	11.432114	10.477257	10.088205	8.927040	8.217142
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859487	6.614479	6.677584	6.263776	4.745837	1.829153	15.263312	
859575	10.302093	7.024380	6.254619	9.284134	7.518045	16.120267	7.204163
859711	9.269523	11.302085	11.613850	10.152578	11.438885	12.859035	11.678684
859717	10.851501	5.257807	5.516696	9.533136	10.246702	13.114517	10.219837
859983	7.519400	4.417863	4.280758	5.599389	4.953712	13.999954	4.503411
8610175	6.273767	5.873117	5.560006	4.589845	2.605759	14.749002	2.357384
8610404	8.243215	5.337149	5.051722	7.002792	5.495055	14.434141	5.410497
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
8610908	6.190318	5.033432	4.647920	4.005545	2.852152	14.364944	2.464566
861103	6.146094	4.540907	4.538359	1.766804	4.660995	13.939801	4.819937
8611161	6.799259	3.443893	3.579221	5.743681	6.479873	11.663824	6.250680
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
8612080	5.461286	5.158186	4.956348	3.983177	3.562044	14.057127	3.263376
8612399	8.408964	5.361325	4.519427	7.958499	7.552136	14.313985	7.147736
86135501	5.825153	4.900398	4.375966	5.242191	5.173786	12.812756	5.306549
86135502	9.782757	5.629153	4.965626	8.979002	8.098318	14.205259	7.930702
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861648	6.838700	5.726865	5.009642	4.990306	3.379117	15.247169	3.426118
861799	6.922384	4.926572	4.217577	5.689816	4.216343	13.265518	4.248982
861853	7.701745	7.731938	7.361416	6.626336	3.451078	16.160938	3.530403
862009	6.572923	5.297865	4.755604	4.211769	2.741975	14.820887	2.194524
862028	8.238935	3.617997	3.495114	6.998841	6.755599	12.270440	6.633306
86208	9.275296	6.393129	5.523260	9.177482	8.656685	14.285635	8.476260
86211	5.237883	6.348440	5.809894	4.130162	3.530939	14.654467	2.963124
862261	6.629997	7.080831	7.119047	2.920443	4.116544	15.447993	4.509725
862485	6.498343	6.033195	6.036715	4.838553	3.279531	14.451611	2.895040
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862717	7.637498	4.448248	3.980946	4.972946	4.106315	14.500815	4.444066
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862965	6.785357	6.683965	6.294836	4.569595	2.932032	15.764834	3.498463
862980	5.861206	4.395185	4.680457	2.751681	3.565738	13.297027	3.860362
862989	4.057957	6.108559	5.813788	3.452598	3.826329	13.891021	3.773340
863030	9.766770	4.986815	5.478104	8.034924	9.561175	11.583777	9.143738
863031	6.527320	3.214457	3.565202	2.981327	4.690872	13.082246	4.636761
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865423	17.116713	15.280327	14.850704	17.820509	18.617581	16.657563	18.333034
865432	6.716779	5.729741	5.099768	6.032147	4.944307	13.871407	3.821891
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866203	8.539955	7.177380	6.381433	8.642296	6.862834	15.129113	6.595096
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866714	5.544402	5.436460	5.281007	4.481933	4.419144	13.903027	3.741916
8670	8.288337	3.673149	2.960927	6.409546	5.624533	14.003712	5.110554
86730502	7.798150	3.938553	2.936368	6.285897	5.992333	14.325423	5.697122
867387	7.084653	5.839283	5.093607	6.279783	4.228253	14.768578	3.365826
867739	9.264748	5.025727	4.279276	7.486265	6.474846	15.002964	6.240498
868202	6.866264	4.686093	4.549233	3.400554	2.860766	14.497602	3.433752
868223	6.916450	6.819548	6.585986	4.442326	4.151915	15.160746	4.105086
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868826	8.345304	7.904566	7.614758	9.364951	9.282740	12.698990	9.041502
868871	6.249402	6.432225	6.224979	4.945642	4.540478	13.993986	3.961573
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869218	5.643545	5.313691	5.036891	2.453091	3.593066	14.455679	3.336941
869224	6.043677	5.275052	4.992656	4.848816	3.473595	14.210145	3.244556
869254	6.379514	7.750059	7.573752	5.114788	2.229620	15.510668	2.688712
869476	5.747973	6.400188	6.415094	5.528850	6.629407	12.746446	6.266290
869691	7.345714	7.811142	7.613692	9.063078	10.390921	11.377571	10.234582
