

Exploratory Data Analysis

Sameeksha.B.S, Prathana.M.Rao

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LA1

```
library(readr)
googleplaystore <- read_csv("D:/archive/googleplaystore.csv")

## Warning: One or more parsing issues, call `problems()` on your data frame
## for details,
## e.g.:
##   dat <- vroom(...)
##   problems(dat)

## Rows: 10841 Columns: 13
## — Column specification —————
## Delimiter: ","
## chr (11): App, Category, Size, Installs, Type, Price, Content Rating, Genr
## es...
## dbl (2): Rating, Reviews
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this m
## essage.
```

The str() function in R provides a concise summary of the structure of a given object.

```
library(pandoc)
googleplaystore$Rating <- as.numeric(googleplaystore$Rating)
```

#View the summary statistics of the dataset:
summary(googleplaystore)

```
##      App      Category      Rating      Reviews
## Length:10841 Length:10841 Min.   : 1.000 Min.    :      0
## Class :character Class :character 1st Qu.: 4.000 1st Qu.:    38
## Mode  :character Mode  :character Median : 4.300 Median :   2094
##                               Mean  : 4.193 Mean  :  444153
##                               3rd Qu.: 4.500 3rd Qu.:   54776
##                               Max.   :19.000 Max.    :78158306
##                               NA's   :1474  NA's    :1
##      Size      Installs      Type      Price
## Length:10841 Length:10841 Length:10841 Length:10841
```

```
## Class :character   Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character   Mode  :character
##
##
##
## Content Rating      Genres              Last Updated        Current Ver
## Length:10841        Length:10841        Length:10841        Length:10841
## Class :character    Class :character    Class :character    Class :character
## Mode  :character    Mode  :character    Mode  :character    Mode  :character
##
##
##
## Android Ver
## Length:10841
## Class :character
## Mode  :character
##
##
##
##
```

#Check the number of rows and columns in the dataset:

```
dim(googleplaystore)
```

```
## [1] 10841    13
```

#View the first few rows of the dataset:

```
head(googleplaystore)
```

```
## # A tibble: 6 × 13
```

```
##   App                Category Rating Reviews Size   Installs Type  Price `Content R
ating`
##   <chr>              <chr>    <dbl>   <dbl> <chr> <chr>    <chr> <chr> <chr>
## 1 Photo Edi... ART_AND...   4.1    159 19M   10,000+ Free  0    Everyone
## 2 Coloring ... ART_AND...   3.9    967 14M   500,000+ Free  0    Everyone
## 3 U Launche... ART_AND...   4.7   87510 8.7M   5,000,0... Free  0    Everyone
## 4 Sketch - ... ART_AND...   4.5  215644 25M    50,000,... Free  0    Teen
## 5 Pixel Dra... ART_AND...   4.3    967 2.8M   100,000+ Free  0    Everyone
## 6 Paper flo... ART_AND...   4.4    167 5.6M   50,000+ Free  0    Everyone
## # i 4 more variables: Genres <chr>, `Last Updated` <chr>, `Current Ver` <c
hr>,
## #   `Android Ver` <chr>
```

#View the first few rows of the dataset:

```
head(googleplaystore)
```

```
## # A tibble: 6 × 13
```

```
##   App                Category Rating Reviews Size   Installs Type  Price `Content R
ating`
```

```
##   <chr>      <chr>      <dbl>    <dbl> <chr> <chr>      <chr> <chr> <chr>
## 1 Photo Edi... ART_AND...   4.1      159 19M   10,000+ Free  0    Everyone
## 2 Coloring ... ART_AND...   3.9      967 14M   500,000+ Free  0    Everyone
## 3 U Launche... ART_AND...   4.7    87510 8.7M   5,000,0... Free  0    Everyone
## 4 Sketch - ... ART_AND...   4.5   215644 25M    50,000,... Free  0    Teen
## 5 Pixel Dra... ART_AND...   4.3      967 2.8M   100,000+ Free  0    Everyone
## 6 Paper flo... ART_AND...   4.4      167 5.6M   50,000+ Free  0    Everyone
## # i 4 more variables: Genres <chr>, `Last Updated` <chr>, `Current Ver` <c
hr>,
## #   `Android Ver` <chr>
```

#View the last few rows of the dataset:

```
tail(googleplaystore)
```

```
## # A tibble: 6 × 13
```

```
##   App          Category Rating Reviews Size   Installs Type  Price `Content R
ating`
```

```
##   <chr>      <chr>      <dbl>    <dbl> <chr> <chr>      <chr> <chr> <chr>
## 1 FR Forms  BUSINESS  NaN        0 9.6M   10+      Free  0    Everyone
## 2 Sya9a Mar... FAMILY    4.5        38 53M    5,000+   Free  0    Everyone
## 3 Fr. Mike ... FAMILY    5          4 3.6M   100+     Free  0    Everyone
## 4 Parkinson... MEDICAL   NaN        3 9.5M   1,000+   Free  0    Everyone
## 5 The SCP F... BOOKS_A... 4.5       114 Vari... 1,000+   Free  0    Mature 17+
## 6 iHoroscop... LIFESTY... 4.5   398307 19M    10,000,... Free  0    Everyone
## # i 4 more variables: Genres <chr>, `Last Updated` <chr>, `Current Ver` <c
hr>,
## #   `Android Ver` <chr>
```

#Subset the dataset based on a condition (e.g., Rating greater than 4.5):

```
subset_data <- googleplaystore[googleplaystore$Rating > 4.5, ]
```

#Sort the dataset by a specific column (e.g., Reviews in descending order):

```
sorted_data <- googleplaystore[order(googleplaystore$Reviews, decreasing = TR
UE), ]
```

#Calculate the average rating:

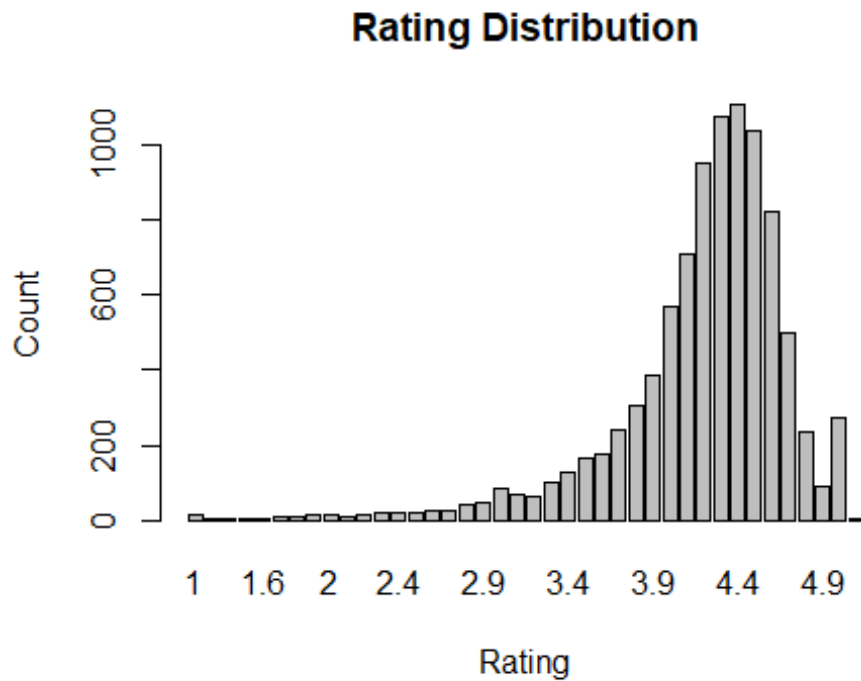
```
mean_rating <- mean(googleplaystore$Rating)
```

#Calculate the total number of reviews:

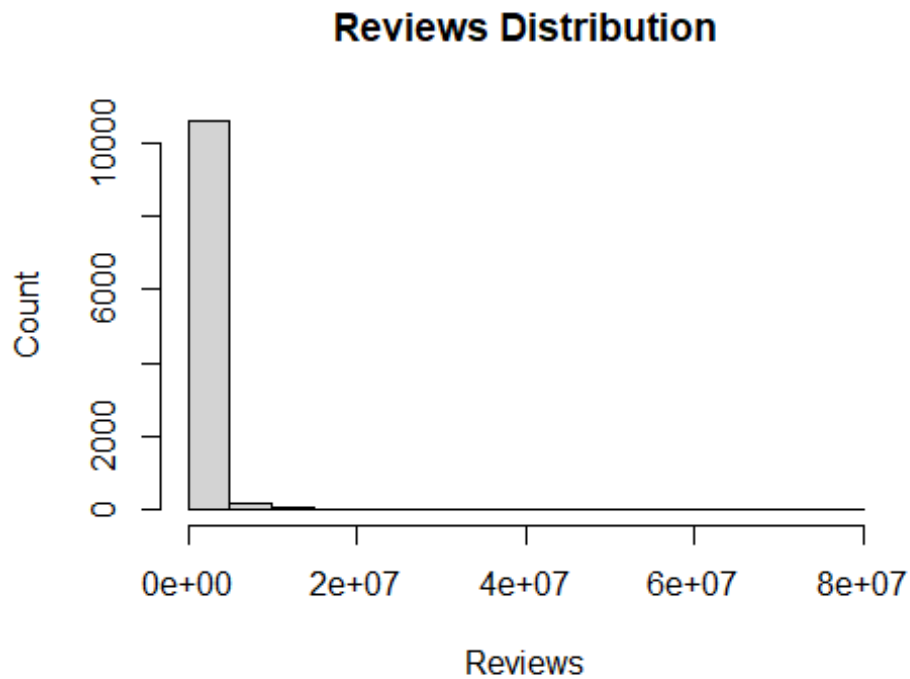
```
total_reviews <- sum(googleplaystore$Reviews)
```

#Create a bar plot of the ratings:

```
barplot(table(googleplaystore$Rating), main = "Rating Distribution", xlab = "
Rating", ylab = "Count")
```

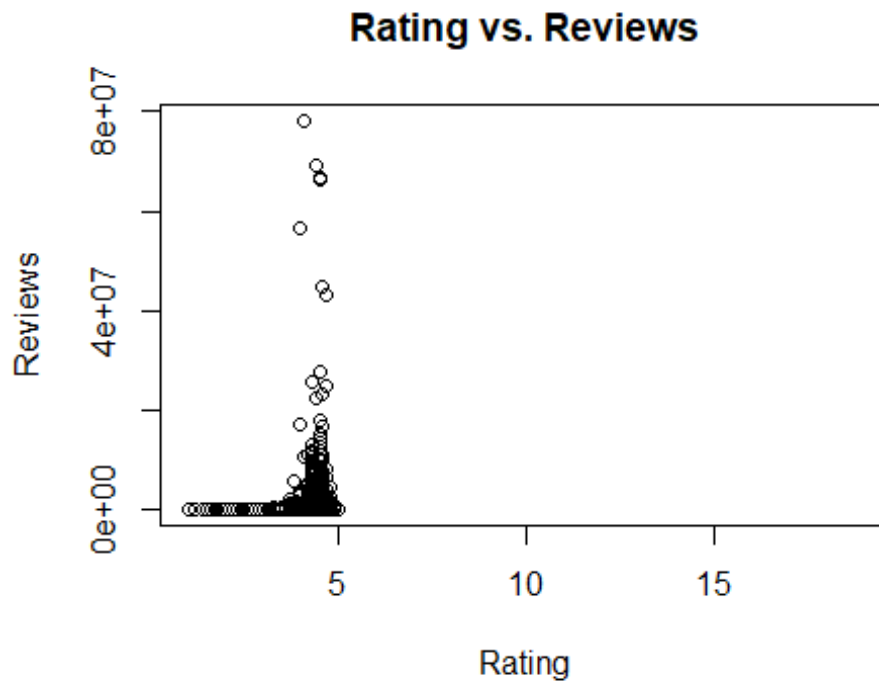


```
#Create a histogram of the reviews:  
hist(googleplaystore$Reviews, main = "Reviews Distribution", xlab = "Reviews"  
 , ylab = "Count")
```



#Create a scatter plot of Rating vs. Reviews:

```
plot(googleplaystore$Rating, googleplaystore$Reviews, main = "Rating vs. Reviews", xlab = "Rating", ylab = "Reviews")
```



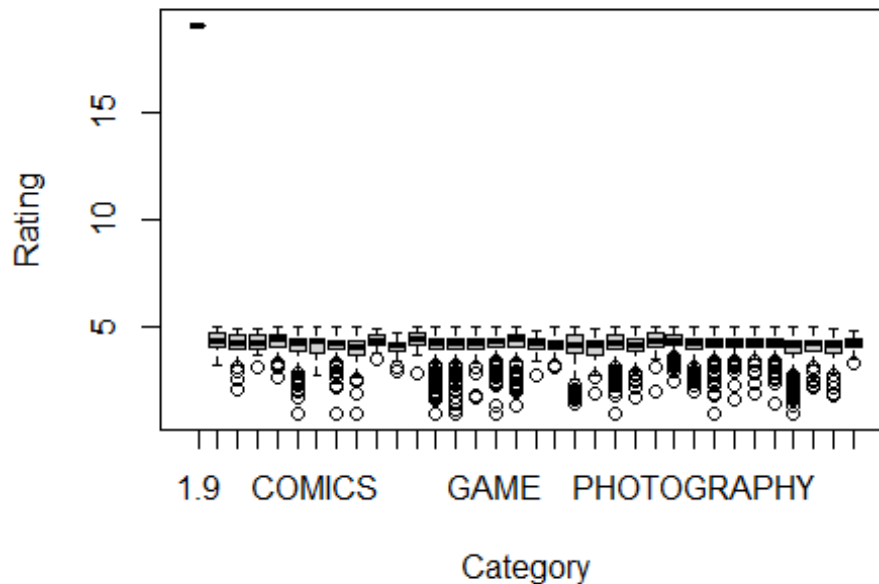
#Calculate the correlation coefficient between Rating and Reviews:

```
correlation <- cor(googleplaystore$Rating, googleplaystore$Reviews)
```

#Create a boxplot of Rating by a categorical variable (e.g., Category):

```
boxplot(Rating ~ Category, data = googleplaystore, main = "Rating by Category", xlab = "Category", ylab = "Rating")
```

Rating by Category



#Calculate the mean rating for each category

```
mean_rating_by_category <- tapply(googleplaystore$Rating, googleplaystore$Category, mean)
```

#Subset the dataset to include only specific categories (e.g., "GAME" and "SOCIAL"):

```
subset_categories <- googleplaystore[googleplaystore$Category %in% c("GAME", "SOCIAL"), ]
```

#Create a contingency table of Category and Rating:

```
contingency_table <- table(googleplaystore$Category, googleplaystore$Rating)
```

#Compute the row-wise sum of the contingency table:

```
row_sum <- rowSums(contingency_table)
```

#Compute the column-wise sum of the contingency table:

```
column_sum <- colSums(contingency_table)
```

#Perform a chi-square test of independence between Category and Rating

```
chi_square_test <- chisq.test(contingency_table)
```

```
## Warning in chisq.test(contingency_table): Chi-squared approximation may be
## incorrect
```

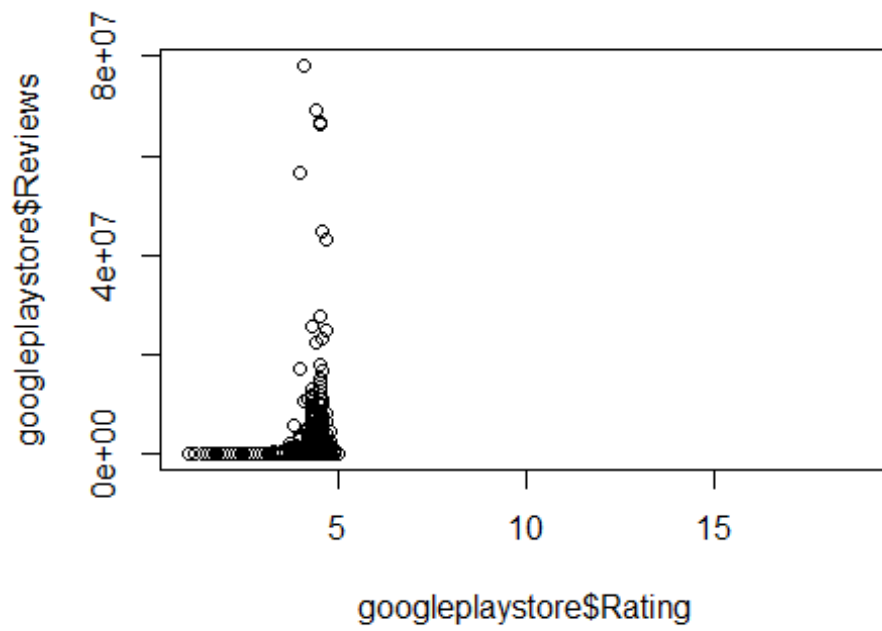
```
#Create a mosaic plot of the contingency table:
```

```
mosaicplot(contingency_table, main = "Category vs. Rating")
```

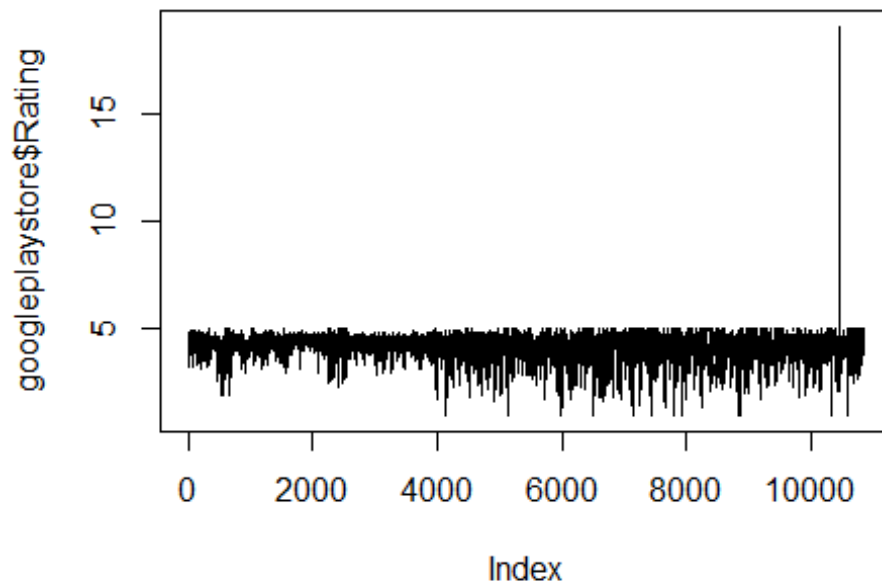


```
#Scatter plot of Rating vs. Reviews:
```

```
plot(googleplaystore$Rating, googleplaystore$Reviews)
```



```
#Line plot of Rating:  
plot(googleplaystore$Rating, type = "l")
```

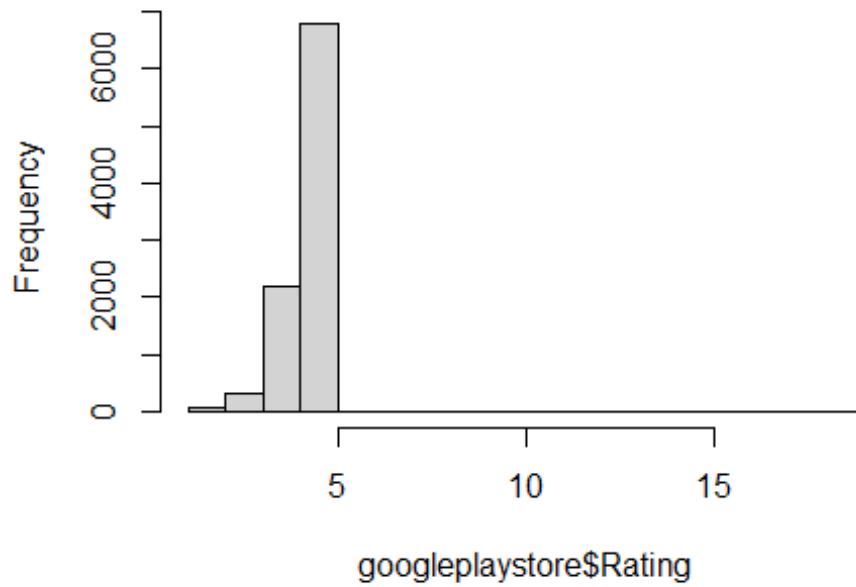



```
#Bar plot of Rating:  
barplot(googleplaystore$Rating)
```

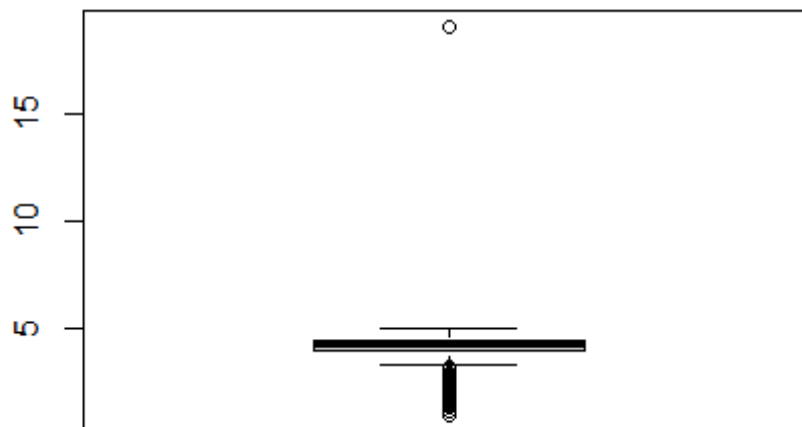


```
#Histogram of Rating:  
hist(googleplaystore$Rating)
```

Histogram of googleplaystore\$Rating

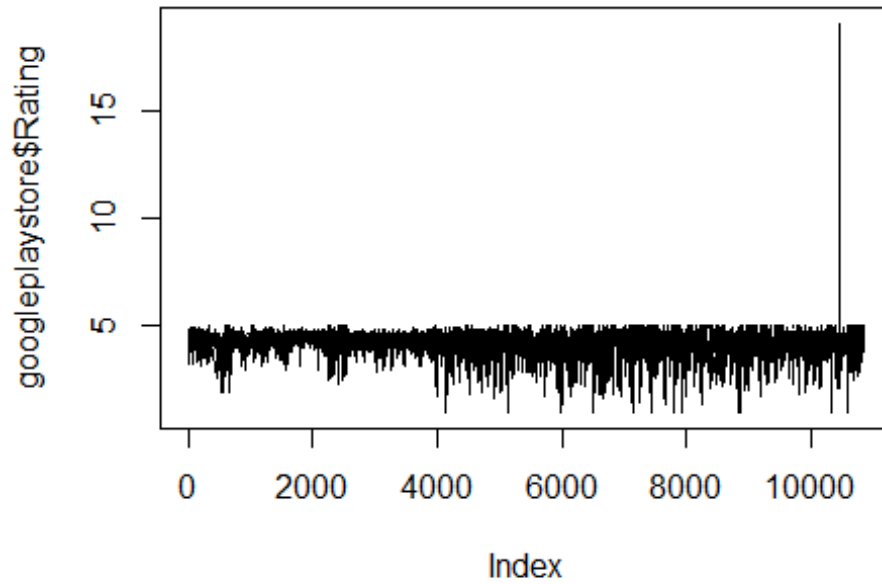


```
#Box plot of Rating:  
boxplot(googleplaystore$Rating)
```



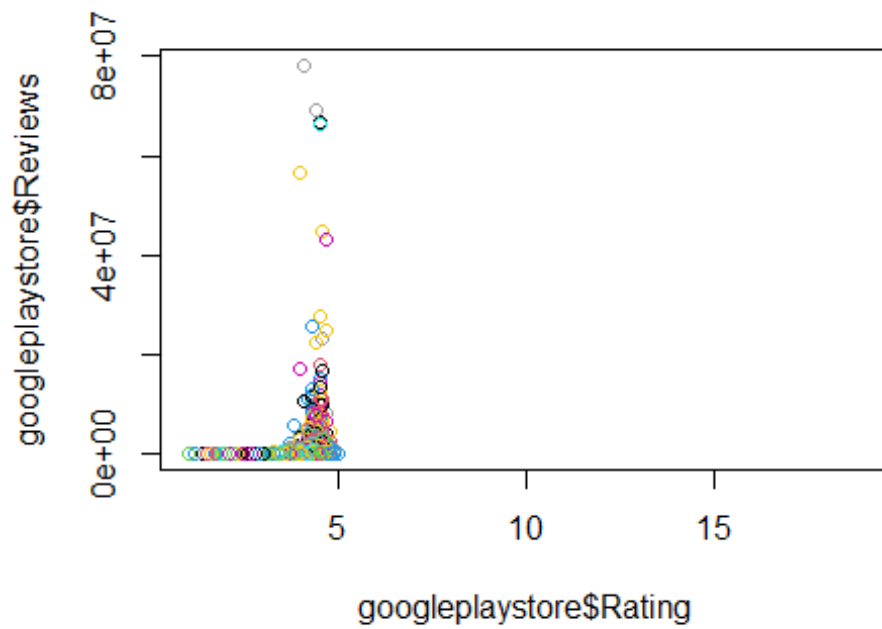
#Area plot of Rating:

```
plot(googleplaystore$Rating, type = "n")  
polygon(googleplaystore$Rating)
```

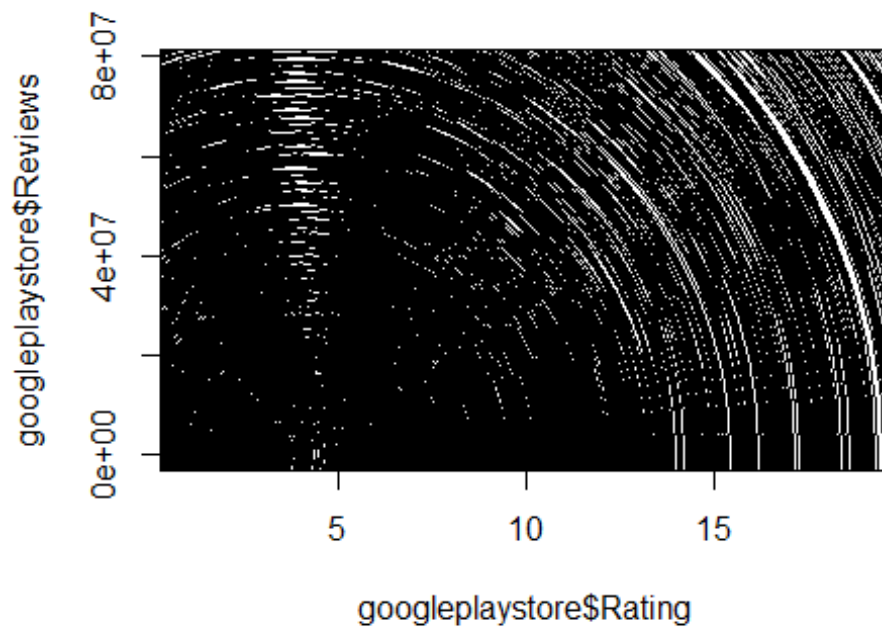


#Scatter plot with color-coded points based on Reviews:

```
plot(googleplaystore$Rating, googleplaystore$Reviews, col = googleplaystore$R  
eviews)
```

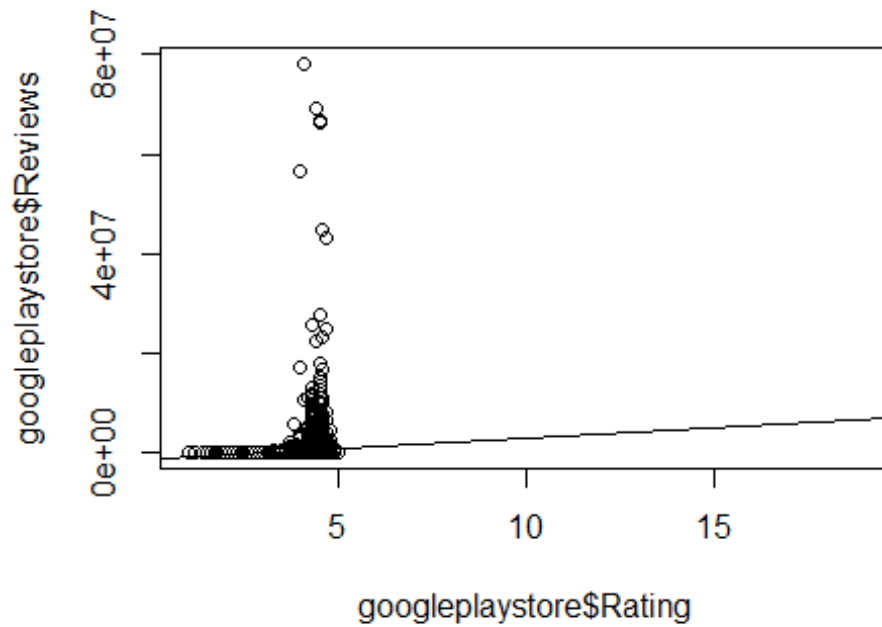


```
#Scatter plot with size-coded points based on Reviews:  
plot(googleplaystore$Rating, googleplaystore$Reviews, cex = googleplaystore$Reviews)
```



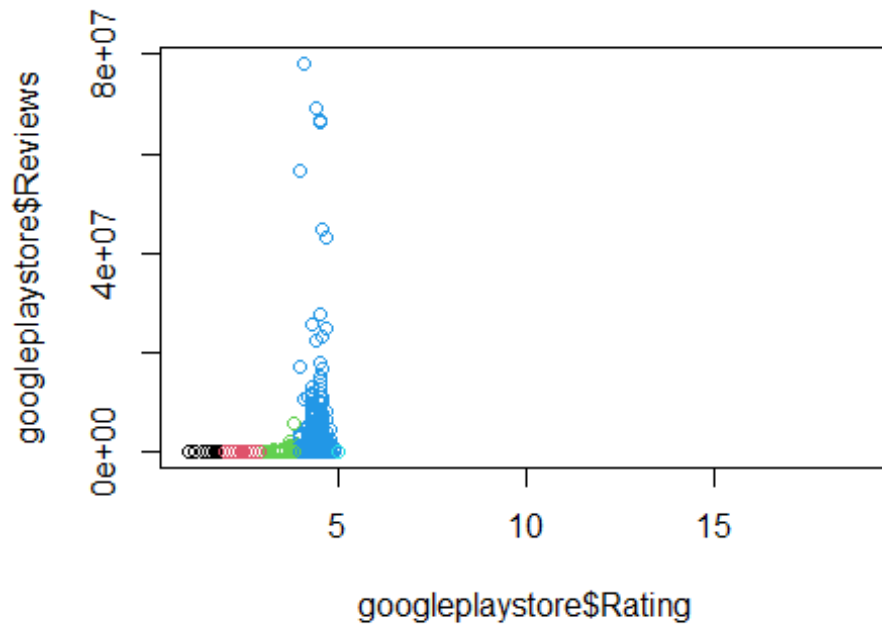
#Scatter plot with regression line:

```
plot(googleplaystore$Rating, googleplaystore$Reviews)  
abline(lm(googleplaystore$Reviews ~ googleplaystore$Rating))
```

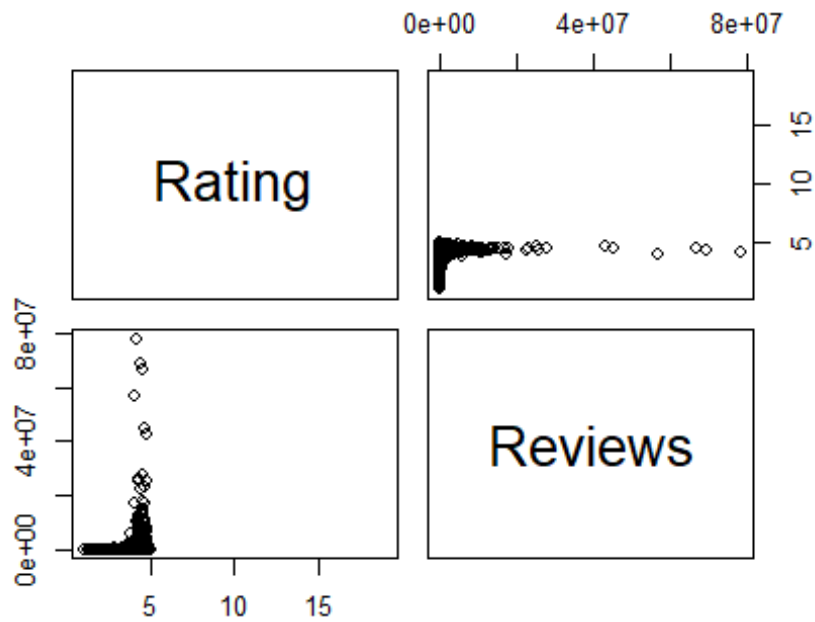


#Scatter plot with grouped points based on a third variable:

```
plot(googleplaystore$Rating, googleplaystore$Reviews, col = googleplaystore$R  
ating)
```



```
#Scatter plot matrix of Rating and Reviews
pairs(~ Rating + Reviews, data = googleplaystore)
```



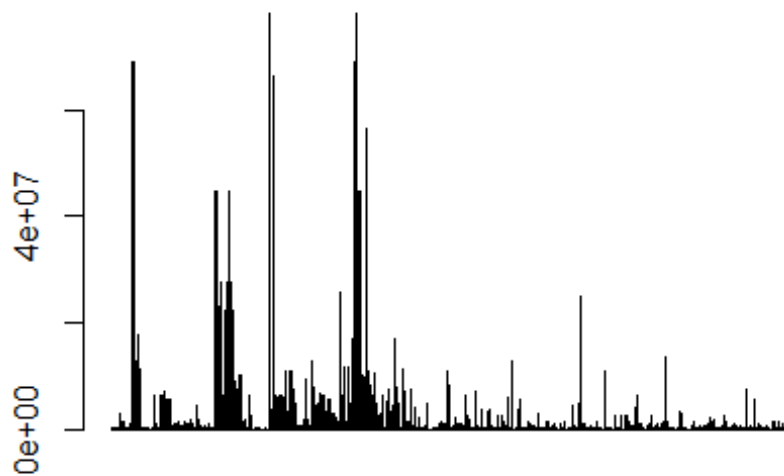
#Bar plot with grouped bars based on a third variable:

```
barplot(googleplaystore$Rating, beside = TRUE, col = googleplaystore$Reviews)
```

