

Assignment 1

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Clearing environmental variables.

```
rm(list = ls())
```

Loading breast-cancer-wisconsin.csv and replacing '?' with NA

```
data <- read.csv("breast-cancer-wisconsin.csv", na.strings = '?')
```

Viewing the top 10 rows of the loaded data

```
head(data, n = 10)
```

```
##      Sample F1 F2 F3 F4 F5 F6 F7 F8 F9 Class
## 1  1000025  5  1  1  1  2  1  3  1  1     2
## 2  1002945  5  4  4  5  7 10  3  2  1     2
## 3  1015425  3  1  1  1  2  2  3  1  1     2
## 4  1016277  6  8  8  1  3  4  3  7  1     2
## 5  1017023  4  1  1  3  2  1  3  1  1     2
## 6  1017122  8 10 10  8  7 10  9  7  1     4
## 7  1018099  1  1  1  1  2 10  3  1  1     2
## 8  1018561  2  1  2  1  2  1  3  1  1     2
## 9  1033078  2  1  1  1  2  1  1  1  5     2
## 10 1033078  4  2  1  1  2  1  2  1  1     2
```

Summarizing the data

```
summary(data)
```

```
##      Sample      F1      F2      F3
## Min.   : 61634  Min.   : 1.000  Min.   : 1.000  Min.   : 1.000
## 1st Qu.: 870688 1st Qu.: 2.000  1st Qu.: 1.000 1st Qu.: 1.000
## Median : 1171710 Median : 4.000  Median : 1.000 Median : 1.000
## Mean   : 1071704 Mean    : 4.418  Mean    : 3.134 Mean    : 3.207
## 3rd Qu.: 1238298 3rd Qu.: 6.000  3rd Qu.: 5.000 3rd Qu.: 5.000
```

```
## Max. :13454352 Max. :10.000 Max. :10.000 Max. :10.000
##
##      F4      F5      F6      F7
## Min. : 1.000 Min. : 1.000 Min. : 1.000 Min. : 1.000
## 1st Qu.: 1.000 1st Qu.: 2.000 1st Qu.: 1.000 1st Qu.: 2.000
## Median : 1.000 Median : 2.000 Median : 1.000 Median : 3.000
## Mean : 2.807 Mean : 3.216 Mean : 3.545 Mean : 3.438
## 3rd Qu.: 4.000 3rd Qu.: 4.000 3rd Qu.: 6.000 3rd Qu.: 5.000
## Max. :10.000 Max. :10.000 Max. :10.000 Max. :10.000
##
##      F8      F9      Class
## Min. : 1.000 Min. : 1.000 Min. :2.00
## 1st Qu.: 1.000 1st Qu.: 1.000 1st Qu.:2.00
## Median : 1.000 Median : 1.000 Median :2.00
## Mean : 2.867 Mean : 1.589 Mean :2.69
## 3rd Qu.: 4.000 3rd Qu.: 1.000 3rd Qu.:4.00
## Max. :10.000 Max. :10.000 Max. :4.00
##
```

Total number of missing values in our dataset

```
sum(is.na(data))
```

```
## [1] 16
```

Finding which columns have missing values

```
colSums(is.na(data))
```

```
## Sample      F1      F2      F3      F4      F5      F6      F7      F8      F9      Class
##      0       0       0       0       0       0      16       0       0       0       0
```

Finding row number of missing values

```
which(is.na(data$F6))
```

```
## [1] 24 41 140 146 159 165 236 250 276 293 295 298 316 322 412 618
```

Replacing missing values with mean of the column

```
for(i in 1 : ncol(data)) {
  data[is.na(data[,i]),i] <- mean(data[,i], na.rm = TRUE)
}

# rounding up columns upto 2 decimal places for simplicity
data[,-1] <-round(data[,-1],2)

print.data.frame(data)
```

##	Sample	F1	F2	F3	F4	F5	F6	F7	F8	F9	Class
## 1	1000025	5	1	1	1	2	1.00	3	1	1	2
## 2	1002945	5	4	4	5	7	10.00	3	2	1	2
## 3	1015425	3	1	1	1	2	2.00	3	1	1	2
## 4	1016277	6	8	8	1	3	4.00	3	7	1	2
## 5	1017023	4	1	1	3	2	1.00	3	1	1	2
## 6	1017122	8	10	10	8	7	10.00	9	7	1	4
## 7	1018099	1	1	1	1	2	10.00	3	1	1	2
## 8	1018561	2	1	2	1	2	1.00	3	1	1	2
## 9	1033078	2	1	1	1	2	1.00	1	1	5	2
## 10	1033078	4	2	1	1	2	1.00	2	1	1	2
## 11	1035283	1	1	1	1	1	1.00	3	1	1	2
## 12	1036172	2	1	1	1	2	1.00	2	1	1	2
## 13	1041801	5	3	3	3	2	3.00	4	4	1	4
## 14	1043999	1	1	1	1	2	3.00	3	1	1	2
## 15	1044572	8	7	5	10	7	9.00	5	5	4	4
## 16	1047630	7	4	6	4	6	1.00	4	3	1	4
## 17	1048672	4	1	1	1	2	1.00	2	1	1	2
## 18	1049815	4	1	1	1	2	1.00	3	1	1	2
## 19	1050670	10	7	7	6	4	10.00	4	1	2	4
## 20	1050718	6	1	1	1	2	1.00	3	1	1	2
## 21	1054590	7	3	2	10	5	10.00	5	4	4	4
## 22	1054593	10	5	5	3	6	7.00	7	10	1	4
## 23	1056784	3	1	1	1	2	1.00	2	1	1	2
## 24	1057013	8	4	5	1	2	3.54	7	3	1	4
## 25	1059552	1	1	1	1	2	1.00	3	1	1	2
## 26	1065726	5	2	3	4	2	7.00	3	6	1	4
## 27	1066373	3	2	1	1	1	1.00	2	1	1	2
## 28	1066979	5	1	1	1	2	1.00	2	1	1	2
## 29	1067444	2	1	1	1	2	1.00	2	1	1	2
## 30	1070935	1	1	3	1	2	1.00	1	1	1	2
## 31	1070935	3	1	1	1	1	1.00	2	1	1	2
## 32	1071760	2	1	1	1	2	1.00	3	1	1	2
## 33	1072179	10	7	7	3	8	5.00	7	4	3	4
## 34	1074610	2	1	1	2	2	1.00	3	1	1	2
## 35	1075123	3	1	2	1	2	1.00	2	1	1	2
## 36	1079304	2	1	1	1	2	1.00	2	1	1	2
## 37	1080185	10	10	10	8	6	1.00	8	9	1	4
## 38	1081791	6	2	1	1	1	1.00	7	1	1	2
## 39	1084584	5	4	4	9	2	10.00	5	6	1	4
## 40	1091262	2	5	3	3	6	7.00	7	5	1	4
## 41	1096800	6	6	6	9	6	3.54	7	8	1	2
## 42	1099510	10	4	3	1	3	3.00	6	5	2	4
## 43	1100524	6	10	10	2	8	10.00	7	3	3	4
## 44	1102573	5	6	5	6	10	1.00	3	1	1	4
## 45	1103608	10	10	10	4	8	1.00	8	10	1	4
## 46	1103722	1	1	1	1	2	1.00	2	1	2	2
## 47	1105257	3	7	7	4	4	9.00	4	8	1	4
## 48	1105524	1	1	1	1	2	1.00	2	1	1	2
## 49	1106095	4	1	1	3	2	1.00	3	1	1	2
## 50	1106829	7	8	7	2	4	8.00	3	8	2	4
## 51	1108370	9	5	8	1	2	3.00	2	1	5	4
## 52	1108449	5	3	3	4	2	4.00	3	4	1	4
## 53	1110102	10	3	6	2	3	5.00	4	10	2	4