86973701	5.013608	6.497510	6.071904	6.099407	6.055512	12.395377	6.224180
86973702	7.009001	4.887527	4.454208	5.764082	4.268733	13.604115	3.693087
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8710441	18.183864	19.504419	19.842748	20.125855	21.370518	10.466865	21.572416
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8711002	5.679681	4.792505	4.725564	4.745438	4.059144	13.030528	3.803451
8711003	5.563571	5.465756	5.195257	4.184912	2.941301	14.264878	2.991189
8711202	8.820210	5.407883	4.746083	8.218277	8.046499	13.159694	7.748085
8711216	7.353046	7.458854	6.678144	7.163736	5.348757	15.604235	5.363740
871122	6.824618	6.877098	6.664058	5.087865	2.787547	15.464307	2.047951
871149	6.876901	8.012347	7.914624	5.610346	2.806554	16.197680	2.924798
8711561	4.522368	4.778270	4.488115	3.586856	4.649672	12.727251	4.614926
8711803	9.585938	8.588606	7.984932	10.258109	8.433592	14.968735	8.114156
871201	11.368935	6.828554	6.149085	10.783909	10.362341	14.441632	9.871546
8712064	6.236488	4.566209	4.624858	2.700679	3.994638	13.485444	4.382205
8712289	11.804023	8.188899	7.451117	11.338328	10.250803	16.076608	9.949564
8712291	7.572948	7.316970	6.623265	6.039361	3.241094	16.256148	2.971167
87127	7.751258	7.908567	7.911540	5.909499	3.918451	15.715782	3.308177
8712729	7.209743	5.523583	4.740742	6.791685	5.417829	14.418695	5.185584
8712766	10.825671	6.372866	6.048081	9.524244	9.304886	14.421456	9.269721
8712853	7.099544	6.102896	5.353916	5.369803	3.407000	15.649541	2.541661
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
871641	5.400474	7.866868	7.675474	4.453466	4.212830	14.594343	4.158233
871642	5.228272	8.457801	8.062149	5.066088	3.915295	16.163455	3.812736
872113	5.928636	8.350931	8.255042	4.832746	3.777387	15.783801	3.756850
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8610629	8.891857	9.469040	9.825790	5.986430	6.029296	6.584548		
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	
8611103	8.351614	10.339942	8.600639	5.121788	4.475887	6.201979	5.781447	
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	
86135501	6.182193	11.263975	7.614039	5.589388	4.866230	3.946549	6.273331	
86135502	4.212775	13.664024	5.298603	5.965211	7.029973	5.259662	8.977677	
861597	6.885108	10.265324	7.391962	3.796112	3.163801	5.085537	6.190595	
861598	6.194220	9.982730	6.747866	3.847379	4.839219	4.793669	4.674605	
861648	5.595806	11.783713	8.415063	4.289730	2.697485	4.881108	6.857652	
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861853	6.029355	12.727322	10.236550	5.024564	2.937443	5.371645	7.822019	
862009	6.147472	11.778888	8.754616	3.749692	1.870537	4.605413	5.810849	
862028	5.484891	10.992385	5.214542	4.286400	5.955945	3.798115	6.566992	
86208	4.257475	13.187521	5.546500	7.024716	7.740044	5.100718	8.714615	
86211	7.436370	10.628215	9.765623	4.529238	2.807838	5.804120	5.198097	
862261	9.369550	9.997690	10.640086	6.046495	4.682289	7.473029	6.727223	
862485	7.714724	10.810451	9.366309	3.032851	2.452261	6.081924	5.590931	
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
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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
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865468	6.913347	10.932115	9.018748	4.296504	2.958313	5.818042	7.504273
86561	6.598098	12.198114	9.687391	4.004667	1.645502	5.764374	6.727098
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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
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867387	5.036840	11.848535	8.263313	3.112631	2.819131	4.077609	5.549092
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868682	7.434533	11.604790	9.789456	3.872802	1.147702	5.882714	5.881224
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8611792	7.410914	11.693380	9.121236	8.375305	7.973068	8.084637		
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8612399	5.537927	12.375399	6.096690	6.905270	5.763468	9.009756	6.721670	