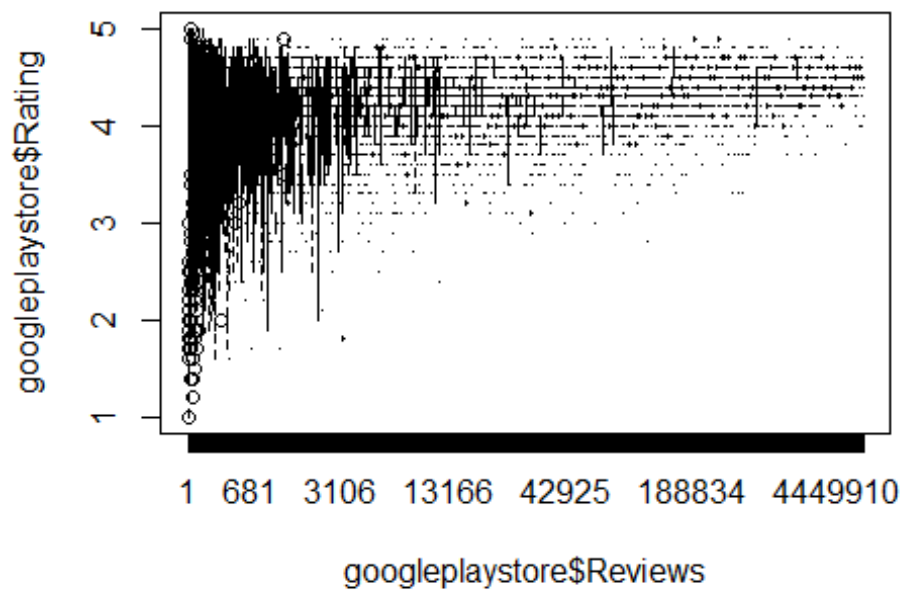


#Stacked bar plot of Rating and Reviews:

```
barplot(rbind(googleplaystore$Rating, googleplaystore$Reviews))
```



#Box plot grouped by a third variable:
 boxplot(googleplaystore\$Rating ~ googleplaystore\$Reviews)



#3D scatter plot of Rating and Reviews:

```
library(rgl)
plot3d(googleplaystore$Rating, googleplaystore$Reviews)
```

#Mean:

```
mean(googleplaystore$Rating)
```

```
## [1] NaN
```

#Median

```
median(googleplaystore$Reviews)
```

```
## [1] NA
```

#Standard deviation:

```
sd(googleplaystore$Reviews)
```

```
## [1] NA
```

#Minimum value:

```
min(googleplaystore$Reviews)
```

```
## [1] NA
```

#Maximum value:

```
max(googleplaystore$Rating)
```

```
## [1] NaN
```

#Range:

```
range(googleplaystore$Rating)
```

```
## [1] NaN NaN
```

#Frequency table:

```
table(googleplaystore$Reviews)
```

```
##
##      0      1      2      3      4      5      6      7
## 596    272    214    175    137    108    97    90
## 8      9     10     11     12     13     14     15
## 74     65     64     52     60     49     41     31
## 16     17     18     19     20     21     22     23
## 35     48     27     41     35     35     26     25
## 24     25     26     27     28     29     30     31
## 30     30     22     25     24     20     30     19
## 32     33     34     35     36     37     38     39
## 20     24     14     18     17     17     29     18
## 40     41     42     43     44     45     46     47
## 15     22     12     14     16     17     11     12
```

##	48	49	50	51	52	53	54	55
##	17	11	7	12	15	14	17	13
##	56	57	58	59	60	61	62	63
##	10	12	10	11	12	9	8	11
##	64	65	66	67	68	69	70	71
##	15	11	13	13	6	13	11	9
##	72	73	74	75	76	77	78	79
##	5	7	5	11	9	7	13	5
##	80	81	82	83	84	85	86	87
##	12	4	8	11	7	10	7	11
##	88	89	90	91	92	93	94	95
##	12	8	6	9	6	7	3	4
##	96	97	98	99	100	101	102	103
##	8	10	4	5	10	5	4	5
##	104	105	106	107	108	109	110	111
##	7	8	4	6	3	6	5	4
##	112	113	114	115	116	117	118	119
##	7	2	13	5	5	8	5	5
##	120	121	122	123	124	125	126	127
##	8	4	4	6	10	10	7	7
##	128	129	130	131	132	133	134	135
##	8	6	6	10	4	8	5	4
##	136	137	138	139	140	141	142	143
##	2	3	5	3	1	5	8	5
##	144	145	146	147	148	149	150	151
##	6	6	7	3	1	3	3	1
##	152	153	154	155	156	157	158	159
##	3	2	5	5	4	1	4	9
##	160	161	162	163	164	165	166	167
##	8	2	5	6	6	1	5	3
##	168	169	170	171	172	173	174	175
##	10	5	1	5	2	1	6	5
##	176	177	178	179	180	181	182	183
##	3	2	5	3	4	3	6	3
##	184	185	186	187	188	189	190	191
##	4	6	2	5	3	2	6	4
##	192	193	194	195	196	197	198	199
##	4	1	3	3	6	6	6	5
##	200	201	202	203	204	205	206	207
##	1	5	4	3	3	4	5	3
##	208	209	210	211	212	213	214	215
##	4	3	3	5	3	5	9	3
##	216	217	218	219	220	221	222	223
##	5	3	9	2	1	4	4	3
##	224	226	227	229	230	231	232	234
##	1	3	4	1	2	2	2	1
##	235	236	237	238	239	240	241	242
##	1	5	3	4	1	2	3	3
##	244	245	246	247	248	249	250	251
##	5	1	3	4	2	4	5	3

##	252	253	254	255	256	257	258	259
##	3	9	2	4	5	3	1	2
##	260	262	263	264	265	267	268	269
##	2	3	1	1	8	4	3	2
##	271	272	273	274	275	276	277	278
##	2	2	2	1	5	3	2	4
##	279	280	281	282	283	284	285	286
##	3	1	1	1	6	2	5	2
##	287	289	290	291	292	293	294	295
##	3	4	2	4	4	2	4	4
##	296	297	298	299	301	302	303	304
##	2	2	1	2	3	5	3	2
##	305	306	308	309	311	313	314	315
##	3	4	3	3	1	3	6	7
##	316	317	319	320	321	322	323	324
##	3	1	5	2	2	3	3	1
##	325	327	328	329	330	331	332	333
##	2	2	1	1	1	2	1	2
##	334	336	337	339	340	341	342	343
##	2	2	3	3	2	2	1	2
##	345	346	347	348	349	350	352	353
##	2	1	1	2	2	3	1	2
##	354	355	356	357	358	359	360	361
##	1	1	1	1	4	1	2	2
##	362	363	364	366	367	368	369	370
##	1	2	3	1	3	2	2	1
##	373	374	375	376	377	380	382	383
##	2	2	1	1	1	1	8	1
##	386	387	389	390	395	396	398	399
##	2	1	1	1	4	1	2	2
##	400	401	402	403	404	405	407	408
##	3	1	1	1	1	1	1	1
##	409	410	411	412	413	414	415	416
##	1	3	2	2	4	1	2	3
##	417	418	420	421	422	423	424	426
##	1	3	1	1	1	2	1	1
##	427	428	429	430	431	432	433	434
##	2	1	3	1	1	1	1	3
##	435	437	438	439	440	441	442	444
##	1	1	3	2	3	1	1	2
##	445	447	448	449	450	452	453	454
##	2	1	3	1	3	2	3	3
##	455	456	457	459	460	463	464	465
##	1	1	2	4	5	1	4	1
##	466	467	468	469	470	472	473	474
##	1	1	1	1	2	4	1	1
##	477	478	479	480	481	484	486	487
##	1	2	1	2	1	2	2	1
##	488	489	491	492	493	495	496	497
##	3	2	1	5	1	1	7	1

##	498	499	500	501	502	503	505	509
##	4	5	1	1	1	2	2	3
##	513	514	515	516	517	518	519	522
##	5	2	3	2	2	1	1	1
##	527	529	531	532	533	534	535	536
##	2	2	1	2	5	3	1	1
##	537	539	540	542	543	544	547	549
##	2	3	1	2	2	1	1	2
##	551	552	555	556	557	559	560	561
##	2	3	2	3	2	3	4	1
##	562	564	566	568	569	572	573	576
##	1	1	2	2	2	2	3	2
##	577	578	580	581	582	585	586	589
##	1	2	1	1	2	1	1	2
##	591	592	593	594	595	596	597	601
##	1	1	2	1	2	3	1	3
##	603	605	606	607	608	609	615	616
##	1	1	1	1	1	1	1	2
##	617	620	621	622	623	624	625	626
##	2	1	1	2	5	1	4	1
##	627	628	630	631	632	633	634	636
##	1	1	2	2	2	1	4	2
##	637	642	643	644	649	650	652	654
##	1	3	1	2	3	1	2	3
##	655	656	657	659	661	663	664	665
##	2	3	1	2	4	2	1	2
##	666	667	668	670	671	675	676	677
##	1	1	2	1	1	1	1	1
##	680	681	684	685	686	688	690	691
##	1	3	1	2	1	4	1	1
##	693	694	695	696	697	698	700	701
##	1	2	1	1	2	1	2	1
##	702	703	705	706	707	708	709	710
##	1	1	2	2	4	1	1	1
##	712	714	715	717	718	720	721	725
##	1	1	1	3	1	1	1	2
##	726	728	729	730	731	732	734	735
##	3	1	1	2	3	2	1	1
##	736	737	738	740	742	748	751	752
##	4	1	1	3	4	1	2	1
##	756	757	759	761	762	763	765	766
##	1	1	1	1	1	1	1	1
##	767	768	769	770	773	776	777	783
##	1	1	1	2	1	2	1	4
##	784	785	787	789	791	793	794	795
##	2	1	2	1	1	1	1	2
##	796	797	798	800	801	802	803	804
##	2	1	2	1	2	2	1	1
##	805	806	807	809	811	817	818	820
##	2	1	2	1	1	1	1	1

##	822	824	825	826	828	831	834	835
##	2	2	2	1	2	2	2	1
##	837	838	840	843	845	847	848	851
##	1	1	1	2	1	1	1	1
##	852	853	854	855	856	859	860	861
##	2	4	1	1	2	3	1	1
##	862	867	868	871	873	874	875	876
##	2	1	1	1	1	1	2	1
##	879	881	883	885	889	890	891	892
##	1	2	1	1	2	1	1	2
##	894	898	900	901	902	903	905	906
##	2	1	1	2	1	1	1	2
##	912	913	914	916	922	923	924	925
##	1	1	1	2	2	4	1	1
##	926	928	929	934	935	936	937	939
##	2	3	1	1	1	1	1	1
##	940	942	944	949	950	951	953	954
##	1	1	2	2	1	1	2	2
##	956	960	961	963	964	967	969	970
##	1	2	1	2	2	4	2	1
##	974	975	978	979	980	981	983	985
##	2	1	1	3	1	1	1	2
##	987	990	992	994	996	997	999	1002
##	2	1	1	2	1	1	1	2
##	1006	1007	1008	1010	1011	1012	1013	1015
##	1	2	1	1	1	2	1	2
##	1016	1018	1019	1022	1024	1025	1026	1031
##	1	1	1	1	1	1	1	1
##	1032	1033	1034	1035	1036	1041	1042	1044
##	1	1	1	1	1	1	3	1
##	1045	1054	1057	1058	1059	1060	1063	1065
##	1	1	1	2	1	2	1	3
##	1067	1070	1071	1073	1075	1077	1088	1090
##	2	1	1	2	2	1	2	2
##	1091	1092	1093	1094	1098	1103	1109	1111
##	1	1	2	1	2	1	1	1
##	1115	1117	1120	1123	1129	1130	1135	1137
##	1	1	1	1	1	2	2	1
##	1140	1143	1145	1146	1147	1150	1151	1152
##	2	1	1	1	2	1	1	1
##	1156	1157	1160	1162	1166	1167	1172	1178
##	1	2	2	1	2	1	1	1
##	1185	1186	1189	1195	1200	1201	1202	1203
##	3	1	1	1	1	1	1	1
##	1205	1211	1212	1213	1215	1216	1218	1225
##	1	1	1	3	1	2	3	1
##	1228	1231	1236	1238	1239	1240	1242	1250
##	1	2	3	2	1	1	1	2
##	1261	1264	1267	1268	1276	1279	1283	1287
##	1	1	1	1	1	1	2	1

##	1288	1290	1291	1294	1298	1302	1303	1307
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##	1308	1311	1313	1317	1318	1320	1322	1324
##	1	2	1	1	1	3	2	2
##	1327	1330	1338	1340	1343	1354	1357	1361
##	1	2	1	1	1	2	1	1
##	1363	1364	1369	1372	1376	1379	1380	1383
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##	1	1	1	1	2	2	2	1
##	1415	1417	1418	1419	1420	1424	1434	1435
##	1	2	1	2	3	1	1	1
##	1436	1437	1439	1440	1443	1446	1450	1455
##	1	1	2	1	1	1	1	2
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##	1	1	1	1	1	1	1	1
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##	1522	1526	1528	1531	1533	1539	1542	1545
##	1	1	1	1	3	1	1	2
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##	1	1	1	1	1	1	1	1
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##	1	2	1	1	1	1	1	2
##	1749	1754	1760	1763	1764	1769	1771	1774
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##	1776	1777	1778	1786	1791	1797	1802	1812
##	1	2	1	1	1	3	3	1
##	1819	1820	1827	1828	1838	1845	1849	1852
##	1	2	1	1	1	1	1	1
##	1853	1856	1857	1861	1862	1864	1865	1867
##	1	1	1	1	1	1	1	1
##	1873	1877	1878	1879	1880	1886	1891	1894
##	1	1	1	1	1	1	1	1

##	1895	1901	1902	1904	1905	1909	1911	1914
##	1	1	1	1	1	1	1	1
##	1916	1919	1920	1922	1925	1926	1929	1938
##	1	1	1	2	1	1	1	1
##	1939	1940	1947	1948	1953	1955	1960	1961
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##	1962	1968	1972	1976	1977	1981	1985	1987
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##	1988	1992	1995	1997	1998	1999	2000	2006
##	1	1	2	1	1	1	1	1
##	2012	2013	2014	2017	2019	2020	2026	2027
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##	2032	2036	2042	2046	2048	2052	2055	2056
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##	2068	2071	2076	2078	2079	2084	2087	2090
##	1	2	1	1	1	1	2	1
##	2093	2094	2099	2100	2102	2105	2107	2108
##	2	3	1	1	1	1	2	1
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##	3	1	1	1	1	1	1	1
##	2147	2150	2153	2155	2158	2159	2160	2167
##	1	1	1	1	2	1	1	3
##	2171	2176	2178	2180	2181	2183	2187	2194
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##	1	1	1	1	1	1	2	1
##	2218	2221	2223	2225	2231	2233	2248	2249
##	2	3	1	2	1	1	2	2
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##	1	2	1	1	2	1	1	1
##	2519	2520	2525	2526	2528	2531	2533	2536
##	1	1	1	2	1	1	1	1
##	2537	2538	2539	2543	2544	2548	2555	2556
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##	2557	2558	2560	2563	2570	2576	2580	2586
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##	3	1	1	1	1	1	1	1
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##	2681	2683	2689	2691	2695	2700	2707	2709
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##	1	1	1	1	2	1	1	2
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##	3032	3042	3043	3044	3047	3048	3049	3052
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##	3471	3478	3482	3484	3491	3492	3498	3502
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##	3614	3617	3632	3640	3642	3647	3652	3654
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##	1	1	2	1	1	1	1	1
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##	4585	4595	4600	4602	4607	4620	4624	4631
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##	4719	4722	4724	4726	4737	4751	4756	4786
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##	4923	4925	4928	4946	4953	4954	4976	4977
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##	6736	6738	6747	6750	6752	6760	6762	6784
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##	2	1	1	2	1	1	1	2
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##	8978	8985	9013	9016	9019	9051	9066	9073
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##	351168	351254	351255	351267	351607	352097	353342	353799
##	1	1	1	1	1	1	1	1
##	353800	353813	354373	354384	354454	355613	355837	355921
##	1	2	1	1	1	1	1	1
##	357049	357417	357944	358633	358817	359403	359560	360630
##	1	1	1	1	1	1	1	1
##	361734	361780	361970	363934	364013	364452	367290	367505
##	1	1	1	1	1	1	1	1
##	367951	369203	369378	371318	372553	373606	375996	376223
##	1	1	1	1	1	1	1	1
##	379245	379415	380837	381023	381788	382100	382120	382121
##	1	1	1	1	1	1	1	1
##	384368	384602	385764	387958	388089	391325	392596	392819
##	1	1	1	1	3	1	2	1
##	394842	396090	397147	397422	398307	398746	399009	400592
##	1	1	1	1	1	1	1	1
##	401211	401425	401530	401643	401648	401820	403911	404610
##	1	1	1	1	1	1	1	2
##	404617	405824	406511	407589	407694	407698	407719	407788
##	1	1	1	1	1	1	2	1
##	408292	410303	410384	410395	411683	412725	412744	412888
##	1	1	1	1	1	1	1	1
##	413609	413999	416540	417197	417907	419375	420518	420973
##	1	1	1	1	2	1	1	1
##	421000	421800	422244	423105	423138	427185	428156	428268
##	1	1	1	1	2	1	1	1
##	428581	429580	430643	432160	436170	436615	436921	437674
##	1	1	1	1	1	1	1	1
##	438911	441189	441473	445756	446434	450013	452589	454060
##	1	2	2	1	1	1	1	1
##	454412	455377	455496	456474	456866	457197	457283	459795
##	1	1	1	1	1	1	1	2
##	459797	459851	461137	462152	462614	462702	464900	465831
##	1	1	1	1	1	1	1	1
##	466495	469851	470089	470694	470713	471036	472247	472584
##	1	1	1	1	1	1	1	2
##	472904	474439	475020	475369	475944	477831	479594	479908
##	1	1	1	1	1	1	1	1
##	479909	479939	480208	480638	480640	480643	481545	481546
##	1	1	1	1	1	1	1	4
##	482630	483565	483782	483960	484226	484858	484981	486824
##	1	1	1	1	1	1	2	1

##	486830	488039	495748	495905	495971	496397	496399	497826
##	1	1	1	1	1	1	1	1
##	498894	499483	501144	501497	501498	503757	504765	504823
##	1	1	2	1	2	1	1	1
##	506275	506593	510392	510401	511228	511420	512102	512106
##	2	1	1	1	1	1	1	1
##	512996	514088	515240	515657	516801	516917	520609	520654
##	1	1	1	1	1	1	1	1
##	520962	521081	521138	521140	522018	522205	522466	524299
##	1	1	3	3	1	1	1	1
##	524467	525517	525552	526595	527247	527248	528550	528745
##	1	1	2	1	1	1	1	1
##	528917	530792	530854	530904	531074	531458	536926	537554
##	1	2	1	1	1	1	1	1
##	539931	540930	541144	541389	541661	541732	542561	547644
##	1	1	1	2	1	1	1	1
##	548021	549039	549214	549720	549900	549973	552441	552635
##	1	1	1	1	2	1	1	1
##	556659	556929	559186	559262	559597	559931	562345	564387
##	1	1	1	1	1	1	1	1
##	564759	567632	567984	568273	568391	568922	569727	570242
##	1	1	1	1	1	1	1	1
##	574719	576210	576454	577059	577550	579519	580160	584070
##	1	1	1	1	1	1	1	1
##	584126	585564	591312	591411	592068	592282	592504	594406
##	1	1	1	1	1	1	2	1
##	594720	594728	595120	596628	597068	598975	599872	608753
##	1	2	1	1	1	1	1	1
##	609182	609186	611136	613059	615381	616742	617477	617732
##	1	1	1	1	1	1	1	1
##	618562	618796	618798	618918	620534	623398	624557	624924
##	1	1	1	1	1	2	1	1
##	626366	634159	635846	636228	636995	637254	637309	640974
##	1	1	1	1	1	1	1	1
##	641219	647721	647844	648380	649568	650114	652940	653008
##	1	1	1	1	1	1	1	3
##	654418	654419	655067	655145	658087	659395	659741	659760
##	1	1	1	1	1	2	1	1
##	660613	662287	666246	666521	669901	672089	673203	674730
##	1	1	1	1	1	1	1	1
##	679912	684116	685450	685981	687136	690148	691474	695576
##	1	1	1	1	1	1	4	1
##	695613	696019	696665	697212	697805	697939	702975	705805
##	1	1	1	1	1	1	1	1
##	706301	706302	706618	708674	708710	708753	711719	712737
##	1	1	1	1	2	1	1	1
##	714340	714665	720685	721646	725897	726074	733838	736824
##	1	1	1	1	1	1	1	1
##	736864	739329	745245	745684	750321	751551	751766	751911
##	1	1	1	1	1	1	1	1

##	753043	753115	758590	758780	759838	760628	762706	764967
##	1	1	1	1	1	1	1	1
##	768833	771001	776730	781810	783025	785622	787107	787177
##	1	1	1	2	1	1	1	1
##	794058	798522	799206	801054	807155	807226	807338	811040
##	1	1	1	1	1	1	1	1
##	811693	811714	814080	814151	815280	815893	815974	815981
##	1	1	1	1	1	1	2	1
##	819694	819774	820577	823109	827597	827651	827653	828489
##	1	1	1	1	1	1	1	1
##	829753	834117	837842	838738	838765	839206	847144	847159
##	1	1	1	1	1	1	1	2
##	852455	852649	853495	857215	857923	858208	858227	858230
##	2	1	1	1	1	1	1	1
##	860078	867920	870928	876866	877576	877635	877643	878065
##	1	1	1	1	1	2	1	1
##	885187	886418	889425	894435	896118	899010	899748	900064
##	1	1	1	1	1	1	1	2
##	901110	903392	906384	908525	909204	909226	910051	911995
##	1	1	1	1	1	1	1	1
##	914804	914917	920571	921868	922752	928720	931503	931595
##	1	1	1	1	1	1	1	1
##	932870	944661	946926	947515	948198	951413	951435	953790
##	1	1	2	1	1	1	1	1
##	953894	955614	955656	957973	960726	972256	972574	973270
##	1	1	1	1	1	1	1	1
##	981995	984451	989158	989344	990491	990586	990663	990723
##	1	1	1	1	1	1	1	1
##	990796	995002	1000417	1002859	1002861	1003269	1004709	1008012
##	1	1	2	1	1	1	1	1
##	1013465	1013635	1013867	1013944	1014822	1014846	1017237	1017408
##	1	1	1	1	1	1	1	1
##	1028637	1028794	1031045	1032076	1032935	1038303	1038306	1041836
##	1	1	1	1	2	1	1	1
##	1042170	1048766	1064049	1064076	1072565	1075016	1075277	1076243
##	1	1	1	1	1	1	1	1
##	1079491	1079616	1083571	1084945	1092106	1092337	1092367	1094094
##	1	1	1	1	1	1	1	1
##	1107197	1107310	1107320	1107884	1107903	1107948	1111915	1116393
##	1	1	1	1	2	1	1	1
##	1117212	1118201	1121805	1123190	1125017	1125438	1125566	1128805
##	1	1	2	1	1	2	1	1
##	1130966	1131937	1133393	1133501	1133539	1135631	1137267	1137271
##	1	1	1	1	1	1	1	1
##	1138239	1141545	1157003	1157004	1159058	1162331	1162837	1162838
##	1	1	1	1	1	1	3	1
##	1163232	1167143	1168959	1170641	1175188	1175794	1175815	1185148
##	1	1	1	1	1	1	1	1
##	1188154	1218055	1221896	1225339	1225367	1226514	1235841	1237135
##	1	1	1	1	1	1	1	1

##	1242855	1243017	1251479	1254730	1259075	1259723	1259849	1259894
##	1	1	1	1	1	1	1	3
##	1260143	1260903	1264084	1275373	1279109	1279184	1279800	1280423
##	1	1	1	1	1	1	1	1
##	1284017	1284018	1295293	1295557	1295606	1295625	1300490	1300619
##	2	1	1	1	1	2	1	1
##	1304467	1305050	1309728	1312037	1312936	1315242	1327265	1327269
##	1	1	1	1	1	1	1	1
##	1329008	1329192	1333338	1335799	1336246	1343106	1343866	1351068
##	1	1	1	1	1	1	1	1
##	1351089	1351771	1351833	1370749	1371082	1372013	1374549	1375988
##	1	1	1	3	1	1	1	1
##	1381624	1381820	1385093	1397944	1421884	1422858	1429035	1429038
##	1	1	1	1	1	1	1	1
##	1432447	1432809	1433233	1450632	1451000	1455952	1461698	1468591
##	1	1	1	1	1	1	1	1
##	1468638	1480182	1480189	1485806	1488289	1488396	1488397	1490722
##	1	1	1	1	1	2	1	1
##	1490732	1494491	1497361	1498393	1498648	1499373	1499466	1500622
##	1	1	1	1	1	1	1	1
##	1500999	1502622	1503544	1506783	1507205	1508137	1517369	1517395
##	1	1	1	1	1	1	1	1
##	1519671	1520959	1534466	1535084	1535581	1535973	1536349	1536512
##	1	1	1	1	1	2	1	1
##	1558437	1559650	1573054	1574197	1574204	1574546	1579287	1579343
##	1	1	1	1	1	1	2	1
##	1591129	1604146	1605267	1615418	1615596	1633565	1633682	1648515
##	1	1	1	1	1	1	1	1
##	1656808	1671658	1690802	1703479	1704112	1721943	1728557	1732263
##	1	1	1	1	1	1	1	1
##	1736105	1752017	1805398	1827212	1828284	1830387	1830388	1838090
##	1	1	1	1	1	1	2	1
##	1841061	1842381	1852384	1855262	1859109	1859115	1860844	1861309
##	1	1	1	1	1	1	1	1
##	1861310	1871416	1871421	1873516	1873520	1873523	1889250	1889582
##	1	1	1	1	2	2	1	1
##	1971777	1986068	2045554	2052407	2053404	2078744	2083237	2084125
##	1	1	1	1	1	1	2	1
##	2084126	2119218	2119235	2122705	2123381	2123793	2129689	2129707
##	1	1	1	1	1	1	1	1
##	2133047	2133296	2151039	2157930	2158580	2163282	2233681	2246379
##	1	1	1	2	1	1	1	1
##	2251012	2264916	2265084	2308916	2311785	2312084	2338655	2339098
##	1	1	1	1	1	1	1	1
##	2349421	2354042	2371338	2371543	2375336	2376564	2390099	2390185
##	1	1	1	1	1	1	1	1
##	2401017	2418135	2418158	2418165	2440695	2440877	2451083	2451093
##	2	2	1	1	1	1	1	1
##	2451136	2468063	2468915	2473509	2473693	2473795	2511130	2546527
##	1	1	1	1	1	1	1	2

##	2546549	2586261	2588730	2591610	2591941	2598579	2610328	2610526
##	1	1	1	1	1	1	1	1
##	2610622	2610680	2634605	2674051	2694969	2698348	2698882	2698889
##	1	1	1	1	1	1	1	1
##	2719142	2721923	2728941	2731171	2731211	2750410	2750645	2764964
##	1	1	1	1	2	1	1	1
##	2788460	2788923	2789775	2838064	2876500	2903386	2914724	2915189
##	1	4	1	1	1	1	1	1
##	2953886	2955325	2955326	3014548	3016297	3016305	3039889	3057481
##	1	1	1	1	1	1	1	1
##	3058687	3062845	3073251	3075028	3075096	3075118	3090680	3090727
##	1	1	1	1	1	1	1	1
##	3093358	3093932	3128250	3128509	3128611	3156484	3157936	3158047
##	1	1	1	1	1	1	1	1
##	3158151	3197865	3198176	3213548	3249518	3252896	3277209	3337952
##	2	1	1	1	1	1	1	1
##	3337956	3344300	3368646	3368649	3368705	3419249	3419433	3419464
##	1	1	1	1	1	1	1	1
##	3419513	3451011	3452530	3648120	3648480	3648765	3697174	3714270
##	1	1	1	1	1	1	1	1
##	3715656	3716278	3777822	3778921	3781467	3781770	3806669	3815614
##	1	1	1	1	1	3	2	1
##	3816799	3846378	3860225	3881752	3883589	3909032	3941129	4000433
##	1	1	1	1	1	1	1	1
##	4016834	4064868	4066980	4066989	4067651	4128732	4129665	4147718
##	1	1	1	1	2	1	1	1
##	4187998	4188142	4188345	4218587	4229977	4230886	4254879	4300936
##	1	1	1	1	1	1	1	1
##	4305441	4443407	4447346	4447388	4448791	4449882	4449910	4450855
##	2	1	1	1	1	1	2	1
##	4450890	4451317	4487182	4559407	4578476	4578890	4594198	4604324
##	1	1	1	1	1	1	1	2
##	4604483	4637439	4638163	4785892	4785988	4828372	4830407	4831125
##	1	1	1	2	2	1	1	1
##	4865093	4865107	4865132	4885646	4918776	4920817	4921122	4921409
##	1	1	1	1	1	1	1	1
##	4921451	4921866	4928420	4931562	4934130	4972230	5091448	5149854
##	1	1	1	1	1	1	1	1
##	5150471	5150801	5180480	5231553	5234162	5234810	5234825	5235294
##	1	1	1	1	1	1	1	2
##	5276983	5282558	5282578	5378795	5383971	5383985	5387333	5387446
##	1	1	1	1	1	1	1	2
##	5387631	5387639	5387781	5418675	5419676	5453997	5456208	5456599
##	1	1	1	1	2	1	2	1
##	5456708	5465624	5476569	5534114	5565856	5566669	5566805	5566889
##	1	1	2	1	1	1	1	1
##	5566908	5591653	5637451	5741684	5745093	5783441	5793284	5911055
##	1	1	1	1	1	1	1	1
##	5916569	5916606	5917485	6003590	6012719	6071542	6074334	6074627
##	1	1	1	1	1	1	1	1

```
## 6120977 6181640 6198563 6198880 6199095 6200739 6207063 6210998
##      1      1      1      1      1      1      1      1
## 6211039 6212081 6289924 6290507 6294397 6294400 6297590 6427773
##      2      1      1      3      1      1      1      1
## 6459626 6466641 6469179 6474426 6474672 6700847 6702776 7165362
##      1      3      1      1      1      1      1      1
## 7168735 7231017 7232629 7464996 7529865 7590099 7594559 7614130
##      1      1      1      1      1      1      1      1
## 7614271 7614407 7614415 7615646 7657490 7671249 7672495 7674252
##      1      1      1      1      1      1      2      2
## 7775146 7790693 7820209 7820775 8021623 8033493 8116142 8118609
##      1      1      1      1      1      1      1      1
## 8118880 8118937 8119151 8119154 8190074 8219586 8389714 8595964
##      1      2      1      1      1      1      1      1
## 8606259 8921451 8923587 8923818 8923847 9231613 9235155 9235373
##      1      1      1      1      1      1      1      1
## 9642112 9642995 9643041 9873470 9876369 9879473 9881829 9881908
##      1      1      1      1      1      1      1      1
## 9882639 9883367 9883806 10053186 10055521 10214862 10216538 10216997
##      1      1      1      1      1      1      1      2
## 10421284 10424925 10483141 10484169 10485308 10485334 10486018 10790092
##      1      1      1      3      1      1      1      1
## 10790289 10847682 10858538 10858556 10859051 10979062 10981850 11334799
##      2      1      1      1      1      1      1      1
## 11334973 11335255 11335481 11657972 11667403 12759663 12759815 12842860
##      2      1      1      1      2      1      1      1
## 12843436 13479633 14184910 14198297 14198602 14200344 14200550 14201604
##      1      1      1      1      1      1      1      1
## 14201891 14885236 14891223 14892469 16771865 17000166 17014705 17014787
##      1      1      1      1      1      1      1      1
## 17015352 17712922 17714850 22419455 22426677 22428456 22429716 22430188
##      1      2      1      1      1      2      1      2
## 23125280 23133508 23134775 23136735 24900999 25623548 25655305 27711703
##      1      1      1      1      1      1      1      1
## 27722264 27723193 27724094 27725352 42916526 44881447 44891723 44893888
##      1      1      1      2      1      1      2      1
## 56642847 56646578 66509917 66577313 66577446 69109672 69119316 78128208
##      2      1      1      2      1      1      2      1
## 78158306
##      1
```

#Skewness (from the moments package):

```
library(moments)
skewness(googleplaystore$Rating)
```

```
## [1] NaN
```

#Count of unique values:

```
table(googleplaystore$Rating, googleplaystore$Type)
```

```
##
##      0 Free Paid
## 1      0  14   2
## 1.2    0   1   0
## 1.4    0   3   0
## 1.5    0   3   0
## 1.6    0   4   0
## 1.7    0   7   1
## 1.8    0   7   1
## 1.9    0  13   0
## 2      0  11   1
## 2.1    0   8   0
## 2.2    0  14   0
## 2.3    0  18   2
## 2.4    0  17   2
## 2.5    0  20   1
## 2.6    0  23   2
## 2.7    0  23   2
## 2.8    0  39   3
## 2.9    0  40   5
## 3      0  75   8
## 3.1    0  65   4
## 3.2    0  62   2
## 3.3    0  97   5
## 3.4    0 117  11
## 3.5    0 152  11
## 3.6    0 164  10
## 3.7    0 228  11
## 3.8    0 282  21
## 3.9    0 370  16
## 4      0 546  22
## 4.1    0 676  32
## 4.2    0 890  62
## 4.3    0 1025 51
## 4.4    0 1031 78
## 4.5    0  965 73
## 4.6    0  741 82
## 4.7    0  446 53
## 4.8    0  195 39
## 4.9    0   81  6
## 5      0  246 28
## 19     1    0  0
```

#Cross-tabulation:

```
table(googleplaystore$Reviews, googleplaystore$Type)
```

```
##
##      0 Free Paid
## 0      0  519  76
## 1      0  237  35
```


##	2	0	187	27
##	3	0	157	18
##	4	0	122	15
##	5	0	92	16
##	6	0	88	9
##	7	0	82	8
##	8	0	67	7
##	9	0	60	5
##	10	0	56	8
##	11	0	45	7
##	12	0	47	13
##	13	0	45	4
##	14	0	37	4
##	15	0	23	8
##	16	0	33	2
##	17	0	43	5
##	18	0	24	3
##	19	0	38	3
##	20	0	32	3
##	21	0	26	9
##	22	0	25	1
##	23	0	22	3
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##	1226514	0	1	0
##	1235841	0	1	0
##	1237135	0	1	0
##	1242855	0	1	0
##	1243017	0	1	0
##	1251479	0	1	0
##	1254730	0	1	0

##	1259075	0	1	0
##	1259723	0	1	0
##	1259849	0	1	0
##	1259894	0	3	0
##	1260143	0	1	0
##	1260903	0	1	0
##	1264084	0	1	0
##	1275373	0	1	0
##	1279109	0	1	0
##	1279184	0	1	0
##	1279800	0	1	0
##	1280423	0	1	0
##	1284017	0	2	0
##	1284018	0	1	0
##	1295293	0	1	0
##	1295557	0	1	0
##	1295606	0	1	0
##	1295625	0	2	0
##	1300490	0	1	0
##	1300619	0	1	0
##	1304467	0	1	0
##	1305050	0	1	0
##	1309728	0	1	0
##	1312037	0	1	0
##	1312936	0	1	0
##	1315242	0	1	0
##	1327265	0	1	0
##	1327269	0	1	0
##	1329008	0	1	0
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##	1333338	0	1	0
##	1335799	0	1	0
##	1336246	0	1	0
##	1343106	0	1	0
##	1343866	0	1	0
##	1351068	0	1	0
##	1351089	0	1	0
##	1351771	0	1	0
##	1351833	0	1	0
##	1370749	0	3	0
##	1371082	0	1	0
##	1372013	0	1	0
##	1374549	0	1	0
##	1375988	0	1	0
##	1381624	0	1	0
##	1381820	0	1	0
##	1385093	0	1	0
##	1397944	0	1	0
##	1421884	0	1	0
##	1422858	0	1	0