## 54	1110503	5	5	5	8	10	8.00	7	3	7	4
## 55	1110524	10	5	5	6	8	8.00	7	1	1	4
## 56	1111249	10	6	6	3	4	5.00	3	6	1	4
## 57	1112209	8	10	10	1	3	6.00	3	9	1	4
## 58	1113038	8	2	4	1	5	1.00	5	4	4	4
## 59	1113483	5	2	3	1	6	10.00	5	1	1	4
## 60	1113906	9	5	5	2	2	2.00	5	1	1	4
## 61	1115282	5	3	5	5	3	3.00	4	10	1	4
## 62	1115293	1	1	1	1	2	2.00	2	1	1	2
## 63	1116116	9	10	10	1	10	8.00	3	3	1	4
## 64	1116132	6	3	4	1	5	2.00	3	9	1	4
## 65	1116192	1	1	1	1	2	1.00	2	1	1	2
## 66	1116998	10	4	2	1	3	2.00	4	3	10	4
## 67	1117152	4	1	1	1	2	1.00	3	1	1	2
## 68	1118039	5	3	4	1	8	10.00	4	9	1	4
## 69	1120559	8	3	8	3	4	9.00	8	9	8	4
## 70	1121732	1	1	1	1	2	1.00	3	2	1	2
## 71	1121919	5	1	3	1	2	1.00	2	1	1	2
## 72	1123061	6	10	2	8	10	2.00	7	8	10	4
## 73	1124651	1	3	3	2	2	1.00	7	2	1	2
## 74	1125035	9	4	5	10	6	10.00	4	8	1	4
## 75	1126417	10	6	4	1	3	4.00	3	2	3	4
## 76	1131294	1	1	2	1	2	2.00	4	2	1	2
## 77	1132347	1	1	4	1	2	1.00	2	1	1	2
## 78	1133041	5	3	1	2	2	1.00	2	1	1	2
## 79	1133136	3	1	1	1	2	3.00	3	1	1	2
## 80	1136142	2	1	1	1	3	1.00	2	1	1	2
## 81	1137156	2	2	2	1	1	1.00	7	1	1	2
## 82	1143978	4	1	1	2	2	1.00	2	1	1	2
## 83	1143978	5	2	1	1	2	1.00	3	1	1	2
## 84	1147044	3	1	1	1	2	2.00	7	1	1	2
## 85	1147699	3	5	7	8	8	9.00	7	10	7	4
## 86	1147748	5	10	6	1	10	4.00	4	10	10	4
## 87	1148278	3	3	6	4	5	8.00	4	4	1	4
## 88	1148873	3	6	6	6	5	10.00	6	8	3	4
## 89	1152331	4	1	1	1	2	1.00	3	1	1	2
## 90	1155546	2	1	1	2	3	1.00	2	1	1	2
## 91	1156272	1	1	1	1	2	1.00	3	1	1	2
## 92	1156948	3	1	1	2	2	1.00	1	1	1	2
## 93	1157734	4	1	1	1	2	1.00	3	1	1	2
## 94	1158247	1	1	1	1	2	1.00	2	1	1	2
## 95	1160476	2	1	1	1	2	1.00	3	1	1	2
## 96	1164066	1	1	1	1	2	1.00	3	1	1	2
## 97	1165297	2	1	1	2	2	1.00	1	1	1	2
## 98	1165790	5	1	1	1	2	1.00	3	1	1	2
## 99	1165926	9	6	9	2	10	6.00	2	9	10	4
## 100	1166630	7	5	6	10	5	10.00	7	9	4	4
## 101	1166654	10	3	5	1	10	5.00	3	10	2	4
## 102	1167439	2	3	4	4	2	5.00	2	5	1	4
## 103	1167471	4	1	2	1	2	1.00	3	1	1	2
## 104	1168359	8	2	3	1	6	3.00	7	1	1	4
## 105	1168736	10	10	10	10	10	1.00	8	8	8	4
## 106	1169049	7	3	4	4	3	3.00	3	2	7	4
## 107	1170419	10	10	10	8	2	10.00	4	1	1	4

## 108	1170420	1	6	8	10	8	10.00	5	7	1	4
## 109	1171710	1	1	1	1	2	1.00	2	3	1	2
## 110	1171710	6	5	4	4	3	9.00	7	8	3	4
## 111	1171795	1	3	1	2	2	2.00	5	3	2	2
## 112	1171845	8	6	4	3	5	9.00	3	1	1	4
## 113	1172152	10	3	3	10	2	10.00	7	3	3	4
## 114	1173216	10	10	10	3	10	8.00	8	1	1	4
## 115	1173235	3	3	2	1	2	3.00	3	1	1	2
## 116	1173347	1	1	1	1	2	5.00	1	1	1	2
## 117	1173347	8	3	3	1	2	2.00	3	2	1	2
## 118	1173509	4	5	5	10	4	10.00	7	5	8	4
## 119	1173514	1	1	1	1	4	3.00	1	1	1	2
## 120	1173681	3	2	1	1	2	2.00	3	1	1	2
## 121	1174057	1	1	2	2	2	1.00	3	1	1	2
## 122	1174057	4	2	1	1	2	2.00	3	1	1	2
## 123	1174131	10	10	10	2	10	10.00	5	3	3	4
## 124	1174428	5	3	5	1	8	10.00	5	3	1	4
## 125	1175937	5	4	6	7	9	7.00	8	10	1	4
## 126	1176406	1	1	1	1	2	1.00	2	1	1	2
## 127	1176881	7	5	3	7	4	10.00	7	5	5	4
## 128	1177027	3	1	1	1	2	1.00	3	1	1	2
## 129	1177399	8	3	5	4	5	10.00	1	6	2	4
## 130	1177512	1	1	1	1	10	1.00	1	1	1	2
## 131	1178580	5	1	3	1	2	1.00	2	1	1	2
## 132	1179818	2	1	1	1	2	1.00	3	1	1	2
## 133	1180194	5	10	8	10	8	10.00	3	6	3	4
## 134	1180523	3	1	1	1	2	1.00	2	2	1	2
## 135	1180831	3	1	1	1	3	1.00	2	1	1	2
## 136	1181356	5	1	1	1	2	2.00	3	3	1	2
## 137	1182404	4	1	1	1	2	1.00	2	1	1	2
## 138	1182410	3	1	1	1	2	1.00	1	1	1	2
## 139	1183240	4	1	2	1	2	1.00	2	1	1	2
## 140	1183246	1	1	1	1	1	3.54	2	1	1	2
## 141	1183516	3	1	1	1	2	1.00	1	1	1	2
## 142	1183911	2	1	1	1	2	1.00	1	1	1	2
## 143	1183983	9	5	5	4	4	5.00	4	3	3	4
## 144	1184184	1	1	1	1	2	5.00	1	1	1	2
## 145	1184241	2	1	1	1	2	1.00	2	1	1	2
## 146	1184840	1	1	3	1	2	3.54	2	1	1	2
## 147	1185609	3	4	5	2	6	8.00	4	1	1	4
## 148	1185610	1	1	1	1	3	2.00	2	1	1	2
## 149	1187457	3	1	1	3	8	1.00	5	8	1	2
## 150	1187805	8	8	7	4	10	10.00	7	8	7	4
## 151	1188472	1	1	1	1	1	1.00	3	1	1	2
## 152	1189266	7	2	4	1	6	10.00	5	4	3	4
## 153	1189286	10	10	8	6	4	5.00	8	10	1	4
## 154	1190394	4	1	1	1	2	3.00	1	1	1	2
## 155	1190485	1	1	1	1	2	1.00	1	1	1	2
## 156	1192325	5	5	5	6	3	10.00	3	1	1	4
## 157	1193091	1	2	2	1	2	1.00	2	1	1	2
## 158	1193210	2	1	1	1	2	1.00	3	1	1	2
## 159	1193683	1	1	2	1	3	3.54	1	1	1	2
## 160	1196295	9	9	10	3	6	10.00	7	10	6	4
## 161	1196915	10	7	7	4	5	10.00	5	7	2	4

## 162	1197080	4	1	1	1	2	1.00	3	2	1	2
## 163	1197270	3	1	1	1	2	1.00	3	1	1	2
## 164	1197440	1	1	1	2	1	3.00	1	1	7	2
## 165	1197510	5	1	1	1	2	3.54	3	1	1	2
## 166	1197979	4	1	1	1	2	2.00	3	2	1	2
## 167	1197993	5	6	7	8	8	10.00	3	10	3	4
## 168	1198128	10	8	10	10	6	1.00	3	1	10	4
## 169	1198641	3	1	1	1	2	1.00	3	1	1	2
## 170	1199219	1	1	1	2	1	1.00	1	1	1	2
## 171	1199731	3	1	1	1	2	1.00	1	1	1	2
## 172	1199983	1	1	1	1	2	1.00	3	1	1	2
## 173	1200772	1	1	1	1	2	1.00	2	1	1	2
## 174	1200847	6	10	10	10	8	10.00	10	10	7	4
## 175	1200892	8	6	5	4	3	10.00	6	1	1	4
## 176	1200952	5	8	7	7	10	10.00	5	7	1	4
## 177	1201834	2	1	1	1	2	1.00	3	1	1	2
## 178	1201936	5	10	10	3	8	1.00	5	10	3	4
## 179	1202125	4	1	1	1	2	1.00	3	1	1	2
## 180	1202812	5	3	3	3	6	10.00	3	1	1	4
## 181	1203096	1	1	1	1	1	1.00	3	1	1	2
## 182	1204242	1	1	1	1	2	1.00	1	1	1	2
## 183	1204898	6	1	1	1	2	1.00	3	1	1	2
## 184	1205138	5	8	8	8	5	10.00	7	8	1	4
## 185	1205579	8	7	6	4	4	10.00	5	1	1	4
## 186	1206089	2	1	1	1	1	1.00	3	1	1	2
## 187	1206695	1	5	8	6	5	8.00	7	10	1	4
## 188	1206841	10	5	6	10	6	10.00	7	7	10	4
## 189	1207986	5	8	4	10	5	8.00	9	10	1	4
## 190	1208301	1	2	3	1	2	1.00	3	1	1	2
## 191	1210963	10	10	10	8	6	8.00	7	10	1	4
## 192	1211202	7	5	10	10	10	10.00	4	10	3	4
## 193	1212232	5	1	1	1	2	1.00	2	1	1	2
## 194	1212251	1	1	1	1	2	1.00	3	1	1	2
## 195	1212422	3	1	1	1	2	1.00	3	1	1	2
## 196	1212422	4	1	1	1	2	1.00	3	1	1	2
## 197	1213375	8	4	4	5	4	7.00	7	8	2	2
## 198	1213383	5	1	1	4	2	1.00	3	1	1	2
## 199	1214092	1	1	1	1	2	1.00	1	1	1	2
## 200	1214556	3	1	1	1	2	1.00	2	1	1	2
## 201	1214966	9	7	7	5	5	10.00	7	8	3	4
## 202	1216694	10	8	8	4	10	10.00	8	1	1	4
## 203	1216947	1	1	1	1	2	1.00	3	1	1	2
## 204	1217051	5	1	1	1	2	1.00	3	1	1	2
## 205	1217264	1	1	1	1	2	1.00	3	1	1	2
## 206	1218105	5	10	10	9	6	10.00	7	10	5	4
## 207	1218741	10	10	9	3	7	5.00	3	5	1	4
## 208	1218860	1	1	1	1	1	1.00	3	1	1	2
## 209	1218860	1	1	1	1	1	1.00	3	1	1	2
## 210	1219406	5	1	1	1	1	1.00	3	1	1	2
## 211	1219525	8	10	10	10	5	10.00	8	10	6	4
## 212	1219859	8	10	8	8	4	8.00	7	7	1	4
## 213	1220330	1	1	1	1	2	1.00	3	1	1	2
## 214	1221863	10	10	10	10	7	10.00	7	10	4	4
## 215	1222047	10	10	10	10	3	10.00	10	6	1	4

