

Decision Tree Case Study

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01/06/2021

example 1

```
data("mtcars")
str(mtcars)
```

```
## 'data.frame':   32 obs. of  11 variables:
## $ mpg : num  21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
## $ cyl : num   6  6  4  6  8  6  8  4  4  6 ...
## $ disp: num  160 160 108 258 360 ...
## $ hp  : num  110 110  93 110 175 105 245  62  95 123 ...
## $ drat: num   3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt  : num   2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num  16.5 17 18.6 19.4 17 ...
## $ vs  : num   0  0  1  1  0  1  0  1  1  1 ...
## $ am  : num   1  1  1  0  0  0  0  0  0  0 ...
## $ gear: num   4  4  4  3  3  3  3  4  4  4 ...
## $ carb: num   4  4  1  1  2  1  4  2  2  4 ...
```

```
mtcars$vs <- as.factor(mtcars$vs)
mtcars$am <- as.factor(mtcars$am)
```

Step 1 : split the data into train and test data

```
library(caret)
```

```
## Loading required package: lattice
```

```
## Loading required package: ggplot2
```

```
library(caTools)
library(rpart.plot)
```

```
## Loading required package: rpart
```

```
set.seed(1)
split <- sample.split(mtcars, SplitRatio = 0.8)
split
```

```
## [1] TRUE TRUE TRUE FALSE TRUE FALSE FALSE TRUE TRUE TRUE TRUE
```

```
train <- subset(mtcars, split = "TRUE")
test <- subset(mtcars, split="FALSE")
str(train)
```

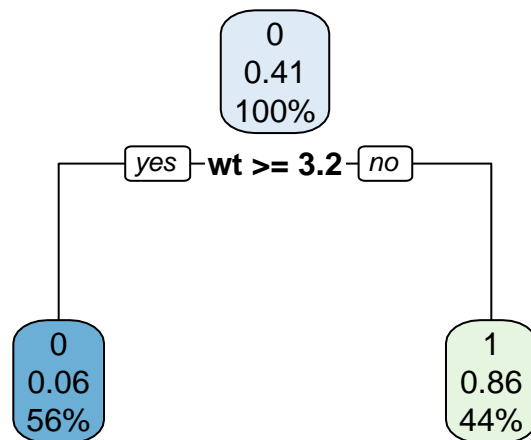
```
## 'data.frame': 32 obs. of 11 variables:
## $ mpg : num 21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
## $ cyl : num 6 6 4 6 8 6 8 4 4 6 ...
## $ disp: num 160 160 108 258 360 ...
## $ hp : num 110 110 93 110 175 105 245 62 95 123 ...
## $ drat: num 3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt : num 2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num 16.5 17 18.6 19.4 17 ...
## $ vs : Factor w/ 2 levels "0","1": 1 1 2 2 1 2 1 2 2 2 ...
## $ am : Factor w/ 2 levels "0","1": 2 2 2 1 1 1 1 1 1 1 ...
## $ gear: num 4 4 4 3 3 3 3 4 4 4 ...
## $ carb: num 4 4 1 1 2 1 4 2 2 4 ...
```

```
str(test)
```

```
## 'data.frame': 32 obs. of 11 variables:
## $ mpg : num 21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
## $ cyl : num 6 6 4 6 8 6 8 4 4 6 ...
## $ disp: num 160 160 108 258 360 ...
## $ hp : num 110 110 93 110 175 105 245 62 95 123 ...
## $ drat: num 3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt : num 2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num 16.5 17 18.6 19.4 17 ...
## $ vs : Factor w/ 2 levels "0","1": 1 1 2 2 1 2 1 2 2 2 ...
## $ am : Factor w/ 2 levels "0","1": 2 2 2 1 1 1 1 1 1 1 ...
## $ gear: num 4 4 4 3 3 3 3 4 4 4 ...
## $ carb: num 4 4 1 1 2 1 4 2 2 4 ...
```

#Step 2: Train the model

```
#recurssive partitioning
library(rpart)
Dec_Tree_Model <- rpart(am ~., data = train, method = "class")
rpart.plot(Dec_Tree_Model)
```



#step 3 - Prediction

```
fitted.value <- predict(Dec_Tree_Model, newdata = test, type = "class")
```

#Step 4 - evaluate

```
table(test$am, fitted.value)
```

```
##      fitted.value
##      0  1
##  0 17  2
##  1  1 12
```

```
misClassError <- mean(fitted.value != test$am)
print(paste('Accuracy = ', 1 - misClassError ))
```

```
## [1] "Accuracy = 0.90625"
```

```
churn_data <- read.csv("Churn Data.csv")
churn_data
```

```
##      Churn AccountWeeks ContractRenewal DataPlan DataUsage CustServCalls
## 1           0           128              1           1           2.70           1
```

## 2	0	107	1	1	3.70	1
## 3	0	137	1	0	0.00	0
## 4	0	84	0	0	0.00	2
## 5	0	75	0	0	0.00	3
## 6	0	118	0	0	0.00	0
## 7	0	121	1	1	2.03	3
## 8	0	147	0	0	0.00	0
## 9	0	117	1	0	0.19	1
## 10	0	141	0	1	3.02	0
## 11	1	65	1	0	0.29	4
## 12	0	74	1	0	0.34	0
## 13	0	168	1	0	0.00	1
## 14	0	95	1	0	0.44	3
## 15	0	62	1	0	0.00	4
## 16	1	161	1	0	0.00	4
## 17	0	85	1	1	3.73	1
## 18	0	93	1	0	0.00	3
## 19	0	76	1	1	2.70	1
## 20	0	73	1	0	0.00	1
## 21	0	147	1	0	0.31	0
## 22	1	77	1	0	0.00	5
## 23	0	130	1	0	0.00	0
## 24	0	111	1	0	0.39	2
## 25	0	132	1	0	0.00	0
## 26	0	174	1	0	0.00	3
## 27	0	57	1	1	2.57	0
## 28	0	54	1	0	0.00	3
## 29	0	20	1	0	0.32	0
## 30	0	49	1	0	0.21	1
## 31	0	142	1	0	0.00	2
## 32	0	75	1	0	0.00	1
## 33	0	172	1	0	0.00	3
## 34	1	12	1	0	0.00	1
## 35	0	57	1	1	2.24	0
## 36	0	72	1	1	3.97	3
## 37	0	36	1	1	3.92	0
## 38	0	78	1	0	0.00	1
## 39	0	136	0	1	2.84	3
## 40	0	149	1	0	0.00	1
## 41	0	98	1	0	0.30	3
## 42	1	135	0	1	3.94	0
## 43	0	34	1	0	0.00	2
## 44	0	160	1	0	0.38	3
## 45	0	64	1	0	0.24	1
## 46	0	59	1	1	2.30	2
## 47	0	65	1	0	0.00	3
## 48	0	142	1	0	0.35	2
## 49	1	119	1	0	0.00	5
## 50	0	97	1	1	2.97	1
## 51	0	52	1	0	0.32	3
## 52	0	60	1	0	0.00	1
## 53	0	10	1	0	0.00	2
## 54	0	96	1	0	0.21	2
## 55	1	87	1	0	0.00	5

## 56	0	81	1	0	0.11	1
## 57	0	141	1	0	0.00	1
## 58	1	121	1	1	1.57	3
## 59	0	68	1	0	0.00	3
## 60	0	125	1	0	0.00	1
## 61	0	174	1	0	0.00	1
## 62	0	116	1	1	3.13	2
## 63	0	74	1	1	3.94	2
## 64	0	149	1	1	3.40	3
## 65	0	38	1	0	0.00	2
## 66	0	40	1	1	1.67	2
## 67	0	43	0	0	0.00	0
## 68	0	113	0	0	0.00	0
## 69	0	126	1	0	0.00	1
## 70	1	150	1	0	0.00	4
## 71	0	138	1	0	0.00	3
## 72	0	162	1	1	3.27	0
## 73	0	147	1	0	0.00	3
## 74	0	90	1	0	0.00	1
## 75	0	85	1	0	0.00	0
## 76	0	50	1	0	0.00	1
## 77	1	82	1	0	0.21	0
## 78	1	144	1	0	0.21	4
## 79	0	46	1	0	0.26	2
## 80	0	70	1	0	0.30	1
## 81	0	144	1	0	0.00	1
## 82	0	116	0	0	0.30	3
## 83	0	55	1	1	2.97	3
## 84	0	70	1	1	2.65	1
## 85	1	106	1	0	0.00	2
## 86	0	128	1	1	2.32	0
## 87	1	94	1	0	0.00	4
## 88	0	111	1	0	0.00	1
## 89	0	74	1	1	2.94	2
## 90	1	128	1	0	0.00	1
## 91	0	82	1	0	0.17	1
## 92	1	155	1	0	0.00	0
## 93	0	80	1	0	0.00	1
## 94	0	78	1	0	0.00	3
## 95	0	90	1	0	0.00	3
## 96	0	104	1	0	0.30	1
## 97	0	73	1	0	0.00	0
## 98	0	99	1	0	0.00	4
## 99	1	120	1	0	0.00	1
## 100	1	77	1	0	0.00	2
## 101	0	98	1	1	1.19	4
## 102	0	108	1	0	0.34	0
## 103	0	135	1	0	0.00	0
## 104	0	95	1	0	0.00	1
## 105	0	122	1	0	0.39	1
## 106	0	95	1	0	0.00	4
## 107	0	36	1	1	2.43	2
## 108	0	93	1	1	2.65	1
## 109	0	141	1	1	2.73	1