##	1429035	0	1	0
##	1429038	0	1	0
##	1432447	0	1	0
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##	1433233	0	1	0
##	1450632	0	1	0
##	1451000	0	1	0
##	1455952	0	1	0
##	1461698	0	1	0
##	1468591	0	1	0
##	1468638	0	1	0
##	1480182	0	1	0
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##	1485806	0	1	0
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##	1488396	0	2	0
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##	1490722	0	1	0
##	1490732	0	1	0
##	1494491	0	1	0
##	1497361	0	1	0
##	1498393	0	1	0
##	1498648	0	1	0
##	1499373	0	1	0
##	1499466	0	1	0
##	1500622	0	1	0
##	1500999	0	1	0
##	1502622	0	1	0
##	1503544	0	1	0
##	1506783	0	1	0
##	1507205	0	1	0
##	1508137	0	1	0
##	1517369	0	1	0
##	1517395	0	1	0
##	1519671	0	1	0
##	1520959	0	1	0
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##	1535084	0	1	0
##	1535581	0	1	0
##	1535973	0	2	0
##	1536349	0	1	0
##	1536512	0	1	0
##	1558437	0	1	0
##	1559650	0	1	0
##	1573054	0	1	0
##	1574197	0	1	0
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##	1605267	0	1	0
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##	1615596	0	1	0
##	1633565	0	1	0
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##	1648515	0	1	0
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##	1671658	0	1	0
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##	1703479	0	1	0
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##	1732263	0	1	0
##	1736105	0	1	0
##	1752017	0	1	0
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##	1861310	0	1	0
##	1871416	0	1	0
##	1871421	0	1	0
##	1873516	0	1	0
##	1873520	0	2	0
##	1873523	0	2	0
##	1889250	0	1	0
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##	1971777	0	1	0
##	1986068	0	1	0
##	2045554	0	1	0
##	2052407	0	1	0
##	2053404	0	1	0
##	2078744	0	1	0
##	2083237	0	2	0
##	2084125	0	1	0
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##	2119218	0	1	0

##	2119235	0	1	0
##	2122705	0	1	0
##	2123381	0	1	0
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##	2129689	0	1	0
##	2129707	0	1	0
##	2133047	0	1	0
##	2133296	0	1	0
##	2151039	0	1	0
##	2157930	0	2	0
##	2158580	0	1	0
##	2163282	0	1	0
##	2233681	0	1	0
##	2246379	0	1	0
##	2251012	0	1	0
##	2264916	0	1	0
##	2265084	0	1	0
##	2308916	0	1	0
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##	2312084	0	1	0
##	2338655	0	1	0
##	2339098	0	1	0
##	2349421	0	1	0
##	2354042	0	1	0
##	2371338	0	1	0
##	2371543	0	1	0
##	2375336	0	0	1
##	2376564	0	0	1
##	2390099	0	1	0
##	2390185	0	1	0
##	2401017	0	2	0
##	2418135	0	2	0
##	2418158	0	1	0
##	2418165	0	1	0
##	2440695	0	1	0
##	2440877	0	1	0
##	2451083	0	1	0
##	2451093	0	1	0
##	2451136	0	1	0
##	2468063	0	1	0
##	2468915	0	1	0
##	2473509	0	1	0
##	2473693	0	1	0
##	2473795	0	1	0
##	2511130	0	1	0
##	2546527	0	2	0
##	2546549	0	1	0
##	2586261	0	1	0
##	2588730	0	1	0
##	2591610	0	1	0

##	2591941	0	1	0
##	2598579	0	1	0
##	2610328	0	1	0
##	2610526	0	1	0
##	2610622	0	1	0
##	2610680	0	1	0
##	2634605	0	1	0
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##	2698348	0	1	0
##	2698882	0	1	0
##	2698889	0	1	0
##	2719142	0	1	0
##	2721923	0	1	0
##	2728941	0	1	0
##	2731171	0	1	0
##	2731211	0	2	0
##	2750410	0	1	0
##	2750645	0	1	0
##	2764964	0	1	0
##	2788460	0	1	0
##	2788923	0	4	0
##	2789775	0	1	0
##	2838064	0	1	0
##	2876500	0	1	0
##	2903386	0	1	0
##	2914724	0	1	0
##	2915189	0	1	0
##	2953886	0	1	0
##	2955325	0	1	0
##	2955326	0	1	0
##	3014548	0	1	0
##	3016297	0	1	0
##	3016305	0	1	0
##	3039889	0	1	0
##	3057481	0	1	0
##	3058687	0	1	0
##	3062845	0	1	0
##	3073251	0	1	0
##	3075028	0	1	0
##	3075096	0	1	0
##	3075118	0	1	0
##	3090680	0	1	0
##	3090727	0	1	0
##	3093358	0	1	0
##	3093932	0	1	0
##	3128250	0	1	0
##	3128509	0	1	0
##	3128611	0	1	0
##	3156484	0	1	0

##	3157936	0	1	0
##	3158047	0	1	0
##	3158151	0	2	0
##	3197865	0	1	0
##	3198176	0	1	0
##	3213548	0	1	0
##	3249518	0	1	0
##	3252896	0	1	0
##	3277209	0	1	0
##	3337952	0	1	0
##	3337956	0	1	0
##	3344300	0	1	0
##	3368646	0	1	0
##	3368649	0	1	0
##	3368705	0	1	0
##	3419249	0	1	0
##	3419433	0	1	0
##	3419464	0	1	0
##	3419513	0	1	0
##	3451011	0	1	0
##	3452530	0	1	0
##	3648120	0	1	0
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##	3648765	0	1	0
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##	3714270	0	1	0
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##	3716278	0	1	0
##	3777822	0	1	0
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##	3781467	0	1	0
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##	3806669	0	2	0
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##	3816799	0	1	0
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##	3881752	0	1	0
##	3883589	0	1	0
##	3909032	0	1	0
##	3941129	0	1	0
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##	4064868	0	1	0
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##	4066989	0	1	0
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##	4188142	0	1	0
##	4188345	0	1	0
##	4218587	0	1	0
##	4229977	0	1	0
##	4230886	0	1	0
##	4254879	0	1	0
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##	4447346	0	1	0
##	4447388	0	1	0
##	4448791	0	1	0
##	4449882	0	1	0
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##	4450890	0	1	0
##	4451317	0	1	0
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##	4559407	0	1	0
##	4578476	0	1	0
##	4578890	0	1	0
##	4594198	0	1	0
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##	4604483	0	1	0
##	4637439	0	1	0
##	4638163	0	1	0
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##	4785988	0	2	0
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##	4921122	0	1	0
##	4921409	0	1	0
##	4921451	0	1	0
##	4921866	0	1	0
##	4928420	0	1	0
##	4931562	0	1	0
##	4934130	0	1	0
##	4972230	0	1	0
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##	5149854	0	1	0
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##	5150801	0	1	0

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##	5234162	0	1	0
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##	5234825	0	1	0
##	5235294	0	2	0
##	5276983	0	1	0
##	5282558	0	1	0
##	5282578	0	1	0
##	5378795	0	1	0
##	5383971	0	1	0
##	5383985	0	1	0
##	5387333	0	1	0
##	5387446	0	2	0
##	5387631	0	1	0
##	5387639	0	1	0
##	5387781	0	1	0
##	5418675	0	1	0
##	5419676	0	2	0
##	5453997	0	1	0
##	5456208	0	2	0
##	5456599	0	1	0
##	5456708	0	1	0
##	5465624	0	1	0
##	5476569	0	2	0
##	5534114	0	1	0
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##	5566669	0	1	0
##	5566805	0	1	0
##	5566889	0	1	0
##	5566908	0	1	0
##	5591653	0	1	0
##	5637451	0	1	0
##	5741684	0	1	0
##	5745093	0	1	0
##	5783441	0	1	0
##	5793284	0	1	0
##	5911055	0	1	0
##	5916569	0	1	0
##	5916606	0	1	0
##	5917485	0	1	0
##	6003590	0	1	0
##	6012719	0	1	0
##	6071542	0	1	0
##	6074334	0	1	0
##	6074627	0	1	0
##	6120977	0	1	0
##	6181640	0	1	0
##	6198563	0	1	0
##	6198880	0	1	0

##	6199095	0	1	0
##	6200739	0	1	0
##	6207063	0	1	0
##	6210998	0	1	0
##	6211039	0	2	0
##	6212081	0	1	0
##	6289924	0	1	0
##	6290507	0	3	0
##	6294397	0	1	0
##	6294400	0	1	0
##	6297590	0	1	0
##	6427773	0	1	0
##	6459626	0	1	0
##	6466641	0	3	0
##	6469179	0	1	0
##	6474426	0	1	0
##	6474672	0	1	0
##	6700847	0	1	0
##	6702776	0	1	0
##	7165362	0	1	0
##	7168735	0	1	0
##	7231017	0	1	0
##	7232629	0	1	0
##	7464996	0	1	0
##	7529865	0	1	0
##	7590099	0	1	0
##	7594559	0	1	0
##	7614130	0	1	0
##	7614271	0	1	0
##	7614407	0	1	0
##	7614415	0	1	0
##	7615646	0	1	0
##	7657490	0	1	0
##	7671249	0	1	0
##	7672495	0	2	0
##	7674252	0	2	0
##	7775146	0	1	0
##	7790693	0	1	0
##	7820209	0	1	0
##	7820775	0	1	0
##	8021623	0	1	0
##	8033493	0	1	0
##	8116142	0	1	0
##	8118609	0	1	0
##	8118880	0	1	0
##	8118937	0	2	0
##	8119151	0	1	0
##	8119154	0	1	0
##	8190074	0	1	0
##	8219586	0	1	0

##	8389714	0	1	0
##	8595964	0	1	0
##	8606259	0	1	0
##	8921451	0	1	0
##	8923587	0	1	0
##	8923818	0	1	0
##	8923847	0	1	0
##	9231613	0	1	0
##	9235155	0	1	0
##	9235373	0	1	0
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##	9643041	0	1	0
##	9873470	0	1	0
##	9876369	0	1	0
##	9879473	0	1	0
##	9881829	0	1	0
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##	9882639	0	1	0
##	9883367	0	1	0
##	9883806	0	1	0
##	10053186	0	1	0
##	10055521	0	1	0
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##	10216538	0	1	0
##	10216997	0	2	0
##	10421284	0	1	0
##	10424925	0	1	0
##	10483141	0	1	0
##	10484169	0	3	0
##	10485308	0	1	0
##	10485334	0	1	0
##	10486018	0	1	0
##	10790092	0	1	0
##	10790289	0	2	0
##	10847682	0	1	0
##	10858538	0	1	0
##	10858556	0	1	0
##	10859051	0	1	0
##	10979062	0	1	0
##	10981850	0	1	0
##	11334799	0	1	0
##	11334973	0	2	0
##	11335255	0	1	0
##	11335481	0	1	0
##	11657972	0	1	0
##	11667403	0	2	0
##	12759663	0	1	0
##	12759815	0	1	0
##	12842860	0	1	0

##	12843436	0	1	0
##	13479633	0	1	0
##	14184910	0	1	0
##	14198297	0	1	0
##	14198602	0	1	0
##	14200344	0	1	0
##	14200550	0	1	0
##	14201604	0	1	0
##	14201891	0	1	0
##	14885236	0	1	0
##	14891223	0	1	0
##	14892469	0	1	0
##	16771865	0	1	0
##	17000166	0	1	0
##	17014705	0	1	0
##	17014787	0	1	0
##	17015352	0	1	0
##	17712922	0	2	0
##	17714850	0	1	0
##	22419455	0	1	0
##	22426677	0	1	0
##	22428456	0	2	0
##	22429716	0	1	0
##	22430188	0	2	0
##	23125280	0	1	0
##	23133508	0	1	0
##	23134775	0	1	0
##	23136735	0	1	0
##	24900999	0	1	0
##	25623548	0	1	0
##	25655305	0	1	0
##	27711703	0	1	0
##	27722264	0	1	0
##	27723193	0	1	0
##	27724094	0	1	0
##	27725352	0	2	0
##	42916526	0	1	0
##	44881447	0	1	0
##	44891723	0	2	0
##	44893888	0	1	0
##	56642847	0	2	0
##	56646578	0	1	0
##	66509917	0	1	0
##	66577313	0	2	0
##	66577446	0	1	0
##	69109672	0	1	0
##	69119316	0	2	0
##	78128208	0	1	0
##	78158306	0	1	0

#Proportions:

```
prop.table(table(googleplaystore$Rating))
```

```
##
##           1           1.2           1.4           1.5           1.6
1.7
## 0.0017081243 0.0001067578 0.0003202733 0.0003202733 0.0004270311 0.0008540
621
##           1.8           1.9           2           2.1           2.2
2.3
## 0.0008540621 0.0013878510 0.0012810932 0.0008540621 0.0014946087 0.0021351
553
##           2.4           2.5           2.6           2.7           2.8
2.9
## 0.0020283976 0.0022419131 0.0026689442 0.0026689442 0.0044838262 0.0048040
995
##           3           3.1           3.2           3.3           3.4
3.5
## 0.0088608946 0.0073662859 0.0068324971 0.0108892922 0.0136649941 0.0174015
160
##           3.6           3.7           3.8           3.9           4
4.1
## 0.0185758514 0.0255151062 0.0323476033 0.0412084979 0.0606384114 0.0755844
988
##           4.2           4.3           4.4           4.5           4.6
4.7
## 0.1016333938 0.1148713569 0.1183943632 0.1108145618 0.0878616419 0.0532721
255
##           4.8           4.9           5           19
## 0.0249813174 0.0092879257 0.0292516281 0.0001067578
```

#Value counts:

```
table(googleplaystore$Type)
```

```
##
##      0   Free   Paid
##      1 10039    800
```

#Correlation matrix:

```
cor(googleplaystore[, c("Rating", "Reviews", "Reviews")])
```

```
##           Rating Reviews Reviews
## Rating           1      NA      NA
## Reviews          NA       1      NA
## Reviews          NA      NA       1
```

#Covariance matrix:

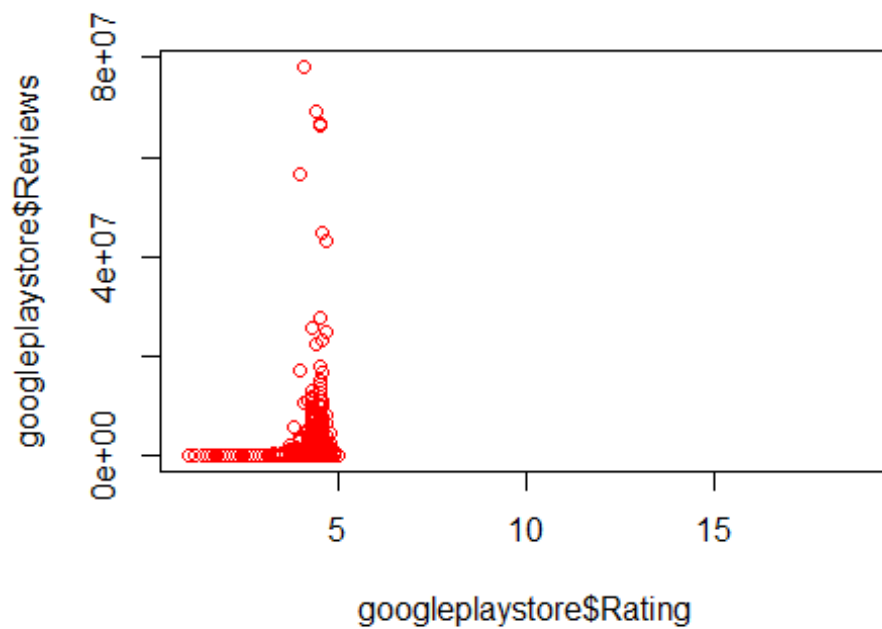
```
cov(googleplaystore[, c("Rating", "Reviews")])
```

```
##           Rating Reviews
## Rating      NA      NA
## Reviews     NA      NA

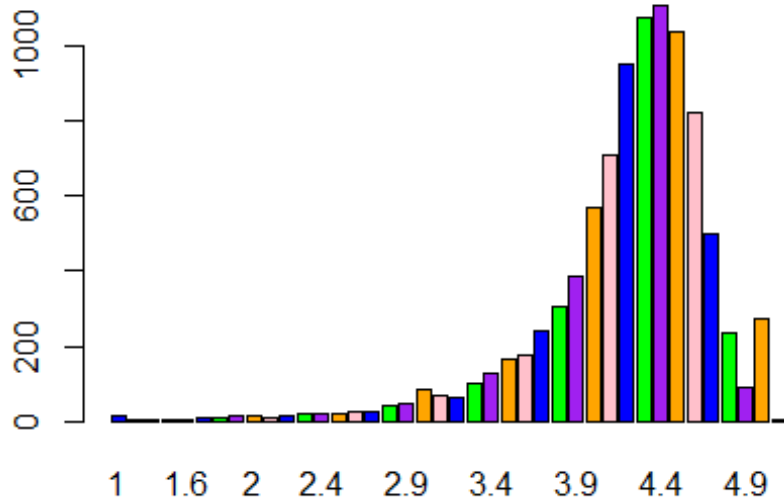
#Count missing values:
sum(is.na(googleplaystore$Rating))

## [1] 1474

#Scatter plot with specific color:
plot(googleplaystore$Rating, googleplaystore$Reviews, col = "red")
```

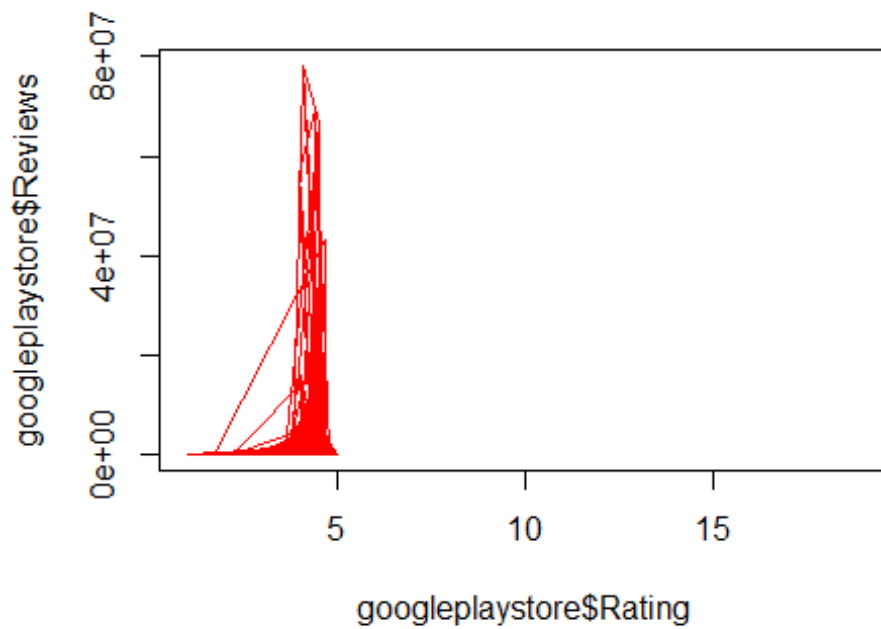


```
#Bar plot with predefined color names:
barplot(table(googleplaystore$Rating), col = c("blue", "green", "purple", "orange", "pink"))
```



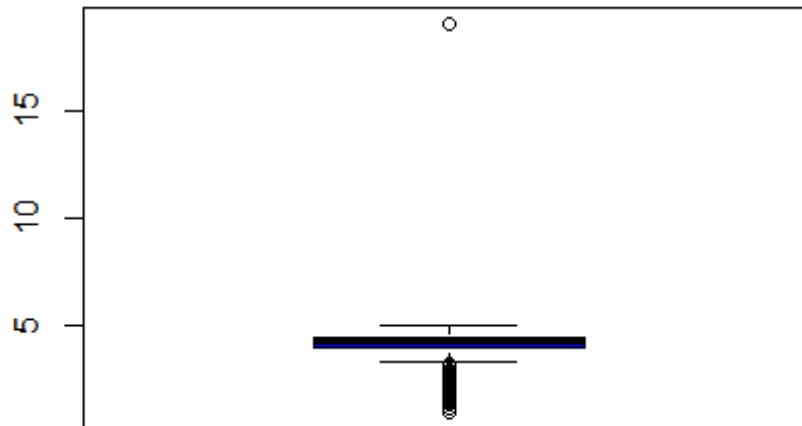
#Line plot with color palettes:

```
plot(googleplaystore$Rating, googleplaystore$Reviews, type = "l", col = rainbow(length(googleplaystore$Rating)))
```



#Box plot with color gradients:

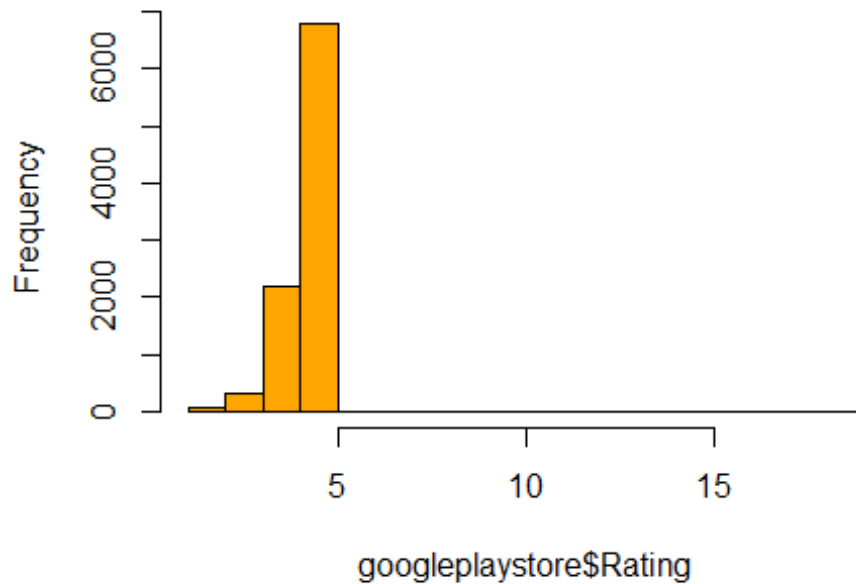
```
boxplot(googleplaystore$Rating, col = colorRampPalette(c("blue", "red"))(length(googleplaystore$Rating)))
```



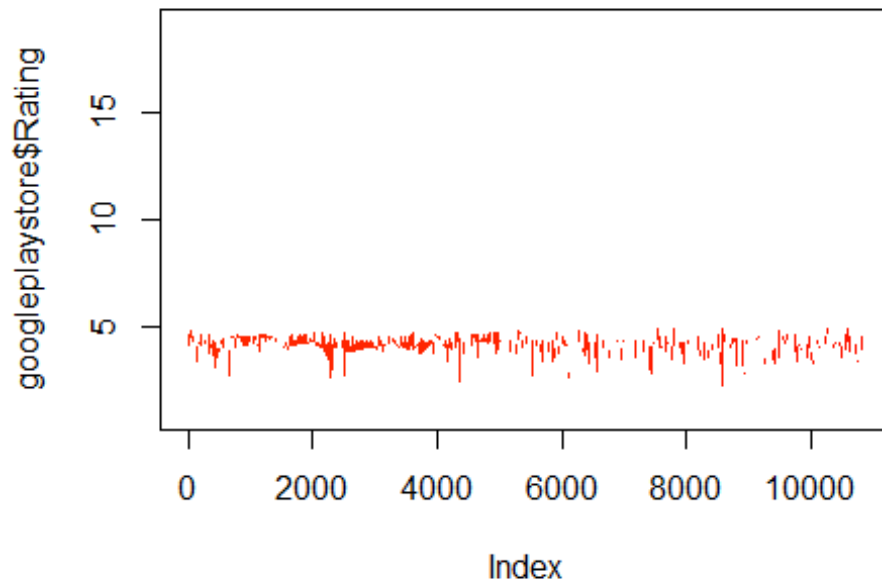
#Histogram with custom color:

```
hist(googleplaystore$Rating, col = "#FFA500")
```

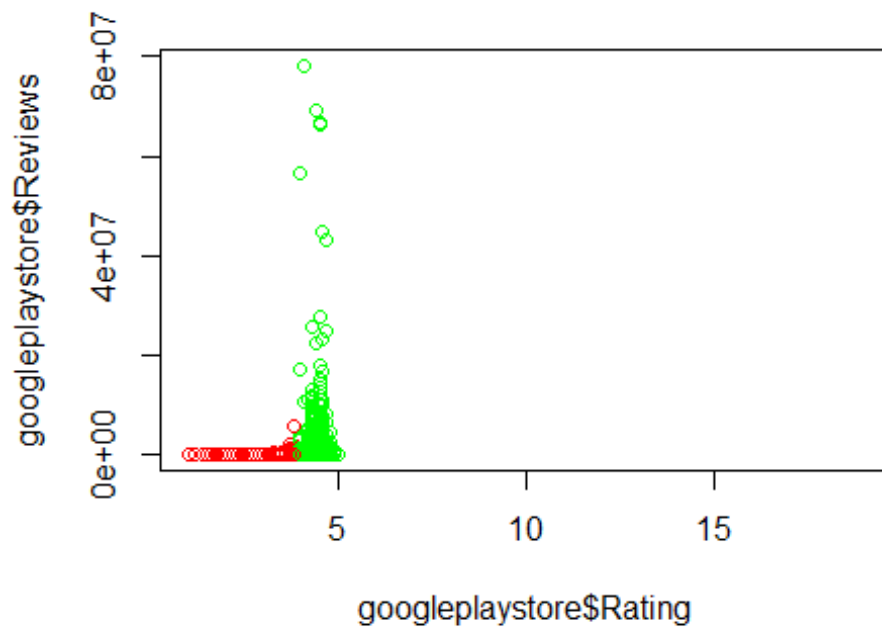
Histogram of googleplaystore\$Rating



```
#Area plot with gradient color:  
plot(googleplaystore$Rating, type = "n")  
polygon(c(1:length(googleplaystore$Rating), rev(1:length(googleplaystore$Rating))),  
        c(googleplaystore$Rating, rev(googleplaystore$Rating)),  
        col = heat.colors(length(googleplaystore$Rating)), border = NA)
```

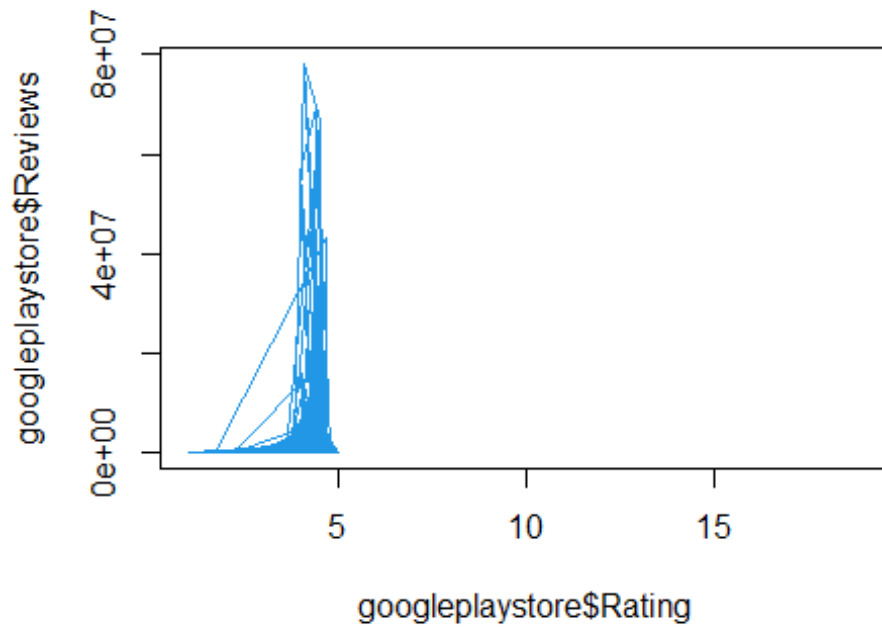


```
#Scatter plot with color based on condition:  
plot(googleplaystore$Rating, googleplaystore$Reviews, col = ifelse(googleplay  
store$Rating >= 4, "green", "red"))
```



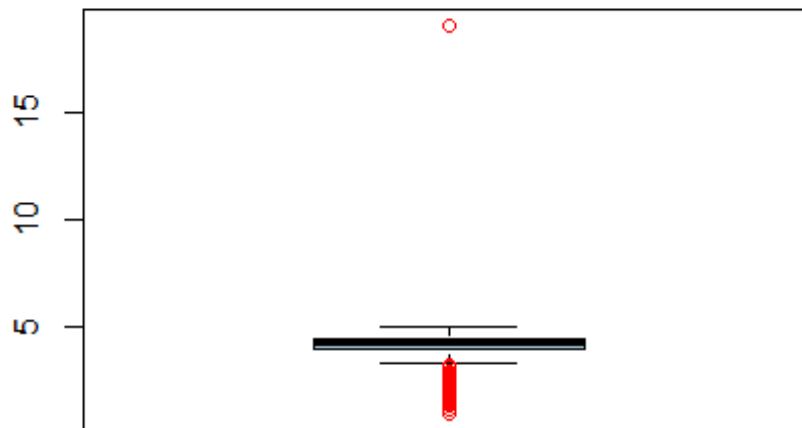
#Line plot with color based on factor levels:

```
plot(googleplaystore$Rating, googleplaystore$Reviews, type = "l", col = as.nu  
meric(googleplaystore$Rating))
```



#Box plot with custom color for outliers:

```
boxplot(googleplaystore$Rating, col = "lightblue", outcol = "red")
```



#Fit a linear regression model

```
model <- lm(Reviews ~ Rating, data = googleplaystore)
```

#Extract the coefficients of the model:

```
coefficients(model)
```

```
## (Intercept)      Rating
## -1228977.6      415822.6
```

#Predict the Reviews based on the Rating:

```
predicted_reviews <- predict(model, newdata = googleplaystore)
```

#Get the residuals of the model:

```
residuals(model)
```

```
##          1          2          3          4          5
## -475736.0278 -391763.5088 -637878.5849 -426580.0659 -558092.5469
##          6          7          8          9         10
## -600474.8064 -350970.2493 -439080.0278 -586850.8064 -725267.5849
##         11         12         13         14         15
## -586761.8064 -591853.8064 -472648.2874 -679480.3254 -599123.8064
##         16         17         18         19         20
## -101599.6922 -721756.5849 -642197.0659 -364843.5469 -459407.3254
##         21         22         23         25         26
```


##	-433862.7683	-475241.0278	-717689.5849	-725270.5849	-766778.8444
##	27	28	29	30	31
##	-705128.5849	-475692.0278	-392594.5088	-475672.0278	-516357.2874
##	32	33	34	35	36
##	-475668.0278	-637189.0659	-516462.2874	-725035.5849	-350584.2493
##	37	38	39	40	41
##	-717243.5849	-439256.0278	-725230.5849	-433721.7683	-517360.2874
##	42	43	44	45	46
##	-642048.0659	-305420.8064	-348942.2493	-517451.2874	-550857.5849
##	47	48	49	50	51
##	-682736.3254	-517392.2874	-558214.5469	-517110.2874	-432714.7683
##	52	53	54	55	56
##	-350864.2493	-666749.3254	-392601.5088	-558517.5469	-798074.1039
##	57	58	59	60	61
##	-599836.8064	-517348.2874	-432909.7683	-388759.5088	-683272.3254
##	62	63	64	65	66
##	-800779.1039	-520213.5469	-681375.3254	-802463.1039	-392435.5088
##	67	68	69	70	71
##	-434122.7683	-518848.5469	-392374.5088	-464947.2874	-649984.8444
##	72	73	74	75	76
##	-266604.7303	-245557.2874	-766234.8444	-759949.8444	-683609.3254
##	77	78	79	80	81
##	-641487.0659	-555485.5469	-641230.0659	-611417.1039	-392588.5088
##	82	83	84	85	86
##	-585473.8064	-432157.7683	-558921.5469	-304151.9898	-578864.8064
##	87	88	89	90	91
##	-558711.5469	-101404.6922	-670434.3254	-675926.3254	-638607.0659
##	92	93	94	95	96
##	-304759.9898	-618020.3254	-652373.3254	-678709.3254	-432558.7683
##	97	98	99	100	101
##	-597961.8064	-433024.7683	-706488.5849	-758763.1039	-724238.5849
##	102	103	104	105	106
##	-390991.5088	-360640.5088	-515252.2874	-679437.3254	-550487.5469
##	107	108	109	110	111
##	-724424.5849	-683338.5849	-766866.8444	-499543.2874	-558458.5469
##	112	113	115	116	117
##	-642188.0659	-475708.0278	-517447.2874	-642090.0659	-600567.8064
##	118	119	120	121	122
##	-320597.7683	-472300.0278	-466580.0278	-600566.8064	-683768.3254
##	123	125	126	128	129
##	-615390.0659	-390453.5088	-598361.8064	-683622.3254	-351139.2493
##	132	133	134	136	137
##	-433948.7683	-559041.5469	-641751.0659	-475829.0278	-305694.9898
##	138	139	140	141	142
##	-725131.5849	-517415.2874	2230917.6746	-640367.0659	-679328.3254
##	143	144	145	146	147
##	-23091.8064	296602.7126	-395909.0659	-188164.0659	-486778.0659
##	148	149	150	151	152
##	-641806.0659	-578155.8064	-439094.0659	-682371.3254	-650463.8444
##	153	154	155	156	157

##	1040502.4912	-593338.3254	-516617.2874	-111961.0278	-724421.5849
##	158	159	160	161	162
##	-429604.2874	-541553.5469	-141374.9517	-681722.3254	-719667.8444
##	163	165	166	167	168
##	-706308.5849	-390053.0278	-675975.3254	-384280.0278	-679186.3254
##	169	170	171	172	173
##	-704052.5849	-615349.0659	-390952.5088	-597932.8064	-494546.5469
##	174	175	176	177	178
##	-509135.2874	-641697.0659	-599319.8064	-183139.2113	-805814.1039
##	179	180	182	183	184
##	-682741.3254	-366884.8064	-591853.8064	-549372.8064	-570536.8064
##	185	187	188	189	190
##	-226245.4708	-259484.8064	-459766.0278	115670.4531	654088.1936
##	191	192	193	194	195
##	-473874.5469	-526475.5469	-258165.0278	-529650.8064	443801.4531
##	196	197	198	199	200
##	-376141.5088	-618025.8444	-637766.0659	-538369.8064	-425371.7683
##	201	202	203	204	205
##	-512706.5469	844871.2317	-429404.2874	-575224.0659	-357605.2874
##	206	207	208	209	210
##	-486630.2874	-494965.3254	-464273.0278	-587894.3254	-56038.4327
##	211	212	213	214	215
##	-346766.5088	-544104.5469	-468992.0278	-569027.8064	-452840.0278
##	216	217	218	219	220
##	-456872.0278	-434852.0659	-599416.8064	-219804.8064	-548459.5469
##	221	222	223	224	225
##	-526282.8064	-682984.3254	-436672.2874	-598354.8064	-721226.5849
##	226	227	229	230	231
##	-336388.2493	-369487.5088	-550081.5469	-436672.2874	-558149.8064
##	232	233	234	235	236
##	-438491.5849	-538469.0659	-470972.2874	-713946.5849	-756675.8444
##	237	238	239	240	241
##	-357605.2874	-517181.2874	-529746.5469	-529650.8064	-549134.8064
##	242	243	244	245	246
##	-474093.0278	-349765.2493	-535884.5469	-345280.2493	-224290.4708
##	247	248	249	250	251
##	-470447.0278	-679647.3254	-538244.5469	-563562.0659	-468746.0278
##	252	253	254	255	256
##	-639145.0659	-678006.3254	-427323.7683	-501055.2874	-491900.8064
##	257	258	259	260	261
##	-569027.8064	-433688.7683	-515816.2874	-419775.2874	-475587.0278
##	262	263	264	265	266
##	-427323.7683	-345937.2493	-391672.5088	-314558.5088	-357605.2874
##	267	268	269	270	271
##	-517181.2874	-529746.5469	-529650.8064	-549134.8064	-474093.0278
##	272	273	274	275	276
##	-349765.2493	-535884.5469	-345280.2493	-224290.4708	-470447.0278
##	277	278	279	280	281
##	-679647.3254	-538244.5469	-563562.0659	-468746.0278	-639145.0659
##	282	283	284	285	286