##	216	1222936	8	7	8	7	5	5.00	5	10	2	4
##	217	1223282	1	1	1	1	2	1.00	2	1	1	2
##	218	1223426	1	1	1	1	2	1.00	3	1	1	2
##	219	1223793	6	10	7	7	6	4.00	8	10	2	4
##	220	1223967	6	1	3	1	2	1.00	3	1	1	2
##	221	1224329	1	1	1	2	2	1.00	3	1	1	2
##	222	1225799	10	6	4	3	10	10.00	9	10	1	4
##	223	1226012	4	1	1	3	1	5.00	2	1	1	4
##	224	1226612	7	5	6	3	3	8.00	7	4	1	4
##	225	1227210	10	5	5	6	3	10.00	7	9	2	4
##	226	1227244	1	1	1	1	2	1.00	2	1	1	2
##	227	1227481	10	5	7	4	4	10.00	8	9	1	4
##	228	1228152	8	9	9	5	3	5.00	7	7	1	4
##	229	1228311	1	1	1	1	1	1.00	3	1	1	2
##	230	1230175	10	10	10	3	10	10.00	9	10	1	4
##	231	1230688	7	4	7	4	3	7.00	7	6	1	4
##	232	1231387	6	8	7	5	6	8.00	8	9	2	4
##	233	1231706	8	4	6	3	3	1.00	4	3	1	2
##	234	1232225	10	4	5	5	5	10.00	4	1	1	4
##	235	1236043	3	3	2	1	3	1.00	3	6	1	2
##	236	1241232	3	1	4	1	2	3.54	3	1	1	2
##	237	1241559	10	8	8	2	8	10.00	4	8	10	4
##	238	1241679	9	8	8	5	6	2.00	4	10	4	4
##	239	1242364	8	10	10	8	6	9.00	3	10	10	4
##	240	1243256	10	4	3	2	3	10.00	5	3	2	4
##	241	1270479	5	1	3	3	2	2.00	2	3	1	2
##	242	1276091	3	1	1	3	1	1.00	3	1	1	2
##	243	1277018	2	1	1	1	2	1.00	3	1	1	2
##	244	128059	1	1	1	1	2	5.00	5	1	1	2
##	245	1285531	1	1	1	1	2	1.00	3	1	1	2
##	246	1287775	5	1	1	2	2	2.00	3	1	1	2
##	247	144888	8	10	10	8	5	10.00	7	8	1	4
##	248	145447	8	4	4	1	2	9.00	3	3	1	4
##	249	167528	4	1	1	1	2	1.00	3	6	1	2
##	250	169356	3	1	1	1	2	3.54	3	1	1	2
##	251	183913	1	2	2	1	2	1.00	1	1	1	2
##	252	191250	10	4	4	10	2	10.00	5	3	3	4
##	253	1017023	6	3	3	5	3	10.00	3	5	3	2
##	254	1100524	6	10	10	2	8	10.00	7	3	3	4
##	255	1116116	9	10	10	1	10	8.00	3	3	1	4
##	256	1168736	5	6	6	2	4	10.00	3	6	1	4
##	257	1182404	3	1	1	1	2	1.00	1	1	1	2
##	258	1182404	3	1	1	1	2	1.00	2	1	1	2
##	259	1198641	3	1	1	1	2	1.00	3	1	1	2
##	260	242970	5	7	7	1	5	8.00	3	4	1	2
##	261	255644	10	5	8	10	3	10.00	5	1	3	4
##	262	263538	5	10	10	6	10	10.00	10	6	5	4
##	263	274137	8	8	9	4	5	10.00	7	8	1	4
##	264	303213	10	4	4	10	6	10.00	5	5	1	4
##	265	314428	7	9	4	10	10	3.00	5	3	3	4
##	266	1182404	5	1	4	1	2	1.00	3	2	1	2
##	267	1198641	10	10	6	3	3	10.00	4	3	2	4
##	268	320675	3	3	5	2	3	10.00	7	1	1	4
##	269	324427	10	8	8	2	3	4.00	8	7	8	4

## 270	385103	1	1	1	1	2	1.00	3	1	1	2
## 271	390840	8	4	7	1	3	10.00	3	9	2	4
## 272	411453	5	1	1	1	2	1.00	3	1	1	2
## 273	320675	3	3	5	2	3	10.00	7	1	1	4
## 274	428903	7	2	4	1	3	4.00	3	3	1	4
## 275	431495	3	1	1	1	2	1.00	3	2	1	2
## 276	432809	3	1	3	1	2	3.54	2	1	1	2
## 277	434518	3	1	1	1	2	1.00	2	1	1	2
## 278	452264	1	1	1	1	2	1.00	2	1	1	2
## 279	456282	1	1	1	1	2	1.00	3	1	1	2
## 280	476903	10	5	7	3	3	7.00	3	3	8	4
## 281	486283	3	1	1	1	2	1.00	3	1	1	2
## 282	486662	2	1	1	2	2	1.00	3	1	1	2
## 283	488173	1	4	3	10	4	10.00	5	6	1	4
## 284	492268	10	4	6	1	2	10.00	5	3	1	4
## 285	508234	7	4	5	10	2	10.00	3	8	2	4
## 286	527363	8	10	10	10	8	10.00	10	7	3	4
## 287	529329	10	10	10	10	10	10.00	4	10	10	4
## 288	535331	3	1	1	1	3	1.00	2	1	1	2
## 289	543558	6	1	3	1	4	5.00	5	10	1	4
## 290	555977	5	6	6	8	6	10.00	4	10	4	4
## 291	560680	1	1	1	1	2	1.00	1	1	1	2
## 292	561477	1	1	1	1	2	1.00	3	1	1	2
## 293	563649	8	8	8	1	2	3.54	6	10	1	4
## 294	601265	10	4	4	6	2	10.00	2	3	1	4
## 295	606140	1	1	1	1	2	3.54	2	1	1	2
## 296	606722	5	5	7	8	6	10.00	7	4	1	4
## 297	616240	5	3	4	3	4	5.00	4	7	1	2
## 298	61634	5	4	3	1	2	3.54	2	3	1	2
## 299	625201	8	2	1	1	5	1.00	1	1	1	2
## 300	63375	9	1	2	6	4	10.00	7	7	2	4
## 301	635844	8	4	10	5	4	4.00	7	10	1	4
## 302	636130	1	1	1	1	2	1.00	3	1	1	2
## 303	640744	10	10	10	7	9	10.00	7	10	10	4
## 304	646904	1	1	1	1	2	1.00	3	1	1	2
## 305	653777	8	3	4	9	3	10.00	3	3	1	4
## 306	659642	10	8	4	4	4	10.00	3	10	4	4
## 307	666090	1	1	1	1	2	1.00	3	1	1	2
## 308	666942	1	1	1	1	2	1.00	3	1	1	2
## 309	667204	7	8	7	6	4	3.00	8	8	4	4
## 310	673637	3	1	1	1	2	5.00	5	1	1	2
## 311	684955	2	1	1	1	3	1.00	2	1	1	2
## 312	688033	1	1	1	1	2	1.00	1	1	1	2
## 313	691628	8	6	4	10	10	1.00	3	5	1	4
## 314	693702	1	1	1	1	2	1.00	1	1	1	2
## 315	704097	1	1	1	1	1	1.00	2	1	1	2
## 316	704168	4	6	5	6	7	3.54	4	9	1	2
## 317	706426	5	5	5	2	5	10.00	4	3	1	4
## 318	709287	6	8	7	8	6	8.00	8	9	1	4
## 319	718641	1	1	1	1	5	1.00	3	1	1	2
## 320	721482	4	4	4	4	6	5.00	7	3	1	2
## 321	730881	7	6	3	2	5	10.00	7	4	6	4
## 322	733639	3	1	1	1	2	3.54	3	1	1	2
## 323	733639	3	1	1	1	2	1.00	3	1	1	2