## 110	0	157	1	0	0.00	3
## 111	0	120	1	0	0.00	1
## 112	0	103	1	0	0.00	2
## 113	0	98	1	0	0.00	4
## 114	0	125	1	0	0.00	1
## 115	0	63	1	0	0.00	1
## 116	1	36	0	1	5.40	0
## 117	0	64	1	0	0.29	1
## 118	1	74	1	0	0.21	1
## 119	0	112	1	1	2.70	2
## 120	0	97	1	0	0.00	2
## 121	0	46	1	0	0.21	1
## 122	0	41	1	1	1.94	0
## 123	0	121	1	0	0.00	3
## 124	0	193	1	0	0.00	1
## 125	0	130	1	0	0.00	2
## 126	0	85	1	0	0.40	1
## 127	1	162	1	0	0.00	4
## 128	1	61	1	1	1.73	4
## 129	0	92	1	0	0.00	2
## 130	0	131	1	1	2.57	3
## 131	0	90	1	0	0.00	3
## 132	0	75	1	0	0.00	1
## 133	0	78	1	0	0.00	1
## 134	0	82	1	0	0.00	4
## 135	0	163	1	0	0.00	1
## 136	0	91	0	0	0.31	3
## 137	0	75	1	1	1.43	5
## 138	0	91	1	0	0.00	3
## 139	0	127	1	1	3.02	1
## 140	0	113	1	1	2.75	2
## 141	0	110	1	0	0.00	1
## 142	0	120	1	1	2.84	0
## 143	0	157	1	1	1.84	3
## 144	0	103	1	0	0.00	1
## 145	1	117	0	0	0.00	2
## 146	0	140	1	0	0.00	3
## 147	0	127	1	0	0.00	1
## 148	0	83	0	0	0.26	1
## 149	0	121	1	0	0.00	1
## 150	0	145	1	1	3.00	2
## 151	0	113	1	0	0.00	1
## 152	0	117	1	0	0.00	1
## 153	0	65	1	0	0.00	1
## 154	0	56	1	0	0.00	1
## 155	0	96	1	0	0.00	5
## 156	0	151	1	0	0.00	0
## 157	1	83	1	0	0.00	0
## 158	0	139	1	1	3.70	0
## 159	0	6	1	0	0.00	1
## 160	0	115	1	1	2.59	1
## 161	0	87	1	0	0.31	0
## 162	0	141	1	0	0.00	0
## 163	0	141	1	1	2.84	3

## 164	0	62	1	0	0.00	1
## 165	0	146	1	0	0.00	1
## 166	0	92	1	1	3.27	2
## 167	0	185	1	1	2.03	1
## 168	0	148	1	0	0.39	1
## 169	0	94	1	1	3.46	1
## 170	0	32	1	0	0.00	0
## 171	0	68	1	0	0.00	1
## 172	0	64	1	1	2.86	2
## 173	0	25	1	0	0.14	3
## 174	0	65	1	0	0.00	1
## 175	0	179	1	0	0.00	0
## 176	0	94	1	0	0.00	2
## 177	0	62	1	0	0.00	0
## 178	0	127	1	0	0.00	2
## 179	0	116	1	0	0.23	3
## 180	0	70	1	0	0.00	3
## 181	0	94	0	1	2.57	4
## 182	1	126	1	0	0.00	5
## 183	0	67	1	1	2.67	2
## 184	0	19	1	0	0.14	2
## 185	0	170	0	0	0.00	3
## 186	0	73	1	0	0.00	1
## 187	0	106	1	0	0.00	1
## 188	0	93	1	0	0.19	2
## 189	0	164	1	0	0.27	1
## 190	0	51	1	0	0.00	1
## 191	0	107	1	0	0.00	0
## 192	0	130	1	0	0.35	1
## 193	0	80	1	0	0.00	2
## 194	0	94	1	0	0.22	0
## 195	0	118	1	1	2.57	1
## 196	0	117	1	1	1.84	1
## 197	0	78	1	0	0.00	0
## 198	1	208	1	0	0.33	2
## 199	1	131	0	1	3.73	4
## 200	0	63	1	0	0.00	0
## 201	0	53	1	1	3.54	3
## 202	0	62	1	0	0.00	2
## 203	0	97	1	0	0.00	3
## 204	0	105	1	0	0.00	2
## 205	0	157	1	0	0.00	1
## 206	0	66	1	1	3.27	1
## 207	0	122	1	0	0.00	2
## 208	0	38	1	0	0.00	3
## 209	0	106	1	0	0.00	3
## 210	0	99	1	0	0.00	3
## 211	0	99	1	0	0.00	1
## 212	0	144	0	0	0.00	0
## 213	0	82	1	1	2.89	1
## 214	0	86	1	1	3.29	1
## 215	1	70	0	0	0.00	2
## 216	0	93	1	0	0.00	3
## 217	0	93	1	0	0.31	0

## 218	0	120	1	0	0.00	3
## 219	1	136	1	0	0.00	1
## 220	0	106	1	0	0.40	0
## 221	0	81	1	0	0.00	3
## 222	0	127	1	1	2.75	1
## 223	0	65	1	0	0.00	1
## 224	0	35	1	0	0.32	2
## 225	0	88	1	0	0.00	2
## 226	0	65	1	0	0.00	1
## 227	0	123	1	0	0.00	3
## 228	0	126	1	1	2.59	2
## 229	0	104	1	1	3.59	4
## 230	0	45	1	1	3.21	0
## 231	1	93	0	0	0.00	0
## 232	0	63	0	1	2.97	1
## 233	0	100	1	0	0.25	3
## 234	0	53	1	0	0.00	0
## 235	0	92	0	0	0.00	1
## 236	1	139	1	0	0.00	5
## 237	0	110	1	1	2.43	2
## 238	0	110	1	0	0.31	3
## 239	0	215	1	0	0.31	0
## 240	0	73	1	0	0.00	1
## 241	0	138	1	0	0.00	0
## 242	1	137	0	0	0.00	2
## 243	0	36	1	0	0.25	1
## 244	0	85	1	0	0.00	3
## 245	1	108	1	0	0.00	0
## 246	0	22	1	0	0.00	0
## 247	0	107	1	1	3.00	0
## 248	0	51	1	0	0.00	0
## 249	0	94	1	0	0.00	4
## 250	0	119	1	1	3.19	2
## 251	1	33	1	1	3.75	4
## 252	0	106	1	0	0.00	4
## 253	0	82	1	0	0.00	3
## 254	0	86	1	1	2.57	0
## 255	0	97	0	0	0.28	0
## 256	0	106	1	1	3.81	4
## 257	0	108	1	0	0.00	1
## 258	0	114	1	0	0.29	1
## 259	1	92	0	0	0.00	1
## 260	0	59	1	0	0.00	1
## 261	0	24	1	1	1.81	1
## 262	0	151	1	0	0.00	1
## 263	0	117	1	0	0.00	1
## 264	0	78	1	0	0.51	1
## 265	0	155	1	0	0.00	2
## 266	0	114	1	1	3.08	1
## 267	0	114	1	1	2.27	4
## 268	0	119	1	0	0.00	3
## 269	0	64	1	1	1.22	0
## 270	0	118	0	0	0.00	2
## 271	0	101	1	0	0.00	0

## 272	0	117	1	0	0.00	1
## 273	0	49	1	1	2.16	3
## 274	0	139	1	0	0.00	3
## 275	0	92	1	1	2.70	1
## 276	0	83	1	0	0.00	3
## 277	0	148	0	0	0.00	0
## 278	1	144	1	1	1.76	2
## 279	0	131	1	1	2.94	2
## 280	0	146	0	0	0.00	3
## 281	0	143	1	0	0.42	2
## 282	0	81	1	0	0.13	2
## 283	0	48	1	1	3.29	1
## 284	0	86	1	1	2.43	1
## 285	0	71	1	0	0.00	3
## 286	0	145	1	1	4.21	2
## 287	0	137	1	0	0.00	2
## 288	0	137	1	0	0.27	2
## 289	0	167	1	0	0.00	0
## 290	1	89	1	0	0.00	1
## 291	0	199	1	1	2.16	0
## 292	0	132	1	0	0.00	0
## 293	0	94	1	0	0.00	1
## 294	1	96	1	1	2.78	5
## 295	0	96	1	1	2.65	1
## 296	0	166	1	0	0.29	1
## 297	0	74	1	0	0.20	2
## 298	0	36	1	0	0.34	0
## 299	0	113	1	0	0.00	4
## 300	0	94	1	0	0.00	1
## 301	0	67	1	0	0.00	2
## 302	1	127	1	0	0.26	1
## 303	1	121	1	0	0.00	0
## 304	0	158	1	0	0.00	1
## 305	0	136	1	0	0.34	1
## 306	0	196	1	0	0.00	2
## 307	1	113	1	0	0.00	1
## 308	1	122	1	0	0.00	4
## 309	0	112	1	0	0.29	0
## 310	0	209	1	0	0.00	3
## 311	1	62	1	0	0.00	1
## 312	0	110	1	1	2.62	1
## 313	0	16	1	0	0.00	0
## 314	0	73	1	0	0.00	0
## 315	0	128	1	0	0.00	0
## 316	0	39	1	0	0.23	1
## 317	0	103	1	1	2.08	2
## 318	0	119	1	1	2.05	3
## 319	0	173	1	1	1.35	3
## 320	1	128	0	1	2.54	2
## 321	0	86	1	0	0.00	0
## 322	0	114	1	1	3.48	1
## 323	0	104	1	0	0.00	0
## 324	0	148	1	0	0.00	1
## 325	0	129	1	0	0.00	3