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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	
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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	
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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	
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862965	11.201472	17.955453	2.981019	4.597057	6.915207	14.808236	10.352924
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865423	11.334662	9.512115	17.662476	16.713194	15.464972	10.422952	11.570739
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871001502	10.376307	15.002151	8.611160	6.863406	6.654944	14.811467	10.228352
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8712729	6.768850	14.252319	4.305831	6.002756	5.552292	10.406564	7.148903
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87139402	9.353762	16.696694	2.895394	5.113839	5.221452	14.355325	10.339762
87163	8.762820	16.121733	2.544024	4.447073	5.427681	12.426435	8.815106
87164	5.647310	12.935776	6.187563	7.175828	3.520808	10.085780	7.953631
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
864685	3.005862	6.743223	4.841015	7.187205	2.722444	5.027999	3.072826
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

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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
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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
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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
872113	4.481249	9.478740	7.555524	10.329461	5.716551	7.269983	5.618968
872608	10.267900	11.083766	9.108195	11.988327	8.785785	8.931183	10.688207
	861799	861853	862009	862028	86208	86211	862261
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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	
865128	6.561083	7.939869	6.765328	8.062365	5.597279	7.664229	9.978677	
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	
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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
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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
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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
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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
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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	
864292	5.518992	4.639300	6.062106	5.048223	6.441867	3.807063	3.840456	
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	
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865137	1.341092	5.428571	5.704374	5.534491	4.974832	3.807096	4.781522	
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865423	18.549594	15.374629	16.784649	19.292758	19.173888	17.513127	17.443248	
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865468	4.017750	4.620383	4.388011	7.912493	4.047533	4.692500	5.271578	
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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
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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
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869931	3.750571	5.526745	4.169061	7.692894	3.129843	5.214380	5.043942
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8710441	20.986816	19.120709	20.803884	21.163792	21.979636	19.770326	19.944605
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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
8711202	7.872696	4.774983	5.828929	10.374427	8.431222	7.159096	7.564246
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