## 324	733823	5	4	6	10	2	10.00	4	1	1	4
## 325	740492	1	1	1	1	2	1.00	3	1	1	2
## 326	743348	3	2	2	1	2	1.00	2	3	1	2
## 327	752904	10	1	1	1	2	10.00	5	4	1	4
## 328	756136	1	1	1	1	2	1.00	2	1	1	2
## 329	760001	8	10	3	2	6	4.00	3	10	1	4
## 330	760239	10	4	6	4	5	10.00	7	1	1	4
## 331	76389	10	4	7	2	2	8.00	6	1	1	4
## 332	764974	5	1	1	1	2	1.00	3	1	2	2
## 333	770066	5	2	2	2	2	1.00	2	2	1	2
## 334	785208	5	4	6	6	4	10.00	4	3	1	4
## 335	785615	8	6	7	3	3	10.00	3	4	2	4
## 336	792744	1	1	1	1	2	1.00	1	1	1	2
## 337	797327	6	5	5	8	4	10.00	3	4	1	4
## 338	798429	1	1	1	1	2	1.00	3	1	1	2
## 339	704097	1	1	1	1	1	1.00	2	1	1	2
## 340	806423	8	5	5	5	2	10.00	4	3	1	4
## 341	809912	10	3	3	1	2	10.00	7	6	1	4
## 342	810104	1	1	1	1	2	1.00	3	1	1	2
## 343	814265	2	1	1	1	2	1.00	1	1	1	2
## 344	814911	1	1	1	1	2	1.00	1	1	1	2
## 345	822829	7	6	4	8	10	10.00	9	5	3	4
## 346	826923	1	1	1	1	2	1.00	1	1	1	2
## 347	830690	5	2	2	2	3	1.00	1	3	1	2
## 348	831268	1	1	1	1	1	1.00	1	3	1	2
## 349	832226	3	4	4	10	5	1.00	3	3	1	4
## 350	832567	4	2	3	5	3	8.00	7	6	1	4
## 351	836433	5	1	1	3	2	1.00	1	1	1	2
## 352	837082	2	1	1	1	2	1.00	3	1	1	2
## 353	846832	3	4	5	3	7	3.00	4	6	1	2
## 354	850831	2	7	10	10	7	10.00	4	9	4	4
## 355	855524	1	1	1	1	2	1.00	2	1	1	2
## 356	857774	4	1	1	1	3	1.00	2	2	1	2
## 357	859164	5	3	3	1	3	3.00	3	3	3	4
## 358	859350	8	10	10	7	10	10.00	7	3	8	4
## 359	866325	8	10	5	3	8	4.00	4	10	3	4
## 360	873549	10	3	5	4	3	7.00	3	5	3	4
## 361	877291	6	10	10	10	10	10.00	8	10	10	4
## 362	877943	3	10	3	10	6	10.00	5	1	4	4
## 363	888169	3	2	2	1	4	3.00	2	1	1	2
## 364	888523	4	4	4	2	2	3.00	2	1	1	2
## 365	896404	2	1	1	1	2	1.00	3	1	1	2
## 366	897172	2	1	1	1	2	1.00	2	1	1	2
## 367	95719	6	10	10	10	8	10.00	7	10	7	4
## 368	160296	5	8	8	10	5	10.00	8	10	3	4
## 369	342245	1	1	3	1	2	1.00	1	1	1	2
## 370	428598	1	1	3	1	1	1.00	2	1	1	2
## 371	492561	4	3	2	1	3	1.00	2	1	1	2
## 372	493452	1	1	3	1	2	1.00	1	1	1	2
## 373	493452	4	1	2	1	2	1.00	2	1	1	2
## 374	521441	5	1	1	2	2	1.00	2	1	1	2
## 375	560680	3	1	2	1	2	1.00	2	1	1	2
## 376	636437	1	1	1	1	2	1.00	1	1	1	2
## 377	640712	1	1	1	1	2	1.00	2	1	1	2

## 378	654244	1	1	1	1	1	1.00	2	1	1	2
## 379	657753	3	1	1	4	3	1.00	2	2	1	2
## 380	685977	5	3	4	1	4	1.00	3	1	1	2
## 381	805448	1	1	1	1	2	1.00	1	1	1	2
## 382	846423	10	6	3	6	4	10.00	7	8	4	4
## 383	1002504	3	2	2	2	2	1.00	3	2	1	2
## 384	1022257	2	1	1	1	2	1.00	1	1	1	2
## 385	1026122	2	1	1	1	2	1.00	1	1	1	2
## 386	1071084	3	3	2	2	3	1.00	1	2	3	2
## 387	1080233	7	6	6	3	2	10.00	7	1	1	4
## 388	1114570	5	3	3	2	3	1.00	3	1	1	2
## 389	1114570	2	1	1	1	2	1.00	2	2	1	2
## 390	1116715	5	1	1	1	3	2.00	2	2	1	2
## 391	1131411	1	1	1	2	2	1.00	2	1	1	2
## 392	1151734	10	8	7	4	3	10.00	7	9	1	4
## 393	1156017	3	1	1	1	2	1.00	2	1	1	2
## 394	1158247	1	1	1	1	1	1.00	1	1	1	2
## 395	1158405	1	2	3	1	2	1.00	2	1	1	2
## 396	1168278	3	1	1	1	2	1.00	2	1	1	2
## 397	1176187	3	1	1	1	2	1.00	3	1	1	2
## 398	1196263	4	1	1	1	2	1.00	1	1	1	2
## 399	1196475	3	2	1	1	2	1.00	2	2	1	2
## 400	1206314	1	2	3	1	2	1.00	1	1	1	2
## 401	1211265	3	10	8	7	6	9.00	9	3	8	4
## 402	1213784	3	1	1	1	2	1.00	1	1	1	2
## 403	1223003	5	3	3	1	2	1.00	2	1	1	2
## 404	1223306	3	1	1	1	2	4.00	1	1	1	2
## 405	1223543	1	2	1	3	2	1.00	1	2	1	2
## 406	1229929	1	1	1	1	2	1.00	2	1	1	2
## 407	1231853	4	2	2	1	2	1.00	2	1	1	2
## 408	1234554	1	1	1	1	2	1.00	2	1	1	2
## 409	1236837	2	3	2	2	2	2.00	3	1	1	2
## 410	1237674	3	1	2	1	2	1.00	2	1	1	2
## 411	1238021	1	1	1	1	2	1.00	2	1	1	2
## 412	1238464	1	1	1	1	1	3.54	2	1	1	2
## 413	1238633	10	10	10	6	8	4.00	8	5	1	4
## 414	1238915	5	1	2	1	2	1.00	3	1	1	2
## 415	1238948	8	5	6	2	3	10.00	6	6	1	4
## 416	1239232	3	3	2	6	3	3.00	3	5	1	2
## 417	1239347	8	7	8	5	10	10.00	7	2	1	4
## 418	1239967	1	1	1	1	2	1.00	2	1	1	2
## 419	1240337	5	2	2	2	2	2.00	3	2	2	2
## 420	1253505	2	3	1	1	5	1.00	1	1	1	2
## 421	1255384	3	2	2	3	2	3.00	3	1	1	2
## 422	1257200	10	10	10	7	10	10.00	8	2	1	4
## 423	1257648	4	3	3	1	2	1.00	3	3	1	2
## 424	1257815	5	1	3	1	2	1.00	2	1	1	2
## 425	1257938	3	1	1	1	2	1.00	1	1	1	2
## 426	1258549	9	10	10	10	10	10.00	10	10	1	4
## 427	1258556	5	3	6	1	2	1.00	1	1	1	2
## 428	1266154	8	7	8	2	4	2.00	5	10	1	4
## 429	1272039	1	1	1	1	2	1.00	2	1	1	2
## 430	1276091	2	1	1	1	2	1.00	2	1	1	2
## 431	1276091	1	3	1	1	2	1.00	2	2	1	2

## 432	1276091	5	1	1	3	4	1.00	3	2	1	2
## 433	1277629	5	1	1	1	2	1.00	2	2	1	2
## 434	1293439	3	2	2	3	2	1.00	1	1	1	2
## 435	1293439	6	9	7	5	5	8.00	4	2	1	2
## 436	1294562	10	8	10	1	3	10.00	5	1	1	4
## 437	1295186	10	10	10	1	6	1.00	2	8	1	4
## 438	527337	4	1	1	1	2	1.00	1	1	1	2
## 439	558538	4	1	3	3	2	1.00	1	1	1	2
## 440	566509	5	1	1	1	2	1.00	1	1	1	2
## 441	608157	10	4	3	10	4	10.00	10	1	1	4
## 442	677910	5	2	2	4	2	4.00	1	1	1	2
## 443	734111	1	1	1	3	2	3.00	1	1	1	2
## 444	734111	1	1	1	1	2	2.00	1	1	1	2
## 445	780555	5	1	1	6	3	1.00	2	1	1	2
## 446	827627	2	1	1	1	2	1.00	1	1	1	2
## 447	1049837	1	1	1	1	2	1.00	1	1	1	2
## 448	1058849	5	1	1	1	2	1.00	1	1	1	2
## 449	1182404	1	1	1	1	1	1.00	1	1	1	2
## 450	1193544	5	7	9	8	6	10.00	8	10	1	4
## 451	1201870	4	1	1	3	1	1.00	2	1	1	2
## 452	1202253	5	1	1	1	2	1.00	1	1	1	2
## 453	1227081	3	1	1	3	2	1.00	1	1	1	2
## 454	1230994	4	5	5	8	6	10.00	10	7	1	4
## 455	1238410	2	3	1	1	3	1.00	1	1	1	2
## 456	1246562	10	2	2	1	2	6.00	1	1	2	4
## 457	1257470	10	6	5	8	5	10.00	8	6	1	4
## 458	1259008	8	8	9	6	6	3.00	10	10	1	4
## 459	1266124	5	1	2	1	2	1.00	1	1	1	2
## 460	1267898	5	1	3	1	2	1.00	1	1	1	2
## 461	1268313	5	1	1	3	2	1.00	1	1	1	2
## 462	1268804	3	1	1	1	2	5.00	1	1	1	2
## 463	1276091	6	1	1	3	2	1.00	1	1	1	2
## 464	1280258	4	1	1	1	2	1.00	1	2	1	2
## 465	1293966	4	1	1	1	2	1.00	1	1	1	2
## 466	1296572	10	9	8	7	6	4.00	7	10	3	4
## 467	1298416	10	6	6	2	4	10.00	9	7	1	4
## 468	1299596	6	6	6	5	4	10.00	7	6	2	4
## 469	1105524	4	1	1	1	2	1.00	1	1	1	2
## 470	1181685	1	1	2	1	2	1.00	2	1	1	2
## 471	1211594	3	1	1	1	1	1.00	2	1	1	2
## 472	1238777	6	1	1	3	2	1.00	1	1	1	2
## 473	1257608	6	1	1	1	1	1.00	1	1	1	2
## 474	1269574	4	1	1	1	2	1.00	1	1	1	2
## 475	1277145	5	1	1	1	2	1.00	1	1	1	2
## 476	1287282	3	1	1	1	2	1.00	1	1	1	2
## 477	1296025	4	1	2	1	2	1.00	1	1	1	2
## 478	1296263	4	1	1	1	2	1.00	1	1	1	2
## 479	1296593	5	2	1	1	2	1.00	1	1	1	2
## 480	1299161	4	8	7	10	4	10.00	7	5	1	4
## 481	1301945	5	1	1	1	1	1.00	1	1	1	2
## 482	1302428	5	3	2	4	2	1.00	1	1	1	2
## 483	1318169	9	10	10	10	10	5.00	10	10	10	4
## 484	474162	8	7	8	5	5	10.00	9	10	1	4
## 485	787451	5	1	2	1	2	1.00	1	1	1	2