## 326	0	100	1	1	1.92	0
## 327	0	121	1	1	3.08	1
## 328	0	143	1	1	2.57	1
## 329	0	76	1	0	0.00	0
## 330	0	158	1	0	0.14	0
## 331	0	116	1	0	0.24	3
## 332	1	54	1	0	0.00	1
## 333	1	86	1	0	0.30	7
## 334	0	108	1	0	0.00	0
## 335	0	66	1	0	0.00	1
## 336	0	151	1	1	2.32	1
## 337	0	99	1	0	0.00	0
## 338	0	55	1	0	0.00	2
## 339	0	77	1	0	0.00	2
## 340	0	78	1	0	0.00	0
## 341	1	89	1	0	0.00	1
## 342	0	101	1	0	0.00	1
## 343	0	44	1	1	3.78	0
## 344	0	98	1	1	0.00	2
## 345	0	64	1	1	3.59	1
## 346	0	141	1	0	0.00	3
## 347	0	81	1	1	3.29	1
## 348	0	162	1	0	0.00	1
## 349	0	83	1	1	3.54	3
## 350	1	100	1	0	0.34	4
## 351	0	59	1	0	0.51	4
## 352	0	179	0	1	2.73	4
## 353	0	79	1	0	0.00	1
## 354	0	117	1	0	0.00	2
## 355	1	64	0	0	0.18	2
## 356	0	31	1	0	0.28	1
## 357	0	124	0	0	0.00	1
## 358	0	122	1	1	2.30	2
## 359	0	37	0	1	2.48	1
## 360	0	90	1	1	1.57	1
## 361	1	159	0	0	0.44	1
## 362	0	148	1	0	0.00	0
## 363	0	39	1	1	3.24	1
## 364	0	77	1	0	0.14	2
## 365	0	194	1	0	0.00	0
## 366	1	154	1	0	0.00	1
## 367	0	112	1	0	0.00	4
## 368	0	45	1	0	0.00	1
## 369	0	132	1	0	0.22	1
## 370	0	128	1	0	0.28	0
## 371	0	135	1	0	0.42	1
## 372	0	56	1	0	0.00	2
## 373	1	151	0	0	0.29	0
## 374	0	32	1	0	0.00	2
## 375	0	90	1	0	0.00	2
## 376	0	87	1	1	2.86	0
## 377	0	138	1	0	0.43	2
## 378	0	79	1	0	0.00	1
## 379	1	95	0	0	0.00	1

## 380	0	127	1	0	0.33	2
## 381	0	137	1	0	0.00	3
## 382	0	97	1	0	0.00	1
## 383	0	149	0	0	0.18	0
## 384	0	117	0	1	1.00	1
## 385	0	84	1	0	0.00	2
## 386	0	137	1	0	0.45	4
## 387	0	99	1	0	0.00	3
## 388	0	54	1	0	0.00	1
## 389	0	85	1	0	0.00	1
## 390	0	150	1	0	0.36	3
## 391	0	43	1	0	0.00	1
## 392	0	35	1	0	0.00	0
## 393	0	98	1	0	0.00	5
## 394	0	112	1	0	0.27	2
## 395	1	16	1	0	0.00	0
## 396	0	98	1	1	2.62	0
## 397	0	84	1	0	0.00	0
## 398	1	94	1	0	0.18	1
## 399	0	84	1	0	0.00	1
## 400	1	66	1	0	0.00	1
## 401	0	98	1	1	3.24	1
## 402	0	74	1	0	0.00	0
## 403	0	96	1	1	2.67	1
## 404	0	119	1	0	0.34	1
## 405	0	73	1	0	0.00	4
## 406	0	92	0	0	0.00	0
## 407	0	21	1	0	0.00	0
## 408	1	122	1	0	0.29	4
## 409	0	133	0	0	0.00	1
## 410	0	145	1	0	0.00	2
## 411	0	25	1	0	0.26	2
## 412	0	64	1	0	0.28	2
## 413	0	85	1	0	0.20	0
## 414	0	126	1	0	0.00	3
## 415	0	76	1	0	0.00	0
## 416	1	113	1	0	0.00	2
## 417	1	224	0	0	0.26	1
## 418	0	117	1	0	0.00	0
## 419	0	128	1	1	4.32	1
## 420	0	115	1	0	0.00	2
## 421	0	141	1	1	2.51	2
## 422	0	51	1	0	0.00	1
## 423	0	100	1	0	0.00	0
## 424	0	96	1	1	2.78	3
## 425	0	112	1	1	3.05	1
## 426	0	129	0	0	0.39	1
## 427	0	163	1	0	0.00	1
## 428	0	67	1	1	2.59	1
## 429	0	140	1	0	0.00	3
## 430	0	49	1	0	0.00	2
## 431	1	46	1	0	0.00	2
## 432	0	148	1	0	0.39	1
## 433	0	112	1	0	0.00	1

## 434	0	78	1	0	0.00	2
## 435	0	61	1	1	2.32	0
## 436	0	58	1	1	3.02	1
## 437	0	155	1	0	0.00	1
## 438	1	100	1	0	0.32	0
## 439	0	113	1	0	0.00	1
## 440	0	81	1	0	0.00	2
## 441	0	135	1	1	3.32	1
## 442	0	99	1	0	0.00	0
## 443	0	59	1	1	1.84	1
## 444	0	135	1	0	0.00	1
## 445	0	85	0	0	0.00	2
## 446	0	70	1	0	0.31	0
## 447	0	88	1	0	0.00	3
## 448	0	55	1	0	0.00	2
## 449	0	75	1	0	0.34	1
## 450	0	79	1	1	1.70	4
## 451	0	85	1	0	0.25	0
## 452	0	86	1	1	2.65	0
## 453	0	91	1	0	0.00	0
## 454	0	149	1	1	3.86	1
## 455	1	97	1	0	0.00	1
## 456	1	88	1	0	0.00	1
## 457	0	60	1	0	0.00	2
## 458	0	54	1	0	0.16	2
## 459	0	11	1	1	1.62	3
## 460	0	109	1	0	0.00	0
## 461	0	90	1	0	0.00	1
## 462	0	115	1	0	0.00	3
## 463	0	144	1	1	2.73	1
## 464	0	91	1	0	0.00	0
## 465	0	105	1	1	2.30	0
## 466	1	71	0	0	0.00	3
## 467	1	132	1	1	2.84	3
## 468	0	112	1	0	0.38	1
## 469	0	86	1	1	3.00	3
## 470	0	41	1	1	4.64	2
## 471	0	44	1	0	0.00	1
## 472	0	78	1	0	0.00	3
## 473	0	149	1	0	0.00	1
## 474	1	72	1	1	1.67	4
## 475	0	139	1	1	4.00	0
## 476	0	74	1	0	0.00	3
## 477	0	50	1	0	0.29	1
## 478	0	141	1	1	2.05	3
## 479	0	140	1	0	0.00	1
## 480	0	99	1	0	0.00	2
## 481	0	166	1	0	0.21	1
## 482	0	124	1	0	0.00	1
## 483	0	74	1	0	0.00	0
## 484	0	117	1	0	0.00	2
## 485	0	85	1	0	0.00	3
## 486	0	36	1	1	1.81	0
## 487	0	102	0	0	0.00	0

## 488	0	76	1	0	0.00	0
## 489	0	165	1	0	0.00	1
## 490	0	130	1	0	0.00	1
## 491	0	78	1	0	0.00	0
## 492	1	55	0	0	0.32	1
## 493	1	92	0	0	0.21	2
## 494	0	129	1	1	1.59	2
## 495	0	18	1	0	0.00	1
## 496	0	161	0	0	0.00	2
## 497	0	93	1	1	2.16	2
## 498	0	144	1	0	0.00	2
## 499	1	75	0	0	0.00	4
## 500	0	95	1	0	0.00	1
## 501	0	126	1	1	3.40	3
## 502	0	124	1	1	2.03	1
## 503	1	93	0	0	0.00	1
## 504	0	109	0	1	2.51	0
## 505	0	80	1	0	0.00	0
## 506	0	41	1	0	0.19	1
## 507	0	136	1	1	3.08	2
## 508	1	92	1	0	0.00	3
## 509	0	143	1	1	3.13	1
## 510	1	118	1	1	2.59	5
## 511	0	193	1	1	3.32	1
## 512	0	73	1	0	0.00	3
## 513	0	62	1	0	0.00	2
## 514	0	30	1	1	1.78	0
## 515	1	60	0	1	3.78	0
## 516	0	148	1	1	4.73	1
## 517	0	96	1	0	0.00	2
## 518	0	52	1	0	0.35	2
## 519	0	87	1	0	0.00	1
## 520	0	41	1	0	0.21	3
## 521	0	112	1	0	0.00	1
## 522	1	88	1	0	0.00	4
## 523	0	122	1	1	2.48	7
## 524	0	61	1	0	0.00	2
## 525	0	87	1	0	0.38	1
## 526	0	176	1	0	0.25	2
## 527	0	30	1	0	0.00	0
## 528	0	95	1	1	3.21	0
## 529	0	46	1	0	0.00	2
## 530	0	100	0	0	0.19	0
## 531	0	47	1	1	2.11	2
## 532	0	77	1	0	0.00	2
## 533	0	98	1	1	2.89	2
## 534	0	125	1	1	1.46	1
## 535	0	67	1	0	0.22	4
## 536	0	194	1	0	0.00	1
## 537	0	128	1	1	3.78	1
## 538	0	190	1	1	2.30	0
## 539	0	165	1	0	0.00	0
## 540	0	59	1	0	0.00	2
## 541	0	47	1	1	2.11	1