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8712064	4.529418	3.112740	3.911751	5.738389	4.724834	2.833827	4.004694
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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
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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
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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	
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86730502	7.315447	4.619496	4.986634	12.510649	5.361488	7.090450	6.049152
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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
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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
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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
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8711202	6.865249	6.184598	8.243560	9.596050	7.655478	7.767938	5.552951
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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
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865137	10.752414	6.229088	3.823671	3.572136	7.901244	6.611462	8.795789
86517	8.974585	7.268999	8.224167	6.411845	9.604929	4.602121	5.491013
865423	14.540089	16.112100	18.448642	17.650187	16.980258	14.245869	12.965248
865432	9.323227	5.794943	5.036511	4.427418	8.182037	5.355311	7.543681
865468	8.451983	6.108709	6.320220	3.959309	6.892344	7.797891	8.911564
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866714	9.879983	4.851729	3.749188	3.623453	7.563612	5.784485	7.924639
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871001501	10.942687	5.496108	6.281099	4.758048	8.833872	6.773238	8.621319
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8711202	7.783839	7.025920	8.587766	6.776588	8.782906	5.030245	5.107725
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871122	10.897548	6.074862	4.748177	3.250925	7.808229	7.589119	9.596138
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8712853	10.504824	6.082145	6.104551	3.256355	8.384234	6.813445	8.742713
87139402	10.595376	5.464701	4.536901	3.692262	7.349040	6.596727	8.823665
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866083	6.873785	5.236960	6.169539	17.746217	5.262876	5.211813	4.291756
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8670	6.860116	5.309394	3.404286	15.123610	3.749656	5.633998	5.114641
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868223	9.104773	5.651849	6.905891	17.744417	5.376534	4.609190	4.415313
868682	7.694671	2.767394	7.166096	18.737865	3.430100	3.546696	2.179704
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868871	9.273733	4.585973	6.802185	16.775160	4.272978	5.257247	5.250957
868999	8.695540	3.491913	9.133904	20.116397	5.134970	5.970776	4.219246
869104	6.169825	5.742344	2.518297	14.572390	3.976437	5.192493	4.860473
869218	7.932266	4.261762	6.609652	17.540861	4.237762	4.826766	3.824402
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871001502	12.112796	9.069127	10.032257	16.779743	9.353491	9.145157	10.217398
8710441	21.757509	21.367993	19.431141	18.636581	20.157680	20.107858	22.170006
87106	7.747071	2.784400	7.555757	18.605829	3.902237	4.963865	3.488248
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8711122	8.181858	2.098507	7.412108	19.164518	3.513389	3.774096	2.060113
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87127	9.958437	2.560811	8.580451	19.746467	4.577176	4.918024	3.915231
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8712766	9.411911	9.784249	4.387577	12.612900	8.049735	8.355330	8.923151
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868682	4.439288	6.699199	5.681482	8.491084	3.406182	5.048696	5.256383
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
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869104	4.557429	3.363127	4.084881	4.946892	4.994546	2.606515	2.865684