## 486	1002025	1	1	1	3	1	3.00	1	1	1	2
## 487	1070522	3	1	1	1	1	1.00	2	1	1	2
## 488	1073960	10	10	10	10	6	10.00	8	1	5	4
## 489	1076352	3	6	4	10	3	3.00	3	4	1	4
## 490	1084139	6	3	2	1	3	4.00	4	1	1	4
## 491	1115293	1	1	1	1	2	1.00	1	1	1	2
## 492	1119189	5	8	9	4	3	10.00	7	1	1	4
## 493	1133991	4	1	1	1	1	1.00	2	1	1	2
## 494	1142706	5	10	10	10	6	10.00	6	5	2	4
## 495	1155967	5	1	2	10	4	5.00	2	1	1	2
## 496	1170945	3	1	1	1	1	1.00	2	1	1	2
## 497	1181567	1	1	1	1	1	1.00	1	1	1	2
## 498	1182404	4	2	1	1	2	1.00	1	1	1	2
## 499	1204558	4	1	1	1	2	1.00	2	1	1	2
## 500	1217952	4	1	1	1	2	1.00	2	1	1	2
## 501	1224565	6	1	1	1	2	1.00	3	1	1	2
## 502	1238186	4	1	1	1	2	1.00	2	1	1	2
## 503	1253917	4	1	1	2	2	1.00	2	1	1	2
## 504	1265899	4	1	1	1	2	1.00	3	1	1	2
## 505	1268766	1	1	1	1	2	1.00	1	1	1	2
## 506	1277268	3	3	1	1	2	1.00	1	1	1	2
## 507	1286943	8	10	10	10	7	5.00	4	8	7	4
## 508	1295508	1	1	1	1	2	4.00	1	1	1	2
## 509	1297327	5	1	1	1	2	1.00	1	1	1	2
## 510	1297522	2	1	1	1	2	1.00	1	1	1	2
## 511	1298360	1	1	1	1	2	1.00	1	1	1	2
## 512	1299924	5	1	1	1	2	1.00	2	1	1	2
## 513	1299994	5	1	1	1	2	1.00	1	1	1	2
## 514	1304595	3	1	1	1	1	1.00	2	1	1	2
## 515	1306282	6	6	7	10	3	10.00	8	10	2	4
## 516	1313325	4	10	4	7	3	10.00	9	10	1	4
## 517	1320077	1	1	1	1	1	1.00	1	1	1	2
## 518	1320077	1	1	1	1	1	1.00	2	1	1	2
## 519	1320304	3	1	2	2	2	1.00	1	1	1	2
## 520	1330439	4	7	8	3	4	10.00	9	1	1	4
## 521	333093	1	1	1	1	3	1.00	1	1	1	2
## 522	369565	4	1	1	1	3	1.00	1	1	1	2
## 523	412300	10	4	5	4	3	5.00	7	3	1	4
## 524	672113	7	5	6	10	4	10.00	5	3	1	4
## 525	749653	3	1	1	1	2	1.00	2	1	1	2
## 526	769612	3	1	1	2	2	1.00	1	1	1	2
## 527	769612	4	1	1	1	2	1.00	1	1	1	2
## 528	798429	4	1	1	1	2	1.00	3	1	1	2
## 529	807657	6	1	3	2	2	1.00	1	1	1	2
## 530	8233704	4	1	1	1	1	1.00	2	1	1	2
## 531	837480	7	4	4	3	4	10.00	6	9	1	4
## 532	867392	4	2	2	1	2	1.00	2	1	1	2
## 533	869828	1	1	1	1	1	1.00	3	1	1	2
## 534	1043068	3	1	1	1	2	1.00	2	1	1	2
## 535	1056171	2	1	1	1	2	1.00	2	1	1	2
## 536	1061990	1	1	3	2	2	1.00	3	1	1	2
## 537	1113061	5	1	1	1	2	1.00	3	1	1	2
## 538	1116192	5	1	2	1	2	1.00	3	1	1	2
## 539	1135090	4	1	1	1	2	1.00	2	1	1	2

## 540	1145420	6	1	1	1	2	1.00	2	1	1	2
## 541	1158157	5	1	1	1	2	2.00	2	1	1	2
## 542	1171578	3	1	1	1	2	1.00	1	1	1	2
## 543	1174841	5	3	1	1	2	1.00	1	1	1	2
## 544	1184586	4	1	1	1	2	1.00	2	1	1	2
## 545	1186936	2	1	3	2	2	1.00	2	1	1	2
## 546	1197527	5	1	1	1	2	1.00	2	1	1	2
## 547	1222464	6	10	10	10	4	10.00	7	10	1	4
## 548	1240603	2	1	1	1	1	1.00	1	1	1	2
## 549	1240603	3	1	1	1	1	1.00	1	1	1	2
## 550	1241035	7	8	3	7	4	5.00	7	8	2	4
## 551	1287971	3	1	1	1	2	1.00	2	1	1	2
## 552	1289391	1	1	1	1	2	1.00	3	1	1	2
## 553	1299924	3	2	2	2	2	1.00	4	2	1	2
## 554	1306339	4	4	2	1	2	5.00	2	1	2	2
## 555	1313658	3	1	1	1	2	1.00	1	1	1	2
## 556	1313982	4	3	1	1	2	1.00	4	8	1	2
## 557	1321264	5	2	2	2	1	1.00	2	1	1	2
## 558	1321321	5	1	1	3	2	1.00	1	1	1	2
## 559	1321348	2	1	1	1	2	1.00	2	1	1	2
## 560	1321931	5	1	1	1	2	1.00	2	1	1	2
## 561	1321942	5	1	1	1	2	1.00	3	1	1	2
## 562	1321942	5	1	1	1	2	1.00	3	1	1	2
## 563	1328331	1	1	1	1	2	1.00	3	1	1	2
## 564	1328755	3	1	1	1	2	1.00	2	1	1	2
## 565	1331405	4	1	1	1	2	1.00	3	2	1	2
## 566	1331412	5	7	10	10	5	10.00	10	10	1	4
## 567	1333104	3	1	2	1	2	1.00	3	1	1	2
## 568	1334071	4	1	1	1	2	3.00	2	1	1	2
## 569	1343068	8	4	4	1	6	10.00	2	5	2	4
## 570	1343374	10	10	8	10	6	5.00	10	3	1	4
## 571	1344121	8	10	4	4	8	10.00	8	2	1	4
## 572	142932	7	6	10	5	3	10.00	9	10	2	4
## 573	183936	3	1	1	1	2	1.00	2	1	1	2
## 574	324382	1	1	1	1	2	1.00	2	1	1	2
## 575	378275	10	9	7	3	4	2.00	7	7	1	4
## 576	385103	5	1	2	1	2	1.00	3	1	1	2
## 577	690557	5	1	1	1	2	1.00	2	1	1	2
## 578	695091	1	1	1	1	2	1.00	2	1	1	2
## 579	695219	1	1	1	1	2	1.00	2	1	1	2
## 580	824249	1	1	1	1	2	1.00	3	1	1	2
## 581	871549	5	1	2	1	2	1.00	2	1	1	2
## 582	878358	5	7	10	6	5	10.00	7	5	1	4
## 583	1107684	6	10	5	5	4	10.00	6	10	1	4
## 584	1115762	3	1	1	1	2	1.00	1	1	1	2
## 585	1217717	5	1	1	6	3	1.00	1	1	1	2
## 586	1239420	1	1	1	1	2	1.00	1	1	1	2
## 587	1254538	8	10	10	10	6	10.00	10	10	1	4
## 588	1261751	5	1	1	1	2	1.00	2	2	1	2
## 589	1268275	9	8	8	9	6	3.00	4	1	1	4
## 590	1272166	5	1	1	1	2	1.00	1	1	1	2
## 591	1294261	4	10	8	5	4	1.00	10	1	1	4
## 592	1295529	2	5	7	6	4	10.00	7	6	1	4
## 593	1298484	10	3	4	5	3	10.00	4	1	1	4