## 542	0	150	1	1	1.78	0
## 543	1	152	0	1	3.83	9
## 544	0	26	1	0	0.00	3
## 545	0	79	1	1	3.29	3
## 546	0	95	1	1	3.21	1
## 547	1	69	0	0	0.00	2
## 548	1	95	0	1	2.78	5
## 549	0	31	1	1	1.59	0
## 550	0	121	1	1	2.73	4
## 551	1	111	1	0	0.00	4
## 552	0	157	1	0	0.00	2
## 553	1	44	1	0	0.21	3
## 554	0	61	0	0	0.00	2
## 555	0	65	1	0	0.00	2
## 556	0	74	1	1	3.54	2
## 557	0	123	1	0	0.00	0
## 558	0	58	1	1	2.57	1
## 559	1	74	1	0	0.00	2
## 560	0	125	1	0	0.39	2
## 561	0	80	1	0	0.00	1
## 562	0	53	1	1	1.94	0
## 563	0	99	1	1	2.46	1
## 564	0	99	1	0	0.33	1
## 565	0	66	1	1	2.16	2
## 566	0	97	1	0	0.00	3
## 567	0	75	1	1	3.05	2
## 568	0	85	0	0	0.00	2
## 569	0	108	1	0	0.00	2
## 570	1	133	0	1	4.16	2
## 571	0	51	1	0	0.00	1
## 572	0	186	1	1	3.92	2
## 573	0	44	0	0	0.00	1
## 574	0	64	1	1	2.43	3
## 575	1	44	1	0	0.33	2
## 576	0	114	1	1	3.83	1
## 577	0	92	1	0	0.16	3
## 578	0	110	1	0	0.29	2
## 579	0	90	1	1	2.08	1
## 580	0	72	1	1	4.46	1
## 581	1	113	1	0	0.00	1
## 582	0	171	1	1	2.75	3
## 583	0	104	1	0	0.00	1
## 584	0	165	1	0	0.13	1
## 585	1	104	1	0	0.00	0
## 586	0	110	1	0	0.00	1
## 587	0	90	0	0	0.00	1
## 588	0	114	1	0	0.40	1
## 589	1	101	1	0	0.00	5
## 590	0	117	1	1	2.32	1
## 591	0	109	1	0	0.42	2
## 592	0	82	1	0	0.00	1
## 593	0	92	1	0	0.31	2
## 594	0	82	1	1	2.57	2
## 595	0	90	1	0	0.00	2

## 596	0	87	1	1	0.00	1
## 597	0	124	1	0	0.00	3
## 598	0	39	1	0	0.00	2
## 599	0	84	1	0	0.00	1
## 600	0	75	1	1	2.48	0
## 601	0	102	1	0	0.00	2
## 602	1	62	0	0	0.00	0
## 603	0	143	1	0	0.27	1
## 604	0	53	1	0	0.00	3
## 605	0	30	1	0	0.00	1
## 606	1	112	1	0	0.00	2
## 607	0	129	1	0	0.00	0
## 608	0	63	1	1	1.78	1
## 609	0	28	1	0	0.00	0
## 610	0	111	1	0	0.00	3
## 611	0	91	1	0	0.00	3
## 612	0	90	1	0	0.00	1
## 613	0	151	1	0	0.24	4
## 614	1	105	0	1	3.56	1
## 615	0	41	1	1	1.97	2
## 616	0	48	1	1	2.16	1
## 617	0	166	0	1	2.38	2
## 618	0	79	1	0	0.00	3
## 619	0	153	1	0	0.00	1
## 620	1	110	0	0	0.00	0
## 621	0	163	1	0	0.00	1
## 622	0	126	1	0	0.00	1
## 623	0	105	1	1	2.86	2
## 624	0	172	1	0	0.00	3
## 625	0	126	1	0	0.00	0
## 626	0	97	1	0	0.27	3
## 627	1	95	0	1	1.11	0
## 628	0	87	1	0	0.00	4
## 629	0	97	1	0	0.00	1
## 630	1	76	1	0	0.00	0
## 631	0	140	1	0	0.00	0
## 632	0	169	1	0	0.00	0
## 633	0	68	1	1	1.30	3
## 634	0	122	1	1	4.21	2
## 635	0	36	1	0	0.00	2
## 636	0	120	1	1	2.75	5
## 637	0	121	1	0	0.00	1
## 638	0	64	1	1	2.03	0
## 639	0	13	1	1	3.48	1
## 640	0	106	1	0	0.00	0
## 641	0	88	1	0	0.00	2
## 642	0	74	1	0	0.00	1
## 643	0	83	1	0	0.00	0
## 644	0	49	1	0	0.00	0
## 645	0	111	1	1	3.78	1
## 646	0	50	1	1	2.30	3
## 647	0	153	1	1	4.16	0
## 648	0	88	1	0	0.00	1
## 649	0	131	1	1	2.46	0

## 650	1	79	1	0	0.00	3
## 651	0	140	1	0	0.00	2
## 652	0	105	1	0	0.38	1
## 653	0	54	1	1	2.48	3
## 654	0	87	1	1	2.30	3
## 655	0	96	1	1	2.84	1
## 656	1	79	1	0	0.00	5
## 657	0	55	1	0	0.00	0
## 658	0	130	1	0	0.00	2
## 659	0	34	1	0	0.00	0
## 660	0	139	1	0	0.29	1
## 661	1	109	1	0	0.00	1
## 662	0	65	1	1	3.24	1
## 663	0	63	1	0	0.37	0
## 664	0	152	1	0	0.00	3
## 665	0	147	1	0	0.00	1
## 666	0	112	1	1	2.48	2
## 667	0	120	1	0	0.00	2
## 668	0	27	1	0	0.00	0
## 669	0	171	1	0	0.00	1
## 670	0	101	1	1	4.19	0
## 671	0	32	1	1	4.40	1
## 672	0	3	1	1	3.21	2
## 673	0	151	1	0	0.43	0
## 674	0	60	1	0	0.35	3
## 675	0	119	1	0	0.39	1
## 676	0	43	1	0	0.00	1
## 677	0	42	1	0	0.00	0
## 678	0	84	1	0	0.00	1
## 679	0	65	1	0	0.33	0
## 680	1	75	0	0	0.00	1
## 681	0	116	1	0	0.00	1
## 682	0	107	1	0	0.00	0
## 683	0	189	1	1	3.08	3
## 684	0	123	1	0	0.00	1
## 685	0	110	1	0	0.24	3
## 686	0	63	1	1	2.32	1
## 687	0	176	1	0	0.00	3
## 688	0	108	1	0	0.00	1
## 689	0	13	1	1	3.27	3
## 690	0	71	1	0	0.00	1
## 691	0	88	1	0	0.00	2
## 692	0	137	1	0	0.00	1
## 693	0	82	1	0	0.00	4
## 694	0	92	1	1	2.16	3
## 695	0	165	1	0	0.00	6
## 696	0	96	1	0	0.00	1
## 697	0	156	1	0	0.33	1
## 698	0	63	1	0	0.00	0
## 699	0	37	1	0	0.00	0
## 700	0	98	1	0	0.00	0
## 701	0	121	1	0	0.00	0
## 702	0	94	1	0	0.15	0
## 703	0	99	1	0	0.00	1

## 704	0	163	1	1	2.81	1
## 705	0	161	1	0	0.32	3
## 706	0	99	1	0	0.00	1
## 707	0	108	1	0	0.00	1
## 708	0	84	1	1	2.05	3
## 709	0	83	0	1	2.86	2
## 710	0	139	1	0	0.00	2
## 711	0	69	1	0	0.29	3
## 712	0	129	1	0	0.00	4
## 713	0	106	1	0	0.31	2
## 714	0	158	1	0	0.00	2
## 715	0	168	1	1	1.97	2
## 716	1	115	0	0	0.00	1
## 717	0	57	0	1	3.08	2
## 718	0	67	1	0	0.00	1
## 719	0	127	1	0	0.00	1
## 720	0	78	1	0	0.00	2
## 721	0	100	1	1	2.00	0
## 722	1	103	1	1	2.94	6
## 723	0	113	1	0	0.00	1
## 724	0	78	1	0	0.00	3
## 725	0	129	1	1	4.43	1
## 726	0	57	1	0	0.20	2
## 727	0	82	1	0	0.00	1
## 728	0	64	1	0	0.00	1
## 729	0	86	1	1	3.43	2
## 730	0	151	1	1	3.62	0
## 731	1	94	1	0	0.00	3
## 732	0	90	1	0	0.00	2
## 733	0	48	1	0	0.00	2
## 734	0	85	1	1	2.57	2
## 735	0	93	0	1	3.27	1
## 736	0	169	0	0	0.00	3
## 737	1	68	1	0	0.00	5
## 738	1	91	0	0	0.00	2
## 739	0	68	1	0	0.00	1
## 740	0	101	1	0	0.00	1
## 741	0	67	1	1	2.54	1
## 742	0	66	1	0	0.00	0
## 743	0	116	1	1	3.08	5
## 744	0	158	1	0	0.00	1
## 745	0	78	1	0	0.00	1
## 746	0	119	1	1	1.78	1
## 747	0	120	1	0	0.30	1
## 748	0	155	1	0	0.34	1
## 749	0	106	1	0	0.00	1
## 750	0	87	0	0	0.00	1
## 751	0	146	1	1	2.21	3
## 752	0	101	1	1	2.73	0
## 753	0	22	1	1	3.43	3
## 754	0	90	1	0	0.00	2
## 755	0	41	1	0	0.34	1
## 756	0	69	1	0	0.00	2
## 757	0	33	1	0	0.00	2