##	-678006.3254	-427323.7683	-501055.2874	-550081.5469	-436673.2874
##	287	288	289	290	291
##	-558149.8064	-438491.5849	-538469.0659	-470972.2874	-713946.5849
##	292	293	294	295	296
##	-756675.8444	-258165.0278	443799.4531	-549131.8064	-641811.0659
##	297	298	299	300	301
##	-535884.5469	371410.9341	-659801.3254	-668282.5849	-723139.5849
##	302	303	304	305	306
##	-766454.8444	-391896.5088	-474885.0278	-361671.8064	-683504.3254
##	307	308	309	310	311
##	-641786.0659	-725315.5849	-600602.8064	-642080.0659	-390549.5088
##	312	313	314	315	316
##	-7689.6922	-100208.6922	-463807.0278	-641910.0659	-491806.2874
##	317	318	319	320	321
##	-502283.2874	-287014.9898	-612385.0659	-683527.3254	-77837.0659
##	323	324	325	326	327
##	-723711.5849	-599884.8064	-226286.4708	-143111.9517	-632272.0659
##	328	329	330	331	332
##	-581827.8064	-517456.2874	-850120.3635	-548660.8064	-721792.5849
##	333	334	335	336	337
##	-599635.8064	-594673.8064	-678911.3254	56208534.2317	68518674.1936
##	338	339	340	341	342
##	-433802.5469	9083935.4531	828393.1936	4045264.4531	2984936.2317
##	343	344	345	346	347
##	10775739.4531	-400380.5469	2474386.1936	3628938.4531	100335.4531
##	348	349	350	351	352
##	4226832.4531	-492457.5469	-528850.5469	-397411.7683	4507629.9341
##	353	354	355	356	357
##	-366111.5469	-210006.9898	-204550.0659	-379032.5088	1872867.1936
##	358	359	360	361	362
##	-247214.7303	-563761.8064	-346446.2874	-537098.8064	-430408.0278
##	363	364	365	366	367
##	14739.1936	1892023.4531	-484424.2874	4869855.7126	3047478.1936
##	368	369	370	371	372
##	-463979.8064	-350360.5088	264332.7126	2527608.1936	1399430.6746
##	373	374	375	376	377
##	-17670.5469	-512357.5469	-597702.8064	-295804.9898	-300503.5469
##	378	379	380	381	382
##	-351979.5088	17070697.9341	-284544.9898	-531872.5469	68518674.1936
##	383	384	385	386	387
##	56212265.2317	4226928.4531	-311814.7683	10775913.4531	2985120.2317
##	388	389	390	391	392
##	-343881.0278	-434238.2874	77250.7126	4869968.7126	10008273.9722
##	393	394	395	396	397
##	2527867.1936	1892033.4531	-346446.2874	2275858.1936	264332.7126
##	398	399	400	401	402
##	-447657.0278	-223413.5469	-208905.5469	-292840.0659	-212077.5469
##	403	404	405	406	407
##	-272614.2874	10272811.7126	-311463.0659	-521739.5469	12283800.4531
##	408	409	410	411	412

##	1987467.4531	-563748.8064	-501597.2874	-212079.5469	9083981.4531
##	413	414	415	416	417
##	2474476.1936	1581109.6746	-17670.5469	1873051.1936	-474552.2874
##	418	419	420	421	422
##	4508246.9341	1868905.9341	3047838.1936	17072625.9341	-462795.0278
##	423	424	425	426	427
##	-490321.2874	-420797.0278	574441.4531	-463317.0278	-506512.2874
##	428	429	430	431	432
##	-416065.7683	-326864.2874	-392245.2874	-434238.2874	10775913.4531
##	433	434	435	436	437
##	-486994.5469	-573101.8064	-412487.2874	-422938.8064	-458366.0278
##	438	439	440	441	442
##	-340214.2874	-529502.8444	-568387.8064	-117076.8064	-48200.8064
##	443	444	445	446	447
##	-374004.7683	-184941.0659	-506816.8064	-443612.0278	-502190.2874
##	448	449	450	451	452
##	-436485.0659	-544186.5469	7177984.9341	-424814.7683	4045423.4531
##	453	454	455	456	457
##	3629082.4531	-429050.2874	-337006.0659	-500432.3254	-454994.0278
##	458	459	460	461	462
##	-311717.7683	-393131.2874	154035.6746	-475640.0278	-517639.5469
##	463	464	465	466	467
##	-472771.2874	-535352.5469	2985200.2317	4226928.4531	77250.7126
##	468	469	470	471	472
##	10776195.4531	10008273.9722	4869968.7126	-446687.0278	-492774.3254
##	473	474	475	476	477
##	-208905.5469	-272614.2874	10272811.7126	1987467.4531	-515932.2874
##	478	482	483	484	485
##	147895.8648	-226399.4708	82488.2317	-190169.0278	-232919.9898
##	486	487	488	489	490
##	-473339.0278	-509698.2874	-580587.0659	-588009.8064	-203753.2874
##	491	492	493	494	495
##	-385467.7683	-170187.0278	-28752.4327	-428181.8064	-513282.2874
##	496	497	498	499	500
##	-464262.0278	-382518.5088	-522006.5469	-599974.8064	-213199.4708
##	501	502	503	504	505
##	-405641.7683	-142079.9517	-429598.0659	-377753.8064	-473828.0278
##	506	507	508	509	510
##	-391087.5088	-392625.5088	-264569.7303	-392118.7683	-256177.7303
##	511	512	513	514	515
##	-182820.2113	-494933.2874	-378211.0278	-182300.2113	-17344.1732
##	516	517	518	519	520
##	-670760.3254	-458627.0278	-384008.5088	439867.6814	-223808.4708
##	521	522	523	524	525
##	194798.1244	-391878.5088	-184607.2113	-224429.4708	-565435.8064
##	526	527	528	529	530
##	-345984.2493	-515538.2874	189698.1244	64754.3458	-475070.0278
##	531	532	533	534	535
##	-477442.2874	-225308.4708	-423641.5469	-141635.9517	-473683.0278
##	536	537	538	539	540

##	-460396.2874	-226160.4708	-453491.2874	-592753.8064	-475360.0278
##	541	542	543	544	545
##	-512393.2874	-556629.5469	-190169.0278	-385467.7683	-473339.0278
##	546	547	548	549	550
##	-509698.2874	-17653.1732	-588009.8064	-580587.0659	194798.1244
##	551	552	553	554	555
##	-464262.0278	-203753.2874	-433574.7683	-170187.0278	439867.6814
##	556	557	558	559	560
##	-138605.9517	-377753.8064	-458627.0278	-345984.2493	-470942.0278
##	561	562	563	564	565
##	-513282.2874	-405641.7683	-429598.0659	-308126.9898	-391085.5088
##	566	567	568	569	570
##	-213197.4708	-391877.5088	-433975.7683	-670757.3254	-382614.7683
##	571	572	573	574	575
##	-474972.0278	-515931.2874	-143087.9517	-600443.8064	-423639.5469
##	576	577	578	579	580
##	-494932.2874	-384007.5088	-535889.5469	-170929.2113	-460394.2874
##	581	582	583	584	585
##	-475358.0278	-420872.7683	-267840.7303	-516418.2874	-225507.4708
##	586	587	588	589	590
##	-428121.7683	-473683.0278	-460814.0278	64754.3458	-600423.8064
##	591	592	593	594	595
##	-565436.8064	-273527.2874	-475659.0278	-512325.2874	-391154.5088
##	596	597	598	599	600
##	-469194.0278	-477438.2874	-391988.5088	-434125.7683	-514971.2874
##	601	602	603	604	605
##	-459238.0659	-384069.5088	-267975.7303	-600582.8064	-226366.4708
##	606	607	608	609	610
##	-600613.8064	-766845.8444	-683621.3254	-725382.5849	-766860.8444
##	612	613	615	616	617
##	106259.6053	-850130.3635	-766886.8444	-850133.3635	-766950.8444
##	619	620	623	626	634
##	-807777.1039	-18488.1732	-725374.5849	813156.0170	-850130.3635
##	635	637	641	646	647
##	-725370.5849	-850129.3635	-850130.3635	-18489.1732	-475884.0278
##	655	656	657	658	662
##	-850132.3635	-309464.9898	-642104.0659	-517453.2874	-559053.5469
##	663	664	665	666	668
##	-470941.0278	439868.6814	-473335.0278	-600582.8064	-382518.5088
##	669	671	672	673	674
##	-392625.5088	-392115.7683	-600613.8064	-725382.5849	-345980.2493
##	675	676	677	678	679
##	-588008.8064	-559036.8064	-267975.7303	-600423.8064	106259.6053
##	680	681	682	683	685
##	-556626.5469	-683621.3254	64754.3458	-226366.4708	-184814.2113
##	686	687	688	689	690
##	-766845.8444	-724597.5849	-766860.8444	-761647.8444	-724910.5849
##	691	692	693	694	695
##	-475070.0278	-226332.4708	-725230.5849	-351124.2493	23145.0863
##	696	697	698	700	701

##	-459238.0659	-142079.9517	-378196.0278	5564535.4151	-501913.3254
##	702	703	704	706	707
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##	708	709	710	711	712
##	-762895.8444	-673195.3254	-674485.3254	-627741.3254	-503191.2874
##	713	714	715	716	717
##	-675417.1039	-348679.2493	-481265.2874	-600251.8064	-599551.8064
##	718	719	720	721	722
##	-292111.5469	-299306.0659	-599893.8064	-511166.3254	-392669.5088
##	723	724	725	726	727
##	-599022.8064	-555891.5469	-570786.8064	-510741.2874	-593636.8064
##	728	729	730	731	732
##	-433423.7683	-511736.2874	-323576.2493	-631372.0659	-715500.5849
##	733	734	735	736	737
##	-640295.0659	-557543.5469	-302176.2874	-558636.5469	-470869.5849
##	738	739	740	741	742
##	382514.4151	-598431.3254	-501913.3254	-471950.3254	-543204.0659
##	743	744	745	746	747
##	-510160.8064	-651425.3254	-393312.0659	-393669.0659	-302176.2874
##	748	749	750	751	752
##	-328496.8064	-543744.8064	-508878.2874	-601039.0659	-445915.0278
##	753	754	755	756	757
##	-434008.7683	-475537.0278	-547155.5469	-536808.5469	-536675.5469
##	758	759	760	761	762
##	-543204.0659	-610402.3254	-463162.0278	-658623.3254	-672645.5849
##	763	764	765	766	767
##	-663639.5849	-503355.5469	-706111.5849	-670194.3254	-645944.3254
##	768	769	770	771	772
##	-665434.3254	-558403.5469	-517237.2874	-434037.7683	-628433.0659
##	773	774	775	776	777
##	-513785.2874	-473532.0278	-598872.8064	-433882.7683	-641468.0659
##	778	779	780	781	782
##	-596678.8064	-433996.7683	-516835.2874	-558001.5469	-515200.2874
##	783	784	785	786	787
##	-598431.3254	-501913.3254	5565118.4151	-471950.3254	-510160.8064
##	788	789	790	791	792
##	-543204.0659	-536675.5469	-651426.3254	-469719.0659	-447984.2874
##	793	794	795	796	797
##	-508878.2874	382495.4151	-601039.0659	-675833.3254	-292124.5469
##	798	799	800	801	802
##	-511782.2874	-582756.5849	5565118.4151	-545385.8064	-469716.0659
##	803	804	805	806	807
##	-545843.8064	-429497.7683	-608694.3254	-566995.8064	382514.4151
##	808	809	810	811	812
##	-411088.5849	-352532.5469	-466547.0278	-513661.2874	-511212.5469
##	813	814	815	816	817
##	-542864.5469	-558853.5469	-405920.7683	-514236.2874	-433477.7683
##	818	819	820	821	822
##	-431787.7683	-350320.2493	-471950.3254	-275837.0278	-391491.5088
##	823	824	825	826	827

##	-475193.0278	-533611.0659	-447979.2874	-452091.8064	5565118.4151
##	828	829	830	831	832
##	-430465.7683	-545385.8064	-516332.8064	-429497.7683	-469716.0659
##	833	834	835	836	837
##	382559.4151	-292111.5469	-628018.0659	-352527.5469	-466547.0278
##	838	839	840	841	842
##	-544359.5469	-599396.0659	-477268.2874	-645944.3254	-224996.4708
##	843	844	845	846	847
##	-447979.2874	-452092.8064	-516330.8064	-471950.3254	-352527.5469
##	848	849	850	851	852
##	-469716.0659	-510891.8444	-598563.8064	-459792.0278	-808542.1039
##	853	854	855	856	857
##	-725367.5849	-694303.5849	-721860.5849	4855566.1936	-422656.7683
##	858	859	860	861	862
##	-488529.2874	-262288.5469	-172135.0659	-215462.4708	-418968.2874
##	863	864	865	866	867
##	-54831.4327	-661298.3254	-507186.2874	6606302.4531	4326586.4531
##	868	869	870	871	872
##	-333915.0278	-344169.2493	-138201.2113	-455981.5469	-582959.8064
##	873	874	875	876	877
##	-563641.8064	-258784.7683	1518718.0102	-357807.5088	41891.9341
##	878	879	880	881	882
##	-553725.8064	-151361.5469	185497.7126	-485019.2874	-406728.0659
##	883	884	885	886	887
##	-713727.5849	10783.9341	-619161.0659	-97435.2113	-105794.2874
##	888	889	890	891	892
##	-550141.5469	-15979.2874	1449489.6746	-446205.0278	-386928.2874
##	893	894	895	896	897
##	95581.7126	1074622.4531	-558591.8064	-390084.5088	-454028.0278
##	898	899	900	901	902
##	-526327.5469	10783.9341	-440059.3254	-265344.7303	-557548.5469
##	903	904	905	906	907
##	-514509.5469	-15980.2874	4855566.1936	-468082.0278	-474862.0278
##	908	909	910	911	912
##	-515035.2874	-377476.5088	-362243.2874	500.0102	-630008.0659
##	913	914	915	916	917
##	78523.0102	-259090.2493	-470874.5469	-17997.1732	-442508.0278
##	918	919	920	921	922
##	-394198.2874	-448471.0278	-331889.5088	-404606.7683	-312491.8064
##	923	924	925	926	927
##	-502670.2874	-114620.7683	-331529.5088	-411314.7683	-505079.2874
##	928	929	930	931	932
##	-398384.7683	-494611.5469	-370352.5088	-15979.2874	4855957.1936
##	933	934	935	936	937
##	-262230.5469	529.0102	-470874.5469	78523.0102	-259090.2493
##	938	939	940	941	942
##	-394198.2874	-114621.7683	-331889.5088	-312491.8064	-625852.0659
##	943	944	945	946	947
##	-417867.0278	-442508.0278	-331529.5088	94639.9341	-404606.7683
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##	-448471.0278	-266015.7303	-315869.2493	-398381.7683	-502670.2874
##	953	954	955	956	957
##	-292318.9898	-263425.2493	-291042.9898	-293792.0278	-111791.9898
##	958	959	960	961	962
##	-384056.5088	4856066.1936	-262288.5469	-334648.5088	78523.0102
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##	500.0102	-394198.2874	-470874.5469	-114621.7683	-468082.0278
##	968	969	970	971	972
##	-331889.5088	10783.9341	-365306.5088	-442508.0278	-151340.5469
##	973	974	975	976	977
##	-312491.8064	-360862.0278	-411315.7683	-331529.5088	-391929.5088
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##	-404606.7683	-448471.0278	-505079.2874	-315869.2493	-398381.7683
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##	-370352.5088	-502670.2874	-111791.9898	-384056.5088	-508509.2874
##	988	989	990	991	992
##	-558756.5469	-151340.5469	-683074.3254	-557203.5469	-633081.3254
##	993	994	995	996	997
##	-394198.2874	-440059.3254	-640649.0659	-677568.3254	-382789.5088
##	998	999	1000	1001	1002
##	-493811.2874	-533087.8064	-478708.2874	-398895.5469	-680035.3254
##	1003	1004	1005	1006	1007
##	-302395.5469	144952.9341	-430530.7683	-394199.7683	-635150.0659
##	1008	1009	1010	1011	1012
##	-640071.0659	-408223.7683	-413701.7683	-516666.2874	-585083.8064
##	1013	1015	1016	1017	1018
##	-683233.3254	-675574.3254	-472806.0278	-679932.3254	-600177.8064
##	1019	1020	1021	1022	1023
##	-683075.3254	-808484.1039	-633424.0659	-683707.3254	-725358.5849
##	1024	1027	1028	1029	1030
##	-558603.5469	-514277.2874	-553220.5469	-850131.3635	-599978.8064
##	1031	1032	1036	1037	1038
##	-850119.3635	-641159.0659	-640271.0659	-766958.8444	-596343.8064
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##	-476217.8064	-561600.8064	-215677.7303	-272847.9898	-308504.2493
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##	-239395.2874	-511401.2874	-404821.2874	192501.0483	-152913.2113
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##	1069	1070	1071	1072	1073
##	-480731.2874	-495481.2874	-337524.0278	-422239.7683	-364263.0278
##	1074	1075	1076	1077	1078
##	-349935.8064	-19087.5849	-577265.0659	100681.4531	-173414.3254
##	1079	1080	1081	1082	1083
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##	1084	1085	1086	1087	1088

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##	694021.9341	-517220.2874	-626313.3254	-517194.2874	-754666.8444
##	1094	1095	1096	1097	1098
##	-634036.0659	-505558.2874	-513102.5469	-169639.2874	-474210.8064
##	1099	1100	1101	1102	1103
##	-579071.8064	-549242.3254	-517194.2874	-666845.3254	-572552.3254
##	1104	1105	1106	1107	1108
##	-592910.8064	-553131.5469	-501774.2874	-511329.2874	-350287.2493
##	1109	1110	1111	1112	1113
##	-633562.0659	-660676.3254	-613833.3254	-724077.5849	-657219.3254
##	1114	1115	1116	1117	1118
##	-681389.3254	-19086.5849	-350094.2493	-533893.5469	-429755.5469
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##	1129	1130	1131	1132	1133
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##	-513097.5469	-524198.5469	-521479.5469	-319156.8064	-558374.5469
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##	1154	1155	1156	1157	1158
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##	-169603.2874	-722098.5849	-259551.8064	-682842.3254	-595855.3254
##	1169	1170	1171	1172	1173
##	-349922.8064	-173405.3254	-534330.5469	-356006.7683	-557328.8064
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##	690742.6746	-309014.2874	-468897.0278	-122660.7303	-411111.0278
##	1180	1182	1183	1184	1185
##	-650809.3254	-722681.5849	-595651.5849	-114252.5849	-719270.5849
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##	-473422.0278	-75035.2113	-347828.2493	-309504.9898	-449374.2874
##	1191	1192	1193	1194	1195
##	-51660.4327	-215660.4708	-721585.5849	-486280.0659	-507318.2874
##	1196	1197	1198	1199	1200
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##	-661791.3254	-510655.0659	-527073.5469	-245108.7303	-583570.8064
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##	-536216.1039	-546845.8444	-200049.8064	-123138.9517	-607463.5849
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##	-600176.8064	-641580.0659	-635986.0659	-498184.0659	-715743.8444
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##	1286	1287	1288	1289	1290
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##	-647611.5849	-633582.0659	-141080.0659	-307704.9898	-641021.0659
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##	1426	1427	1428	1429	1430
##	-307753.9898	-545335.5469	-631971.0659	-679164.3254	-708818.5849
##	1431	1432	1433	1434	1435
##	-635580.3254	-663645.3254	-431418.7683	-595603.8064	-589135.8064
##	1436	1437	1438	1439	1440
##	-735305.8444	-478507.3254	-503678.2874	-572351.3254	-364433.0278
##	1441	1442	1443	1444	1445
##	-543007.8064	-408981.0659	-550483.5469	-713699.5849	-606243.3254
##	1446	1447	1448	1449	1450
##	-529872.8064	-224317.0659	-763803.8444	-490091.2874	-479981.0659
##	1451	1452	1453	1454	1455
##	-409982.0278	-450918.0278	-428312.7683	-521348.5469	-466931.0659
##	1457	1458	1459	1460	1461
##	-330007.3254	-306807.9898	-308128.9898	-509904.2874	-633743.0659
##	1462	1463	1464	1465	1466

##	-549005.5469	-382613.5088	-644617.3254	-555537.5469	-529222.8064
##	1467	1468	1469	1471	1472
##	-646949.3254	-603101.0659	-336495.2493	-577628.8064	-725274.5849
##	1473	1474	1475	1476	1477
##	-184532.2113	-554624.5469	-515259.5469	-430031.7683	-426804.7683
##	1478	1480	1481	1482	1483
##	-350657.2493	-536475.5469	-263896.7303	-348652.2493	-538919.0659
##	1484	1486	1487	1488	1489
##	-681137.3254	-634605.0659	-725262.5849	-558786.5469	-307317.9898
##	1491	1492	1493	1494	1495
##	-516668.2874	-181539.2113	-391252.5088	-431930.7683	-429862.7683
##	1496	1497	1498	1499	1500
##	-433797.7683	-330006.3254	-429847.7683	-473468.0278	-386099.5088
##	1501	1502	1503	1504	1505
##	-589441.8064	-593745.8064	-554624.5469	-646949.3254	-633743.0659
##	1506	1507	1508	1509	1510
##	-479981.0659	-466931.0659	-224317.0659	-555225.5469	-490090.2874
##	1511	1512	1513	1514	1515
##	-529220.8064	-536475.5469	-329993.3254	-475814.0278	-390643.5088
##	1516	1517	1519	1522	1523
##	-600583.8064	-680792.3254	-474972.0278	-284141.2493	-683267.3254
##	1524	1525	1526	1527	1528
##	-99539.4708	-725340.5849	-557594.5469	-641295.0659	-599858.8064
##	1529	1530	1532	1533	1534
##	-181912.2113	-558625.5469	-558648.5469	-683569.3254	-681226.3254
##	1536	1539	1542	1543	1544
##	-387205.2874	-683676.3254	-593245.8064	-334675.5088	-640521.0659
##	1545	1546	1547	1548	1549
##	-343398.2493	-559053.5469	-296908.9898	-850109.3635	-99735.6922
##	1550	1551	1552	1554	1555
##	-582054.0659	-724557.5849	-425641.7683	-455750.0278	-350236.2493
##	1556	1557	1559	1561	1562
##	-722749.5849	-641825.0659	-513532.2874	-472114.0278	-58805.4327
##	1563	1564	1565	1566	1567
##	-456927.0278	-428398.0278	-558458.5469	-293317.7683	-632449.3254
##	1568	1569	1570	1571	1572
##	-587076.8064	-561277.8064	-551772.5469	-522663.3254	-85486.6922
##	1573	1574	1575	1576	1577
##	-642124.0659	-567727.3254	132086.6746	-558074.5469	-14230.1732
##	1578	1579	1580	1581	1582
##	125432.1936	-596812.8064	-525487.5469	-220256.4708	-524732.5469
##	1583	1584	1585	1586	1587
##	-634767.0659	-267624.9898	-560079.0659	-506533.2874	-558394.5469
##	1588	1589	1590	1591	1592
##	-681639.3254	-588572.0659	-373769.5088	-549647.5469	-133573.9517
##	1593	1594	1595	1596	1597
##	-723163.5849	-494313.2874	-98623.6922	-505084.8064	-218532.4708
##	1598	1599	1600	1601	1602
##	-305353.9898	-333780.2493	-344594.2493	-276301.9898	-649024.3254
##	1603	1604	1605	1606	1607

##	-427636.7683	-266916.7303	-349351.2493	-108390.0278	-705084.5849
##	1608	1609	1610	1611	1612
##	-385354.5088	-426748.0278	-614629.3254	-514029.2874	-266916.7303
##	1613	1614	1615	1616	1617
##	-644082.3254	-513689.2874	-504905.8064	-682148.3254	-705084.5849
##	1618	1619	1620	1621	1622
##	-472586.0278	-391743.5088	-429104.7683	-397597.0278	-649004.3254
##	1623	1624	1625	1626	1627
##	-469087.0278	-463443.0278	-475535.0278	-584004.8064	-349351.2493
##	1628	1629	1630	1631	1632
##	-463155.5469	-469087.0278	-463443.0278	-475535.0278	-584004.8064
##	1633	1634	1635	1636	1637
##	-349351.2493	-463154.5469	-597527.8064	-517257.2874	-600608.8064
##	1638	1639	1640	1641	1642
##	-557526.5469	-447594.0278	-430375.7683	-516583.2874	-454700.0278
##	1643	1644	1645	1646	1647
##	-390688.5088	-587428.8064	-565772.3254	-632760.0659	-632127.0659
##	1648	1649	1650	1651	1652
##	-738382.8444	-581020.8064	-631680.0659	-637797.0659	-633468.3254
##	1653	1654	1655	1656	1657
##	-638878.0659	3805163.9341	27080039.9341	21826035.1936	-471130.5849
##	1658	1659	1660	1661	1662
##	-493327.0659	-148274.2874	4633520.1936	22449701.6746	7559549.4531
##	1663	1664	1665	1666	1667
##	9926248.4531	979883.7126	-624006.3254	2009884.1936	3466347.1936
##	1668	1669	1670	1671	1672
##	3136696.9341	5597921.1936	-548753.5469	44207916.6746	441357.4531
##	1673	1674	1675	1676	1677
##	-500438.2874	168503.7126	-631831.0659	13556072.9341	-50156.0659
##	1678	1679	1680	1681	1682
##	1006874.4151	-430147.5849	493406.9341	4966027.1936	736497.4531
##	1683	1684	1685	1686	1687
##	-80461.2493	1474123.6746	-177531.3254	4320175.1936	-536054.5469
##	1688	1689	1690	1691	1692
##	-407838.0278	741430.4531	8322945.1936	3444925.6746	-517006.5469
##	1693	1694	1695	1696	1697
##	-342917.8064	265102.4151	9574313.9341	7013488.1936	76821.6746
##	1698	1699	1700	1701	1702
##	9239604.9341	1522739.1936	6987442.6746	27080968.9341	3805121.9341
##	1703	1704	1705	1706	1707
##	9926274.4531	13556377.9341	44207916.6746	21827814.1936	3466338.1936
##	1708	1709	1710	1711	1712
##	2555640.9341	625679.4151	4734868.6746	9239683.9341	-493329.0659
##	1713	1714	1715	1716	1717
##	1163861.4151	-458378.0659	-536260.8444	-430083.5849	5598238.1936
##	1718	1719	1720	1721	1722
##	1474123.6746	4823399.9341	-623952.3254	809077.4151	22450968.6746
##	1723	1724	1725	1726	1727
##	14248998.9341	6988688.6746	495046.9341	-177531.3254	2009980.1936
##	1728	1729	1730	1731	1732

##	265197.4151	-548705.5469	7559877.4531	4320480.1936	-540074.5469
##	1733	1734	1735	1736	1737
##	12842.9341	7013629.1936	-631790.0659	4634183.1936	742868.9341
##	1738	1739	1740	1741	1742
##	2014541.6746	399628.4151	9198832.6746	4966163.1936	-525968.8064
##	1743	1744	1745	1746	1747
##	4745414.9341	2066603.6746	736546.4531	-181087.0659	304701.9341
##	1748	1749	1750	1751	1752
##	-591336.8064	3806566.9341	981170.7126	27081869.9341	21827814.1936
##	1753	1754	1755	1756	1757
##	625700.4151	-156847.2874	495042.9341	13558119.9341	6988688.6746
##	1758	1759	1760	1761	1762
##	4634168.1936	5432109.9341	7559877.4531	441357.4531	-49942.0659
##	1763	1764	1765	1766	1767
##	809695.4151	7393491.4151	9949029.9722	-536243.8444	-563618.8064
##	1768	1769	1770	1771	1772
##	-95233.2874	-502518.8064	-704126.5849	-440806.5469	-583859.5849
##	1773	1774	1775	1776	1777
##	-447251.2874	1691952.4531	-570388.8064	-460132.0278	-390984.0278
##	1778	1779	1780	1781	1782
##	-471061.2874	304701.9341	-718192.5849	-635550.3254	5785548.9341
##	1783	1784	1785	1786	1787
##	-34247.4327	-420515.0278	-36642.2113	3115014.1936	1282001.4531
##	1788	1789	1790	1791	1792
##	-582120.3254	-325194.8064	-384304.5469	3894669.6746	-372124.2874
##	1793	1794	1795	1796	1797
##	981895.7126	-110766.0659	3113628.1936	-321919.2874	-612284.0659
##	1798	1799	1800	1801	1802
##	-536243.8444	-558666.8064	-467131.3254	1669560.9341	-393171.5469
##	1803	1804	1805	1806	1807
##	-142662.3254	506668.1936	-571473.8064	-452451.0659	-346054.3254
##	1808	1809	1810	1811	1812
##	-581699.3254	2409551.6746	-433816.0278	-401808.0659	-651300.3254
##	1813	1814	1815	1816	1817
##	-529894.8064	-366571.5849	-668403.3254	-520102.5469	-427447.0659
##	1818	1819	1820	1821	1822
##	-583197.3254	826388.7126	-473507.0659	-217250.8444	-456899.0278
##	1823	1824	1825	1826	1827
##	-533965.5469	-507608.8064	-313720.7683	-329505.2874	50668.2317
##	1828	1829	1830	1831	1832
##	-515422.2874	-568685.0659	-666371.5849	-511648.2874	-582020.8064
##	1833	1834	1835	1836	1837
##	-663884.3254	-787434.1039	-593229.8064	-624099.0659	-673011.3254
##	1838	1839	1840	1841	1842
##	-504473.2874	-604017.0659	-674412.3254	-345893.3254	3807657.9341
##	1843	1844	1845	1846	1847
##	21829074.1936	3199782.6746	13558325.9341	2035335.6746	506555.1936
##	1848	1849	1850	1851	1852
##	3115636.1936	372535.4531	-393131.5469	796382.6746	1909003.4531
##	1853	1854	1855	1856	1857

##	-249883.5469	123531.6746	-195790.0659	-427405.0659	4988.7126
##	1858	1859	1860	1861	1862
##	-141262.5849	-526508.5469	-344094.7683	-388117.8064	1486494.4531
##	1863	1864	1865	1866	1867
##	61877.6746	-308848.5849	-584040.8064	-666371.5849	2456839.1936
##	1868	1869	1870	1871	1872
##	-334545.5469	-491230.2874	21829546.1936	3807685.9341	13559666.9341
##	1873	1874	1875	1876	1877
##	27083127.9341	5598453.1936	-548566.5469	-493279.0659	626382.4151
##	1878	1879	1880	1881	1882
##	1164193.4151	22452928.6746	44210081.6746	7013773.1936	3467009.1936
##	1883	1884	1885	1886	1887
##	-429812.5849	-623899.3254	-631764.0659	9926958.4531	7560091.4531
##	1888	1889	1890	1891	1892
##	736565.4531	2410125.6746	-536121.8444	9241142.9341	4634652.1936
##	1893	1894	1895	1896	1897
##	2555951.9341	9413296.9341	3445858.6746	1474773.6746	-177213.3254
##	1898	1899	1900	1901	1902
##	4735869.6746	265334.4151	-49720.0659	-620332.0659	496014.9341
##	1903	1904	1905	1906	1907
##	9199999.6746	-444684.0659	-525946.8064	4966247.1936	2015075.6746
##	1908	1909	1910	1911	1912
##	810584.4151	14250244.9341	8323176.1936	6990445.6746	400049.4151
##	1913	1914	1915	1916	1917
##	-654361.3254	12920.9341	4320809.1936	4834344.9341	524511.4531
##	1918	1919	1920	1921	1922
##	27083127.9341	983521.7126	3588661.9341	7560094.4531	4634652.1936
##	1923	1924	1925	1926	1927
##	810584.4151	2015082.6746	265274.4151	6990445.6746	1518576.1936
##	1928	1929	1930	1931	1932
##	643458.6746	-458014.0659	444209.4531	600630.9341	-240799.0659
##	1933	1934	1935	1936	1937
##	10295255.6746	-168149.3254	396596.4531	-345893.3254	826366.9341
##	1938	1939	1940	1941	1942
##	508.4151	-93185.0659	834261.4151	-433224.5849	-162844.3254
##	1943	1944	1945	1946	1947
##	781178.1936	-33542.5469	-641528.0659	-364090.5469	-273042.8064
##	1948	1949	1950	1951	1952
##	3299321.7126	-548521.5469	4834344.9341	-495021.8064	-688249.5849
##	1953	1954	1955	1956	1957
##	-369686.2874	-128012.0278	-298961.0659	-425375.0659	-287851.0659
##	1958	1959	1960	1961	1962
##	277147.9722	-516004.5469	-561546.0659	-447260.8064	-641665.0659
##	1963	1964	1965	1966	1967
##	2389444.6746	-407663.7683	1591979.4531	-335460.0659	21829546.1936
##	1968	1969	1970	1971	1972
##	3467009.1936	-623899.3254	983144.7126	13559379.9341	-403708.3254
##	1973	1974	1975	1976	1977
##	-493234.0659	-571124.5849	-615239.0659	483213.9341	4745556.9341
##	1978	1979	1980	1981	1982