##	594	1311875	5	1	2	1	2	1.00	1	1	1	2
##	595	1315506	4	8	6	3	4	10.00	7	1	1	4
##	596	1320141	5	1	1	1	2	1.00	2	1	1	2
##	597	1325309	4	1	2	1	2	1.00	2	1	1	2
##	598	1333063	5	1	3	1	2	1.00	3	1	1	2
##	599	1333495	3	1	1	1	2	1.00	2	1	1	2
##	600	1334659	5	2	4	1	1	1.00	1	1	1	2
##	601	1336798	3	1	1	1	2	1.00	2	1	1	2
##	602	1344449	1	1	1	1	1	1.00	2	1	1	2
##	603	1350568	4	1	1	1	2	1.00	2	1	1	2
##	604	1352663	5	4	6	8	4	1.00	8	10	1	4
##	605	188336	5	3	2	8	5	10.00	8	1	2	4
##	606	352431	10	5	10	3	5	8.00	7	8	3	4
##	607	353098	4	1	1	2	2	1.00	1	1	1	2
##	608	411453	1	1	1	1	2	1.00	1	1	1	2
##	609	557583	5	10	10	10	10	10.00	10	1	1	4
##	610	636375	5	1	1	1	2	1.00	1	1	1	2
##	611	736150	10	4	3	10	3	10.00	7	1	2	4
##	612	803531	5	10	10	10	5	2.00	8	5	1	4
##	613	822829	8	10	10	10	6	10.00	10	10	10	4
##	614	1016634	2	3	1	1	2	1.00	2	1	1	2
##	615	1031608	2	1	1	1	1	1.00	2	1	1	2
##	616	1041043	4	1	3	1	2	1.00	2	1	1	2
##	617	1042252	3	1	1	1	2	1.00	2	1	1	2
##	618	1057067	1	1	1	1	1	3.54	1	1	1	2
##	619	1061990	4	1	1	1	2	1.00	2	1	1	2
##	620	1073836	5	1	1	1	2	1.00	2	1	1	2
##	621	1083817	3	1	1	1	2	1.00	2	1	1	2
##	622	1096352	6	3	3	3	3	2.00	6	1	1	2
##	623	1140597	7	1	2	3	2	1.00	2	1	1	2
##	624	1149548	1	1	1	1	2	1.00	1	1	1	2
##	625	1174009	5	1	1	2	1	1.00	2	1	1	2
##	626	1183596	3	1	3	1	3	4.00	1	1	1	2
##	627	1190386	4	6	6	5	7	6.00	7	7	3	4
##	628	1190546	2	1	1	1	2	5.00	1	1	1	2
##	629	1213273	2	1	1	1	2	1.00	1	1	1	2
##	630	1218982	4	1	1	1	2	1.00	1	1	1	2
##	631	1225382	6	2	3	1	2	1.00	1	1	1	2
##	632	1235807	5	1	1	1	2	1.00	2	1	1	2
##	633	1238777	1	1	1	1	2	1.00	1	1	1	2
##	634	1253955	8	7	4	4	5	3.00	5	10	1	4
##	635	1257366	3	1	1	1	2	1.00	1	1	1	2
##	636	1260659	3	1	4	1	2	1.00	1	1	1	2
##	637	1268952	10	10	7	8	7	1.00	10	10	3	4
##	638	1275807	4	2	4	3	2	2.00	2	1	1	2
##	639	1277792	4	1	1	1	2	1.00	1	1	1	2
##	640	1277792	5	1	1	3	2	1.00	1	1	1	2
##	641	1285722	4	1	1	3	2	1.00	1	1	1	2
##	642	1288608	3	1	1	1	2	1.00	2	1	1	2
##	643	1290203	3	1	1	1	2	1.00	2	1	1	2
##	644	1294413	1	1	1	1	2	1.00	1	1	1	2
##	645	1299596	2	1	1	1	2	1.00	1	1	1	2
##	646	1303489	3	1	1	1	2	1.00	2	1	1	2
##	647	1311033	1	2	2	1	2	1.00	1	1	1	2

## 648	1311108	1	1	1	3	2	1.00	1	1	1	2
## 649	1315807	5	10	10	10	10	2.00	10	10	10	4
## 650	1318671	3	1	1	1	2	1.00	2	1	1	2
## 651	1319609	3	1	1	2	3	4.00	1	1	1	2
## 652	1323477	1	2	1	3	2	1.00	2	1	1	2
## 653	1324572	5	1	1	1	2	1.00	2	2	1	2
## 654	1324681	4	1	1	1	2	1.00	2	1	1	2
## 655	1325159	3	1	1	1	2	1.00	3	1	1	2
## 656	1326892	3	1	1	1	2	1.00	2	1	1	2
## 657	1330361	5	1	1	1	2	1.00	2	1	1	2
## 658	1333877	5	4	5	1	8	1.00	3	6	1	2
## 659	1334015	7	8	8	7	3	10.00	7	2	3	4
## 660	1334667	1	1	1	1	2	1.00	1	1	1	2
## 661	1339781	1	1	1	1	2	1.00	2	1	1	2
## 662	1339781	4	1	1	1	2	1.00	3	1	1	2
## 663	13454352	1	1	3	1	2	1.00	2	1	1	2
## 664	1345452	1	1	3	1	2	1.00	2	1	1	2
## 665	1345593	3	1	1	3	2	1.00	2	1	1	2
## 666	1347749	1	1	1	1	2	1.00	1	1	1	2
## 667	1347943	5	2	2	2	2	1.00	1	1	2	2
## 668	1348851	3	1	1	1	2	1.00	3	1	1	2
## 669	1350319	5	7	4	1	6	1.00	7	10	3	4
## 670	1350423	5	10	10	8	5	5.00	7	10	1	4
## 671	1352848	3	10	7	8	5	8.00	7	4	1	4
## 672	1353092	3	2	1	2	2	1.00	3	1	1	2
## 673	1354840	2	1	1	1	2	1.00	3	1	1	2
## 674	1354840	5	3	2	1	3	1.00	1	1	1	2
## 675	1355260	1	1	1	1	2	1.00	2	1	1	2
## 676	1365075	4	1	4	1	2	1.00	1	1	1	2
## 677	1365328	1	1	2	1	2	1.00	2	1	1	2
## 678	1368267	5	1	1	1	2	1.00	1	1	1	2
## 679	1368273	1	1	1	1	2	1.00	1	1	1	2
## 680	1368882	2	1	1	1	2	1.00	1	1	1	2
## 681	1369821	10	10	10	10	5	10.00	10	10	7	4
## 682	1371026	5	10	10	10	4	10.00	5	6	3	4
## 683	1371920	5	1	1	1	2	1.00	3	2	1	2
## 684	466906	1	1	1	1	2	1.00	1	1	1	2
## 685	466906	1	1	1	1	2	1.00	1	1	1	2
## 686	534555	1	1	1	1	2	1.00	1	1	1	2
## 687	536708	1	1	1	1	2	1.00	1	1	1	2
## 688	566346	3	1	1	1	2	1.00	2	3	1	2
## 689	603148	4	1	1	1	2	1.00	1	1	1	2
## 690	654546	1	1	1	1	2	1.00	1	1	8	2
## 691	654546	1	1	1	3	2	1.00	1	1	1	2
## 692	695091	5	10	10	5	4	5.00	4	4	1	4
## 693	714039	3	1	1	1	2	1.00	1	1	1	2
## 694	763235	3	1	1	1	2	1.00	2	1	2	2
## 695	776715	3	1	1	1	3	2.00	1	1	1	2
## 696	841769	2	1	1	1	2	1.00	1	1	1	2
## 697	888820	5	10	10	3	7	3.00	8	10	2	4
## 698	897471	4	8	6	4	3	4.00	10	6	1	4
## 699	897471	4	8	8	5	4	5.00	10	4	1	4

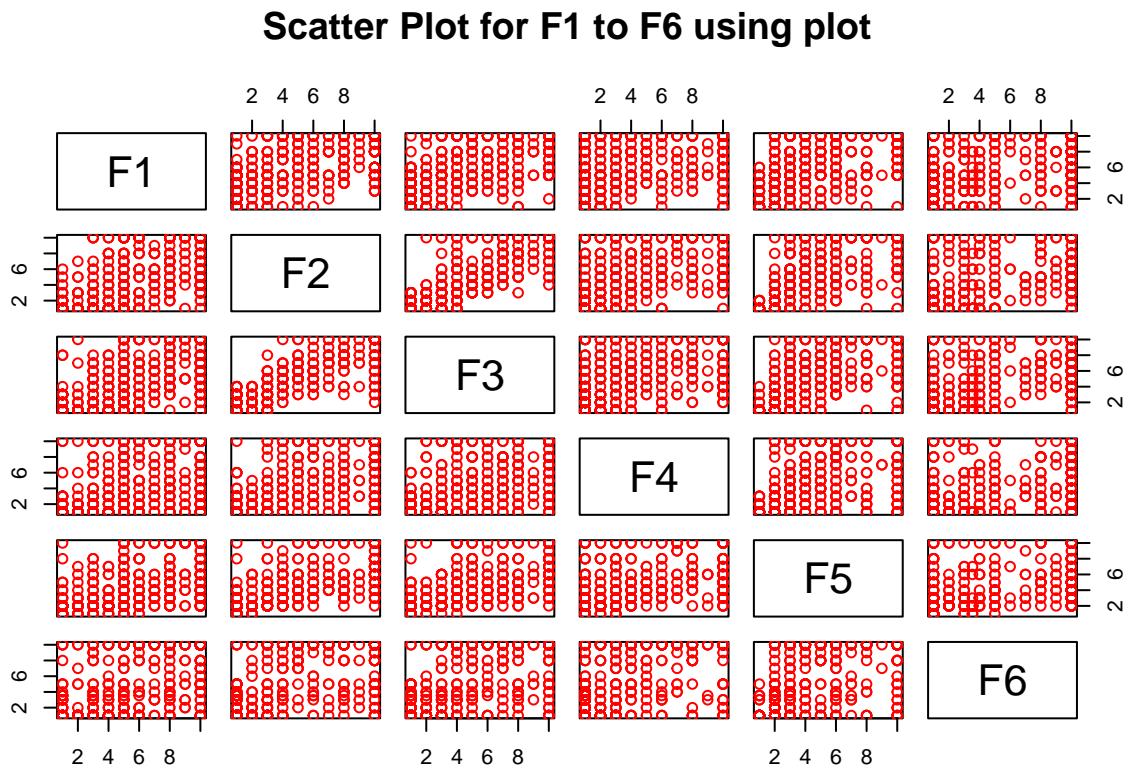
Displaying frequency table of Class vs F6

```
table(data$Class,data$F6)
```

```
##
##      1  2  3 3.54  4  5  6  7  8  9 10
##    2 387 21 14  14  6 10  0  1  2  0  3
##    4  15  9 14   2 13 20  4  7 19  9 129
```