## 758	0	112	1	0	0.00	1
## 759	0	108	1	1	2.65	2
## 760	0	136	1	1	2.57	2
## 761	0	128	1	0	0.00	1
## 762	0	27	1	0	0.00	2
## 763	0	161	0	0	0.00	1
## 764	0	33	1	1	4.05	0
## 765	0	120	1	1	3.08	0
## 766	0	113	1	0	0.00	2
## 767	1	122	0	0	0.00	0
## 768	0	148	1	1	4.10	2
## 769	0	74	1	0	0.00	3
## 770	0	106	1	0	0.26	1
## 771	0	179	1	0	0.00	1
## 772	1	149	0	1	2.38	5
## 773	0	77	1	0	0.00	0
## 774	1	127	0	0	0.00	1
## 775	0	80	1	0	0.00	1
## 776	0	106	1	0	0.00	1
## 777	0	61	1	1	2.84	0
## 778	0	135	0	1	1.57	2
## 779	0	115	1	1	3.67	6
## 780	0	167	0	0	0.00	2
## 781	0	107	0	0	0.00	2
## 782	0	112	0	0	0.00	1
## 783	0	35	1	1	2.54	1
## 784	0	103	0	0	0.38	3
## 785	0	107	1	1	3.02	1
## 786	0	69	1	0	0.00	3
## 787	0	85	1	0	0.00	0
## 788	1	24	1	0	0.00	2
## 789	0	90	1	0	0.00	2
## 790	0	137	1	0	0.00	3
## 791	0	92	0	1	2.03	0
## 792	0	38	1	0	0.00	2
## 793	1	69	0	1	2.21	1
## 794	0	45	1	0	0.00	2
## 795	0	73	1	0	0.00	1
## 796	0	92	1	0	0.00	1
## 797	0	113	1	1	2.27	1
## 798	1	68	0	0	0.00	1
## 799	0	135	1	1	3.94	2
## 800	0	100	1	1	4.29	1
## 801	0	96	1	1	3.05	1
## 802	0	108	1	0	0.00	1
## 803	0	84	1	0	0.00	0
## 804	0	134	1	0	0.35	1
## 805	0	72	1	0	0.00	0
## 806	0	83	1	0	0.00	0
## 807	0	137	1	0	0.00	0
## 808	0	56	1	1	3.27	1
## 809	0	61	0	1	3.05	0
## 810	0	171	1	1	1.57	1
## 811	0	123	1	0	0.00	1

## 812	0	58	1	0	0.19	0
## 813	0	156	1	0	0.00	1
## 814	0	166	1	0	0.00	0
## 815	0	75	1	1	3.35	1
## 816	1	75	1	0	0.00	2
## 817	0	83	1	0	0.00	1
## 818	0	243	1	0	0.00	2
## 819	0	153	1	0	0.00	1
## 820	0	150	1	0	0.26	1
## 821	0	92	1	1	3.43	2
## 822	0	80	1	0	0.00	0
## 823	0	134	1	0	0.31	1
## 824	0	77	1	1	2.73	1
## 825	0	147	1	0	0.00	2
## 826	0	74	1	0	0.00	1
## 827	0	138	0	0	0.00	1
## 828	0	143	1	0	0.42	0
## 829	0	64	1	0	0.00	2
## 830	0	120	1	0	0.00	2
## 831	1	121	0	0	0.00	3
## 832	0	88	1	0	0.00	2
## 833	1	87	1	0	0.00	2
## 834	0	100	1	0	0.30	0
## 835	0	104	1	0	0.00	3
## 836	0	27	1	0	0.00	1
## 837	0	81	1	1	2.62	0
## 838	0	64	0	1	2.19	0
## 839	0	107	1	1	3.21	1
## 840	0	88	1	1	4.35	1
## 841	0	111	1	0	0.00	3
## 842	0	77	1	0	0.00	5
## 843	0	67	0	0	0.00	2
## 844	0	102	1	0	0.00	1
## 845	0	146	1	1	3.94	1
## 846	0	144	1	1	2.70	1
## 847	1	96	1	0	0.00	1
## 848	0	70	1	1	2.78	1
## 849	0	149	1	0	0.00	0
## 850	0	129	1	0	0.00	2
## 851	0	166	1	0	0.00	0
## 852	1	136	0	0	0.00	3
## 853	0	149	1	0	0.00	3
## 854	0	70	1	0	0.00	3
## 855	0	120	1	1	2.62	2
## 856	0	66	1	0	0.00	2
## 857	0	104	1	0	0.27	1
## 858	0	160	1	0	0.00	1
## 859	0	129	1	1	3.16	1
## 860	1	93	1	0	0.00	3
## 861	0	169	1	0	0.00	2
## 862	0	58	1	0	0.00	1
## 863	0	75	1	1	3.54	3
## 864	0	45	1	0	0.00	1
## 865	0	155	1	0	0.00	3

## 866	0	52	1	0	0.00	4
## 867	0	119	1	1	3.00	0
## 868	0	86	1	0	0.00	1
## 869	0	42	1	0	0.00	0
## 870	0	127	0	0	0.26	2
## 871	0	123	1	0	0.00	0
## 872	1	98	1	0	0.00	4
## 873	0	149	1	1	2.94	1
## 874	0	160	1	0	0.18	1
## 875	0	103	1	0	0.00	5
## 876	0	132	1	1	2.46	1
## 877	0	137	1	0	0.00	1
## 878	0	129	0	0	0.00	1
## 879	0	62	1	0	0.00	1
## 880	0	122	1	1	3.19	4
## 881	0	32	1	0	0.00	1
## 882	0	86	1	0	0.00	3
## 883	0	130	1	0	0.35	1
## 884	0	42	1	0	0.00	1
## 885	0	73	1	0	0.00	2
## 886	0	66	1	1	1.46	2
## 887	0	103	1	1	2.40	0
## 888	0	128	1	0	0.00	1
## 889	0	104	1	0	0.23	2
## 890	0	103	1	0	0.00	0
## 891	0	124	1	0	0.00	0
## 892	0	87	1	0	0.00	1
## 893	1	109	1	1	3.32	1
## 894	0	167	0	0	0.00	2
## 895	1	97	1	0	0.00	4
## 896	0	106	1	0	0.25	2
## 897	0	125	1	0	0.00	2
## 898	0	108	1	1	4.19	0
## 899	0	125	1	0	0.30	1
## 900	0	89	1	1	2.35	1
## 901	0	72	0	1	1.49	0
## 902	1	23	1	0	0.00	2
## 903	0	149	1	0	0.00	7
## 904	0	73	1	0	0.00	0
## 905	1	61	1	0	0.00	1
## 906	1	161	1	0	0.16	4
## 907	0	73	1	0	0.00	0
## 908	0	118	1	1	4.56	1
## 909	0	23	1	0	0.00	6
## 910	0	127	1	1	1.38	0
## 911	0	42	1	1	2.19	0
## 912	1	118	1	0	0.00	5
## 913	0	45	1	0	0.00	2
## 914	0	50	1	1	2.86	1
## 915	1	179	1	0	0.00	0
## 916	0	152	1	0	0.22	2
## 917	0	105	1	0	0.00	2
## 918	0	72	1	0	0.00	0
## 919	0	52	1	0	0.00	1

## 920	0	125	1	0	0.00	1
## 921	0	143	1	0	0.29	1
## 922	0	65	1	0	0.00	1
## 923	0	80	1	0	0.00	1
## 924	0	1	1	0	0.00	1
## 925	0	60	1	0	0.00	1
## 926	0	43	1	0	0.00	1
## 927	0	143	1	0	0.00	0
## 928	0	81	1	1	3.08	0
## 929	0	205	1	1	2.11	2
## 930	0	24	1	0	0.00	1
## 931	0	74	1	0	0.00	0
## 932	0	77	1	0	0.00	1
## 933	0	74	1	0	0.00	1
## 934	1	74	0	0	0.00	1
## 935	0	200	1	0	0.00	1
## 936	0	86	1	0	0.00	4
## 937	0	91	1	1	2.48	0
## 938	0	76	1	0	0.00	2
## 939	0	130	1	0	0.00	1
## 940	0	56	1	0	0.32	2
## 941	0	117	1	0	0.00	0
## 942	0	63	1	0	0.36	2
## 943	0	126	1	0	0.00	0
## 944	0	132	1	0	0.31	1
## 945	1	81	1	1	2.48	4
## 946	0	122	1	0	0.00	2
## 947	1	46	1	0	0.00	2
## 948	0	150	1	1	2.97	1
## 949	0	99	1	0	0.00	1
## 950	0	87	1	0	0.00	1
## 951	0	108	1	0	0.00	1
## 952	0	101	1	0	0.00	4
## 953	0	53	1	0	0.22	3
## 954	0	132	1	1	2.32	2
## 955	0	158	1	0	0.00	2
## 956	0	114	1	1	2.78	0
## 957	0	77	1	1	1.92	2
## 958	0	144	0	0	0.27	0
## 959	0	91	1	1	3.32	3
## 960	0	58	1	0	0.00	2
## 961	0	5	1	0	0.00	3
## 962	0	97	1	0	0.29	0
## 963	0	107	1	0	0.47	3
## 964	0	142	1	1	2.92	1
## 965	0	9	1	1	3.59	1
## 966	0	73	1	0	0.00	0
## 967	1	48	1	1	4.24	2
## 968	0	43	1	0	0.36	0
## 969	1	122	1	1	3.65	1
## 970	0	93	1	0	0.42	0
## 971	0	85	1	0	0.00	1
## 972	0	59	1	0	0.28	3
## 973	0	87	1	0	0.29	1