##	8323205.1936	643462.6746	-536016.5469	-558496.8064	736565.4531
##	1983	1984	1985	1986	1987
##	265407.4151	-553940.5849	2010038.1936	741559.4531	1523151.1936
##	1988	1989	1990	1991	1992
##	-620332.0659	5432402.9341	-496338.8064	4966266.1936	796375.6746
##	1993	1994	1995	1996	1997
##	2066838.6746	-552997.8064	-558159.3254	-513122.2874	1518593.1936
##	1998	1999	2000	2001	2002
##	-468928.3254	127233.6746	810960.4151	-49720.0659	-500433.2874
##	2003	2004	2005	2006	2007
##	-528620.3254	400177.4151	4735869.6746	-524565.5469	-423155.3254
##	2008	2009	2010	2011	2012
##	4037521.1936	4320767.1936	826413.9341	-172892.2874	7013765.1936
##	2013	2014	2015	2016	2017
##	-324949.5469	-676773.5849	-171530.0659	-558496.8064	3807685.9341
##	2018	2019	2020	2021	2022
##	-585867.8064	-587888.8064	-608241.0659	-663539.3254	-636463.0659
##	2023	2024	2025	2026	2027
##	-547441.5469	-712440.5849	-599956.8064	-632445.0659	-148099.2874
##	2028	2029	2030	2031	2032
##	-630788.0659	-640074.0659	-676773.5849	-600259.8064	-534123.5469
##	2033	2034	2035	2036	2037
##	-682697.3254	-391756.5088	-408682.2874	-640769.0659	-558035.5469
##	2038	2039	2040	2041	2042
##	372597.9341	-513680.8064	-593321.8064	-497776.8444	-540798.8064
##	2043	2044	2045	2046	2047
##	-582025.8064	-547109.5469	-679517.3254	-407609.0278	-630508.0659
##	2048	2049	2050	2051	2052
##	-638901.0659	-605618.0659	-105693.7683	9574772.9341	-637065.3254
##	2053	2054	2055	2056	2057
##	-111370.0659	-635174.0659	-406318.0659	-582888.8064	5569011.4151
##	2058	2059	2060	2061	2062
##	-121615.0659	-641792.0659	-485448.2874	-554852.5469	-642160.0659
##	2063	2064	2065	2066	2067
##	-517381.2874	-476588.5469	-600145.8064	-663539.3254	-654370.3254
##	2068	2069	2070	2071	2072
##	-622994.0659	-506351.2874	-618553.0659	-674154.3254	-674180.3254
##	2073	2074	2075	2076	2077
##	-446576.0278	-640433.0659	-674607.3254	-669792.3254	-531347.0659
##	2078	2079	2080	2081	2082
##	-558899.5469	-340782.2493	-594580.0659	54896.9722	-754833.8444
##	2083	2084	2085	2086	2087
##	-392493.5088	-635820.0659	-594285.8064	-558890.5469	-517469.2874
##	2088	2089	2090	2091	2092
##	-18488.1732	3808630.9341	-513680.8064	9574772.9341	-676687.5849
##	2093	2094	2095	2096	2097
##	-460649.0278	-121570.0659	-638148.0659	-111320.0659	-577056.3254
##	2098	2099	2100	2101	2102
##	-525274.5469	-554852.5469	-583429.0659	-514242.2874	-470446.2874
##	2103	2104	2105	2106	2107

##	-600510.8064	-642110.0659	197307.9722	-515299.2874	-300270.0278
##	2108	2109	2110	2111	2113
##	-716880.5849	-555575.5469	-221226.8064	-581396.8064	-534182.5469
##	2114	2115	2116	2117	2118
##	-599876.8064	-548971.5469	-33507.5469	-513715.2874	-376114.2874
##	2119	2120	2121	2122	2123
##	-86475.5469	770132.4531	-327600.0278	-476204.2874	-641946.0659
##	2124	2125	2126	2127	2128
##	-166463.5469	-515999.5469	-128136.0659	-434028.0278	372621.9341
##	2129	2130	2131	2132	2133
##	-494417.2874	-488561.8064	-418823.7683	-424000.0278	-515999.5469
##	2134	2135	2136	2137	2138
##	-33507.5469	22756.1936	-86475.5469	-409234.0278	-423865.7683
##	2139	2140	2141	2142	2143
##	1015137.4531	-664636.3254	-389450.5469	-719200.5849	-557690.5469
##	2144	2145	2146	2147	2148
##	-597689.8064	-516746.2874	-715532.5849	-381977.5088	-475741.0278
##	2149	2150	2151	2152	2153
##	-187372.0278	-471373.0278	-514149.2874	-694288.5849	-599787.8064
##	2154	2155	2156	2157	2158
##	-558499.5469	-642027.0659	-495873.5469	-535287.5469	-469888.0278
##	2159	2160	2161	2162	2163
##	-472992.0278	-472278.0278	-680743.3254	-472661.0278	-600365.8064
##	2164	2165	2166	2167	2168
##	-599046.8064	-558180.5469	-365753.7683	-766909.8444	-350025.2493
##	2169	2170	2171	2172	2173
##	-725358.5849	-641658.0659	-766873.8444	-600603.8064	-766966.8444
##	2174	2175	2176	2177	2178
##	-517439.2874	-517263.2874	-434064.7683	-725203.5849	-723193.5849
##	2179	2180	2181	2182	2183
##	-391115.5088	-641865.0659	-437874.0278	-594451.8064	-385827.5088
##	2184	2185	2186	2187	2188
##	-587486.8064	-600145.8064	-267565.7303	-599481.8064	-415978.0278
##	2189	2190	2191	2192	2193
##	-266941.7303	-683733.3254	-558677.5469	-641971.0659	-597245.8064
##	2194	2195	2196	2197	2198
##	-437874.0278	-594451.8064	-385827.5088	-587486.8064	-600145.8064
##	2199	2200	2201	2202	2203
##	-267565.7303	-599481.8064	-415978.0278	-266941.7303	-683733.3254
##	2204	2205	2206	2207	2208
##	-558677.5469	-641971.0659	-597245.8064	3808665.9341	-293722.0278
##	2209	2210	2211	2212	2213
##	-171511.0659	-416166.0278	-259613.5088	-408682.2874	-428682.0278
##	2214	2215	2216	2217	2218
##	-297193.5088	-409235.0278	-465639.2874	5569008.4151	-315120.2493
##	2219	2220	2221	2222	2223
##	-30314.5469	-389450.5469	-476588.5469	-348668.5088	-166463.5469
##	2224	2225	2226	2227	2228
##	-354645.7683	-413549.7683	1015144.4531	-394155.2874	-446576.0278
##	2229	2230	2231	2232	2233

##	-426186.7683	22756.1936	-508172.5469	-495899.5469	-587486.8064
##	2234	2235	2236	2237	2238
##	-488740.2874	54896.9722	-513480.5469	-497757.2874	-321836.3254
##	2239	2240	2241	2242	2243
##	-316276.0278	-287840.0659	-328320.8064	1734339.9341	-429456.5469
##	2244	2245	2246	2247	2248
##	-516342.2874	-600063.8064	-683677.3254	-642161.0659	-766754.8444
##	2249	2250	2251	2252	2253
##	-642053.0659	-101609.6922	-683089.3254	-639303.0659	-474362.0278
##	2254	2255	2256	2257	2258
##	-683714.3254	-642025.0659	-599280.8064	-600629.8064	-600626.8064
##	2259	2260	2261	2262	2263
##	-350942.2493	-683411.3254	189500.1244	-434297.7683	-850132.3635
##	2264	2265	2267	2268	2269
##	-559024.5469	-184742.2113	-184768.2113	-558845.5469	-600537.8064
##	2270	2271	2272	2273	2274
##	-600633.8064	-517432.2874	-850133.3635	-475815.0278	-392720.5088
##	2275	2276	2277	2278	2279
##	-683650.3254	-517299.2874	-600065.8064	-517309.2874	-267958.7303
##	2280	2282	2283	2284	2285
##	-642061.0659	-725363.5849	-683487.3254	-642091.0659	-517468.2874
##	2286	2287	2288	2289	2290
##	-517403.2874	-559056.5469	-596434.8064	-475883.0278	-600624.8064
##	2291	2292	2293	2294	2296
##	-683448.3254	-599915.8064	-517444.2874	-641732.0659	147879.8648
##	2297	2298	2299	2300	2301
##	-683181.3254	-766958.8444	-517413.2874	-725377.5849	-18486.1732
##	2302	2303	2304	2305	2306
##	-226187.4708	-683740.3254	-707812.8444	-498004.2874	-610688.3254
##	2307	2308	2309	2310	2311
##	-573117.8064	-664112.8444	-432218.7683	-309329.9898	-484444.2874
##	2312	2313	2314	2315	2316
##	-688145.8444	-706714.5849	-226151.4708	-386464.5088	-517455.2874
##	2317	2318	2319	2320	2321
##	-713227.8444	108913.6053	-513001.2874	-568978.5849	-681800.3254
##	2322	2323	2324	2325	2326
##	-636125.0659	-702228.5849	-717040.5849	-634387.0659	-719203.5849
##	2327	2328	2329	2330	2331
##	-430509.7683	-182981.2113	-222694.4708	-18175.1732	-637970.5849
##	2332	2333	2334	2335	2336
##	-662617.3254	-515731.2874	-697844.8444	-641771.0659	-506767.2874
##	2337	2338	2339	2340	2341
##	-350448.2493	-17576.1732	-584766.8064	-641721.0659	-433824.7683
##	2342	2343	2344	2345	2346
##	-267793.7303	-600626.8064	-698526.5849	-708471.1039	-267956.7303
##	2347	2348	2349	2350	2351
##	-570057.0659	-475874.0278	-677771.3254	-715443.5849	-721070.5849
##	2352	2353	2354	2355	2356
##	64752.3458	-556841.5469	-683759.3254	-535170.5469	-184169.2113
##	2358	2359	2360	2361	2362

##	-430814.7683	-763918.8444	-515730.2874	-18445.1732	-640538.0659
##	2363	2364	2365	2366	2367
##	-309036.9898	-640836.0659	-641652.0659	-683714.3254	-516342.2874
##	2368	2369	2370	2371	2372
##	-662617.3254	-267929.7303	-600366.8064	-598482.8064	-639273.0659
##	2373	2374	2375	2376	2377
##	-639303.0659	-475811.0278	-668261.3254	-553538.5469	-556951.5469
##	2378	2379	2380	2381	2382
##	-725315.5849	-642161.0659	-641816.0659	-642053.0659	-517444.2874
##	2383	2384	2385	2386	2387
##	-600444.8064	-392458.5088	-512625.2874	-600629.8064	-474362.0278
##	2388	2389	2390	2392	2393
##	-184768.2113	-475857.0278	-434297.7683	-475805.0278	-225113.4708
##	2394	2395	2396	2397	2398
##	-513174.2874	-432767.7683	-642025.0659	-558776.5469	-558599.5469
##	2399	2400	2401	2402	2403
##	-766754.8444	-683677.3254	-475815.0278	-683411.3254	-226187.4708
##	2404	2405	2406	2407	2408
##	272602.6434	-641711.0659	-558891.5469	-517413.2874	-517309.2874
##	2409	2410	2411	2412	2413
##	-59990.4327	-600633.8064	-600529.8064	23184.0863	-59989.4327
##	2414	2415	2416	2417	2418
##	-309562.9898	-434306.7683	-350805.2493	-683089.3254	-600504.8064
##	2419	2421	2422	2427	2428
##	-350942.2493	-766958.8444	-554952.5469	-309556.9898	-850132.3635
##	2429	2430	2445	2446	2449
##	-18488.1732	-309545.9898	-309562.9898	-850134.3635	-850132.3635
##	2451	2453	2455	2456	2458
##	-850131.3635	-850133.3635	-850131.3635	-850133.3635	-850132.3635
##	2459	2460	2464	2465	2473
##	-850133.3635	-850134.3635	-559049.5469	-808525.1039	-850134.3635
##	2476	2477	2478	2483	2485
##	-808539.1039	-683801.3254	-850134.3635	-434311.7683	-850133.3635
##	2487	2488	2489	2490	2491
##	-432218.7683	148334.8648	-637970.5849	-713223.8444	-559015.5469
##	2492	2493	2494	2495	2496
##	-725378.5849	189545.1244	-681792.3254	-641721.0659	-475874.0278
##	2497	2498	2500	2501	2505
##	-642213.0659	-558486.5469	-350448.2493	-600478.8064	-641894.0659
##	2506	2507	2508	2509	2510
##	-641771.0659	-351124.2493	-640538.0659	-433781.7683	-642204.0659
##	2511	2512	2513	2515	2516
##	-305969.9898	-559003.5469	-309556.9898	-600614.8064	-351085.2493
##	2518	2519	2520	2521	2522
##	108913.6053	-850132.3635	-558936.5469	-351026.2493	-18175.1732
##	2523	2524	2525	2526	2527
##	-850133.3635	-267957.7303	-434190.7683	-559042.5469	-724765.5849
##	2528	2529	2531	2532	2533
##	-850129.3635	-725382.5849	-683799.3254	-59819.4327	-596855.8064
##	2534	2535	2536	2537	2538

##	-850134.3635	-267973.7303	64740.3458	-600576.8064	-515730.2874
##	2539	2540	2542	2543	2544
##	-683789.3254	-517449.2874	-350856.2493	-226382.4708	-702228.5849
##	2545	2546	2547	2548	2549
##	77682410.9722	65935088.9341	8047199.4531	-551468.8064	2354684.1936
##	2550	2551	2552	2553	2554
##	-494985.2874	16580474.2317	-557656.5469	3621634.6746	-159452.8064
##	2555	2556	2557	2558	2559
##	4313647.7126	-595722.8064	-586879.8064	-552973.5469	-613190.3254
##	2560	2561	2562	2563	2564
##	-599441.8064	-565744.0659	-412361.3254	-458703.3254	-650629.3254
##	2565	2566	2567	2568	2569
##	-545873.8064	-185027.0659	-616662.0659	-542655.5469	-598133.8064
##	2570	2571	2572	2573	2574
##	-604148.3254	-558685.5469	492104.1556	-512726.2874	-623244.3254
##	2575	2576	2577	2578	2579
##	-411617.7683	-661708.3254	-327734.5469	-254760.7303	45595.2317
##	2580	2581	2582	2583	2584
##	-328591.0659	-59711.8064	-585078.0659	707861.7126	-622641.0659
##	2585	2586	2587	2588	2589
##	-214138.5469	-438348.2874	-433989.2874	-159452.8064	3222710.4531
##	2590	2591	2592	2593	2594
##	-243618.5469	-93775.0278	-229499.0659	3247609.4531	742371.7126
##	2595	2596	2597	2598	2599
##	10928.9722	597944.4531	-94372.2874	-270092.0278	-190079.0278
##	2600	2601	2602	2603	2604
##	2354683.1936	-171539.9898	-383794.5088	-305312.9898	16580392.2317
##	2605	2606	2607	2608	2609
##	65935221.9341	-253148.7303	-469507.0278	-166023.0278	45596.2317
##	2610	2611	2612	2613	2614
##	-457940.0278	16581039.2317	65935088.9341	3621634.6746	-507557.5469
##	2615	2616	2617	2618	2619
##	504989.4531	-459136.2874	-4915.0659	742416.7126	597943.4531
##	2620	2621	2622	2623	2624
##	-314285.0278	-331702.2493	707889.7126	920317.1936	3247609.4531
##	2625	2626	2627	2628	2629
##	-94339.2874	-190075.0278	-401063.7683	3222710.4531	-507555.5469
##	2630	2631	2632	2633	2634
##	658316.7126	742416.7126	418142.2317	299422.1936	-430635.7683
##	2635	2636	2637	2638	2639
##	-438348.2874	-433989.2874	94971.1936	-93774.0278	-268183.0278
##	2640	2641	2642	2643	2644
##	-383337.5469	-432260.7683	-438347.2874	658337.7126	742416.7126
##	2645	2646	2647	2648	2649
##	10934.9722	418142.2317	505016.4531	3222710.4531	299422.1936
##	2650	2651	2652	2653	2654
##	23915.1936	-94339.2874	4540.7126	-401063.7683	-438347.2874
##	2655	2656	2657	2658	2659
##	-292699.7683	5568773.9341	-92494.3254	-464765.5469	91275.7126
##	2660	2661	2662	2663	2664

##	-520098.5469	5232799.6746	-159168.8064	2188281.1936	331045.9341
##	2665	2666	2667	2668	2669
##	350166.4531	1055576.7126	340445.7126	-565078.8064	-597948.3254
##	2670	2671	2672	2673	2674
##	-410679.2874	-259163.7303	-605038.0659	-574927.8064	-306893.2493
##	2675	2676	2677	2678	2679
##	359556.4151	-249731.7303	-474727.2874	-264327.7303	-342318.5469
##	2680	2681	2682	2683	2684
##	61645.1936	-611390.0659	-108605.0278	-556471.5469	-396404.5469
##	2685	2686	2687	2688	2689
##	3134836.4151	-433276.5469	-345893.2874	-273336.2874	9213.4531
##	2690	2691	2692	2693	2694
##	-374965.2874	-449935.5469	-548763.3254	-492049.8064	756182.4531
##	2695	2696	2697	2698	2699
##	-302416.2493	-375572.3254	-463727.0659	-407489.0278	5412077.1936
##	2700	2701	2702	2703	2704
##	-513697.5469	-332784.2493	-418445.7683	-134047.9517	-452708.0278
##	2705	2706	2707	2708	2709
##	-464097.0278	-507502.2874	-422999.0278	-592848.8064	-466194.0278
##	2710	2711	2712	2713	2714
##	-485958.2874	-460234.0659	-345324.5469	5568814.9341	-433024.0278
##	2715	2716	2717	2718	2719
##	-326316.0659	-390433.8064	686942.6746	-562963.0659	-399081.3254
##	2720	2721	2722	2723	2724
##	-658317.5849	-512906.5469	-498758.8064	-598982.8064	-507502.2874
##	2725	2726	2727	2728	2729
##	-464097.0278	-422999.0278	-460234.0659	-667468.5849	-447372.0278
##	2730	2731	2732	2733	2734
##	-492524.2874	-604971.0659	-390433.8064	686942.6746	-483719.2874
##	2735	2736	2737	2738	2739
##	-399085.3254	-555639.5469	-468702.0278	-464097.0278	2188281.1936
##	2740	2741	2742	2743	2744
##	-422999.0278	-681528.3254	-512356.2874	-477742.2874	-466194.0278
##	2745	2746	2747	2748	2749
##	-515919.2874	-345324.5469	-500511.2874	-460234.0659	-667468.5849
##	2750	2751	2752	2753	2754
##	5568814.9341	-433276.5469	-392326.7683	-159168.8064	-414525.8064
##	2755	2756	2757	2758	2759
##	-421227.7683	-326316.0659	5232762.6746	-447372.0278	-613664.0659
##	2760	2761	2762	2763	2764
##	-358559.5088	-597636.0659	-513319.2874	-453286.5469	350144.4531
##	2765	2766	2767	2768	2769
##	-321213.8064	-608641.0659	-589601.3254	-390433.8064	-463539.5469
##	2770	2771	2772	2773	2774
##	-512906.5469	-407489.0278	-543590.5849	-574922.8064	-374965.2874
##	2775	2776	2777	2778	2779
##	2188281.1936	-477742.2874	-512356.2874	-466194.0278	-421227.7683
##	2780	2781	2782	2783	2784
##	-447372.0278	-597636.0659	-589601.3254	-463539.5469	686942.6746
##	2785	2786	2787	2788	2789

##	2188281.1936	-429710.7683	-569628.0659	-365470.0278	-598266.8064
##	2790	2791	2792	2793	2794
##	-421227.7683	5233678.6746	-606727.0659	-596763.8064	-608641.0659
##	2795	2796	2797	2798	2799
##	-407489.0278	-514988.5469	5569856.9341	-477742.2874	-344768.2493
##	2800	2801	2802	2803	2804
##	-637101.0659	-543565.5849	-456663.0278	-585090.3254	-657470.8444
##	2805	2806	2807	2808	2809
##	-413153.7683	-724068.5849	-674964.5849	-443497.0278	10216331.9341
##	2810	2811	2812	2813	2814
##	-48238.7303	-603271.0659	-582754.5849	-465938.5849	-519195.0659
##	2815	2816	2817	2818	2819
##	397326.7126	-620383.0659	4681936.1936	-631875.0659	-641365.0659
##	2820	2821	2822	2823	2824
##	-560352.8064	-306203.9898	-509379.5469	-638846.0659	-590116.8064
##	2825	2826	2827	2828	2829
##	-139744.9517	95359.4531	-598777.8064	-567748.0659	-378783.8064
##	2830	2831	2832	2833	2834
##	-115657.2874	-639108.0659	-693403.5849	-637824.0659	2654149.6746
##	2835	2836	2837	2838	2839
##	-672129.3254	2557405.1936	-433800.5469	-502945.5469	-668106.3254
##	2840	2841	2842	2843	2844
##	-584118.8064	-615863.0659	-356436.0659	-513067.2874	-428457.7683
##	2845	2846	2847	2848	2849
##	-553551.8064	-492349.5849	-530481.5469	475251.6746	-547220.8064
##	2850	2851	2852	2853	2854
##	937062.9341	-442179.5469	-537329.5469	-538220.8064	10216313.9341
##	2855	2856	2857	2858	2859
##	-530452.8064	163352.6746	-307108.5469	-585090.3254	95358.4531
##	2860	2861	2862	2863	2864
##	4681916.1936	-277002.2874	-31812.5469	2557294.1936	-337303.5088
##	2865	2866	2867	2868	2869
##	-490989.5469	1817493.1936	-188317.2874	937062.9341	-516382.5469
##	2870	2871	2872	2873	2874
##	958309.4531	252633.4531	-452455.0278	2768007.1936	-516980.5469
##	2875	2876	2877	2878	2879
##	-404605.7683	-419214.7683	-398588.7683	-528743.8064	4306033.4531
##	2880	2881	2882	2883	2884
##	-369815.0278	-472536.2874	-263458.5088	-489575.8064	-551088.8064
##	2885	2886	2887	2888	2889
##	10216826.9341	-530452.8064	163352.6746	-307108.5469	-585090.3254
##	2890	2891	2892	2893	2894
##	-432599.0278	-304231.7683	-96907.5469	-376560.2874	-345452.7683
##	2895	2896	2897	2898	2899
##	-426684.0278	-124641.0278	-276806.7683	1312356.4531	-442179.5469
##	2900	2901	2902	2903	2904
##	-277002.2874	-221251.0659	-399559.7683	35204.1936	-397755.0278
##	2905	2906	2907	2908	2909
##	1817493.1936	-314688.5469	-546194.5469	-302134.2874	5561917.4531
##	2910	2911	2912	2913	2914

##	2768004.1936	152473.1936	4306047.4531	-551088.8064	-334828.2493
##	2915	2916	2917	2918	2919
##	252007.1936	893849.1936	-31811.5469	135967.6746	-400873.7683
##	2920	2921	2922	2923	2924
##	-124640.0278	-39646.2874	1312361.4531	2654145.6746	-557469.3254
##	2925	2926	2927	2928	2929
##	-490988.5469	-277002.2874	-102289.0278	-502051.2874	30533.6746
##	2930	2931	2932	2933	2934
##	767193.6746	890090.1936	1437893.4151	562590.1936	-361215.0278
##	2935	2936	2937	2938	2939
##	192706.4531	1817516.1936	397439.7126	2557509.1936	6952334.9341
##	2940	2941	2942	2943	2944
##	511159.7126	-183496.2493	252654.4531	474635.1936	6846058.6746
##	2945	2946	2947	2948	2949
##	2768063.1936	937118.9341	-423751.2874	-45156.0659	180884.9341
##	2950	2951	2952	2953	2954
##	4306072.4531	-551088.8064	-320182.2874	-454317.0278	-251606.5469
##	2955	2956	2957	2958	2959
##	-401416.7683	-585089.3254	-16498.5469	2557509.1936	-179522.0659
##	2960	2961	2962	2963	2964
##	3660.7126	-557257.5469	-316979.8064	-434595.2874	-16100.0278
##	2965	2966	2967	2968	2969
##	-466816.8064	186606.4151	-682073.3254	-174568.2874	-527151.5469
##	2970	2971	2972	2973	2974
##	-502789.5469	-534500.0659	-582351.3254	-489444.0659	-578908.8064
##	2975	2976	2977	2978	2979
##	-315004.5849	-239575.2874	-468028.5469	-404752.2874	-316384.5088
##	2980	2981	2982	2983	2984
##	-328792.5088	-498799.2874	-519181.5469	-530939.3254	-495479.5469
##	2985	2986	2987	2988	2989
##	-313309.7683	-298549.7683	-257864.7683	-681825.3254	-543043.5469
##	2990	2991	2992	2993	2994
##	-507485.2874	-522569.5469	-478359.8064	-434094.7683	-679795.3254
##	2995	2996	2997	2998	2999
##	-700216.5849	-544936.5469	-431825.7683	-461286.0659	-724438.5849
##	3000	3001	3002	3003	3004
##	-368218.8064	-765306.8444	-141845.9517	-556573.5469	-203896.5088
##	3005	3006	3007	3008	3009
##	-599944.8064	-387220.5088	-596092.8064	-468028.5469	-594535.8064
##	3010	3011	3012	3013	3014
##	-239577.2874	3660.7126	-16100.0278	-478359.8064	-257864.7683
##	3015	3016	3017	3018	3019
##	-466816.8064	-468028.5469	-187086.0278	-390701.7683	3660.7126
##	3020	3021	3022	3023	3024
##	-434595.2874	-468028.5469	18369.5673	-187086.0278	26109.0863
##	3025	3026	3027	3028	3029
##	-403472.7683	-605969.0659	-558307.5469	-456665.0278	-558133.5469
##	3030	3031	3032	3033	3034
##	-616122.0659	-646639.3254	-598621.8064	-516679.2874	-551516.5469
##	3035	3036	3037	3038	3039

##	-182974.2113	-670708.3254	-515573.2874	-594535.8064	-423227.7683
##	3040	3041	3042	3043	3044
##	-472508.0278	-423161.7683	-654133.3254	-239573.2874	-592207.0659
##	3045	3046	3047	3048	3049
##	-536991.8064	-257862.7683	-176222.4708	-390701.7683	3662.7126
##	3050	3051	3052	3053	3054
##	-424341.7683	-478358.8064	-765310.8444	-475534.0278	-678501.3254
##	3055	3056	3057	3058	3059
##	-534977.5469	-466808.8064	-468026.5469	-682816.3254	-609838.0659
##	3060	3061	3062	3063	3064
##	-558958.5469	3662.7126	-478358.8064	-434594.2874	-466808.8064
##	3065	3066	3067	3068	3069
##	-468026.5469	-606830.0659	-609838.0659	-187086.0278	-405417.7683
##	3070	3071	3072	3073	3074
##	-314993.5849	-672257.3254	-239573.2874	3662.7126	-441772.0278
##	3075	3076	3077	3078	3079
##	-16098.0278	-222344.4708	-636707.0659	-388458.5088	-683267.3254
##	3080	3081	3082	3083	3084
##	-424341.7683	-478358.8064	-434594.2874	-174565.2874	-17285.3254
##	3085	3086	3087	3088	3089
##	196540.9341	-466808.8064	-639281.0659	-492323.8064	-551516.5469
##	3090	3091	3092	3093	3094
##	-498798.2874	-468026.5469	-609838.0659	-365377.7683	-436577.2874
##	3095	3096	3097	3098	3099
##	-187086.0278	-387219.5088	-441932.2874	-405417.7683	-176222.4708
##	3100	3101	3102	3103	3104
##	-423161.7683	-403472.7683	963042.9341	-339269.0278	-297629.2874
##	3105	3106	3107	3108	3109
##	-548612.8064	-551451.8064	-470745.0278	-494346.5469	-425836.0659
##	3110	3111	3112	3113	3114
##	-160679.0659	-594629.8064	-382103.0659	1104999.4151	-582763.8064
##	3115	3116	3117	3118	3119
##	-449024.0278	562195.1936	-241238.8064	8676095.4531	-297629.2874
##	3120	3121	3122	3123	3124
##	-400530.7683	-532747.5849	1779595.4531	67744.6746	-367949.5088
##	3125	3126	3127	3128	3129
##	-235121.7303	-418211.7683	-399116.0278	1612211.7126	-294145.5088
##	3130	3131	3132	3133	3134
##	-339262.0278	-99208.5469	-54500.4327	-292750.9898	-182542.2113
##	3135	3136	3137	3138	3139
##	-555079.8064	-267698.7303	562196.1936	-142980.9517	-288122.9898
##	3140	3141	3142	3143	3144
##	-15740.1732	-260902.7303	-749088.8444	29069.4912	-307213.2493
##	3145	3146	3147	3148	3149
##	-387170.5469	-391187.0659	-169069.2113	-282005.9898	-160678.0659
##	3150	3151	3152	3153	3154
##	-449709.8064	-474967.0278	126608.9341	-407647.7683	-379455.5088
##	3155	3156	3157	3158	3159
##	-551711.8064	-723916.8444	1104998.4151	-543379.5469	-292585.9898
##	3160	3161	3162	3163	3164

##	-512365.2874	-195954.4708	-393760.5469	-104854.5849	40812.4531
##	3165	3166	3167	3168	3169
##	-463331.0278	-57544.4327	-559025.5469	-475468.0278	-481917.2874
##	3170	3171	3172	3173	3174
##	-161637.5469	562195.1936	-547877.5469	-542325.5469	-551711.8064
##	3175	3176	3177	3178	3179
##	-195954.4708	-339269.0278	-673771.3254	-580328.8064	-491737.2874
##	3180	3181	3182	3183	3184
##	-367949.5088	-474931.2874	-593716.8064	-576360.8064	-548613.8064
##	3185	3186	3187	3188	3189
##	-582602.8064	-282005.9898	-577893.8064	-425836.0659	-292585.9898
##	3190	3191	3192	3193	3194
##	-552861.8064	-301860.9898	-567385.8064	-160678.0659	-253439.7303
##	3195	3196	3197	3198	3199
##	-465746.8064	-386230.7683	-473476.0278	-582726.8064	-538865.8064
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##	-548736.5469	-551711.8064	-515868.2874	-297629.2874	-339269.0278
##	3205	3206	3207	3208	3209
##	-528656.5469	-425836.0659	-567385.8064	-160678.0659	-540437.5469
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##	-509219.2874	-382091.0659	1104999.4151	-543068.8064	-582763.8064
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##	562195.1936	-241081.8064	-458693.0278	-420281.3254	-586527.8064
##	3220	3221	3222	3223	3224
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##	3225	3226	3227	3228	3229
##	-492501.0659	-510715.2874	-397104.2874	-477252.2874	-599375.0659
##	3230	3231	3232	3233	3234
##	-715417.5849	-428352.7683	-499183.2874	1612229.7126	-437240.0278
##	3235	3236	3237	3238	3239
##	7432851.1936	5144451.1936	-499238.2874	-493278.2874	-438562.0278
##	3240	3241	3242	3243	3244
##	12117438.9341	-683498.3254	-442679.0278	-518289.5469	-488617.2874
##	3245	3246	3247	3248	3249
##	-399291.0278	-408123.7683	55522.6746	-14234.4327	-658214.3254
##	3250	3251	3252	3254	3255
##	-608098.0659	-99260.6922	-228591.5469	-546932.3254	-599405.8064
##	3256	3257	3258	3260	3261
##	7106886.6746	-104670.0659	-368221.3254	-588426.8064	-390254.2874
##	3262	3263	3264	3265	3266
##	-591039.8064	-35921.4327	-222500.7303	-447645.0278	1341637.7126
##	3267	3268	3269	3270	3271
##	-151582.4708	-374217.5088	-18424.1732	-378178.5088	-555169.0659
##	3272	3273	3274	3275	3276
##	-167789.2113	679781.1936	-159725.2113	-558702.5469	-309250.9898
##	3277	3278	3279	3280	3281
##	-62404.4708	-345717.2493	-267924.7303	-59948.4327	-349728.2493
##	3282	3283	3284	3285	3286
##	-399038.2874	-374339.7683	-526948.5469	-444271.5469	-571820.0659
##	3287	3288	3289	3290	3291

##	-212644.0659	234641.9341	-392935.8064	3654237.1936	-447552.5469
##	3292	3293	3294	3295	3296
##	-44573.2874	-609979.5849	-434274.8064	59858.4531	-407980.8064
##	3297	3298	3299	3300	3301
##	-504852.5469	-581653.0659	610410.4151	-493718.0659	-3894.3254
##	3302	3303	3304	3305	3306
##	-572696.5849	-606495.3254	-718759.8444	-380342.5088	-556837.0659
##	3307	3308	3309	3310	3311
##	-650297.3254	-299888.0659	-509810.8064	-629506.0659	-348653.7683
##	3312	3313	3314	3315	3316
##	-542664.5469	-433505.7683	-576376.8064	-474238.0278	17394.4531
##	3317	3318	3319	3320	3321
##	-387220.0278	-502211.5469	-498381.2874	598915.7126	-362899.2874
##	3322	3323	3324	3325	3326
##	-476801.2874	-519226.5469	-368941.0659	-461161.8064	158829.9341
##	3327	3328	3329	3330	3331
##	1341631.7126	-410298.0278	506678.1936	3951973.9341	-464632.5469
##	3332	3333	3334	3335	3336
##	-265526.8064	-441969.0278	428152.1936	-383274.2874	-460202.0278
##	3337	3338	3339	3340	3341
##	-634827.3254	-231921.0659	-495347.5469	-465300.0278	-466399.0278
##	3342	3343	3344	3345	3346
##	-88896.2874	-250351.0278	2406920.6746	-167785.0659	-393175.7683
##	3347	3348	3349	3350	3351
##	-151065.4708	144603.1936	4333488.1936	-463079.8064	-302905.0278
##	3352	3353	3354	3355	3356
##	-449168.2874	437998.6746	-593495.8064	5782834.6746	-634149.3254
##	3357	3358	3359	3360	3361
##	-640500.0659	-586130.5849	-567847.8064	-539301.0659	6018969.6746
##	3362	3363	3364	3365	3366
##	-676223.3254	-410097.7683	-678733.3254	-626591.0659	416156.4151
##	3367	3368	3369	3370	3371
##	-695903.5849	-458248.8064	-487371.5469	-610537.5849	-413686.0278
##	3372	3373	3374	3375	3376
##	-522914.5849	-88539.8064	-385485.3254	5141216.9341	-553248.8064
##	3377	3378	3379	3380	3381
##	-545116.8064	-556792.5469	-292658.5469	-34238.3254	-719046.5849
##	3382	3383	3384	3385	3386
##	-553646.5469	594910.9341	-679082.3254	-556681.8064	2634984.9341
##	3387	3388	3389	3390	3391
##	-725159.5849	-552433.5469	-298769.9898	-451394.5849	-613021.0659
##	3392	3393	3394	3395	3396
##	-581723.8064	-557003.5469	-766530.8444	-617353.3254	-475497.0278
##	3397	3398	3399	3400	3401
##	-713299.5849	-473067.0278	5782834.6746	-428135.2874	-63154.5469
##	3402	3403	3404	3405	3406
##	-430734.2874	-403814.7683	-419587.2874	-367693.5088	-500442.5469
##	3407	3408	3409	3410	3411
##	-413594.0278	-480240.2874	-599050.8064	36060.4531	-458929.5469
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##	-305940.8064	-495435.5469	-362918.0278	-459425.2874	-463715.0278
##	3417	3418	3419	3420	3421
##	-357436.0278	-404998.2874	-406478.0278	133196.1936	-318400.0278
##	3422	3423	3424	3425	3426
##	-472578.5469	-198825.3254	-398171.0278	5782834.6746	1706378.6746
##	3427	3428	3429	3430	3431
##	-484403.2874	-440124.0278	-227236.2874	-572736.0659	-548658.5469
##	3432	3433	3434	3435	3436
##	-488671.2874	-422969.7683	-450747.2874	-491670.2874	437998.6746
##	3437	3438	3439	3440	3441
##	-292657.5469	-88535.8064	-349025.8064	-513341.8064	-377660.5469
##	3442	3443	3444	3445	3446
##	-558178.5469	-643102.3254	-17300.0659	-424750.0278	88784.4531
##	3447	3448	3449	3450	3451
##	1991299.1936	-510042.2874	-401704.2874	-463887.0278	1441901.9341
##	3452	3453	3454	3455	3456
##	-188462.5849	2457237.4531	587512.1936	2130529.1936	-342922.2493
##	3457	3458	3459	3460	3461
##	-371847.8064	2693836.4531	-291021.2874	437266.9341	-90454.6922
##	3462	3463	3464	3465	3466
##	-632571.0659	-458802.2874	437664.1936	-438138.5849	-119998.8064
##	3467	3468	3469	3470	3471
##	-406512.7683	90832.1936	-432181.7683	4700178.6746	-615665.0659
##	3472	3473	3474	3475	3476
##	-503977.2874	-425762.7683	1260668.1936	-619135.0659	-385781.5088
##	3477	3478	3479	3480	3481
##	340730.7126	256921.4531	-415026.2874	-461074.2874	-485569.8064
##	3482	3483	3484	3485	3486
##	-706086.5849	804589.6746	-53500.4327	-23582.8064	616471.9722
##	3487	3488	3489	3490	3491
##	-23426.0659	-474110.3254	939333.4531	-377362.5088	-518812.0659
##	3492	3493	3494	3495	3496
##	-373427.5469	-228718.9898	2122739.9341	-559223.8064	115660.2317
##	3497	3498	3499	3500	3501
##	-434100.7683	-594630.8064	-707433.5849	-658436.3254	-443331.2874
##	3502	3503	3504	3505	3506
##	-465351.0659	-279189.3254	-424042.7683	-486225.0659	-543928.8064
##	3507	3508	3509	3510	3511
##	-441804.5469	90832.1936	-343381.0659	-569711.0659	804589.6746
##	3512	3513	3514	3515	3516
##	-395450.8064	-610111.3254	-414180.5469	4700164.6746	-592430.0659
##	3517	3518	3519	3520	3521
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##	3522	3523	3524	3525	3526
##	-500062.2874	1441900.9341	2130569.1936	2457245.4531	-291021.2874
##	3527	3528	3529	3530	3531
##	-62660.5469	437391.9341	256914.4531	-9159.5469	-23428.0659
##	3532	3533	3534	3535	3536
##	865912.9341	-120001.8064	340749.7126	-272910.2874	1717210.6746
##	3537	3538	3539	3540	3541