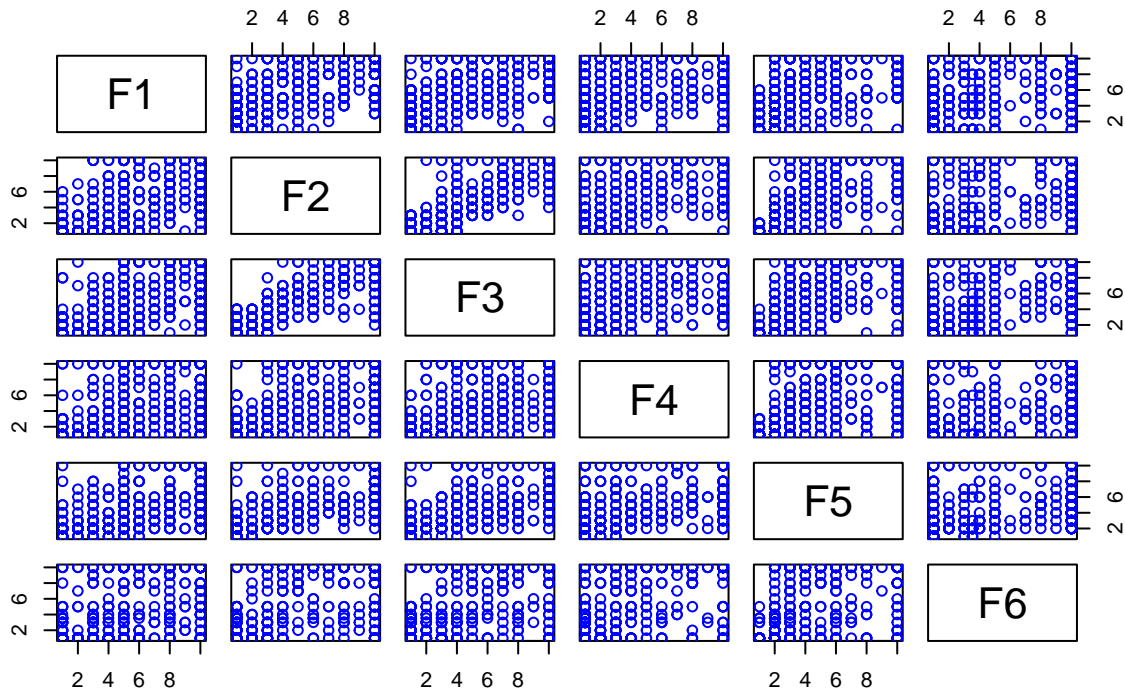
Displaying scatter plot F1 to F6 one pair at a time

```
plot(data[, 2:7], col="red", main="Scatter Plot for F1 to F6 using plot")
```



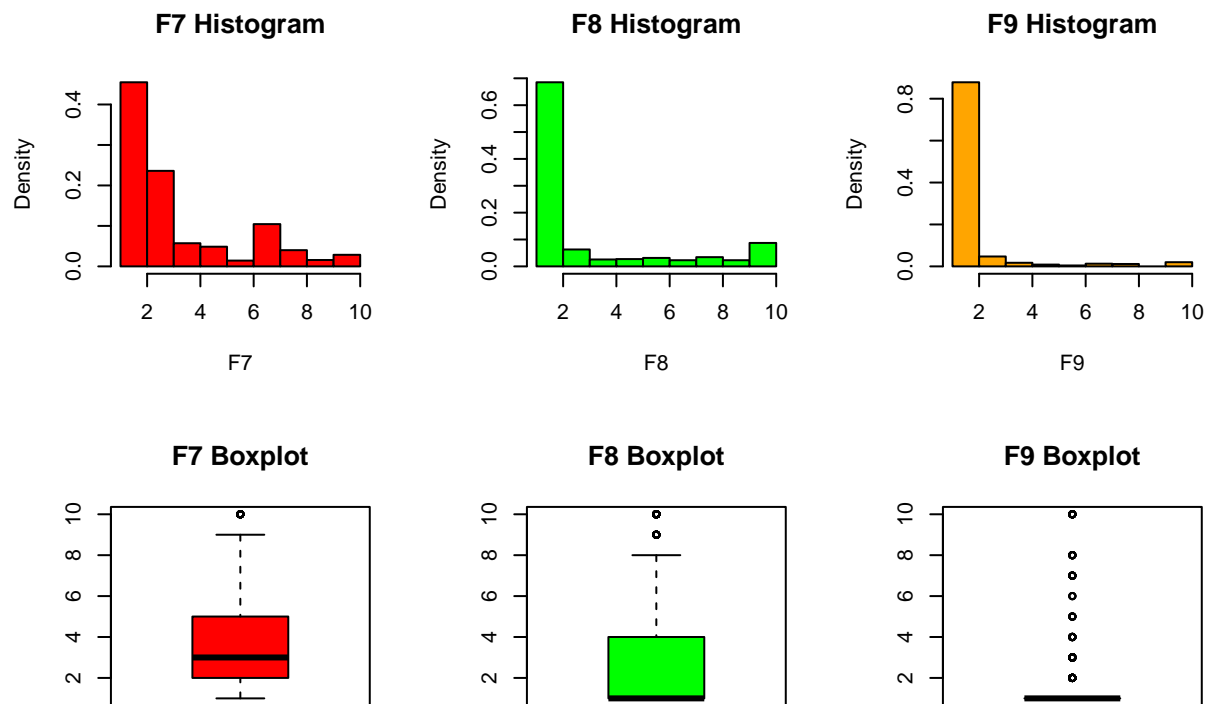
```
pairs(data[, 2:7], col="blue", main="Scatter Plot for F1 to F6 using pairs")
```


Scatter Plot for F1 to F6 using pairs



Displaying histogram box plot for F7 to F9

```
par(mfrow = c(2, 3))
hist(data$F7, prob = TRUE, main = 'F7 Histogram', xlab = 'F7', col = "red")
hist(data$F8, prob = TRUE, main = 'F8 Histogram', xlab = 'F8', col = "green")
hist(data$F9, prob = TRUE, main = 'F9 Histogram', xlab = 'F9', col = "orange")
boxplot(data$F7, main = "F7 Boxplot", col = "red")
boxplot(data$F8, main = "F8 Boxplot", col = "green")
boxplot(data$F9, main = "F9 Boxplot", col = "orange")
```



Deleting all objects

```
ls()
```

```
## [1] "data" "i"
```

```
rm(list = ls())
```

Loading breast-cancer-wisconsin.csv and replacing '?' with NA

```
data <- read.csv("breast-cancer-wisconsin.csv", na.strings = '?')
```

Deleting rows with NA values

```
data = na.omit(data)
```

Final number of rows after deletion

```
nrow(data)
```

```
## [1] 683
```

Printing the data

```
print.data.frame(data)
```

```
##      Sample F1 F2 F3 F4 F5 F6 F7 F8 F9 Class
## 1  1000025  5  1  1  1  2  1  3  1  1     2
## 2  1002945  5  4  4  5  7 10  3  2  1     2
## 3  1015425  3  1  1  1  2  2  3  1  1     2
## 4  1016277  6  8  8  1  3  4  3  7  1     2
## 5  1017023  4  1  1  3  2  1  3  1  1     2
## 6  1017122  8 10 10  8  7 10  9  7  1     4
## 7  1018099  1  1  1  1  2 10  3  1  1     2
## 8  1018561  2  1  2  1  2  1  3  1  1     2
## 9  1033078  2  1  1  1  2  1  1  1  5     2
## 10 1033078  4  2  1  1  2  1  2  1  1     2
## 11 1035283  1  1  1  1  1  1  3  1  1     2
## 12 1036172  2  1  1  1  2  1  2  1  1     2
## 13 1041801  5  3  3  3  2  3  4  4  1     4
## 14 1043999  1  1  1  1  2  3  3  1  1     2
## 15 1044572  8  7  5 10  7  9  5  5  4     4
## 16 1047630  7  4  6  4  6  1  4  3  1     4
## 17 1048672  4  1  1  1  2  1  2  1  1     2
## 18 1049815  4  1  1  1  2  1  3  1  1     2
## 19 1050670 10  7  7  6  4 10  4  1  2     4
## 20 1050718  6  1  1  1  2  1  3  1  1     2
## 21 1054590  7  3  2 10  5 10  5  4  4     4
## 22 1054593 10  5  5  3  6  7  7 10  1     4
## 23 1056784  3  1  1  1  2  1  2  1  1     2
## 25 1059552  1  1  1  1  2  1  3  1  1     2
## 26 1065726  5  2  3  4  2  7  3  6  1     4
## 27 1066373  3  2  1  1  1  1  2  1  1     2
## 28 1066979  5  1  1  1  2  1  2  1  1     2
## 29 1067444  2  1  1  1  2  1  2  1  1     2
## 30 1070935  1  1  3  1  2  1  1  1  1     2
## 31 1070935  3  1  1  1  1  1  2  1  1     2
## 32 1071760  2  1  1  1  2  1  3  1  1     2
## 33 1072179 10  7  7  3  8  5  7  4  3     4
## 34 1074610  2  1  1  2  2  1  3  1  1     2
## 35 1075123  3  1  2  1  2  1  2  1  1     2
## 36 1079304  2  1  1  1  2  1  2  1  1     2
## 37 1080185 10 10 10  8  6  1  8  9  1     4
## 38 1081791  6  2  1  1  1  1  7  1  1     2
## 39 1084584  5  4  4  9  2 10  5  6  1     4
## 40 1091262  2  5  3  3  6  7  7  5  1     4
## 42 1099510 10  4  3  1  3  3  6  5  2     4
## 43 1100524  6 10 10  2  8 10  7  3  3     4
```