## 974	0	137	1	0	0.26	0
## 975	0	21	1	1	2.57	6
## 976	1	129	1	0	0.00	0
## 977	0	104	1	0	0.00	0
## 978	1	93	1	1	3.19	4
## 979	1	63	1	0	0.00	4
## 980	0	161	1	0	0.00	0
## 981	0	50	1	0	0.00	3
## 982	0	103	1	1	1.86	1
## 983	0	84	1	1	3.51	1
## 984	0	92	1	0	0.29	1
## 985	0	77	1	0	0.00	1
## 986	1	64	0	0	0.00	1
## 987	0	159	1	1	3.19	1
## 988	1	110	0	1	2.24	1
## 989	0	138	1	0	0.28	3
## 990	0	178	1	0	0.00	1
## 991	0	38	1	1	1.05	0
## 992	0	50	1	1	2.13	2
## 993	0	45	1	1	2.08	1
## 994	0	70	1	0	0.17	0
## 995	0	147	1	1	2.81	3
## 996	0	94	1	0	0.00	1
## 997	0	179	1	0	0.00	0
## 998	0	116	1	0	0.23	2
## 999	0	59	1	0	0.00	0
## 1000	0	165	1	0	0.00	0
## 1001	1	133	1	0	0.00	2
## 1002	0	140	1	0	0.00	1
## 1003	0	93	1	1	1.84	2
## 1004	0	52	1	1	2.21	0
## 1005	0	64	1	1	3.32	1
## 1006	0	12	0	0	0.00	2
## 1007	0	48	1	0	0.00	2
## 1008	0	181	1	0	0.00	1
## 1009	0	168	1	1	3.08	2
## 1010	0	155	1	0	0.00	3
## 1011	0	105	1	0	0.00	0
## 1012	0	11	1	0	0.00	2
## 1013	0	182	1	0	0.36	2
## 1014	0	104	1	0	0.00	1
## 1015	0	102	1	0	0.00	0
## 1016	0	122	1	0	0.00	0
## 1017	0	41	1	0	0.00	1
## 1018	0	132	1	0	0.00	2
## 1019	1	76	1	0	0.00	1
## 1020	0	13	1	0	0.00	1
## 1021	0	115	1	1	3.83	2
## 1022	0	67	1	0	0.42	1
## 1023	0	154	1	0	0.00	0
## 1024	0	100	1	0	0.00	2
## 1025	0	146	0	0	0.00	1
## 1026	0	148	1	1	3.32	1
## 1027	0	67	1	1	2.70	2

## 1028	1	161	0	0	0.00	1
## 1029	0	70	1	0	0.00	1
## 1030	0	116	1	0	0.00	0
## 1031	1	99	1	1	2.51	2
## 1032	0	87	1	0	0.29	1
## 1033	0	87	1	0	0.32	1
## 1034	0	70	1	0	0.00	2
## 1035	0	131	1	0	0.00	2
## 1036	0	119	1	0	0.18	2
## 1037	0	119	1	1	3.24	3
## 1038	0	87	0	0	0.00	0
## 1039	1	112	1	0	0.00	5
## 1040	0	75	1	0	0.00	2
## 1041	0	150	1	0	0.00	4
## 1042	0	161	1	1	4.35	0
## 1043	0	91	0	1	2.67	0
## 1044	0	124	1	0	0.00	3
## 1045	0	94	0	0	0.00	4
## 1046	0	217	1	0	0.00	4
## 1047	0	158	1	0	0.31	0
## 1048	0	102	1	0	0.33	0
## 1049	0	85	1	0	0.00	0
## 1050	0	79	1	0	0.00	1
## 1051	0	139	1	1	3.48	2
## 1052	0	103	1	0	0.00	0
## 1053	0	98	0	0	0.00	1
## 1054	0	78	1	0	0.21	2
## 1055	0	50	1	0	0.00	1
## 1056	0	161	1	0	0.00	1
## 1057	0	67	1	0	0.00	0
## 1058	0	86	1	1	3.59	1
## 1059	0	92	1	0	0.00	0
## 1060	0	174	1	0	0.29	1
## 1061	0	124	1	0	0.00	1
## 1062	0	132	1	1	2.78	1
## 1063	0	190	1	1	2.67	1
## 1064	0	101	1	0	0.00	1
## 1065	0	185	0	1	3.48	2
## 1066	0	68	1	1	2.67	0
## 1067	0	117	1	1	3.19	0
## 1068	0	118	1	0	0.32	1
## 1069	0	124	1	0	0.21	0
## 1070	0	22	1	0	0.00	1
## 1071	0	75	1	0	0.00	1
## 1072	0	134	1	0	0.00	1
## 1073	0	164	1	1	3.86	1
## 1074	0	44	1	0	0.32	1
## 1075	0	177	1	0	0.00	2
## 1076	0	110	1	0	0.00	0
## 1077	0	53	1	1	1.76	1
## 1078	1	108	1	0	0.00	4
## 1079	1	80	1	0	0.00	0
## 1080	0	158	1	0	0.00	1
## 1081	0	114	1	0	0.00	0

## 1082	0	64	1	1	2.03	1
## 1083	0	88	1	0	0.00	3
## 1084	0	82	0	0	0.00	3
## 1085	0	111	1	0	0.00	3
## 1086	0	60	1	0	0.00	2
## 1087	0	113	1	0	0.00	3
## 1088	0	109	1	0	0.00	1
## 1089	0	105	1	1	3.48	0
## 1090	0	85	1	0	0.00	2
## 1091	0	131	1	0	0.46	0
## 1092	0	59	1	0	0.27	2
## 1093	0	148	1	0	0.45	1
## 1094	0	210	1	0	0.28	2
## 1095	0	115	1	0	0.00	0
## 1096	0	106	1	0	0.00	1
## 1097	0	93	1	0	0.00	1
## 1098	0	57	1	1	3.51	1
## 1099	0	98	1	0	0.41	1
## 1100	0	157	1	0	0.00	3
## 1101	0	116	1	1	2.24	1
## 1102	0	30	1	0	0.00	2
## 1103	1	111	1	0	0.00	4
## 1104	0	52	1	0	0.00	0
## 1105	0	72	1	0	0.00	4
## 1106	1	135	1	1	3.48	2
## 1107	0	86	1	0	0.42	3
## 1108	0	98	1	1	3.46	3
## 1109	0	151	1	0	0.00	3
## 1110	0	118	1	0	0.00	0
## 1111	0	117	1	0	0.41	2
## 1112	0	55	1	0	0.23	0
## 1113	0	82	1	0	0.00	0
## 1114	0	152	1	0	0.00	1
## 1115	0	108	1	1	2.94	1
## 1116	1	98	1	0	0.00	1
## 1117	0	130	1	0	0.00	3
## 1118	0	136	0	0	0.00	1
## 1119	0	47	1	0	0.00	3
## 1120	0	189	1	0	0.00	3
## 1121	0	107	1	0	0.00	1
## 1122	1	91	1	0	0.00	5
## 1123	1	159	1	0	0.00	1
## 1124	0	11	1	1	2.70	2
## 1125	0	167	1	0	0.00	1
## 1126	0	111	1	0	0.26	2
## 1127	0	99	1	1	1.97	2
## 1128	0	159	1	1	4.56	0
## 1129	0	114	0	1	3.32	2
## 1130	0	71	1	0	0.00	2
## 1131	0	122	1	0	0.00	1
## 1132	0	100	1	1	3.51	1
## 1133	0	83	1	1	3.19	1
## 1134	1	64	1	0	0.00	5
## 1135	0	105	1	0	0.00	1

## 1136	0	144	1	1	3.29	2
## 1137	1	106	0	1	3.89	1
## 1138	0	19	1	1	3.05	1
## 1139	0	46	1	0	0.42	1
## 1140	0	127	1	0	0.00	2
## 1141	0	9	1	1	2.73	1
## 1142	0	157	1	0	0.00	1
## 1143	1	105	1	0	0.00	6
## 1144	0	105	1	1	2.70	0
## 1145	0	155	1	0	0.39	2
## 1146	0	31	1	0	0.00	0
## 1147	0	161	1	0	0.00	1
## 1148	0	95	1	1	2.86	0
## 1149	0	122	1	0	0.00	3
## 1150	0	37	0	0	0.00	2
## 1151	1	132	1	0	0.00	5
## 1152	0	119	1	1	3.05	0
## 1153	0	16	1	0	0.00	1
## 1154	0	99	1	0	0.00	1
## 1155	0	76	1	1	2.19	1
## 1156	1	167	1	0	0.00	4
## 1157	0	129	1	0	0.00	1
## 1158	0	116	1	0	0.20	1
## 1159	0	60	0	0	0.00	1
## 1160	0	128	1	0	0.00	0
## 1161	0	47	1	1	2.86	0
## 1162	0	40	0	0	0.00	3
## 1163	0	173	1	0	0.00	0
## 1164	0	157	1	1	1.92	1
## 1165	0	66	1	1	3.24	2
## 1166	0	50	0	1	2.16	0
## 1167	0	72	1	0	0.42	3
## 1168	0	130	1	0	0.00	1
## 1169	0	143	1	0	0.20	1
## 1170	0	89	0	0	0.00	1
## 1171	0	108	1	0	0.00	0
## 1172	0	32	1	0	0.00	1
## 1173	0	166	1	0	0.00	2
## 1174	0	109	1	0	0.00	1
## 1175	0	72	1	1	1.57	1
## 1176	0	134	1	1	2.32	0
## 1177	0	13	1	0	0.00	4
## 1178	0	90	1	0	0.00	3
## 1179	0	111	1	1	3.02	3
## 1180	0	101	1	1	1.97	1
## 1181	0	72	1	0	0.00	0
## 1182	0	67	1	1	2.03	1
## 1183	1	172	1	0	0.00	3
## 1184	0	154	1	1	2.43	2
## 1185	0	69	1	0	0.29	2
## 1186	0	123	1	0	0.15	3
## 1187	0	130	1	1	2.35	0
## 1188	0	142	1	1	1.59	2
## 1189	0	29	1	0	0.00	1