##	-543608.8064	-546738.5469	-561382.3254	-495970.2874	-436896.2874
##	3542	3543	3544	3545	3546
##	-480273.2874	-423669.7683	-332764.5469	-625902.3254	90832.1936
##	3547	3548	3549	3550	3551
##	-279196.3254	804590.6746	-343370.0659	-486225.0659	-120003.8064
##	3552	3553	3554	3555	3556
##	-553902.5469	-425327.7683	-501128.2874	-487186.2874	-616239.0659
##	3557	3558	3559	3560	3561
##	-424042.7683	-456637.2874	-467068.8064	-660413.3254	-361008.5469
##	3562	3563	3564	3565	3566
##	-581212.3254	340752.7126	-520522.8064	-656887.3254	2130569.1936
##	3567	3568	3569	3570	3571
##	-416617.3254	437661.1936	-469045.0278	1260667.1936	-581972.8064
##	3572	3573	3574	3575	3576
##	-459475.0278	-542910.5469	-404463.0278	-193435.0278	-642138.0659
##	3577	3579	3582	3583	3585
##	-374789.5088	-347534.2493	-682393.3254	-725349.5849	-430523.7683
##	3587	3588	3589	3591	3592
##	-725281.5849	-475336.0278	-304589.9898	-475851.0278	-300272.9898
##	3593	3594	3595	3596	3597
##	-621420.3254	-600479.8064	-682804.3254	-475796.0278	-600143.8064
##	3598	3599	3601	3602	3603
##	-691052.5849	-591568.8064	-766780.8444	-433848.7683	-807836.1039
##	3605	3606	3607	3608	3609
##	-759465.8444	-589140.8064	-725319.5849	-514762.2874	-683457.3254
##	3610	3611	3612	3613	3614
##	-683769.3254	-641418.0659	-683746.3254	-475576.0278	-350324.2493
##	3615	3616	3618	3619	3620
##	-760302.8444	-765030.8444	-641199.0659	-430966.7683	-595298.8064
##	3621	3623	3624	3625	3626
##	-725141.5849	-389548.5088	-599113.8064	-600602.8064	-565429.0659
##	3627	3628	3629	3630	3631
##	957795.1936	-607515.8444	1452762.1936	-766078.8444	339770.9341
##	3632	3633	3634	3635	3636
##	-714270.5849	-463290.0659	-215104.4708	-585271.8064	-540865.5469
##	3637	3638	3639	3640	3641
##	-560035.8064	-384139.2874	-646906.3254	711395.1936	-596457.8064
##	3642	3643	3644	3645	3646
##	-291736.5088	-539051.5469	-628798.0659	-498704.2874	-282624.9898
##	3647	3648	3649	3650	3651
##	-510020.2874	-257393.5088	-260360.7303	780633.9341	-537655.5469
##	3652	3653	3654	3655	3656
##	-556916.5469	-328164.2874	-593938.3254	-332607.0659	-638746.0659
##	3657	3658	3659	3660	3661
##	-493128.2874	-370576.5088	-749477.8444	-335182.2493	-639892.0659
##	3662	3663	3664	3665	3666
##	-612880.0659	-449705.2874	-433678.7683	-499052.2874	25096245.4531
##	3667	3668	3669	3670	3671
##	-551502.5469	-458388.2874	-557508.5469	-255219.7303	-337923.5088
##	3672	3673	3674	3675	3676

##	-507967.8444	-270814.5088	-309165.9898	-679876.3254	431434.1936
##	3677	3678	3679	3680	3681
##	-361399.8064	-324096.2874	-468271.0278	-331410.2493	-341036.8064
##	3682	3683	3684	3685	3686
##	-623525.0659	-584987.3254	-672382.5849	-122138.5469	-291056.0659
##	3687	3688	3689	3690	3691
##	1056536.4531	596818.0102	-389246.5088	-262344.7303	-137401.0659
##	3692	3693	3694	3695	3696
##	-574719.8064	-345593.2493	238061.6746	-511028.2874	-543185.5469
##	3697	3698	3699	3700	3701
##	-349055.2493	-574220.8064	-57383.4327	-646837.3254	-430151.0278
##	3702	3703	3704	3705	3707
##	72440.9341	-315110.7683	5832201.9341	-552374.5469	-298016.9898
##	3708	3709	3710	3711	3712
##	-363895.5088	-213196.4708	-141975.9517	-557844.5469	5832447.9341
##	3713	3714	3715	3716	3717
##	-316273.0278	-430676.8064	-562011.8064	-392305.0659	-442445.8064
##	3718	3719	3720	3721	3722
##	-516435.5469	-615813.0659	-262278.5469	-654100.3254	-445202.0278
##	3723	3724	3725	3726	3727
##	-433919.2874	-220335.4708	-141232.7683	-296892.2493	-203138.5469
##	3728	3729	3730	3731	3732
##	-521177.5469	-285007.0278	389138.4531	-632676.0659	-599570.8064
##	3733	3734	3735	3736	3737
##	-422404.7683	-290837.0278	13405.6746	-558081.5469	484904.4912
##	3738	3739	3740	3741	3742
##	-590540.0659	-550278.5849	11108343.4531	-284280.0659	-59337.4327
##	3743	3744	3745	3746	3747
##	-722845.5849	-332330.2493	-404025.7683	-485973.2874	-420362.7683
##	3748	3749	3750	3751	3752
##	-496330.2874	-143329.2113	-681716.3254	-597950.0659	-427306.7683
##	3753	3754	3755	3756	3757
##	-597682.8064	-477310.2874	-419088.0278	683375.1936	-429980.7683
##	3758	3759	3760	3761	3762
##	-299183.9898	-269807.3254	-575246.0659	-617422.3254	-624521.0659
##	3763	3764	3765	3766	3767
##	-360609.5088	-558709.5469	-526216.8064	484904.4912	-428031.5469
##	3768	3769	3770	3771	3772
##	683375.1936	-515684.8064	-264672.7303	-619066.0659	-266603.7303
##	3773	3774	3775	3776	3777
##	-426636.0278	-414757.8064	-434920.0278	-490373.2874	-477396.5849
##	3778	3779	3780	3781	3782
##	-329083.5088	-386625.5088	-569919.8064	-262278.5469	-627282.3254
##	3783	3784	3785	3786	3787
##	-409522.7683	-545890.5469	-455785.2874	-392305.0659	-555375.5469
##	3788	3789	3790	3791	3792
##	-415336.7683	-412875.0278	-621066.3254	-426636.0278	-565547.0659
##	3793	3794	3795	3796	3797
##	-141232.7683	-439323.2874	-79465.5469	-315740.2874	11108343.4531
##	3798	3799	3800	3801	3802

##	-284172.2874	-353944.7683	-494185.2874	-262278.5469	-409522.7683
##	3803	3804	3805	3806	3807
##	-392305.0659	-535418.5469	-555375.5469	-379513.5088	-415336.7683
##	3808	3809	3810	3811	3812
##	-426636.0278	-412875.0278	-434920.0278	-417072.7683	-141232.7683
##	3813	3814	3815	3816	3817
##	-385544.0659	-413430.0278	-329083.5088	-315740.2874	484912.4912
##	3818	3819	3820	3821	3822
##	-539150.0659	-428031.5469	683376.1936	6548822.6746	-501796.2874
##	3823	3824	3825	3826	3827
##	-422414.0278	-495841.8064	-550182.8064	-474208.2874	-585781.0659
##	3828	3829	3830	3831	3832
##	4410942.7126	821242.1936	-596989.8064	-308030.7683	-544949.5469
##	3833	3834	3835	3836	3837
##	-581931.8064	-495414.2874	-272605.5469	-459973.0278	-599989.8064
##	3838	3839	3840	3841	3842
##	-529291.5469	-498393.8064	-476252.2874	-563339.5849	-533045.5469
##	3843	3844	3845	3846	3847
##	-588662.0659	-299003.9898	-537470.5469	-513795.2874	-472986.0278
##	3848	3849	3850	3851	3852
##	-604287.0659	-751105.8444	-495139.5469	-687013.5849	-542402.5469
##	3853	3854	3855	3856	3857
##	-216064.2874	-288960.9898	-667712.3254	-576634.0659	-526834.5469
##	3858	3859	3860	3861	3862
##	-597876.0659	-494198.2874	-504905.2874	-488503.5469	-557819.5469
##	3863	3864	3865	3866	3867
##	-544170.8064	-302626.9898	-590423.8064	16835.1936	-515789.2874
##	3868	3869	3870	3871	3872
##	-207544.4708	-505639.2874	-456639.2874	16565853.2317	-479889.0659
##	3873	3874	3875	3876	3877
##	368940.7126	-389010.5088	-549108.5469	-307167.9898	-345719.5469
##	3878	3879	3880	3881	3882
##	1246338.4531	-588817.3254	9924081.4531	3298136.7126	-673559.3254
##	3883	3884	3885	3886	3887
##	-392000.5088	4965214.1936	-420352.3254	1252661.9722	-727490.8444
##	3888	3889	3890	3891	3892
##	-557748.5469	14243011.9341	4853355.1936	-600467.8064	-134594.9517
##	3893	3894	3895	3896	3897
##	574859.7126	-346891.2493	-598648.0659	2455488.4531	27069478.9341
##	3898	3899	3900	3901	3902
##	912330.0102	-489566.0659	-461129.0278	1251742.1936	43776.0102
##	3903	3904	3905	3906	3907
##	196193.9722	-763917.8444	68509030.1936	401666.4531	1227583.9722
##	3908	3909	3910	3911	3912
##	5141042.1936	9945388.9722	65867692.9341	9234144.9341	-172373.0659
##	3913	3914	3915	3916	3917
##	7747489.9341	167972.7126	267278.1936	144882.9341	239462.4531
##	3918	3919	3920	3921	3922
##	-344388.2493	-629106.0659	104043.0102	371240.9341	474987.9341
##	3923	3924	3925	3926	3927

##	349465.4531	-378041.3254	-404391.5469	-502317.8064	-531128.5469
##	3928	3929	3930	3931	3932
##	-511361.5469	25064488.4531	-425864.5469	736233.4531	-583572.8064
##	3933	3934	3935	3936	3937
##	-372389.2874	-762300.1039	1436519.9341	-572065.3254	-168566.3254
##	3938	3939	3940	3941	3942
##	-634531.3254	-155554.2113	-265385.2493	4318134.1936	1715306.4151
##	3943	3944	3945	3946	3947
##	-546608.3254	77652312.9722	-328957.2493	5036809.1936	4676341.1936
##	3948	3949	3950	3951	3952
##	-361669.5088	-463400.0278	-129228.0659	-308765.9898	1748779.1936
##	3953	3954	3955	3956	3957
##	302436.9341	13542685.9341	-350989.2493	-60022.4327	156981.9341
##	3958	3959	3961	3962	3963
##	-850133.3635	2439247.1936	745990.4531	23247.0863	-57030.4327
##	3964	3965	3966	3967	3968
##	-129026.9517	-475604.0278	-683181.3254	-600558.8064	3844957.9341
##	3969	3970	3971	3972	3973
##	-559047.5469	-558391.5469	-639276.0659	17070697.9341	314250.9029
##	3974	3975	3976	3977	3978
##	5429317.9341	311011.7126	9410961.9341	131473.6746	-392706.5088
##	3979	3980	3981	3982	3983
##	-475887.0278	-143217.9517	-169977.0659	-475612.0278	-766717.8444
##	3984	3985	3987	3988	3989
##	-475854.0278	-642222.0659	44197640.6746	22441473.6746	-536811.5469
##	3990	3991	3992	3993	3994
##	-445917.0278	-641875.0659	-554435.5469	797302.1936	-722498.5849
##	3995	3996	3997	3998	3999
##	21818813.1936	-573366.8064	9083052.4531	-515946.2874	-516604.2874
##	4000	4001	4002	4003	4004
##	-610402.3254	258885.9341	-682588.3254	-725300.5849	-766413.8444
##	4005	4006	4007	4008	4009
##	-723001.5849	42191137.4151	522765.2005	-634128.0659	-433813.7683
##	4010	4011	4012	4013	4014
##	-267375.7303	397356.4219	-724681.5849	-475519.0278	-558950.5469
##	4015	4016	4017	4018	4019
##	-559016.5469	-639473.0659	-600564.8064	8320809.1936	-683676.3254
##	4020	4021	4022	4023	4024
##	-309113.9898	-638109.0659	-433853.7683	-766915.8444	-432992.7683
##	4025	4026	4027	4028	4029
##	-725361.5849	-766664.8444	-683308.3254	-559023.5469	-516475.2874
##	4030	4031	4032	4033	4034
##	-766832.8444	-517457.2874	5775819.6746	1454299.7126	-336877.0659
##	4035	4036	4037	4038	4039
##	-275514.3254	1093880.9341	9572637.9341	4532388.4531	1821759.1556
##	4040	4041	4042	4043	4044
##	1399430.6746	3587752.9341	7557082.4531	123496.7126	2458045.1936
##	4045	4046	4047	4048	4049
##	4330005.9341	-516526.2874	907322.6746	-669780.3254	1260202.1936
##	4050	4051	4052	4053	4054

##	371642.9341	120481.9341	6973683.6746	1944036.9341	-509470.8064
##	4055	4056	4057	4058	4059
##	600347.9722	3464226.1936	9189663.6746	-668505.3254	-632066.0659
##	4060	4061	4062	4063	4064
##	3505493.9341	609899.4531	3441373.4531	-119554.9517	28883.0102
##	4065	4066	4067	4068	4069
##	-427959.0659	-412749.8064	-59332.4327	-418869.7683	2187818.1936
##	4070	4071	4072	4073	4074
##	3603.7126	-297820.5088	-536868.8064	4694988.6746	739812.1556
##	4075	4076	4077	4078	4079
##	2474454.1936	-382073.5088	94599.9341	-266629.7303	-180737.2113
##	4080	4081	4082	4083	4084
##	-160629.5849	350771.1936	-598984.8064	-624874.0659	296673.7126
##	4085	4086	4087	4088	4089
##	804482.6746	-543850.5469	-531903.5469	2690458.4531	3617129.6746
##	4090	4091	4092	4093	4094
##	-452105.8064	-460241.0659	-625967.0659	-429652.7683	-557583.5469
##	4095	4096	4097	4098	4099
##	-566273.0659	-390053.0278	4045264.4531	-423938.7683	8672553.4531
##	4100	4101	4102	4103	4104
##	5227248.6746	-306943.2874	5402948.1936	5558514.9341	-549659.5469
##	4105	4106	4107	4108	4109
##	56208534.2317	8036904.4531	828396.1936	210628.6746	-599339.8064
##	4110	4111	4112	4113	4114
##	-554508.5469	-504751.2874	2654488.4531	-555116.5469	-683749.3254
##	4115	4116	4117	4118	4119
##	-267769.7303	11098912.4531	-514889.2874	-516360.2874	-600034.8064
##	4120	4121	4122	4123	4124
##	-549626.5469	-808480.1039	-640974.0659	10272614.7126	100335.4531
##	4125	4126	4127	4128	4129
##	-504381.2874	-351110.2493	1154180.7126	813156.0170	-594146.8064
##	4130	4132	4133	4134	4136
##	-434269.7683	-580273.8064	-595214.8064	-565631.0659	-184761.2113
##	4137	4139	4141	4142	4143
##	-350965.2493	-304006.9898	-475854.0278	76031.6746	-600590.8064
##	4144	4145	4146	4147	4148
##	-517350.2874	4310894.7126	3096532.1936	4188182.9341	1337784.7126
##	4149	4150	4151	4152	4153
##	486580.9341	-494175.5469	7420981.1936	339737.7126	-265918.7303
##	4154	4155	4156	4157	4158
##	2985151.2317	-587958.8064	-680150.3254	-641190.0659	-600521.8064
##	4159	4160	4161	4162	4163
##	-517418.2874	430284.4531	-416764.3254	480549.9409	-347032.2493
##	4164	4165	4166	4167	4168
##	-592926.8064	-13780.1732	-184814.2113	-683796.3254	-309469.9898
##	4169	4170	4171	4172	4173
##	-17947.1732	-683717.3254	2128299.1936	-59295.4327	-558804.5469
##	4174	4175	4176	4177	4179
##	-559034.5469	-350733.2493	-641993.0659	-267466.7303	-517444.2874
##	4180	4181	4182	4183	4184

##	-642194.0659	-517293.2874	-143230.9517	968328.7126	-459769.5469
##	4185	4186	4187	4188	4189
##	-515517.2874	-267648.9898	-321604.2493	24878.0863	5539415.9341
##	4190	4191	4192	4193	4194
##	-558936.5469	-808408.1039	-580825.8064	-600632.8064	-600628.8064
##	4195	4196	4197	4198	4199
##	27123.0863	-517431.2874	-434262.7683	-559053.5469	-543620.5469
##	4200	4201	4203	4204	4205
##	-392692.5088	-455995.5469	-434098.7683	-679698.3254	-309439.9898
##	4206	4207	4208	4209	4210
##	-368398.7683	-683185.3254	-597391.8064	-642222.0659	-18486.1732
##	4211	4212	4213	4214	4215
##	-60005.4327	1074505.4531	-642117.0659	-641543.0659	-642048.0659
##	4216	4217	4218	4220	4221
##	-465469.0278	-679666.3254	1234539.7126	-214007.5088	-390276.5088
##	4222	4223	4224	4225	4226
##	-372972.5088	4226832.4531	-514344.2874	77242.7126	-302112.9898
##	4227	4228	4229	4230	4231
##	69309.3458	4630911.1936	-467758.0278	771371.1936	109288.6053
##	4232	4233	4234	4235	4236
##	-321477.5849	657710.7126	-268169.2874	10008273.9722	3135597.9341
##	4237	4238	4239	4240	4241
##	-570777.8064	-184055.7683	-434003.2874	-343880.0278	-353325.7683
##	4242	4243	4244	4245	4246
##	-305404.8064	170729.4151	-138059.5469	263769.4151	-510559.8064
##	4247	4248	4249	4250	4251
##	-350437.7683	1279030.4531	-210079.2874	4036797.1936	-681630.3254
##	4252	4253	4254	4255	4256
##	-143074.9517	-94580.0659	272659.6434	-461218.2874	229909.9722
##	4258	4259	4260	4261	4262
##	1522063.1936	-101469.6922	-226062.4708	-622542.3254	769948.4531
##	4263	4264	4265	4267	4268
##	-70071.0278	-475887.0278	-475098.0278	-725352.5849	-144654.4708
##	4269	4272	4273	4275	4276
##	-392702.5088	-475286.0278	-725371.5849	-683799.3254	-642060.0659
##	4277	4278	4280	4281	4282
##	-725290.5849	-807619.1039	1892076.4531	-475605.0278	-591501.8064
##	4283	4284	4285	4286	4287
##	-515874.2874	-474135.0278	973001.6746	458348.4531	-599456.8064
##	4288	4289	4290	4291	4292
##	-476317.8064	-642210.0659	-679760.3254	-765015.8444	-557994.5469
##	4293	4294	4295	4296	4297
##	-747923.8444	-766954.8444	-309522.9898	-466876.0278	-305121.9898
##	4298	4299	4300	4301	4302
##	-511059.2874	-642185.0659	-683778.3254	70512.9341	-725367.5849
##	4303	4305	4306	4307	4310
##	1987489.4531	-808498.1039	-598290.8064	-683746.3254	-434270.7683
##	4311	4312	4313	4314	4315
##	-766931.8444	-558900.5469	-600577.8064	-506214.2874	-679502.3254
##	4317	4318	4319	4320	4321

##	-766953.8444	-433943.7683	-558795.5469	-724685.5849	-185358.0659
##	4322	4323	4324	4325	4326
##	2011162.6746	330031.9341	136959.4531	-389088.7683	-160428.2874
##	4327	4328	4329	4330	4331
##	141897.2317	1666691.9341	-428049.7683	636019.9722	-616396.3254
##	4332	4333	4334	4335	4336
##	-59766.4327	-802876.1039	-639259.0659	-279036.7683	-422777.7683
##	4337	4338	4339	4340	4341
##	-262458.7303	-637973.0659	667670.7126	-468644.5469	-389878.5088
##	4342	4343	4344	4345	4346
##	-557325.5469	-558974.5469	-378333.8064	-2400.5469	-600142.8064
##	4347	4348	4349	4350	4351
##	1268152.4531	1733111.9341	353252.1936	-194863.4708	-600405.8064
##	4352	4353	4354	4355	4356
##	-563407.8064	-583404.0659	158138.1936	-600045.8064	114901.2317
##	4357	4358	4359	4360	4361
##	-392646.5088	-391528.5088	-558875.5469	-808355.1039	-309262.9898
##	4362	4363	4364	4365	4366
##	-143206.9517	-350430.2493	-225500.4708	-517439.2874	5826954.9341
##	4367	4368	4369	4370	4371
##	-226001.4708	-267708.7303	-612540.3254	-225501.5088	-514674.2874
##	4372	4373	4374	4375	4376
##	-517275.2874	-434170.7683	-101095.6922	-668269.3254	231105.3839
##	4377	4378	4379	4380	4381
##	-642035.0659	-241289.0278	-517349.2874	-299530.9898	-556521.5469
##	4382	4383	4384	4385	4386
##	-360615.2874	-412215.0278	-373003.5088	-346429.2493	-568044.8064
##	4387	4388	4389	4390	4391
##	-184267.2113	-268279.7683	-600388.8064	-142276.9517	-633790.8444
##	4392	4393	4394	4395	4396
##	-641811.0659	-184199.2113	-558242.5469	-558690.5469	-475582.0278
##	4397	4398	4399	4400	4401
##	-396523.7683	-597071.8064	-302219.2493	-510694.8064	-350682.2493
##	4402	4403	4404	4405	4406
##	-486847.2874	-343686.2493	-766837.8444	-716788.5849	-558136.5469
##	4407	4408	4409	4410	4411
##	-226109.4708	-363225.5088	-517371.2874	-683637.3254	-719201.5849
##	4412	4413	4414	4415	4416
##	-641565.0659	-347183.2493	-637568.0659	-309485.9898	-226196.4708
##	4417	4418	4419	4420	4421
##	-475740.0278	-392562.5088	-475482.0278	-682331.3254	-451815.8064
##	4422	4423	4424	4425	4426
##	4508576.9341	1873153.1936	-683452.3254	-432613.7683	-589248.8064
##	4427	4428	4429	4430	4431
##	-199111.8064	-599716.8064	-433576.7683	-351103.2493	-392059.5088
##	4433	4434	4435	4436	4437
##	-309291.9898	-517471.2874	-475755.0278	-528616.5469	-536658.5469
##	4438	4439	4440	4441	4442
##	-475571.0278	-585809.8064	-350008.2493	-557000.5469	-600582.8064
##	4443	4444	4445	4446	4447

##	-350322.2493	-461527.0659	-350559.2493	-392585.5088	-6044.7683
##	4448	4449	4450	4451	4453
##	-261018.5469	6947874.9341	-600603.8064	-683777.3254	-850131.3635
##	4454	4455	4456	4457	4459
##	-600411.8064	-598615.8064	-430521.2874	-434299.7683	-517442.2874
##	4461	4462	4464	4465	4467
##	-683801.3254	-474766.0278	-392695.5088	-575804.3254	-600633.8064
##	4468	4469	4470	4471	4473
##	-392517.5088	-683801.3254	-642008.0659	-18478.1732	-267930.7303
##	4474	4475	4477	4478	4479
##	-600494.8064	2379038.6746	-557897.5469	-850134.3635	-642208.0659
##	4480	4481	4482	4484	4485
##	-475726.0278	-475175.0278	-642163.0659	-766946.8444	-641722.0659
##	4487	4488	4489	4491	4492
##	-434148.7683	-766952.8444	-309544.9898	-642035.0659	-725245.5849
##	4493	4494	4495	4496	4497
##	107742.6053	29719.0863	-448351.2874	-597610.8064	-513094.2874
##	4498	4499	4500	4501	4502
##	-184795.2113	148518.8648	-451227.0278	-545271.5469	-328821.0659
##	4503	4504	4506	4507	4508
##	-490584.2874	-9230.8064	-432118.7683	-598629.8064	-475854.0278
##	4509	4510	4511	4512	4513
##	-766966.8444	314199.9029	-350992.2493	-59415.4327	-59939.4327
##	4514	4515	4516	4517	4518
##	-346884.2493	-351034.2493	-537952.5469	-264341.7303	61658.2317
##	4519	4520	4522	4523	4524
##	97297.1936	-683746.3254	-642222.0659	480513.9409	-724928.5849
##	4525	4526	4527	4528	4529
##	-392571.5088	-600566.8064	-260626.7303	3801182.9341	-599697.8064
##	4530	4531	4532	4534	4535
##	-392676.5088	-392722.5088	-351109.2493	-512108.2874	-475760.0278
##	4536	4537	4540	4541	4542
##	-598789.8064	-594274.8064	-850131.3635	-475878.0278	-641965.0659
##	4543	4545	4546	4548	4553
##	-553377.5469	-392561.5088	-226395.4708	-101141.6922	-143188.9517
##	4554	4555	4556	4557	4558
##	-766953.8444	-634537.0659	-309542.9898	-715902.8444	-725244.5849
##	4559	4560	4561	4562	4564
##	-558969.5469	-348223.2493	-474240.0278	-725363.5849	-515781.2874
##	4567	4568	4569	4570	4571
##	7091339.6746	-506233.2874	16088058.6746	-669582.3254	-512299.2874
##	4572	4573	4574	4575	4576
##	-475848.0278	-225773.4708	-463460.0278	371932.1936	-177324.0659
##	4577	4578	4579	4580	4581
##	-460798.0278	-642134.0659	-412146.5469	-578138.8064	944484.4531
##	4582	4583	4584	4585	4586
##	-553274.5469	-350588.2493	-392396.5088	-459784.0278	-766956.8444
##	4587	4588	4589	4590	4591
##	2353244.1936	2355462.2317	-550561.5849	1449240.6746	-76429.5469
##	4592	4593	4594	4595	4596

##	-365197.7683	2527969.1936	-228749.9898	-270959.9898	-140192.9517
##	4597	4598	4599	4600	4601
##	-475820.0278	-16670.1732	-465828.0278	-18010.1732	-348848.2493
##	4602	4603	4604	4605	4606
##	-381168.7683	7178550.9341	-661031.3254	-475525.0278	-226481.7303
##	4607	4608	4609	4610	4611
##	-724425.5849	-204809.4708	-59969.4327	-254601.5088	-291043.9898
##	4612	4613	4614	4615	4616
##	-511023.2874	-582653.8064	-598870.8064	-134771.9517	-766922.8444
##	4617	4618	4619	4620	4621
##	-517331.2874	-642100.0659	-329205.2493	-474427.0278	-517346.2874
##	4622	4623	4624	4625	4626
##	-516389.2874	-432331.7683	-487721.2874	-351066.2493	-641167.0659
##	4627	4628	4629	4630	4631
##	-299075.9898	-542459.5469	-574613.0659	-469294.0278	-283889.2874
##	4632	4633	4634	4635	4636
##	-475338.0659	-340674.7683	3048123.1936	4404388.7126	-475082.5469
##	4637	4638	4639	4640	4641
##	-724815.5849	-475771.0278	-100802.6922	-392591.5088	-475457.0278
##	4642	4643	4644	4645	4646
##	-184035.2113	-18159.1732	-683151.3254	-683772.3254	-472580.0278
##	4647	4648	4649	4650	4651
##	-60001.4327	-183641.2113	-515319.2874	-517451.2874	-18245.1732
##	4652	4653	4654	4655	4656
##	231213.3839	-475327.0278	23175.0863	-433600.7683	-434114.7683
##	4657	4658	4659	4660	4661
##	-326631.2493	231471.3839	-595042.8064	-309513.9898	-558818.5469
##	4662	4663	4664	4665	4666
##	-679371.3254	-506073.2874	-756721.8444	-267077.7303	-100643.6922
##	4667	4668	4669	4670	4671
##	-433423.7683	-221826.4708	-600132.8064	189441.1244	-392637.5088
##	4672	4673	4674	4675	4676
##	-203494.8064	-408214.2874	-324800.2874	-558818.5469	-293792.0278
##	4677	4678	4679	4680	4681
##	10776421.4531	-500601.2874	-515364.2874	-386609.5088	-307152.5088
##	4682	4683	4684	4685	4686
##	430403.1936	-185425.2493	342226.9341	-513931.2874	121077.0102
##	4687	4688	4689	4690	4691
##	1056358.4531	-558517.5469	9195666.6746	-138948.9517	-267859.7303
##	4692	4693	4694	4695	4696
##	-473496.0278	-347670.2493	-142654.9517	-626300.0659	-763687.8444
##	4697	4699	4700	4701	4702
##	3333027.6746	-558156.5469	-641932.0659	-514971.2874	-351061.2493
##	4703	4704	4705	4706	4707
##	-724794.5849	-517027.2874	-556287.5469	-723391.5849	-725261.5849
##	4708	4709	4710	4711	4712
##	-267674.7303	-515017.2874	-432568.7683	-558470.5469	-723721.5849
##	4713	4714	4715	4716	4717
##	4870153.7126	-682950.3254	-766919.8444	2231382.6746	-351137.2493
##	4718	4719	4720	4721	4722

##	6547210.6746	-383536.5469	-517448.2874	864980.9341	-101616.6922
##	4723	4724	4725	4726	4727
##	1145052.4531	-556917.5469	371719.9341	1770901.1936	439019.6814
##	4728	4729	4730	4731	4732
##	-463497.8064	189445.1244	-515030.2874	-206962.5469	-434237.7683
##	4733	4734	4735	4736	4737
##	-604617.0659	-766478.8444	-505356.2874	-725323.5849	-498684.8064
##	4738	4739	4740	4741	4742
##	-600436.8064	-505561.8064	447159.6746	-558836.3254	-517129.2874
##	4743	4744	4745	4746	4747
##	-4970.0659	-432766.7683	561689.1936	574628.7126	-601607.0659
##	4748	4749	4750	4751	4752
##	-613357.3254	678467.1936	-719634.5849	-463414.2874	-599475.8064
##	4753	4754	4755	4756	4757
##	-64070.6922	-473970.0278	-434170.7683	-724587.5849	-515319.3254
##	4758	4759	4760	4761	4762
##	-663388.3254	-667022.5849	-765754.8444	-679596.3254	-505330.2874
##	4763	4764	4765	4766	4767
##	-548253.5469	212600.0483	-725239.5849	-620206.0659	-434186.7683
##	4768	4769	4770	4771	4772
##	-611709.0659	-512599.2874	-683554.3254	-454280.2874	-692775.5849
##	4773	4774	4775	4776	4778
##	-716746.5849	-517316.2874	-558545.5469	-557345.5469	-618014.0659
##	4779	4780	4781	4782	4783
##	-587905.8064	-642168.0659	-683220.3254	-558999.5469	-306512.2493
##	4784	4785	4786	4787	4788
##	-638792.0659	-631476.0659	-391814.5088	-433437.7683	107872.6053
##	4789	4790	4791	4792	4793
##	-623612.0659	-434224.7683	25252.0863	-677908.3254	-562124.8064
##	4794	4795	4796	4797	4798
##	593616.9341	-678579.3254	-319193.8064	-122889.5469	531295.1936
##	4799	4800	4801	4802	4803
##	204168.7126	732495.1556	3629285.4531	-273245.5469	-332539.3254
##	4804	4805	4806	4807	4808
##	-666870.3254	-481263.2874	-386928.2874	-401053.0278	-554770.8064
##	4809	4810	4811	4812	4813
##	4538255.9341	1990968.1936	-173456.8064	-466706.2874	6822771.9341
##	4814	4815	4816	4817	4818
##	-679385.3254	-304982.0659	-295848.3254	-204983.7683	-545153.0659
##	4819	4820	4821	4822	4823
##	336017.7126	-386836.5088	-629360.5849	94934.1936	-346794.0659
##	4824	4825	4826	4827	4828
##	-437447.5469	474374.1936	-149526.2874	-390743.5088	174218.9722
##	4829	4830	4831	4832	4833
##	314772.9029	-476033.2874	-455176.2874	65079.3458	-392585.5088
##	4834	4835	4836	4837	4838
##	-555083.5469	-766769.8444	-557404.5469	-464637.0278	-506069.2874
##	4839	4840	4841	4842	4843
##	-600335.8064	-381234.0278	-683707.3254	-487230.5469	-545455.5469
##	4844	4845	4847	4848	4850