869218	4.666439	7.197811	5.264910	8.461253	3.372065	5.264894	5.259621
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869254	5.727858	7.207130	7.040228	9.754197	4.751348	6.576938	6.752327
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8711002	4.409686	6.311341	4.681348	7.228278	2.279286	4.226119	4.461717
8711003	3.501087	6.147870	5.546752	7.598665	3.068918	4.634192	4.303011
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[reached getopt("max.print") -- omitted 392 rows]

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

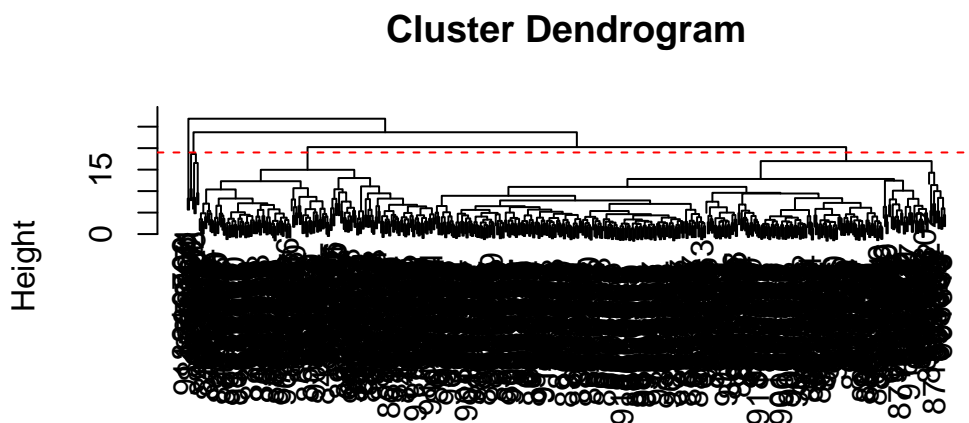
Call:

```
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(h=19, col="red", lty=2)
```



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

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

```
842302    842517    84300903    84348301    84358402    843786    844359    84458202
```

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1	1	1	1	1	3	1	1
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1	1	3	3	3	3	3	3
8910988	8910996	8911163	8911164	8911230	8911670	8911800	8911834
1	3	3	3	3	3	3	3
8912049	8912055	89122	8912280	8912284	8912521	8912909	8913
1	3	1	1	3	3	3	3
8913049	89143601	89143602	8915	891670	891703	891716	891923
3	3	3	3	3	3	3	3
891936	892189	892214	892399	892438	892604	89263202	892657
3	3	3	3	1	3	1	3
89296	893061	89344	89346	893526	893548	893783	89382601
3	3	3	3	3	3	3	3
89382602	893988	894047	894089	894090	894326	894329	894335
3	3	3	3	3	1	3	3
894604	894618	894855	895100	89511501	89511502	89524	895299
3	3	3	1	3	3	3	3
8953902	895633	896839	896864	897132	897137	897374	89742801
1	1	1	1	3	3	3	1
897604	897630	897880	89812	89813	898143	89827	898431
3	1	3	1	3	3	3	1
89864002	898677	898678	89869	898690	899147	899187	899667

3	3	3	3	3	3	3	1
899987	9010018	901011	9010258	9010259	901028	9010333	901034301
1	1	3	3	3	3	3	3
901034302	901041	9010598	9010872	9010877	901088	9011494	9011495
3	3	3	3	3	1	1	3
9011971	9012000	9012315	9012568	9012795	901288	9013005	901303
1	1	1	3	1	1	3	3
901315	9013579	9013594	9013838	901549	901836	90250	90251
3	3	3	1	3	3	3	3
902727	90291	902975	902976	903011	90312	90317302	903483
3	3	3	3	3	1	3	3
903507	903516	903554	903811	90401601	90401602	904302	904357
1	1	3	3	3	3	3	3
90439701	904647	904689	9047	904969	904971	905189	905190
1	3	3	3	3	3	3	3
90524101	905501	905502	905520	905539	905557	905680	905686
1	3	3	3	3	3	3	3
905978	90602302	906024	906290	906539	906564	906616	906878
3	1	3	3	3	1	3	3
907145	907367	907409	90745	90769601	90769602	907914	907915
3	3	3	3	3	3	1	3
908194	908445	908469	908489	908916	909220	909231	909410
1	1	3	1	3	3	3	3
909411	909445	90944601	909777	9110127	9110720	9110732	9110944
3	3	3	3	3	3	1	3
911150	911157302	9111596	9111805	9111843	911201	911202	9112085
3	1	3	1	3	3	3	3
9112366	9112367	9112594	9112712	911296201	911296202	9113156	911320501
3	3	3	3	1	4	3	3
911320502	9113239	9113455	9113514	9113538	911366	9113778	9113816
3	3	3	3	1	1	3	3
911384	9113846	911391	911408	911654	911673	911685	911916
3	3	3	3	3	3	3	1
912193	91227	912519	912558	912600	913063	913102	913505
3	3	3	3	3	3	3	1
913512	913535	91376701	91376702	914062	914101	914102	914333
3	3	3	3	1	3	3	3
914366	914580	914769	91485	914862	91504	91505	915143
1	3	1	1	3	1	3	1
915186	915276	91544001	91544002	915452	915460	91550	915664
3	3	3	3	3	1	3	3
915691	915940	91594602	916221	916799	916838	917062	917080
1	3	3	3	1	1	3	3

917092	91762702	91789	917896	917897	91805	91813701	91813702
3	1	3	3	3	3	1	3
918192	918465	91858	91903901	91903902	91930402	919537	919555
3	3	3	3	3	1	3	1
91979701	919812	921092	921362	921385	921386	921644	922296
3	1	3	3	3	1	3	3
922297	922576	922577	922840	923169	923465	923748	923780
3	3	3	3	3	3	3	3
924084	924342	924632	924934	924964	925236	925277	925291
3	3	3	3	3	3	3	3
925292	925311	925622	926125	926424	926682	926954	927241
3	3	1	1	1	1	3	1
92751							
3							

```
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?