## 1190	0	87	1	1	3.02	0
## 1191	0	149	1	0	0.00	0
## 1192	0	146	0	0	0.00	2
## 1193	1	88	0	0	0.00	4
## 1194	1	119	0	1	2.35	5
## 1195	0	48	1	0	0.00	1
## 1196	0	135	1	0	0.00	1
## 1197	0	100	1	0	0.00	1
## 1198	0	98	1	0	0.00	4
## 1199	0	75	1	1	3.62	2
## 1200	0	180	1	1	2.05	1
## 1201	0	100	1	1	3.13	1
## 1202	0	119	1	1	2.16	2
## 1203	0	86	1	0	0.00	0
## 1204	0	155	1	1	1.38	1
## 1205	1	78	0	0	0.00	1
## 1206	0	153	1	0	0.00	1
## 1207	0	92	1	1	2.62	0
## 1208	0	13	1	1	3.05	2
## 1209	0	154	1	0	0.00	3
## 1210	0	144	0	1	3.46	0
## 1211	0	48	1	0	0.20	1
## 1212	0	94	1	0	0.00	1
## 1213	0	139	1	0	0.00	1
## 1214	0	126	1	0	0.00	1
## 1215	0	122	1	0	0.29	2
## 1216	0	139	1	0	0.00	1
## 1217	0	95	1	0	0.00	3
## 1218	0	80	1	1	2.89	4
## 1219	0	131	1	1	2.05	3
## 1220	0	36	1	0	0.00	1
## 1221	0	180	1	0	0.00	2
## 1222	0	25	1	0	0.00	2
## 1223	0	113	1	0	0.00	3
## 1224	0	88	1	1	3.08	1
## 1225	0	120	1	0	0.00	1
## 1226	0	74	1	0	0.00	1
## 1227	0	109	1	0	0.00	2
## 1228	0	162	1	1	3.32	0
## 1229	0	124	1	1	2.40	1
## 1230	0	177	1	0	0.27	2
## 1231	0	91	1	0	0.00	1
## 1232	1	105	1	0	0.00	0
## 1233	1	24	1	0	0.23	0
## 1234	0	48	1	0	0.00	0
## 1235	0	86	1	0	0.00	2
## 1236	0	163	1	0	0.35	4
## 1237	0	91	1	0	0.30	0
## 1238	0	56	1	0	0.00	3
## 1239	0	147	0	1	2.19	3
## 1240	0	64	1	0	0.43	2
## 1241	1	108	1	1	2.59	4
## 1242	0	159	1	0	0.29	5
## 1243	0	136	0	0	0.00	3

## 1244	0	116	1	1	2.97	1
## 1245	0	45	1	1	2.08	1
## 1246	0	122	1	0	0.23	2
## 1247	0	138	1	0	0.00	5
## 1248	0	132	1	0	0.00	1
## 1249	0	101	0	0	0.38	0
## 1250	0	58	1	0	0.29	2
## 1251	0	81	1	0	0.00	1
## 1252	0	87	1	0	0.00	3
## 1253	0	116	1	0	0.00	2
## 1254	0	85	0	0	0.38	4
## 1255	1	62	1	1	3.00	2
## 1256	0	90	1	0	0.00	0
## 1257	0	98	1	0	0.00	2
## 1258	0	73	1	0	0.00	1
## 1259	0	107	0	0	0.00	2
## 1260	0	55	1	1	3.38	2
## 1261	0	76	1	1	2.57	3
## 1262	0	30	1	0	0.00	3
## 1263	0	157	1	0	0.00	4
## 1264	1	40	1	1	2.03	1
## 1265	0	72	1	0	0.28	1
## 1266	0	95	1	1	2.73	1
## 1267	0	42	1	0	0.00	0
## 1268	0	86	1	0	0.34	1
## 1269	0	131	1	0	0.33	0
## 1270	1	55	1	1	2.97	4
## 1271	0	74	1	0	0.00	0
## 1272	0	81	0	1	2.13	1
## 1273	0	81	1	0	0.00	4
## 1274	1	28	1	0	0.00	6
## 1275	0	111	1	0	0.00	0
## 1276	0	3	1	1	3.08	2
## 1277	1	51	1	0	0.00	1
## 1278	0	68	1	1	3.97	1
## 1279	1	163	1	0	0.35	0
## 1280	0	87	1	0	0.36	2
## 1281	1	58	1	0	0.00	0
## 1282	0	109	1	0	0.27	0
## 1283	0	111	1	0	0.00	4
## 1284	0	144	1	0	0.00	2
## 1285	1	135	1	0	0.00	5
## 1286	0	109	1	1	2.43	4
## 1287	0	107	1	1	2.03	1
## 1288	0	149	1	0	0.00	2
## 1289	0	56	1	0	0.30	1
## 1290	0	129	1	0	0.37	0
## 1291	0	92	1	0	0.00	0
## 1292	0	67	1	1	3.92	1
## 1293	0	120	1	0	0.00	0
## 1294	0	166	1	0	0.39	1
## 1295	0	66	1	0	0.24	1
## 1296	0	76	1	0	0.00	0
## 1297	0	79	1	0	0.00	2

## 1298	0	98	1	1	3.48	2
## 1299	0	141	1	1	2.11	1
## 1300	1	49	1	0	0.00	2
## 1301	0	46	1	0	0.21	3
## 1302	0	137	1	0	0.13	3
## 1303	1	171	1	0	0.00	1
## 1304	0	10	1	0	0.42	1
## 1305	0	88	1	0	0.00	3
## 1306	0	89	1	0	0.00	2
## 1307	1	82	1	0	0.00	3
## 1308	0	139	1	0	0.00	3
## 1309	0	87	1	0	0.00	0
## 1310	0	137	0	0	0.34	2
## 1311	1	45	1	0	0.00	1
## 1312	0	90	1	0	0.00	1
## 1313	0	103	1	0	0.00	1
## 1314	0	100	1	0	0.21	2
## 1315	0	110	1	0	0.00	3
## 1316	0	124	1	0	0.00	2
## 1317	0	10	1	0	0.00	2
## 1318	0	89	1	1	2.03	2
## 1319	0	121	1	0	0.32	2
## 1320	0	101	1	0	0.00	3
## 1321	0	103	1	1	3.92	2
## 1322	0	51	1	0	0.00	1
## 1323	1	2	0	0	0.27	2
## 1324	0	111	1	0	0.00	0
## 1325	0	118	1	0	0.00	2
## 1326	1	17	1	1	2.70	6
## 1327	0	130	1	0	0.00	2
## 1328	1	193	1	0	0.29	2
## 1329	0	114	1	0	0.40	1
## 1330	0	137	1	0	0.29	2
## 1331	0	185	1	1	3.73	2
## 1332	0	101	1	0	0.00	3
## 1333	0	95	1	1	2.84	3
## 1334	0	7	1	1	2.92	1
## 1335	1	126	1	0	0.00	1
## 1336	0	71	1	0	0.00	0
## 1337	0	124	1	0	0.00	3
## 1338	1	97	0	0	0.38	0
## 1339	0	28	1	0	0.00	2
## 1340	1	90	0	0	0.00	4
## 1341	0	190	1	0	0.00	1
## 1342	0	31	1	1	3.11	1
## 1343	0	52	1	1	1.11	2
## 1344	0	73	1	0	0.00	0
## 1345	1	111	1	0	0.00	0
## 1346	1	98	1	0	0.00	4
## 1347	1	106	0	0	0.00	1
## 1348	0	111	1	0	0.00	0
## 1349	0	59	1	0	0.26	1
## 1350	0	71	1	1	1.51	2
## 1351	1	55	1	0	0.40	0