##	-351006.2493	-765249.8444	-326950.2493	-368033.5088	-550522.5469
##	4851	4852	4853	4854	4855
##	-558879.5469	-529519.5469	-475762.0278	-453778.2874	-536381.1039
##	4856	4857	4858	4859	4860
##	-640338.0659	-430691.3254	-351138.2493	-669817.5849	-257622.0659
##	4861	4862	4863	4864	4865
##	-497987.5849	-45596.0659	-697691.8444	-664885.3254	3197945.6746
##	4866	4867	4868	4869	4870
##	-557431.5469	-763062.8444	-182714.2113	-680905.3254	2009686.1936
##	4871	4872	4873	4874	4875
##	1992380.9341	-600609.8064	-555702.8064	-646582.3254	312275.7126
##	4876	4877	4878	4879	4880
##	-510806.5469	-558948.5469	-350694.2493	-390359.5088	-558963.5469
##	4881	4882	4883	4884	4886
##	-761867.8444	-517468.2874	-641594.0659	-766443.8444	-681739.3254
##	4887	4888	4889	4891	4892
##	3328900.7126	-516944.2874	-428345.7683	658995.4531	-766177.8444
##	4893	4894	4896	4897	4898
##	-448394.0278	-725367.5849	-748366.8444	-421406.7683	-226177.4708
##	4899	4900	4901	4902	4903
##	-310214.2493	-225864.4708	-138450.9517	-267036.9898	-142764.9517
##	4904	4905	4906	4907	4908
##	-154965.2113	483766.9409	564063.4600	438985.6814	-267942.7303
##	4909	4910	4911	4912	4913
##	-177003.2113	-101245.6922	189783.1244	-725241.5849	147898.8648
##	4914	4915	4916	4917	4918
##	64722.3458	-389687.5088	-517450.2874	-392394.5088	-434301.7683
##	4919	4920	4921	4922	4923
##	-226018.4708	-56809.4327	-308524.9898	-267857.7303	-184442.2113
##	4924	4925	4926	4927	4928
##	-433864.7683	-308743.9898	522163.2005	231169.3839	-559014.5469
##	4929	4930	4931	4932	4933
##	-494186.2874	-142883.9517	-361555.0278	-409422.0278	-183369.2113
##	4934	4935	4936	4937	4938
##	-17192.1732	-18371.1732	314199.9029	-309233.9898	-308999.9898
##	4939	4940	4941	4942	4943
##	-766840.8444	-309402.9898	-264351.7303	-300051.9898	-448171.8064
##	4944	4945	4946	4947	4948
##	-346041.2493	-300344.9898	-299196.9898	-761331.8444	-515891.2874
##	4949	4950	4951	4952	4953
##	-354782.0278	1581277.6746	-461404.0278	-556083.5469	-391655.5088
##	4954	4955	4956	4957	4958
##	-350940.2493	-425543.7683	-639219.0659	-680444.3254	-465981.0278
##	4959	4960	4961	4962	4963
##	-598867.8064	-308860.9898	-373979.5088	-392623.5088	-616981.0659
##	4964	4965	4966	4967	4968
##	-642124.0659	-600322.8064	-506382.5469	-642106.0659	-716692.5849
##	4969	4970	4971	4972	4973
##	-714716.5849	-475888.0278	-142237.9517	-517273.2874	-469628.0278
##	4974	4975	4976	4977	4978

##	-184803.2113	-518818.5469	-771251.1039	-638972.0659	-475829.0278
##	4979	4980	4981	4982	4983
##	-600324.8064	-529728.5469	-600184.8064	-183264.2113	-474067.0278
##	4984	4985	4986	4987	4988
##	-475865.0278	-226086.4708	-349805.2493	-663628.3254	-606504.3254
##	4989	4990	4991	4992	4993
##	-850133.3635	-598024.3254	-497001.2874	-404604.7683	-353235.5088
##	4994	4995	4996	4997	4998
##	-309101.9898	-556888.5469	438977.6814	-516825.2874	-510504.2874
##	4999	5000	5001	5002	5003
##	-426212.7683	-538895.8064	-516517.2874	-624961.0659	-529057.5469
##	5004	5005	5006	5007	5008
##	-595379.8064	-392553.7683	-512908.2874	-540782.5469	-433591.7683
##	5009	5010	5011	5012	5013
##	-557283.5469	-384092.5088	-432895.7683	-300984.9898	-475876.0278
##	5014	5015	5016	5017	5018
##	-392621.5088	-442575.2874	-600577.8064	-642210.0659	-385742.5088
##	5019	5020	5021	5022	5023
##	-390142.5088	-517119.2874	-641420.0659	-475362.0278	-725125.5849
##	5025	5026	5027	5028	5029
##	-362182.8064	-725268.5849	-724831.5849	-416436.7683	-388004.5088
##	5031	5032	5033	5034	5036
##	-350222.2493	-392536.5088	-600627.8064	-567693.0659	-350940.2493
##	5037	5038	5039	5040	5041
##	-226324.4708	-352253.2874	-725178.5849	397468.4219	-558333.5469
##	5042	5043	5044	5045	5046
##	64679.3458	-304249.7683	-392718.5088	-512918.2874	-184789.2113
##	5047	5048	5049	5050	5054
##	-642131.0659	-725337.5849	399553.4219	-96884.8064	-725375.5849
##	5055	5056	5058	5059	5061
##	-143161.9517	-475875.0278	-437685.2874	25724.1936	-306169.9898
##	5063	5064	5065	5066	5067
##	-442290.5469	-354675.5088	-850128.3635	-468416.0278	-766924.8444
##	5068	5070	5071	5072	5074
##	-407782.7683	-399411.0278	-351142.2493	766825.6746	-497069.5469
##	5075	5076	5077	5078	5079
##	-381134.0278	-531153.3254	-423583.0278	4330920.1936	-210825.2874
##	5080	5081	5082	5083	5084
##	-452442.0278	-508166.5469	-556844.5469	-425299.7683	-642136.0659
##	5085	5086	5088	5090	5092
##	-475781.0278	-350984.2493	-642039.0659	-475810.0278	-392710.5088
##	5093	5095	5096	5098	5103
##	-309558.9898	-641601.0659	-593903.8064	-184800.2113	272588.6434
##	5104	5105	5106	5109	5118
##	-725320.5849	-184806.2113	-725385.5849	-850132.3635	-267919.7303
##	5119	5122	5126	5129	5130
##	-850105.3635	-558684.5469	-850129.3635	-475600.0278	-475883.0278
##	5131	5134	5138	5139	5140
##	-639293.0659	-184814.2113	23125.0863	-683162.3254	-850134.3635
##	5144	5145	5146	5147	5149

##	-392194.5088	-392723.5088	-850132.3635	-473897.0278	-850130.3635
##	5150	5151	5152	5154	5157
##	-18460.1732	-434308.7683	813156.0170	-434310.7683	-434308.7683
##	5159	5168	5174	5176	5179
##	-350060.2493	-224712.4708	147843.8648	-184563.2113	-596766.0659
##	5180	5181	5182	5183	5184
##	-184333.2113	-350199.2493	-18414.1732	-519714.8064	-434261.7683
##	5185	5186	5187	5188	5189
##	-392391.5088	-566833.3254	-351059.2493	-347551.2493	-434246.7683
##	5190	5191	5192	5193	5194
##	-681830.3254	-267535.7303	-575014.8064	-60032.4327	-462164.2874
##	5195	5196	5197	5198	5199
##	-683779.3254	-434215.7683	-850092.3635	-143196.9517	-475873.0278
##	5200	5201	5202	5203	5204
##	-267975.7303	-101622.6922	-598554.8064	-433783.7683	-600615.8064
##	5205	5206	5207	5208	5210
##	-600600.0659	-559039.5469	-723497.5849	-600633.8064	-534875.8064
##	5211	5212	5213	5215	5216
##	-253960.8064	-309562.9898	-141829.9517	-309562.9898	-18470.1732
##	5217	5220	5221	5222	5223
##	147929.8648	-226358.4708	-392477.5088	-683735.3254	-351059.2493
##	5224	5225	5226	5227	5228
##	-322072.3254	-597666.8064	-640660.0659	-635474.0659	-721515.5849
##	5229	5231	5234	5236	5237
##	-525897.8064	-850091.3635	172115.3458	-683775.3254	64809.3458
##	5238	5239	5240	5242	5243
##	-850123.3635	-850133.3635	64683.3458	-351140.2493	-475873.0278
##	5245	5246	5247	5249	5252
##	-766952.8444	-850126.3635	-850134.3635	-600507.8064	-850133.3635
##	5253	5255	5258	5259	5261
##	-475874.0278	-766922.8444	-766965.8444	-434294.7683	-850133.3635
##	5262	5264	5268	5269	5273
##	-664913.3254	-850131.3635	-615308.0659	-850134.3635	-599610.8064
##	5274	5276	5277	5278	5279
##	-433967.7683	-392074.5088	-475310.0278	-766949.8444	-558325.5469
##	5280	5281	5283	5284	5285
##	-392723.5088	-642187.0659	-309400.9898	248166.4531	-517155.2874
##	5286	5287	5288	5292	5293
##	-309474.9898	-351142.2493	-659835.3254	-143211.9517	-18488.1732
##	5294	5295	5296	5298	5300
##	-246799.5088	825628.7126	-392676.5088	-475874.0278	-683801.3254
##	5305	5306	5307	5309	5310
##	-600632.8064	-351077.2493	-357520.8064	-808530.1039	-234171.7303
##	5311	5312	5313	5314	5315
##	-559012.5469	-267700.7303	-393068.0278	-184016.2113	-641922.0659
##	5316	5317	5318	5319	5320
##	-725369.5849	-641765.0659	-600570.8064	-558841.5469	-465355.3254
##	5321	5322	5323	5324	5325
##	-516186.2874	-709570.8444	-399136.3254	-321214.8444	-322026.3254
##	5326	5327	5328	5329	5330

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##	5331	5332	5333	5334	5335
##	-760274.8444	-263151.7303	-551994.5849	-681152.3254	-545805.0659
##	5336	5337	5338	5339	5340
##	-711768.5849	-642025.0659	-558080.5469	-629902.0659	-737419.8444
##	5341	5342	5343	5344	5345
##	-677925.5849	-724048.5849	-670377.5849	-718272.5849	-724629.5849
##	5346	5347	5348	5349	5350
##	-227562.5849	-723611.5849	-683288.3254	-724187.5849	408004.4151
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##	-350737.2493	-474028.0278	23133.0863	-351055.2493	-225929.4708
##	5361	5362	5363	5364	5365
##	-517343.2874	-683347.3254	-600440.8064	-392140.8064	-475766.0278
##	5366	5367	5368	5369	5370
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##	5371	5372	5373	5374	5375
##	-683738.3254	-267857.7303	-388149.5088	-434276.7683	-516164.2874
##	5376	5377	5378	5379	5380
##	-515984.2874	-512940.2874	-636375.0659	-725061.5849	-192457.4708
##	5381	5382	5383	5384	5385
##	-631968.0659	50545.2317	-675802.3254	118750.7126	372443.4531
##	5386	5387	5388	5389	5390
##	-230056.0278	-574152.0659	-307160.2874	691113.9341	299106.1936
##	5391	5392	5393	5394	5395
##	-285836.9898	-194130.8064	-243669.5469	-379920.5469	-454670.5469
##	5396	5397	5398	5399	5400
##	10205457.9341	-82293.0659	-220459.2493	-407253.0659	-413487.0659
##	5401	5402	5403	5404	5405
##	-528439.8064	-722818.5849	-212256.4708	-808528.1039	-434303.7683
##	5406	5407	5409	5410	5411
##	-454672.0278	-517445.2874	-161730.8064	-473832.0278	-638035.3254
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##	-676658.3254	-706179.5849	-612729.0659	-17560.3254	1121301.1936
##	5418	5419	5420	5421	5422
##	7618944.1936	172670.7126	-21122.8064	-263339.7683	-454841.2874
##	5423	5424	5425	5426	5427
##	-394341.2874	-267280.2874	-545248.8444	-279727.9898	-183807.2113
##	5428	5429	5430	5431	5432
##	-376055.5469	-415972.5469	-30866.3254	-181091.2874	-678611.3254
##	5433	5434	5435	5436	5437
##	-383960.0278	780982.1936	-591284.3254	-513689.5469	-559372.8064
##	5438	5439	5440	5441	5442
##	-330546.5849	490534.7126	-350846.2493	-557828.5469	-308122.9898
##	5443	5444	5445	5446	5447
##	-410976.5469	54688.0863	39915.4531	-558784.5469	-370148.7683
##	5448	5449	5450	5451	5452
##	-127173.9517	-565608.0659	-475873.0278	-850132.3635	-392046.5088
##	5453	5454	5455	5456	5457

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##	5459	5460	5461	5463	5464
##	23137.0863	-517452.2874	-642201.0659	-683293.3254	-714370.5849
##	5465	5466	5467	5468	5469
##	-516801.2874	-725385.5849	-725385.5849	-392252.5088	-725333.5849
##	5470	5471	5472	5473	5474
##	-309477.9898	-766949.8444	-434174.7683	-683719.3254	-600536.8064
##	5475	5476	5477	5478	5479
##	-545893.5469	-725381.5849	-267978.7303	-600612.8064	-683736.3254
##	5480	5482	5483	5484	5486
##	23102.0863	-641982.0659	-850134.3635	-305822.9898	-309528.9898
##	5488	5489	5490	5491	5492
##	-517458.2874	-18485.1732	-850134.3635	-471232.8064	-725381.5849
##	5493	5494	5496	5497	5502
##	-536392.5469	-382616.5088	-552214.8064	-554355.5469	-683778.3254
##	5503	5504	5505	5506	5507
##	-642213.0659	-392465.5088	-725331.5849	-17398.5469	-850131.3635
##	5508	5510	5513	5515	5516
##	-850110.3635	-850134.3635	1451765.1936	106816.6053	-642806.3254
##	5517	5518	5519	5520	5521
##	16100.1936	-439004.8064	-126744.0278	-181779.2493	-381760.8064
##	5522	5523	5524	5525	5526
##	-652672.3254	-233173.0278	-398185.0659	203207.7126	-640999.5849
##	5527	5528	5529	5530	5531
##	-421363.5469	-236083.5469	-517223.2874	-350250.2493	-411877.7683
##	5532	5533	5534	5535	5536
##	-250115.5469	-667005.3254	-558153.5469	-167734.5469	-530324.5469
##	5537	5538	5539	5540	5541
##	-145228.5849	-329993.3254	-599779.8064	-351131.2493	542707.6746
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##	-664736.3254	-642106.0659	-621977.0659	-329090.5088	-574924.8064
##	5547	5548	5549	5550	5551
##	-349785.2493	-557457.5469	458177.4531	-309437.9898	-100300.6922
##	5552	5553	5554	5555	5556
##	-434101.7683	-350738.2493	-600558.8064	-349403.2493	-184688.2113
##	5557	5558	5559	5560	5561
##	23145.0863	-642204.0659	-309540.9898	-350679.2493	-450700.0278
##	5562	5563	5564	5566	5567
##	-466259.0278	-309543.9898	-267830.7303	-18473.1732	-474743.0278
##	5568	5569	5570	5571	5572
##	-351128.2493	-517448.2874	-564373.8064	-642071.0659	-267243.7303
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##	-267699.7303	-288686.9898	-316390.5088	-514914.2874	-471521.0278
##	5579	5580	5581	5582	5583
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##	5584	5585	5586	5587	5588
##	-474488.0278	-433864.7683	-547680.5469	-390673.5088	-226373.4708
##	5589	5590	5591	5592	5593
##	-267236.9898	-214776.5469	-300342.5469	-435458.0278	-465690.2874
##	5594	5595	5596	5597	5598

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##	5604	5605	5606	5607	5608
##	-477391.5469	242776.3839	228703.9341	-63311.5469	-234436.0659
##	5609	5610	5611	5612	5613
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##	5614	5615	5616	5617	5618
##	-365672.3254	-182374.2113	-327611.5088	-524161.5469	288783.1936
##	5619	5620	5621	5622	5623
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##	5624	5625	5626	5627	5628
##	-543085.8064	-480312.2874	-260185.7683	-595935.8064	-609887.3254
##	5629	5630	5631	5632	5633
##	-433780.7683	-255822.8064	-217066.4708	-583001.3254	-418437.7683
##	5634	5635	5636	5637	5638
##	-411144.7683	-473267.0278	-240409.0278	-140519.9517	-368607.5088
##	5639	5640	5641	5642	5643
##	-468167.0278	-515297.2874	-375089.7683	-626062.0659	-350552.2493
##	5644	5645	5646	5647	5648
##	-224425.4708	-552361.5469	-662540.3254	-721347.5849	-348457.2493
##	5649	5650	5651	5652	5653
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##	5654	5655	5656	5657	5658
##	-251462.7303	-309495.9898	-600613.8064	-384228.0278	-433648.7683
##	5659	5660	5661	5662	5663
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##	5669	5671	5672	5673	5674
##	-434215.7683	-350386.2493	-267925.7303	-517461.2874	-600513.8064
##	5675	5676	5679	5680	5682
##	-433814.7683	-725340.5849	-452286.0278	-410000.7683	-725331.5849
##	5685	5686	5687	5690	5692
##	-350274.2493	-850133.3635	-600614.8064	-404850.7683	-192085.2493
##	5693	5694	5696	5697	5698
##	-475601.0278	-558362.5469	5564838.9341	-600010.8064	-184202.2113
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##	5704	5705	5706	5707	5708
##	-600598.8064	-508693.8444	-143065.9517	-141802.9517	-600619.8064
##	5709	5710	5711	5712	5713
##	-308864.9898	-182399.2113	272836.6434	-143225.9517	106346.6053
##	5715	5716	5717	5718	5719
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##	5720	5721	5722	5723	5724
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##	5725	5726	5727	5728	5729
##	-517450.2874	-642200.0659	-226310.4708	-563595.0659	396554.4531
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##	-642142.0659	6155.9341	-426995.7683	-766966.8444	-557400.5469
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##	522093.2005	-540734.5469	-517469.2874	-516752.2874	-556901.5469
##	5744	5745	5746	5747	5748
##	-426594.7683	-517228.2874	-683797.3254	-446833.0278	-683795.3254
##	5749	5750	5752	5753	5756
##	-475411.0278	-434110.7683	-143196.9517	-473947.0278	-434303.7683
##	5759	5760	5761	5762	5764
##	-600589.8064	-517183.2874	-315576.2493	-39099.4327	-850130.3635
##	5765	5766	5767	5768	5769
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##	5770	5771	5773	5774	5775
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##	5776	5777	5778	5779	5780
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##	-725334.5849	-492702.2874	-513632.2874	-309321.9898	-460130.0278
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##	-475590.0278	-351007.2493	-679260.3254	-600620.8064	-516553.2874
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##	5819	5820	5821	5822	5823
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##	5824	5826	5827	5828	5829
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##	5830	5831	5832	5837	5843
##	-766859.8444	-642213.0659	-559047.5469	-308352.9898	-558987.5469
##	5845	5848	5849	5850	5851
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##	-394533.7683	-179794.7683	88661.4531	-428576.2874	-493913.5469
##	5867	5868	5869	5870	5871
##	-412926.2874	-575903.0659	-529789.5469	68104.6746	-599121.8064
##	5872	5873	5874	5875	5876
##	-517380.2874	-506390.2874	-491051.2874	-182487.2113	-98926.6922
##	5877	5878	5879	5880	5881
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##	5882	5884	5885	5886	5887
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##	5888	5889	5890	5891	5893
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##	5914	5915	5916	5917	5918
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##	5920	5921	5923	5927	5929
##	-226205.4708	-517457.2874	-725085.5849	-766947.8444	-641998.0659
##	5930	5931	5932	5933	5934
##	-683740.3254	-683774.3254	-808268.1039	-765479.8444	-434299.7683
##	5935	5936	5937	5938	5939
##	-392138.5088	-475714.0278	-475205.0278	-641997.0659	-517190.2874
##	5940	5941	5942	5945	5947
##	-433635.7683	-600614.8064	438922.6814	-309539.9898	-437651.2874
##	5948	5949	5950	5951	5953
##	-430665.7683	-316963.5469	190283.1244	2851888.1936	-292592.9898
##	5954	5955	5956	5957	5958
##	-723964.5849	-514145.3254	-600469.8064	-551618.5469	-600586.8064
##	5959	5960	5961	5962	5963
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##	5964	5965	5966	5967	5969
##	-18480.1732	-474225.2874	-309073.9898	-850130.3635	-517469.2874
##	5970	5971	5972	5973	5974
##	-766966.8444	-600634.8064	-439744.0278	-725275.5849	-717045.5849
##	5975	5976	5979	5980	5981
##	-143209.9517	-434103.7683	813156.0170	-600259.8064	-517472.2874
##	5982	5983	5984	5985	5987
##	-600633.8064	-656671.3254	-559039.5469	-600634.8064	-309545.9898
##	5988	5989	5990	5991	5994
##	23099.0863	-434311.7683	-600529.8064	-143222.9517	-517473.2874
##	5995	5996	5997	5998	6000
##	-635994.0659	272588.6434	-850131.3635	-267978.7303	-255353.5088
##	6001	6002	6003	6004	6005
##	-593180.8064	-517357.2874	-766953.8444	-519950.5469	-511489.2874
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##	-590300.8064	-558866.5469	-434291.7683	646870.9790	-141760.9517
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##	-558520.5469	-683776.3254	-725099.5849	-516937.2874	-388234.5088
##	6017	6018	6019	6020	6021
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##	6022	6023	6024	6025	6026
##	-143220.9517	-517472.2874	-808504.1039	-517436.2874	-682568.3254
##	6027	6028	6029	6030	6031
##	-475690.0278	-683794.3254	-433838.7683	-517408.2874	-850133.3635
##	6032	6033	6034	6035	6036
##	-475866.0278	-305494.9898	-475753.0278	-351045.2493	-725376.5849
##	6037	6038	6039	6040	6041
##	-223054.4708	-433329.7683	-517414.2874	-141248.9517	-309536.9898
##	6042	6043	6044	6045	6046

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##	-766964.8444	-600634.8064	-808540.1039	-433345.7683	-596245.8064
##	6052	6053	6054	6055	6056
##	-449373.0659	-800135.1039	-591198.8064	2555842.1936	-850115.3635
##	6057	6058	6059	6060	6061
##	-766183.8444	-682968.3254	-556253.5469	-285115.2493	-551502.5469
##	6062	6063	6064	6065	6066
##	-559015.5469	-475335.0278	-588134.0659	-514374.2874	-302603.2493
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##	-559041.5469	2850369.1936	101084.7126	-513147.2874	133077.7507
##	6072	6073	6074	6075	6076
##	-489087.2874	-434234.7683	-517410.2874	-557479.5469	-2130.5469
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##	-600495.8064	810192.4151	-473375.0278	-82627.0659	-212110.2874
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##	-430692.5469	-496732.8064	-565616.0659	-283216.5469	-394168.2874
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##	-170405.7683	-184787.2113	-598792.8064	-351085.2493	-18451.1732
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##	-475754.0278	-597575.8064	-475633.0278	-475639.0278	-447003.0278
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##	-600634.8064	-766966.8444	-725366.5849	-599998.8064	-683719.3254
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##	-683531.3254	272635.6434	-561005.0659	-766954.8444	-850130.3635
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##	-350748.2493	-475880.0278	-50066.4327	-270772.2874	-15771.1732
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##	-766705.8444	-309515.9898	-59960.4327	-683259.3254	23425.0863
##	6901	6902	6903	6904	6906
##	-517148.2874	-724683.5849	-642154.0659	64722.3458	-597802.8064
##	6907	6908	6909	6910	6911
##	-600545.8064	-473847.0278	-683758.3254	-18423.1732	-475831.0278
##	6912	6914	6915	6920	6921
##	-419587.2874	-600625.8064	-367695.5088	-500445.5469	-642220.0659
##	6922	6923	6924	6925	6926
##	-642220.0659	-267926.7303	397340.4219	-434271.7683	-640848.0659
##	6927	6928	6930	6931	6932
##	-434301.7683	-557961.5469	-642155.0659	-766929.8444	-642149.0659
##	6935	6936	6937	6940	6943
##	-517460.2874	-629652.0659	-599692.3254	-392525.5088	-558928.5469
##	6944	6945	6946	6947	6948
##	-392411.5088	-545995.5469	-309445.9898	-725385.5849	-559017.5469
##	6949	6950	6952	6954	6958
##	522100.2005	-642123.0659	-725385.5849	-850131.3635	-683723.3254
##	6959	6961	6962	6964	6965
##	23111.0863	-766959.8444	272588.6434	-350974.2493	-517472.2874
##	6967	6969	6970	6971	6972
##	-600090.8064	-395864.7683	-453113.0278	-184814.2113	-473177.5469
##	6973	6974	6975	6976	6977
##	-383245.7683	-504472.2874	-475764.0278	-724992.5849	-475784.2874
##	6978	6979	6980	6981	6982
##	-253991.5088	-259503.2493	-475854.0278	-409980.2874	-350849.2493
##	6983	6984	6985	6986	6987
##	-704853.5849	-301901.9898	-533107.5469	-434290.7683	-465686.2874
##	6988	6989	6990	6991	6992
##	-658062.3254	-724875.5849	-583080.5849	-504838.5469	-515246.2874
##	6993	6994	6995	6996	6997
##	-225021.4708	-312644.5849	-712604.5849	-639638.0659	-641232.0659
##	6998	6999	7000	7001	7002
##	-700831.5849	-667765.3254	-416577.3254	-752830.1039	-503121.2874
##	7003	7004	7005	7006	7007
##	-558062.5469	890080.1936	-577167.8064	-629931.0659	-557042.5469
##	7008	7009	7010	7011	7012
##	-597053.8064	-599874.8064	-17211.1732	-744680.8444	-691109.5849
##	7013	7014	7015	7016	7017
##	-676464.3254	-434003.7683	-308087.9898	-225594.4708	111962.6053
##	7018	7019	7020	7021	7022
##	-542045.5849	-475682.0278	-636743.0659	-683037.3254	-596772.0659
##	7023	7024	7025	7026	7027
##	-600352.8064	-446836.5469	-598541.8064	-639782.0659	-671772.3254
##	7028	7029	7030	7031	7032
##	-717124.5849	-681829.3254	-59767.4327	-385827.5088	-662827.5849
##	7033	7034	7036	7037	7038
##	-674790.3254	-683763.5849	-850133.3635	-592208.8064	-766244.8444
##	7040	7042	7043	7044	7045

##	-475887.0278	-558231.5469	-600629.8064	-725381.5849	-434308.7683
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##	-184083.2113	-683791.3254	64707.3458	-59651.4327	-392468.5088
##	7055	7056	7058	7060	7063
##	-517408.2874	-577241.0659	-475835.0278	-517465.2874	-142681.9517
##	7064	7066	7067	7068	7069
##	-600566.8064	-600605.8064	-683786.3254	-581429.8064	-642210.0659
##	7070	7071	7072	7073	7076
##	-475849.0278	314190.9029	-517446.2874	-766966.8444	-101530.6922
##	7077	7078	7079	7080	7081
##	-558768.5469	82604.2317	-683785.3254	-600069.8064	-610603.0659
##	7083	7086	7087	7089	7090
##	-184728.2113	-142548.9517	-510477.2874	231019.3839	-101600.6922
##	7091	7092	7094	7095	7096
##	-59968.4327	-351109.2493	-766896.8444	-309558.9898	-512014.2874
##	7097	7098	7099	7100	7101
##	-307471.9898	-18485.1732	-392674.5088	-434007.7683	-850123.3635
##	7103	7104	7105	7106	7107
##	-416314.7683	106345.6053	-59708.4327	-474994.0278	196513.9341
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##	-434307.7683	-329363.2493	-351143.2493	-559053.5469	-226019.4708
##	7113	7114	7116	7119	7120
##	-642128.0659	-392603.5088	-640916.0659	-143233.9517	-471357.0278
##	7123	7125	7126	7127	7128
##	-850134.3635	-308649.9898	-766964.8444	605300.7195	-850122.3635
##	7129	7132	7133	7135	7137
##	-683780.3254	-850130.3635	-725377.5849	-725362.5849	-850128.3635
##	7138	7140	7143	7144	7145
##	-642026.0659	-850134.3635	-850130.3635	-517460.2874	813158.0170
##	7146	7147	7148	7149	7150
##	-642210.0659	-516955.2874	-850130.3635	-517466.2874	-399215.8064
##	7151	7152	7153	7156	7160
##	-392686.5088	-657668.3254	-299625.2493	-434103.7683	-683754.3254
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##	-184782.2113	-850125.3635	-677329.3254	-850127.3635	-18228.1732
##	7178	7179	7180	7187	7188
##	-351078.2493	-516469.2874	-559047.5469	-600636.8064	-101627.6922
##	7192	7193	7194	7195	7196
##	-226246.4708	-600562.8064	-642162.0659	-309375.9898	-850132.3635
##	7197	7198	7199	7201	7202
##	-640532.0659	-642212.0659	-474752.0278	-184803.2113	-475707.0278
##	7205	7206	7207	7208	7210
##	-850134.3635	-517449.2874	-472462.0278	-473212.0278	-517432.2874
##	7211	7213	7214	7216	7217
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##	7237	7238	7239	7240	7241
##	-595740.8064	-683647.3254	64762.3458	-850131.3635	-552864.8064
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##	7259	7261	7262	7267	7268
##	-850133.3635	-558936.5469	-559043.5469	314173.9029	749002.6746
##	7271	7274	7281	7282	7283
##	-850131.3635	-725382.5849	-725376.5849	-226108.4708	-558942.5469
##	7284	7285	7286	7287	7288
##	-216617.7303	-558994.5469	-267934.7303	147851.8648	-725373.5849
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##	7302	7303	7304	7305	7308
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##	7310	7311	7314	7315	7316
##	-517473.2874	-475828.0278	-267970.7303	-559045.5469	-475580.0278
##	7317	7320	7321	7322	7324
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##	7325	7326	7327	7328	7329
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##	-371886.8064	-305186.9898	-555913.5469	-434133.7683	-392685.5088
##	7337	7338	7339	7341	7342
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##	-707527.5849	-723741.5849	-392459.5088	-723441.5849	-720460.5849
##	7363	7364	7365	7366	7367
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##	-850131.3635	-16799.1732	-392723.5088	-683786.3254	-683742.3254
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##	7414	7415	7416	7417	7418
##	231224.3839	-529729.5469	-362740.5088	438990.6814	-251679.8064
##	7419	7420	7421	7422	7423
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##	7424	7425	7426	7427	7428
##	-517472.2874	-515378.2874	65696.3458	-513403.2874	813160.0170
##	7429	7430	7431	7432	7434

##	-391807.5088	-321376.0278	-475688.0278	-101642.6922	-850130.3635
##	7436	7437	7438	7439	7440
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##	-301680.9898	-18770.5849	64755.3458	-725167.5849	-557695.5469
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##	7466	7467	7468	7469	7470
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##	-683737.3254	-725378.5849	-475865.0278	-422403.0659	-559056.5469
##	7478	7479	7480	7481	7483
##	-850134.3635	-850128.3635	-516062.2874	-434284.7683	-850132.3635
##	7484	7485	7488	7490	7491
##	106259.6053	-473728.0278	-456096.8064	-558955.5469	-126392.0278
##	7492	7493	7496	7497	7498
##	-705387.5849	-600607.8064	-267883.7303	-431832.7683	-474607.0278
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##	-423538.7683	-475834.0278	-434193.7683	3895083.6746	-850088.3635
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##	7513	7514	7515	7516	7518
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##	7519	7520	7521	7524	7525
##	147846.8648	-214877.8064	-407964.5469	-725369.5849	64678.3458
##	7526	7528	7531	7534	7535
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##	7536	7537	7538	7539	7540
##	-725382.5849	24175610.4151	6017040.6746	-701586.5849	2406873.6746
##	7541	7542	7543	7544	7545
##	1562572.6746	-598310.3254	-421730.3254	-612066.3254	-434278.8064
##	7546	7547	7548	7549	7550
##	-347807.2493	-475052.0278	-181930.2113	-529742.0659	-638235.0659
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##	7547849.9341	-433993.7683	-640309.5849	353148.1936	-590548.8064
##	7556	7557	7558	7559	7560
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##	7566	7567	7568	7569	7570
##	-600633.8064	-600612.8064	-556149.5469	-143220.9517	-267610.7303
##	7571	7572	7573	7574	7575
##	-615044.0659	-641910.0659	163337.6746	-559049.5469	-267034.7303
##	7576	7577	7578	7579	7580
##	-558883.5469	-594370.8064	-451669.0278	-515118.2874	-766918.8444
##	7581	7583	7584	7585	7586

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##	7587	7588	7589	7590	7591
##	-663343.3254	-642139.0659	-703409.5849	361511.4531	-556796.5469
##	7592	7593	7594	7595	7596
##	-678411.3254	-445451.0278	-260561.2874	-521546.5469	-476630.2874
##	7597	7598	7599	7600	7601
##	-463014.5469	-246550.7303	-435472.2874	-397442.2874	-427926.7683
##	7602	7603	7604	7605	7606
##	-640492.3254	-534431.5469	-560943.8064	-520691.0659	-548283.5469
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##	7617	7618	7619	7620	7621
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##	7622	7624	7625	7626	7627
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##	7628	7629	7631	7632	7633
##	-641515.0659	-391743.5088	-561223.0659	-226242.4708	-267402.7303
##	7634	7635	7636	7637	7638
##	438926.6814	-558972.5469	-101577.6922	563669.4600	-517456.2874
##	7639	7640	7641	7642	7644
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##	7656	7657	7658	7659	7660
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##	7667	7668	7669	7670	7671
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##	7672	7673	7674	7675	7676
##	-267803.7303	-681125.3254	-683799.3254	-517226.2874	-549594.5469
##	7677	7678	7679	7681	7683
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##	-559044.5469	-309558.9898	-499907.5469	-556188.5469	106292.6053
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##	-514230.2874	-600507.8064	-725333.5849	-683584.3254	-314944.7683
##	7747	7750	7751	7752	7753
##	190127.1244	-346596.2493	-724889.5849	-534094.0659	-390720.3254
##	7754	7755	7756	7757	7759
##	-675028.3254	-850118.3635	-392701.5088	-850127.3635	272980.6434
##	7761	7762	7763	7764	7765
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##	7766	7767	7768	7769	7770
##	-482791.8064	-515832.3254	-514847.2874	-595885.8064	-559046.5469
##	7771	7772	7773	7774	7775
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##	7777	7778	7780	7781	7782
##	-351132.2493	-633378.5849	-184617.2113	-573998.0659	-472449.0278
##	7783	7784	7785	7786	7787
##	-558762.5469	-680700.3254	-552981.5469	-558840.5469	-434130.7683
##	7789	7790	7792	7793	7794
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##	7795	7796	7797	7798	7799
##	-681639.3254	-598221.8064	-60020.4327	-481342.5469	-143233.9517
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##	7807	7808	7809	7810	7811
##	813156.0170	-601896.0659	818815.6746	-536286.5469	-574283.8064
##	7812	7813	7814	7815	7816
##	-423732.0278	-343178.0659	-476388.2874	-309540.9898	-474876.0278
##	7817	7818	7819	7820	7821
##	-392393.5088	-639698.0659	-265655.7303	-100999.6922	-226276.4708
##	7822	7823	7824	7825	7826
##	-309132.9898	-683780.3254	-766937.8444	-470949.0278	-584182.8064
##	7827	7829	7830	7831	7832
##	-558960.5469	-434299.7683	-59057.4327	-517266.2874	-475820.0278
##	7834	7835	7836	7837	7838
##	-211578.4708	-550391.5469	-351096.2493	-446494.5469	-766954.8444
##	7839	7840	7841	7842	7843
##	272863.6434	-558934.5469	-600433.8064	-267200.7303	-850092.3635
##	7845	7846	7847	7848	7849
##	-558848.5469	-517315.2874	-544455.5469	-725228.5849	-389477.5088
##	7850	7851	7852	7853	7854
##	-600210.8064	-600181.8064	-558812.5469	147923.8648	-558614.5469
##	7856	7857	7858	7859	7860
##	-350580.2493	-517132.2874	-517471.2874	-475885.0278	-434276.7683
##	7861	7862	7864	7865	7866
##	-600634.8064	-725382.5849	147851.8648	-559052.5469	-850132.3635
##	7867	7868	7869	7870	7871
##	-309559.9898	-558997.5469	-475854.0278	-559037.5469	-350614.2493
##	7872	7873	7876	7877	7878