Yes, we can

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

My favorite result is the “complete” method as it shows the similarities of clusters

5. Combining methods

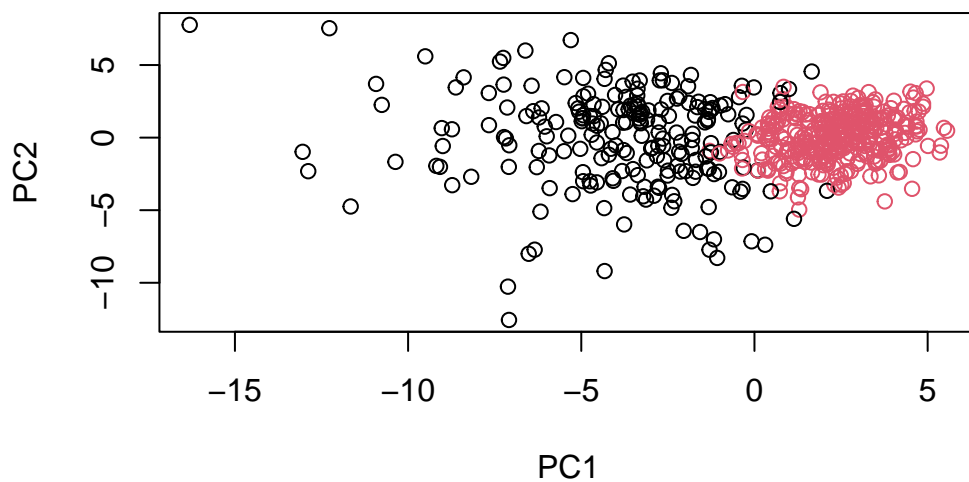
```
wisc.pr.hclust <- hclust(dist(wisc.pr$x[,1:7]), method="ward.D2")
grps <- cutree(wisc.pr.hclust, k=2)
table(grps)
```

```
grps
  1  2
216 353
```

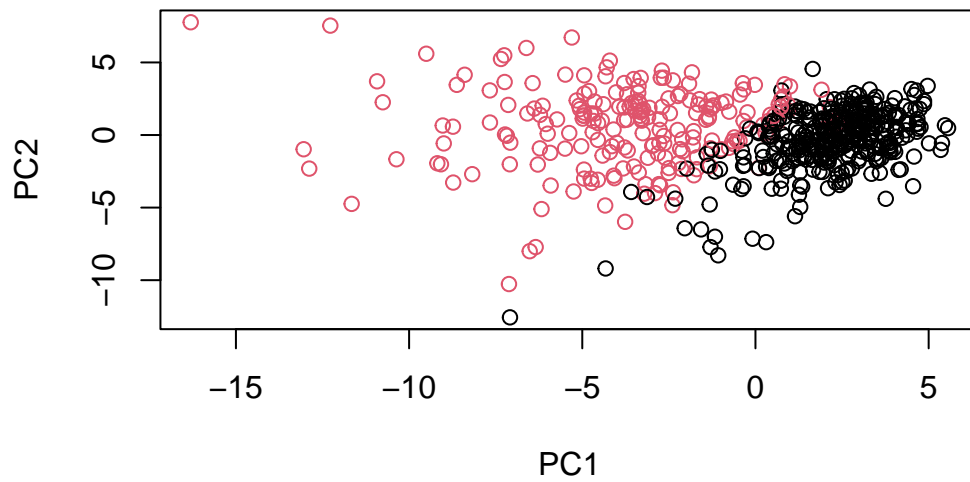
```
table(grps, diagnosis)
```

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

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



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



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

```
# Compare to actual diagnoses
wisc.pr.hclust.clusters <- cutree(wisc.pr.hclust, k=2)
table(wisc.pr.hclust.clusters, diagnosis)
```

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