## 44	1102573	5	6	5	6	10	1	3	1	1	4
## 45	1103608	10	10	10	4	8	1	8	10	1	4
## 46	1103722	1	1	1	1	2	1	2	1	2	2
## 47	1105257	3	7	7	4	4	9	4	8	1	4
## 48	1105524	1	1	1	1	2	1	2	1	1	2
## 49	1106095	4	1	1	3	2	1	3	1	1	2
## 50	1106829	7	8	7	2	4	8	3	8	2	4
## 51	1108370	9	5	8	1	2	3	2	1	5	4
## 52	1108449	5	3	3	4	2	4	3	4	1	4
## 53	1110102	10	3	6	2	3	5	4	10	2	4
## 54	1110503	5	5	5	8	10	8	7	3	7	4
## 55	1110524	10	5	5	6	8	8	7	1	1	4
## 56	1111249	10	6	6	3	4	5	3	6	1	4
## 57	1112209	8	10	10	1	3	6	3	9	1	4
## 58	1113038	8	2	4	1	5	1	5	4	4	4
## 59	1113483	5	2	3	1	6	10	5	1	1	4
## 60	1113906	9	5	5	2	2	2	5	1	1	4
## 61	1115282	5	3	5	5	3	3	4	10	1	4
## 62	1115293	1	1	1	1	2	2	2	1	1	2
## 63	1116116	9	10	10	1	10	8	3	3	1	4
## 64	1116132	6	3	4	1	5	2	3	9	1	4
## 65	1116192	1	1	1	1	2	1	2	1	1	2
## 66	1116998	10	4	2	1	3	2	4	3	10	4
## 67	1117152	4	1	1	1	2	1	3	1	1	2
## 68	1118039	5	3	4	1	8	10	4	9	1	4
## 69	1120559	8	3	8	3	4	9	8	9	8	4
## 70	1121732	1	1	1	1	2	1	3	2	1	2
## 71	1121919	5	1	3	1	2	1	2	1	1	2
## 72	1123061	6	10	2	8	10	2	7	8	10	4
## 73	1124651	1	3	3	2	2	1	7	2	1	2
## 74	1125035	9	4	5	10	6	10	4	8	1	4
## 75	1126417	10	6	4	1	3	4	3	2	3	4
## 76	1131294	1	1	2	1	2	2	4	2	1	2
## 77	1132347	1	1	4	1	2	1	2	1	1	2
## 78	1133041	5	3	1	2	2	1	2	1	1	2
## 79	1133136	3	1	1	1	2	3	3	1	1	2
## 80	1136142	2	1	1	1	3	1	2	1	1	2
## 81	1137156	2	2	2	1	1	1	7	1	1	2
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## 85	1147699	3	5	7	8	8	9	7	10	7	4
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## 87	1148278	3	3	6	4	5	8	4	4	1	4
## 88	1148873	3	6	6	6	5	10	6	8	3	4
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## 101	1166654	10	3	5	1	10	5	3	10	2	4
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## 105	1168736	10	10	10	10	10	1	8	8	8	4
## 106	1169049	7	3	4	4	3	3	3	2	7	4
## 107	1170419	10	10	10	8	2	10	4	1	1	4
## 108	1170420	1	6	8	10	8	10	5	7	1	4
## 109	1171710	1	1	1	1	2	1	2	3	1	2
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## 112	1171845	8	6	4	3	5	9	3	1	1	4
## 113	1172152	10	3	3	10	2	10	7	3	3	4
## 114	1173216	10	10	10	3	10	8	8	1	1	4
## 115	1173235	3	3	2	1	2	3	3	1	1	2
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## 125	1175937	5	4	6	7	9	7	8	10	1	4
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## 128	1177027	3	1	1	1	2	1	3	1	1	2
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## 130	1177512	1	1	1	1	10	1	1	1	1	2
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## 157	1193091	1	2	2	1	2	1	2	1	1	2
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## 169	1198641	3	1	1	1	2	1	3	1	1	2
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## 207	1218741	10	10	9	3	7	5	3	5	1	4
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##	232	1231387	6	8	7	5	6	8	8	9	2	4
##	233	1231706	8	4	6	3	3	1	4	3	1	2
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##	235	1236043	3	3	2	1	3	1	3	6	1	2
##	237	1241559	10	8	8	2	8	10	4	8	10	4
##	238	1241679	9	8	8	5	6	2	4	10	4	4
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##	252	191250	10	4	4	10	2	10	5	3	3	4
##	253	1017023	6	3	3	5	3	10	3	5	3	2
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##	256	1168736	5	6	6	2	4	10	3	6	1	4
##	257	1182404	3	1	1	1	2	1	1	1	1	2
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##	263	274137	8	8	9	4	5	10	7	8	1	4
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## 323	733639	3	1	1	1	2	1	3	1	1	2
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## 355	855524	1	1	1	1	2	1	2	1	1	2
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## 358	859350	8	10	10	7	10	10	7	3	8	4
## 359	866325	8	10	5	3	8	4	4	10	3	4
## 360	873549	10	3	5	4	3	7	3	5	3	4
## 361	877291	6	10	10	10	10	10	8	10	10	4
## 362	877943	3	10	3	10	6	10	5	1	4	4
## 363	888169	3	2	2	1	4	3	2	1	1	2
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## 407	1231853	4	2	2	1	2	1	2	1	1	2
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## 427	1258556	5	3	6	1	2	1	1	1	1	2
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## 438	527337	4	1	1	1	2	1	1	1	1	2
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## 492	1119189	5	8	9	4	3	10	7	1	1	4
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## 638	1275807	4	2	4	3	2	2	2	1	1	2
## 639	1277792	4	1	1	1	2	1	1	1	1	2
## 640	1277792	5	1	1	3	2	1	1	1	1	2
## 641	1285722	4	1	1	3	2	1	1	1	1	2
## 642	1288608	3	1	1	1	2	1	2	1	1	2
## 643	1290203	3	1	1	1	2	1	2	1	1	2
## 644	1294413	1	1	1	1	2	1	1	1	1	2
## 645	1299596	2	1	1	1	2	1	1	1	1	2
## 646	1303489	3	1	1	1	2	1	2	1	1	2
## 647	1311033	1	2	2	1	2	1	1	1	1	2
## 648	1311108	1	1	1	3	2	1	1	1	1	2
## 649	1315807	5	10	10	10	10	2	10	10	10	4
## 650	1318671	3	1	1	1	2	1	2	1	1	2
## 651	1319609	3	1	1	2	3	4	1	1	1	2

## 652	1323477	1	2	1	3	2	1	2	1	1	2
## 653	1324572	5	1	1	1	2	1	2	2	1	2
## 654	1324681	4	1	1	1	2	1	2	1	1	2
## 655	1325159	3	1	1	1	2	1	3	1	1	2
## 656	1326892	3	1	1	1	2	1	2	1	1	2
## 657	1330361	5	1	1	1	2	1	2	1	1	2
## 658	1333877	5	4	5	1	8	1	3	6	1	2
## 659	1334015	7	8	8	7	3	10	7	2	3	4
## 660	1334667	1	1	1	1	2	1	1	1	1	2
## 661	1339781	1	1	1	1	2	1	2	1	1	2
## 662	1339781	4	1	1	1	2	1	3	1	1	2
## 663	13454352	1	1	3	1	2	1	2	1	1	2
## 664	1345452	1	1	3	1	2	1	2	1	1	2
## 665	1345593	3	1	1	3	2	1	2	1	1	2
## 666	1347749	1	1	1	1	2	1	1	1	1	2
## 667	1347943	5	2	2	2	2	1	1	1	2	2
## 668	1348851	3	1	1	1	2	1	3	1	1	2
## 669	1350319	5	7	4	1	6	1	7	10	3	4
## 670	1350423	5	10	10	8	5	5	7	10	1	4
## 671	1352848	3	10	7	8	5	8	7	4	1	4
## 672	1353092	3	2	1	2	2	1	3	1	1	2
## 673	1354840	2	1	1	1	2	1	3	1	1	2
## 674	1354840	5	3	2	1	3	1	1	1	1	2
## 675	1355260	1	1	1	1	2	1	2	1	1	2
## 676	1365075	4	1	4	1	2	1	1	1	1	2
## 677	1365328	1	1	2	1	2	1	2	1	1	2
## 678	1368267	5	1	1	1	2	1	1	1	1	2
## 679	1368273	1	1	1	1	2	1	1	1	1	2
## 680	1368882	2	1	1	1	2	1	1	1	1	2
## 681	1369821	10	10	10	10	5	10	10	10	7	4
## 682	1371026	5	10	10	10	4	10	5	6	3	4
## 683	1371920	5	1	1	1	2	1	3	2	1	2
## 684	466906	1	1	1	1	2	1	1	1	1	2
## 685	466906	1	1	1	1	2	1	1	1	1	2
## 686	534555	1	1	1	1	2	1	1	1	1	2
## 687	536708	1	1	1	1	2	1	1	1	1	2
## 688	566346	3	1	1	1	2	1	2	3	1	2
## 689	603148	4	1	1	1	2	1	1	1	1	2
## 690	654546	1	1	1	1	2	1	1	1	8	2
## 691	654546	1	1	1	3	2	1	1	1	1	2
## 692	695091	5	10	10	5	4	5	4	4	1	4
## 693	714039	3	1	1	1	2	1	1	1	1	2
## 694	763235	3	1	1	1	2	1	2	1	2	2
## 695	776715	3	1	1	1	3	2	1	1	1	2
## 696	841769	2	1	1	1	2	1	1	1	1	2
## 697	888820	5	10	10	3	7	3	8	10	2	4
## 698	897471	4	8	6	4	3	4	10	6	1	4
## 699	897471	4	8	8	5	4	5	10	4	1	4