##	-642206.0659	-850130.3635	-392690.5088	-350877.2493	-683620.3254
##	7880	7881	7882	7884	7886
##	-683778.3254	-725073.5849	-850129.3635	-642206.0659	-559049.5469
##	7887	7888	7890	7891	7893
##	-222413.4708	-143217.9517	-758779.8444	-392646.5088	-642138.0659
##	7895	7896	7897	7900	7901
##	-184784.2113	-850131.3635	-850134.3635	-766958.8444	-267948.7303
##	7903	7904	7905	7906	7907
##	-558366.5469	-433965.7683	-641371.0659	-683758.3254	-719180.5849
##	7908	7909	7910	7911	7912
##	-350668.2493	-184524.2113	-723014.5849	-434059.7683	-682575.3254
##	7913	7914	7915	7916	7917
##	397539.4219	-558828.5469	397646.4219	-267866.7303	-721727.5849
##	7918	7919	7920	7921	7922
##	-225596.4708	-433580.7683	-226145.4708	-558736.5469	-475699.0278
##	7923	7924	7925	7926	7927
##	-681814.3254	-350226.2493	-554769.5469	-351039.2493	813157.0170
##	7928	7929	7930	7931	7932
##	-350676.2493	-142893.9517	-766475.8444	-18486.1732	-406176.7683
##	7933	7934	7935	7936	7937
##	-267091.7303	-338481.2493	-518152.5469	83213.4912	-402301.2874
##	7938	7939	7940	7941	7942
##	10298043.6746	-313230.7683	-637653.0659	-667976.3254	-683593.3254
##	7943	7944	7945	7946	7947
##	-641599.0659	-305808.9898	-591086.8064	-683036.3254	-392642.5088
##	7948	7949	7950	7951	7952
##	-598494.8064	-642176.0659	-638252.0659	-558685.5469	-309452.9898
##	7953	7954	7955	7956	7957
##	-392693.5088	-392591.5088	-556756.5469	-475406.0278	-475472.0278
##	7958	7959	7960	7961	7962
##	-600627.8064	-579720.8064	-516646.2874	-614404.0659	-683562.3254
##	7963	7964	7965	7966	7967
##	-600397.8064	-600616.8064	-589331.8064	-350945.2493	147918.8648
##	7968	7969	7970	7971	7972
##	-516762.2874	-600616.8064	-517402.2874	-434299.7683	-516884.2874
##	7973	7974	7975	7976	7977
##	-434198.7683	-600610.8064	-641808.0659	-101540.6922	-558319.5469
##	7978	7979	7980	7981	7983
##	-184797.2113	272627.6434	-593644.8064	-559025.5469	-558063.5469
##	7984	7985	7986	7987	7988
##	-267858.7303	-681251.3254	-517423.2874	-434300.7683	-312432.8064
##	7989	7990	7991	7992	7993
##	-625833.0659	-101630.6922	522446.2005	314221.9029	-346064.2493
##	7994	7996	7997	7998	7999
##	-766964.8444	-434985.8064	-638289.0659	-766960.8444	-683157.3254
##	8000	8001	8002	8003	8004
##	-309399.9898	-600627.8064	-214197.4708	-351143.2493	-351139.2493
##	8005	8007	8009	8011	8013
##	-559047.5469	-683541.3254	-642222.0659	-280336.9898	-766629.8444
##	8014	8015	8016	8017	8019

##	-558806.5469	-850123.3635	-361178.5088	-18489.1732	-850134.3635
##	8021	8022	8023	8024	8025
##	-588002.8064	-683712.3254	-391294.5088	-143221.9517	-471382.0278
##	8026	8027	8028	8029	8030
##	-18486.1732	-510693.2874	-517209.2874	-516340.2874	-114535.7683
##	8031	8032	8033	8034	8035
##	-434285.7683	-98585.6922	-683727.3254	-80811.6922	-338221.0278
##	8036	8037	8038	8039	8040
##	-92808.9517	-600593.8064	-432893.7683	-517459.2874	-475833.0278
##	8041	8042	8043	8044	8045
##	-559010.5469	-139167.9517	-725213.5849	-600578.8064	-60025.4327
##	8046	8047	8048	8049	8050
##	-60053.4327	-142797.9517	-392720.5088	-184807.2113	-392717.5088
##	8051	8052	8053	8054	8055
##	-600620.8064	-392719.5088	-308747.9898	-642220.0659	-725346.5849
##	8057	8059	8060	8062	8064
##	-683659.3254	-850032.3635	-18488.1732	-392213.5088	-850132.3635
##	8065	8072	8074	8075	8076
##	-392718.5088	-351129.2493	-261923.7303	-392076.5088	-350832.2493
##	8078	8083	8084	8085	8086
##	-766799.8444	1817523.1936	-567084.0659	-433925.7683	-708537.5849
##	8087	8088	8089	8090	8091
##	-766953.8444	-724949.5849	-183656.5849	-642197.0659	-434265.7683
##	8093	8096	8097	8099	8100
##	-101463.6922	-725349.5849	-642220.0659	-642131.0659	-808496.1039
##	8101	8102	8103	8105	8108
##	-517295.2874	-850132.3635	-850133.3635	-850133.3635	-470137.2874
##	8109	8112	8116	8117	8118
##	-725385.5849	-560722.0659	-433681.0659	-632065.0659	-351091.2493
##	8119	8121	8122	8123	8124
##	-557209.0659	-556809.5469	-386530.5088	-392618.5088	-517251.2874
##	8125	8126	8127	8128	8129
##	-642010.0659	-464716.0278	-378763.8064	-474381.0278	-683336.3254
##	8130	8131	8132	8133	8134
##	-143176.9517	-642213.0659	315043.9029	-600504.8064	-392613.5088
##	8135	8136	8137	8139	8142
##	-610210.0659	65863.3458	-140434.9517	-585815.0659	-59905.4327
##	8143	8144	8145	8147	8150
##	-101256.6922	-598901.8064	-474523.0278	-850133.3635	-351017.2493
##	8153	8154	8157	8158	8159
##	-558972.5469	-679843.3254	-307190.9898	-808546.1039	-556838.5469
##	8160	8163	8164	8165	8167
##	-850133.3635	23122.0863	-600627.8064	-584888.8064	-682165.3254
##	8168	8169	8171	8172	8173
##	-637996.0659	-425005.7683	-225250.4708	-754570.8444	-238420.8444
##	8174	8175	8176	8177	8178
##	-191064.4708	-582630.5849	1990244.6746	-599875.8064	-437049.5469
##	8179	8180	8181	8182	8183
##	-588848.5849	-466229.8064	-106398.7683	-187577.4708	-512789.3254
##	8184	8185	8186	8187	8188

##	-386441.5088	-176878.4708	-423279.3254	-98102.2874	-446992.8064
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##	-681342.3254	-340414.7683	-475287.2874	-351096.2493	-55377.0278
##	8194	8195	8196	8197	8198
##	-30142.5469	-324536.8064	-179610.0659	-436000.0278	276580.7126
##	8199	8200	8201	8202	8203
##	-314627.7683	-267682.7303	-143000.9517	-636395.5849	-345064.3254
##	8204	8205	8206	8208	8209
##	-642201.0659	-388161.5088	-559028.5469	-392527.5088	-558235.5469
##	8212	8213	8214	8215	8216
##	-60053.4327	-600632.8064	-303051.9898	-683769.3254	-683652.3254
##	8217	8220	8221	8222	8223
##	106263.6053	-475825.0278	-517018.2874	439093.6814	-683789.3254
##	8225	8227	8228	8229	8230
##	-517212.2874	-600520.8064	-517377.2874	-392666.5088	231040.3839
##	8231	8232	8234	8235	8236
##	-850130.3635	-392709.5088	-309487.9898	-850130.3635	-430989.7683
##	8237	8238	8239	8240	8241
##	-18489.1732	-475866.0278	-766949.8444	-642191.0659	-226388.4708
##	8245	8246	8247	8248	8249
##	-641270.0659	-286611.0659	-491804.2874	-54294.5469	1840235.1936
##	8250	8251	8252	8253	8254
##	-593926.8064	-515969.5469	-514920.2874	-641287.0659	-419514.5469
##	8255	8256	8257	8258	8259
##	-536726.5469	-517228.2874	-808436.1039	-430244.0278	646858.9790
##	8260	8261	8262	8264	8265
##	-418122.7683	-850101.3635	1909855.4531	-213371.2874	-559048.5469
##	8266	8267	8268	8269	8270
##	-351110.2493	-474709.0278	-517457.2874	-392747.5469	-475849.0278
##	8271	8272	8273	8274	8275
##	-558931.5469	-267725.7303	-294304.5469	1670235.6746	-593746.8064
##	8276	8277	8278	8280	8282
##	-850113.3635	-600481.8064	-640784.0659	-725310.5849	-850132.3635
##	8285	8286	8287	8288	8289
##	-184760.2113	-60056.4327	-641885.0659	-850134.3635	-558979.5469
##	8290	8291	8292	8293	8294
##	-413993.8064	-332518.5469	-328167.2874	-359815.7683	-377964.0659
##	8295	8296	8297	8298	8299
##	-384203.7683	-421861.0278	-303762.2493	-291272.5469	-282595.3254
##	8300	8301	8302	8303	8304
##	22998.9722	-549910.5469	-367438.5469	-484628.2874	-307373.5469
##	8305	8306	8307	8308	8309
##	-348635.8064	-116859.8064	-364036.5088	958335.4531	143397.9341
##	8310	8311	8312	8313	8314
##	-324470.5469	-113218.4708	433957.7126	-430285.0278	-218364.0278
##	8315	8316	8317	8318	8321
##	-526908.5849	-266228.0659	8865.0483	-500369.2874	-291024.2874
##	8322	8324	8325	8326	8327
##	-682042.3254	-559035.5469	-558865.5469	-434311.7683	-721980.5849
##	8328	8336	8337	8344	8348

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##	8362	8363	8364	8365	8366
##	-308897.9898	-517007.2874	-267945.7303	-267978.7303	355764.1624
##	8367	8368	8369	8370	8371
##	-715070.5849	-101615.6922	-18471.1732	-559000.5469	-18486.1732
##	8372	8373	8374	8375	8376
##	-559049.5469	-339429.5088	-143224.9517	-558864.5469	-433826.7683
##	8377	8378	8379	8380	8381
##	-309562.9898	64701.3458	-589855.8064	-850134.3635	-392672.5088
##	8382	8383	8384	8386	8387
##	-517434.2874	-766964.8444	-427306.7683	-18488.1732	-642216.0659
##	8388	8389	8392	8393	8395
##	147960.8648	-850131.3635	-850134.3635	-475352.0278	-642171.0659
##	8396	8397	8398	8399	8400
##	-850132.3635	-317799.5849	-538156.0659	-38296.8064	3340487.1936
##	8401	8402	8403	8404	8405
##	-244285.5469	-515599.2874	-18486.1732	-397753.0278	-191435.2874
##	8406	8407	8408	8409	8410
##	-482305.2874	-405679.7683	-227367.5469	-472368.0278	-267832.7303
##	8411	8412	8413	8414	8416
##	-557929.5469	-850134.3635	-491170.2874	-386280.5088	-446508.0278
##	8417	8418	8419	8420	8421
##	-350980.2493	-850129.3635	-270798.9898	-553436.5469	-507037.2874
##	8422	8423	8424	8425	8427
##	-401062.5469	189502.1244	-475514.5469	-558572.8064	-524997.5469
##	8428	8429	8430	8431	8433
##	-515993.2874	-531411.3254	-430597.7683	24067.0863	-246134.0659
##	8434	8435	8437	8438	8439
##	-308191.5849	-351125.2493	-258893.5849	-351047.5088	-545566.0659
##	8440	8441	8442	8443	8444
##	5572201.4151	-229336.0659	-289679.2874	-327613.5469	-297247.8064
##	8445	8446	8447	8448	8449
##	-727902.8444	3391554.7126	-264275.0278	-636198.0659	-600893.0659
##	8450	8451	8452	8453	8454
##	-655699.3254	-48006.8064	-258159.0278	1089455.4531	-669436.5849
##	8455	8456	8457	8458	8459
##	328078.1936	91708.7126	211941.4531	-24492.0659	-62662.5469
##	8460	8461	8462	8463	8464
##	-434347.8444	-270906.0659	-467293.3254	-28723.5849	259436.1936
##	8465	8466	8467	8468	8469
##	-469898.0278	-558263.5469	-515464.2874	-514552.2874	-246888.7303
##	8470	8471	8472	8473	8474
##	64695.3458	-392700.5088	-351138.2493	-599013.8064	-309523.9898
##	8475	8476	8477	8478	8479
##	106324.6053	-351082.2493	-101225.6922	-392475.5088	272594.6434
##	8480	8481	8482	8483	8484
##	-475339.0278	-557672.5469	-59880.4327	-683491.3254	-475214.0278
##	8485	8486	8487	8488	8492

##	-600632.8064	-94902.6922	-641561.0659	-307454.9898	-599933.8064
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##	-641692.0659	-850133.3635	-766965.8444	-683682.3254	-434311.7683
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##	-456507.0278	-475691.0278	-766905.8444	-559056.5469	65525.3458
##	8512	8513	8514	8515	8516
##	-718883.5849	-72497.0659	-426291.2874	513505.4531	-230654.2493
##	8517	8518	8519	8520	8521
##	-350511.2493	-473800.2874	-272016.2493	-394630.7683	-415834.7683
##	8522	8523	8524	8525	8526
##	-683794.3254	-401433.7683	-558974.5469	-559036.5469	-358118.5088
##	8527	8528	8529	8530	8531
##	-850133.3635	-433719.7683	-222688.0278	-369382.5088	-517344.2874
##	8532	8533	8534	8535	8536
##	-512817.5469	-601757.0659	-584449.8064	-475093.0278	-458496.2874
##	8537	8538	8539	8540	8541
##	-642047.0659	-535091.3254	-451330.0278	-391408.5088	-665756.5849
##	8542	8543	8544	8545	8546
##	-383950.5088	-520452.5469	23182.0863	-600358.8064	-309510.9898
##	8547	8548	8550	8551	8552
##	-600616.8064	-474953.0278	64685.3458	-808535.1039	-184775.2113
##	8553	8554	8555	8556	8558
##	64728.3458	189871.1244	-725337.5849	-60022.4327	-101643.6922
##	8559	8560	8561	8562	8564
##	-559044.5469	-392703.5088	-267976.7303	-101648.6922	-226390.4708
##	8565	8570	8571	8572	8573
##	-143172.9517	231035.3839	-594656.8064	64679.3458	-850132.3635
##	8575	8583	8585	8586	8587
##	-600215.8064	-850132.3635	-143158.9517	23153.0863	-475839.0278
##	8588	8590	8591	8592	8593
##	-683788.3254	314327.9029	-558554.5469	-850115.3635	191476.1244
##	8595	8596	8597	8602	8605
##	-18461.1732	-308771.9898	-850134.3635	-850123.3635	-475806.0278
##	8609	8610	8611	8612	8614
##	-474990.0278	148658.8648	-671934.3254	-573211.0659	-278211.0659
##	8616	8618	8619	8620	8621
##	-142529.9517	-587562.8064	-720532.5849	-722478.5849	-430567.7683
##	8622	8623	8624	8625	8626
##	-640192.0659	-558463.5469	-683640.3254	-268914.5849	-333246.8064
##	8627	8628	8629	8630	8631
##	-388953.7683	-492050.2874	256914.4531	-461463.0278	-343370.0659
##	8632	8633	8634	8635	8636
##	-504539.5469	-332764.5469	-472233.5849	-468832.0278	-9159.5469
##	8637	8638	8639	8640	8641
##	90832.1936	-58999.4327	-280204.7683	-518812.0659	-486226.0659
##	8642	8643	8644	8645	8646
##	-528480.8064	-487186.2874	-279196.3254	-557553.8064	-677486.3254
##	8647	8648	8649	8650	8651
##	-163098.7683	-669717.3254	-532607.5469	-552939.5469	-384929.5088
##	8652	8653	8654	8655	8656

##	-584775.0659	-717822.5849	-554410.5469	-658436.3254	-673322.3254
##	8657	8658	8659	8660	8661
##	-514940.2874	-554618.5469	1717210.6746	-431305.2874	-475234.0278
##	8662	8663	8664	8665	8666
##	-675837.3254	-599953.8064	-252901.9898	-598346.8064	-391440.5088
##	8667	8668	8669	8670	8671
##	-543441.5469	-292625.5469	-547657.5469	-641217.0659	-240576.0659
##	8672	8673	8674	8675	8676
##	-634031.0659	-642127.0659	-724273.5849	-557206.5469	-599018.8064
##	8677	8678	8679	8680	8681
##	-641437.0659	-559041.5469	-557137.5469	-517302.2874	-516693.2874
##	8682	8683	8684	8685	8686
##	-557776.5469	-517410.2874	-714602.5849	-475272.0278	-559020.5469
##	8687	8688	8689	8690	8692
##	-475602.0278	-346335.2493	-642212.0659	-472892.0278	-559011.5469
##	8693	8694	8695	8696	8697
##	-642208.0659	-475807.0278	-600592.8064	-558365.5469	-600007.8064
##	8698	8700	8701	8702	8703
##	-558928.5469	-475839.0278	-683140.3254	-725363.5849	-517384.2874
##	8704	8705	8706	8707	8708
##	-309444.9898	-725350.5849	-600602.8064	-725369.5849	-517386.2874
##	8709	8710	8711	8712	8713
##	-671695.3254	-642092.0659	-766932.8444	-309523.9898	-558927.5469
##	8714	8715	8716	8717	8718
##	-517175.2874	-267241.7303	-475559.0278	272626.6434	-550627.5469
##	8719	8720	8721	8722	8723
##	-683764.3254	-634412.0659	-434309.7683	-515816.2874	-683189.3254
##	8724	8725	8726	8727	8728
##	-507818.2874	-639648.0659	-539686.5469	-597283.8064	-122337.7303
##	8729	8731	8732	8733	8734
##	-434309.7683	66585.3458	-323008.2493	-470410.0278	-339898.2493
##	8735	8736	8737	8738	8739
##	-184804.2113	-637131.0659	-550609.5469	-59878.4327	-670314.3254
##	8740	8741	8742	8743	8744
##	-142964.9517	-390368.5088	-378045.2874	-807846.1039	-391092.5088
##	8745	8746	8747	8748	8749
##	-178307.2113	-301669.9898	-449207.2874	-329767.2493	-625231.3254
##	8750	8751	8752	8754	8755
##	-567760.8064	-434306.7683	-507252.2874	-517036.2874	-186728.0659
##	8756	8757	8758	8759	8760
##	-683722.3254	-125272.8064	-325173.3254	451869.9341	-286218.9898
##	8761	8762	8763	8764	8765
##	-474269.0278	-503045.2874	-397734.7683	-627971.0659	-667977.3254
##	8766	8767	8768	8769	8770
##	-540486.0659	-228088.8064	-136520.9517	-514132.2874	-317027.2874
##	8771	8772	8773	8774	8775
##	-392130.7683	-434225.7683	-431612.7683	-224091.4708	-47818.0659
##	8776	8777	8778	8779	8780
##	-388883.5088	-307413.5088	-475630.0278	-600587.8064	-516464.2874
##	8781	8782	8783	8784	8785

##	-598330.8064	-556640.5469	-378686.0278	-429794.7683	-558913.5469
##	8786	8787	8788	8789	8790
##	-597244.8064	-638644.0659	-683788.3254	-297817.9898	-349943.2493
##	8791	8792	8793	8794	8795
##	-184552.2113	-558876.5469	-351072.2493	-724959.5849	-461769.8064
##	8796	8797	8798	8799	8800
##	-599550.8064	-464107.0278	-577619.8064	-434290.7683	-390745.5088
##	8801	8802	8803	8804	8805
##	-555334.5469	-516120.2874	-123945.9517	-434244.7683	-596040.3254
##	8806	8807	8808	8809	8810
##	-461893.0278	-452999.0278	-77041.2113	-182601.2113	-465219.0278
##	8811	8812	8813	8814	8815
##	-431716.7683	-112967.2113	-96746.6922	-343813.2493	-338705.2493
##	8816	8817	8818	8819	8820
##	-390684.5088	-264756.7303	-350895.2493	-391154.5088	-101286.6922
##	8821	8822	8824	8825	8827
##	813157.0170	-683792.3254	-267962.7303	-808538.1039	147843.8648
##	8828	8830	8831	8833	8836
##	-389768.5088	-226388.4708	-100886.6922	-143201.9517	-329725.2493
##	8837	8838	8839	8841	8842
##	-370348.5088	193769.6746	480508.9409	-559050.5469	-391313.5088
##	8844	8845	8846	8847	8848
##	-766965.8444	-308934.9898	-434311.7683	-453863.0278	-520873.3254
##	8849	8851	8853	8854	8856
##	-434185.7683	-766966.8444	-434303.7683	-226399.4708	-18488.1732
##	8857	8858	8859	8860	8861
##	-683329.3254	563700.4600	-351038.2493	522089.2005	-493720.3254
##	8862	8863	8864	8865	8866
##	-850132.3635	-683798.3254	-536862.8064	670711.9341	-351123.2493
##	8867	8868	8870	8875	8876
##	-434308.7683	-475885.0278	-850134.3635	-850117.3635	813156.0170
##	8879	8880	8881	8882	8884
##	182383.1936	-721060.5849	-546468.3254	231047.3839	-642206.0659
##	8887	8888	8889	8890	8891
##	-400902.8064	-558853.5469	-850134.3635	-469664.0278	-350649.2493
##	8892	8893	8894	8895	8896
##	-392562.5088	-59948.4327	-700403.5849	12117590.9341	-218823.4708
##	8897	8898	8899	8900	8901
##	12837408.9341	-247191.3254	-176393.0659	-574517.0659	-595794.8064
##	8902	8903	8904	8905	8906
##	574479.4531	-578879.8064	-496536.2874	-589876.3254	-637050.0659
##	8907	8908	8909	8910	8911
##	-350213.2493	-539825.5469	-676201.3254	-485238.5469	-254990.7303
##	8912	8913	8914	8915	8916
##	-516609.2874	-711337.5849	-557640.5469	-720793.5849	-763580.8444
##	8917	8918	8919	8920	8921
##	-59572.4327	-618625.0659	-600365.8064	-641911.0659	-641910.0659
##	8923	8924	8925	8926	8927
##	-624225.5849	-475574.0278	-600376.8064	-430251.5469	364959.6746
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##	-184703.2113	526090.4151	-262291.7303	-309244.9898	355836.1624
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##	397348.4219	-226389.4708	-558901.5469	231102.3839	-642127.0659
##	8939	8941	8943	8944	8945
##	64703.3458	-642132.0659	64679.3458	-392416.5088	-101587.6922
##	8946	8947	8948	8949	8950
##	-53245.4327	231554.3839	-683796.3254	23115.0863	-434089.7683
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##	-308795.9898	272588.6434	23210.0863	-683765.3254	-559038.5469
##	8956	8957	8958	8959	8960
##	-850134.3635	-517095.2874	-683793.3254	-642216.0659	-517471.2874
##	8961	8962	8963	8964	8965
##	-766959.8444	-226320.4708	-683640.3254	-222917.4708	-266461.7303
##	8967	8968	8971	8972	8973
##	-850130.3635	-18488.1732	23158.0863	-309545.9898	-683792.3254
##	8975	8976	8977	8978	8979
##	-513661.2874	-101227.6922	190704.1244	-582970.8064	-558157.5469
##	8980	8981	8982	8983	8984
##	106289.6053	-434268.7683	-641902.0659	-183976.2113	-559034.5469
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##	-537873.5469	-558673.5469	-434287.7683	-808544.1039	-184717.2113
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##	-808515.1039	-559003.5469	-725377.5849	-748672.8444	-558761.5469
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##	-559050.5469	-434306.7683	-226204.4708	-850129.3635	-725378.5849
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##	9012	9014	9018	9019	9023
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##	9024	9025	9027	9028	9029
##	-636068.0659	-724972.5849	-600089.8064	-345184.2493	-514282.2874
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##	-642109.0659	-642202.0659	-683525.3254	-502409.2874	-642178.0659
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##	-683739.3254	-434074.7683	-600625.8064	-642042.0659	-267955.7303
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##	-683792.3254	-434185.7683	-683773.3254	-642173.0659	-642160.0659
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##	819473.9341	-364738.7683	-609880.0659	-234504.7683	-397540.8064
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##	9217	9218	9219	9220	9221
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##	-850133.3635	-627532.0659	-268887.9898	40605.8268	-306502.7683
##	9434	9435	9436	9437	9438
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##	9464	9465	9466	9468	9469
##	-385581.7683	-342666.2493	-638868.0659	-350593.2493	-586927.8064
##	9470	9471	9472	9473	9474
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##	9475	9476	9477	9478	9479
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##	9514	9517	9518	9519	9521
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##	-808542.1039	-398587.7683	-850131.3635	-850131.3635	-634596.3254
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##	-386797.5088	-730002.8444	-472241.0278	-558736.5469	-554417.5469
##	9557	9559	9560	9561	9562
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##	9584	9585	9586	9587	9588
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##	-513599.2874	-306585.9898	-364301.5088	-332633.5088	-264481.7303
##	10393	10394	10395	10396	10397
##	-300269.9898	-255726.7303	-546140.5469	-384608.5088	-420533.0659
##	10398	10399	10401	10406	10407
##	148039.8648	-600601.8064	813157.0170	-517464.2874	-766960.8444
##	10408	10409	10410	10411	10413
##	-850130.3635	-238725.5469	-600533.8064	-642194.0659	-808526.1039
##	10417	10420	10421	10424	10425
##	-850131.3635	-489326.2874	-517473.2874	-361127.7683	355982.1624
##	10427	10429	10430	10431	10432
##	-498893.2874	189668.1244	86494.1936	-599578.8064	-681779.3254
##	10435	10436	10437	10438	10439
##	-574096.8064	-446724.2874	-639793.0659	-121501.9517	-390481.5088
##	10441	10442	10443	10444	10445
##	-639307.0659	-392468.0278	-766355.8444	-683382.3254	-599766.8064
##	10446	10447	10448	10449	10450
##	-336112.2493	-309368.9898	-512639.2874	-309084.9898	-521782.5469
##	10451	10452	10453	10454	10455
##	-642112.0659	-226247.4708	-420843.7683	-642023.0659	23124.0863
##	10456	10457	10458	10459	10460
##	-385994.5088	-267886.7303	-683721.3254	358140.1624	-725373.5849
##	10461	10462	10463	10464	10465
##	-642082.0659	-475416.0278	-638551.0659	-309526.9898	23783.0863
##	10466	10467	10468	10469	10470
##	-432601.7683	-517362.2874	-309453.9898	-267637.7303	-390358.5088
##	10471	10472	10474	10475	10476
##	-184770.2113	-225359.4708	-383274.2874	-184782.2113	-392598.5088
##	10477	10478	10479	10480	10481
##	-17938.1732	-267855.7303	-101650.6922	-475513.0278	-472352.0278
##	10482	10483	10485	10487	10488
##	-515858.2874	-517399.2874	-725356.5849	-683699.3254	-642209.0659
##	10490	10491	10492	10493	10494
##	-516627.5469	-642138.0659	-642214.0659	-600609.8064	-528391.5469
##	10499	10501	10503	10504	10505
##	-517368.2874	-309562.9898	-416127.0278	-532835.5469	-328358.7683
##	10506	10507	10508	10509	10510
##	-224330.4708	-479004.2874	-148052.8064	-515294.2874	-444319.8064
##	10512	10513	10514	10515	10516

##	-315977.2493	-390225.5088	226300.2317	-328578.2493	-267801.7303
##	10517	10519	10521	10522	10523
##	-517465.2874	-334866.2493	-309378.9898	-331113.7683	-483689.2874
##	10524	10527	10528	10530	10532
##	-599124.8064	-471099.8064	-807133.1039	-850134.3635	-754270.8444
##	10541	10550	10553	10555	10557
##	-434245.7683	-132417.7683	-807342.1039	-325873.2493	-808434.1039
##	10563	10565	10567	10569	10570
##	605245.7195	-850099.3635	-765514.8444	-345042.5088	-308694.9898
##	10571	10572	10573	10574	10575
##	-683746.3254	-725142.5849	-682325.3254	-558972.5469	-516895.2874
##	10576	10577	10578	10579	10580
##	-683781.3254	-725378.5849	-683660.3254	397359.4219	-267130.7303
##	10581	10582	10583	10584	10585
##	-101506.6922	-351032.2493	-432974.7683	-351118.2493	-351131.2493
##	10586	10587	10588	10589	10590
##	-600612.8064	-599985.8064	-600571.8064	-351137.2493	-558959.5469
##	10591	10592	10593	10594	10595
##	-683799.3254	813158.0170	-101649.6922	-725348.5849	-558719.5469
##	10596	10597	10598	10599	10600
##	-642159.0659	-475230.0278	-808517.1039	-475132.0278	-517471.2874
##	10601	10602	10603	10604	10605
##	-226258.4708	-517385.2874	-850125.3635	-351068.2493	-723822.5849
##	10608	10610	10611	10612	10614
##	-642148.0659	-850102.3635	-143195.9517	-850121.3635	-434144.7683
##	10615	10616	10617	10618	10620
##	-642149.0659	-101649.6922	-628003.0659	-517424.2874	-309439.9898
##	10621	10622	10624	10625	10629
##	-351015.2493	-850132.3635	-474682.0278	23189.0863	-725210.5849
##	10630	10631	10633	10634	10635
##	-850130.3635	-101155.6922	-351061.2493	-351004.2493	-683798.3254
##	10636	10637	10638	10639	10640
##	-683717.3254	751191.1936	-766966.8444	-517414.2874	-143034.9517
##	10641	10642	10643	10644	10645
##	-392716.5088	-638904.0659	-389707.5088	-558926.5469	-600508.8064
##	10646	10647	10648	10649	10650
##	-381270.5088	-617399.3254	-337915.5088	-184638.2113	-683762.3254
##	10653	10656	10657	10660	10664
##	-515384.2874	-766958.8444	-850131.3635	-850121.3635	-351144.2493
##	10666	10667	10668	10672	10674
##	23231.0863	-683798.3254	-351005.2493	-386954.0278	-625409.0659
##	10676	10678	10679	10680	10681
##	-517471.2874	189427.1244	-226242.4708	-672571.3254	-598434.8064
##	10682	10683	10684	10685	10686
##	-682731.3254	-473591.5469	-481294.2874	-462463.2874	-475767.0278
##	10687	10688	10689	10690	10691
##	-516465.2874	-284011.5469	-640308.0659	-600622.8064	-850130.3635
##	10692	10698	10704	10707	10708
##	-683787.3254	-850133.3635	-184814.2113	-683799.3254	877446.9341
##	10711	10712	10713	10714	10715

```
## -197972.2493 -468616.0278 -539249.8064 -597170.8064 -532283.8064
## 10716 10717 10718 10719 10720
## -17345.1732 -354913.2874 -508294.2874 -392702.5088 -517446.2874
## 10721 10722 10723 10724 10725
## -563660.8064 -850121.3635 -433663.7683 -447250.5469 -683746.3254
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## -641814.0659 -271409.5088 -555791.5469 -226223.4708 -434309.7683
## 10739 10740 10741 10742 10743
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## 10754 10755 10756 10757 10758
## -608625.0659 -517354.2874 -558725.5469 -600583.8064 106678.6053
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## -465109.0278 -600606.8064 -641302.0659 -184197.2113 23544.0863
## 10768 10769 10771 10772 10777
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## 10778 10779 10780 10781 10782
## -392326.5088 -433373.7683 -267848.7303 -475878.0278 275057.4531
## 10783 10784 10785 10786 10787
## -350896.2493 -517137.2874 -313604.5469 -516072.2874 -517022.2874
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## 10794 10796 10797 10798 10800
## -572131.8064 -510138.2874 -663943.5849 -651373.3254 -723352.5849
## 10801 10802 10803 10804 10805
## -475721.0278 -808501.1039 -434127.7683 -502563.5469 -512035.2874
## 10806 10810 10811 10813 10815
## -559056.5469 -349165.5849 -766951.8444 -475815.0278 -433527.7683
## 10816 10818 10820 10821 10827
## -511702.2874 -433427.7683 -143184.9517 -850113.3635 -345826.7683
## 10828 10829 10830 10831 10833
## -517360.2874 -184528.2113 -683203.3254 -350267.2493 -349953.2493
## 10834 10835 10837 10838 10840
## -766926.8444 -434305.7683 -642186.0659 -850131.3635 -642110.0659
## 10841
## -243917.0659
```

#Calculate the mean squared error (MSE):

```
mse <- mean(residuals(model)^2)
```

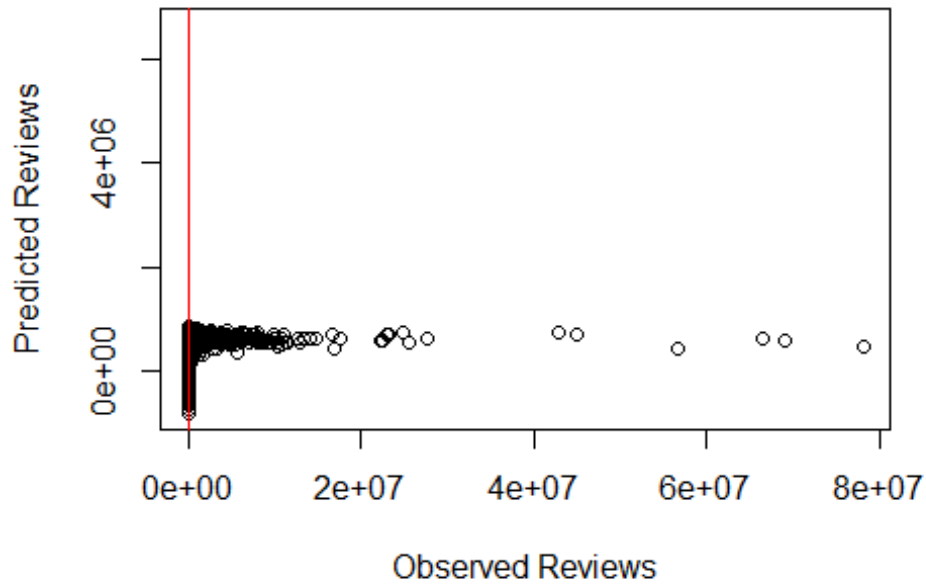
#Calculate the root mean squared error (RMSE):

```
rmse <- sqrt(mse)
```

#Plot the observed Reviews against the predicted Reviews:

```
plot(googleplaystore$Reviews, predicted_reviews, xlab = "Observed Reviews", ylab = "Predicted Reviews")
```

```
#Add a regression line to the scatter plot:  
abline(model, col = "red")
```



```
#Create a Q-Q plot to assess normality:  
qqnorm(residuals(model))  
qqline(residuals(model))
```

Normal Q-Q Plot