## 1352	0	13	1	0	0.00	1
## 1353	0	136	1	1	3.54	0
## 1354	0	123	1	0	0.24	0
## 1355	0	105	1	0	0.26	2
## 1356	0	50	1	1	3.67	3
## 1357	0	118	1	0	0.00	1
## 1358	0	97	1	0	0.00	3
## 1359	0	51	1	0	0.00	0
## 1360	1	73	1	0	0.00	1
## 1361	0	35	1	0	0.32	2
## 1362	0	64	1	0	0.00	1
## 1363	0	63	1	0	0.00	3
## 1364	0	117	1	1	2.08	3
## 1365	1	115	1	0	0.00	1
## 1366	0	162	1	0	0.00	1
## 1367	0	89	1	0	0.00	3
## 1368	0	94	0	0	0.28	1
## 1369	0	129	1	0	0.00	4
## 1370	0	86	1	0	0.00	1
## 1371	0	96	1	0	0.00	1
## 1372	0	190	1	0	0.00	1
## 1373	0	80	1	0	0.00	1
## 1374	1	108	1	0	0.00	4
## 1375	0	97	1	1	2.30	0
## 1376	0	84	1	1	3.05	0
## 1377	1	65	1	0	0.00	4
## 1378	0	131	1	1	3.62	1
## 1379	0	58	0	1	2.40	1
## 1380	0	36	1	0	0.29	3
## 1381	0	54	1	0	0.00	1
## 1382	0	45	1	0	0.37	1
## 1383	0	125	1	1	2.46	2
## 1384	0	72	1	1	2.21	2
## 1385	0	141	1	0	0.26	3
## 1386	0	113	1	0	0.00	0
## 1387	0	20	1	1	1.92	0
## 1388	0	212	1	0	0.00	1
## 1389	0	99	0	0	0.00	4
## 1390	0	94	1	0	0.00	1
## 1391	0	40	1	0	0.00	1
## 1392	0	86	1	1	2.27	3
## 1393	1	101	1	0	0.00	3
## 1394	0	170	1	0	0.21	0
## 1395	0	105	1	0	0.00	1
## 1396	0	103	1	0	0.33	0
## 1397	0	140	0	1	3.11	4
## 1398	0	101	1	0	0.30	1
## 1399	0	98	1	1	2.97	1
## 1400	0	104	1	0	0.33	4
## 1401	0	115	1	0	0.00	3
## 1402	0	112	1	0	0.00	0
## 1403	0	70	1	0	0.00	1
## 1404	0	126	1	0	0.00	0
## 1405	0	87	1	1	2.57	3

## 1406	1	125	1	0	0.00	4
## 1407	0	86	1	0	0.00	1
## 1408	1	73	1	1	3.19	6
## 1409	0	232	1	0	0.14	1
## 1410	0	1	1	1	2.27	0
## 1411	0	133	1	0	0.00	1
## 1412	0	103	1	0	0.00	1
## 1413	0	131	1	1	2.54	1
## 1414	0	95	1	1	2.65	0
## 1415	0	182	1	0	0.35	1
## 1416	0	99	1	0	0.00	0
## 1417	0	27	1	0	0.00	3
## 1418	0	141	1	0	0.32	1
## 1419	0	29	0	1	1.54	2
## 1420	0	65	1	0	0.00	2
## 1421	1	81	0	0	0.00	3
## 1422	0	37	1	1	2.81	0
## 1423	0	107	1	1	1.51	1
## 1424	0	127	0	1	2.81	1
## 1425	0	78	1	0	0.34	0
## 1426	0	55	1	0	0.00	2
## 1427	0	86	1	1	2.65	2
## 1428	0	176	1	0	0.00	2
## 1429	0	96	0	0	0.00	2
## 1430	0	11	1	1	1.89	1
## 1431	0	48	1	1	2.05	1
## 1432	0	127	1	0	0.00	1
## 1433	0	63	1	0	0.27	0
## 1434	0	79	1	0	0.00	1
## 1435	0	47	1	1	3.56	2
## 1436	1	89	0	1	3.00	0
## 1437	0	83	1	1	2.92	1
## 1438	0	126	0	1	2.62	4
## 1439	0	60	1	0	0.27	2
## 1440	0	122	1	0	0.00	0
## 1441	0	136	1	0	0.00	1
## 1442	0	172	1	1	2.38	1
## 1443	1	102	1	0	0.00	1
## 1444	0	113	0	0	0.31	1
## 1445	0	79	1	0	0.00	3
## 1446	0	55	1	1	2.62	1
## 1447	0	111	1	1	2.78	2
## 1448	0	160	1	0	0.31	0
## 1449	0	110	1	0	0.00	4
## 1450	0	192	1	0	0.00	4
## 1451	0	93	1	0	0.00	0
## 1452	0	101	1	1	2.57	2
## 1453	0	77	1	0	0.00	2
## 1454	0	105	1	1	2.19	2
## 1455	1	133	1	1	3.81	2
## 1456	0	131	1	0	0.00	1
## 1457	0	106	1	1	2.67	1
## 1458	0	118	1	0	0.00	1
## 1459	0	125	1	0	0.00	1

## 1460	0	95	1	0	0.00	0
## 1461	0	80	1	0	0.00	3
## 1462	0	145	1	0	0.32	0
## 1463	0	37	1	0	0.00	2
## 1464	0	87	1	0	0.00	1
## 1465	0	69	1	0	0.00	3
## 1466	0	83	1	0	0.00	1
## 1467	0	195	1	0	0.00	0
## 1468	1	67	0	1	4.56	0
## 1469	0	75	1	1	1.13	3
## 1470	0	123	1	1	4.05	0
## 1471	0	41	1	1	1.59	1
## 1472	0	75	1	0	0.00	0
## 1473	1	76	0	0	0.30	1
## 1474	0	86	0	0	0.00	1
## 1475	0	140	1	0	0.38	0
## 1476	0	70	1	0	0.00	3
## 1477	0	121	1	1	1.59	0
## 1478	0	112	1	0	0.00	1
## 1479	0	118	1	0	0.00	2
## 1480	0	66	1	1	2.40	1
## 1481	0	78	1	0	0.35	0
## 1482	0	129	1	1	4.00	2
## 1483	0	6	1	0	0.00	3
## 1484	0	107	0	0	0.29	1
## 1485	1	107	0	0	0.00	3
## 1486	0	138	1	0	0.27	1
## 1487	0	103	1	0	0.00	0
## 1488	0	116	1	1	3.00	0
## 1489	0	189	1	0	0.00	2
## 1490	0	161	1	0	0.00	2
## 1491	0	1	1	0	0.25	1
## 1492	0	89	1	0	0.00	1
## 1493	0	64	1	0	0.00	1
## 1494	1	126	1	1	3.46	4
## 1495	0	129	1	0	0.00	2
## 1496	0	128	1	1	2.92	0
## 1497	0	81	1	1	3.16	3
## 1498	0	114	1	0	0.00	1
## 1499	0	50	1	0	0.00	0
## 1500	0	86	1	0	0.00	3
## 1501	0	96	1	0	0.00	1
## 1502	0	72	1	0	0.27	0
## 1503	0	64	1	1	1.59	8
## 1504	0	57	0	1	3.29	2
## 1505	0	65	1	0	0.00	2
## 1506	0	163	1	0	0.00	1
## 1507	0	136	1	0	0.36	2
## 1508	0	116	1	0	0.00	1
## 1509	0	93	1	0	0.17	3
## 1510	0	142	1	1	2.48	3
## 1511	0	92	1	0	0.00	1
## 1512	0	70	1	0	0.00	1
## 1513	0	22	1	1	1.13	1

## 1514	0	37	1	0	0.00	2
## 1515	0	51	1	0	0.00	1
## 1516	0	174	1	0	0.22	2
## 1517	1	68	1	0	0.21	1
## 1518	0	130	1	0	0.00	1
## 1519	0	104	1	0	0.00	2
## 1520	0	134	1	0	0.35	2
## 1521	0	108	1	1	2.57	2
## 1522	0	103	1	0	0.00	3
## 1523	0	62	1	0	0.29	1
## 1524	0	162	1	0	0.28	2
## 1525	0	93	1	1	3.38	2
## 1526	0	42	1	0	0.00	1
## 1527	0	155	1	1	3.62	2
## 1528	0	36	1	0	0.00	0
## 1529	1	143	1	0	0.00	0
## 1530	0	197	1	0	0.24	3
## 1531	1	81	1	0	0.00	1
## 1532	1	138	0	0	0.00	4
## 1533	1	103	1	1	3.11	0
## 1534	1	127	0	0	0.00	2
## 1535	1	136	1	0	0.31	1
## 1536	0	99	1	0	0.33	2
## 1537	0	95	1	0	0.00	0
## 1538	1	118	0	1	3.00	4
## 1539	1	113	1	0	0.00	5
## 1540	0	128	0	0	0.00	0
## 1541	0	117	1	0	0.00	3
## 1542	0	48	1	1	2.05	3
## 1543	0	81	0	0	0.25	0
## 1544	0	57	1	0	0.19	1
## 1545	0	140	1	0	0.26	1
## 1546	0	107	1	1	2.97	2
## 1547	0	56	1	0	0.00	1
## 1548	0	159	1	0	0.00	1
## 1549	0	102	1	0	0.33	1
## 1550	0	107	1	0	0.00	1
## 1551	0	106	1	0	0.24	2
## 1552	1	225	1	0	0.30	0
## 1553	0	75	1	0	0.00	2
## 1554	0	86	1	0	0.00	0
## 1555	0	169	1	0	0.00	1
## 1556	0	122	1	1	2.32	2
## 1557	0	106	1	0	0.00	0
## 1558	0	52	1	1	3.65	2
## 1559	0	79	1	1	4.00	2
## 1560	0	135	1	0	0.17	2
## 1561	0	70	1	0	0.00	0
## 1562	0	80	1	0	0.00	2
## 1563	0	37	1	0	0.00	0
## 1564	0	161	1	1	1.97	1
## 1565	0	137	1	0	0.36	1
## 1566	0	123	1	0	0.00	0
## 1567	0	80	1	1	2.57	2

## 1568	0	94	1	0	0.00	0
## 1569	0	105	1	1	3.08	1
## 1570	0	73	1	1	3.11	0
## 1571	0	112	1	0	0.00	2
## 1572	0	179	1	0	0.32	1
## 1573	0	57	1	0	0.31	1
## 1574	0	127	1	1	3.13	1
## 1575	0	122	0	1	3.43	1
## 1576	0	33	1	1	2.30	1
## 1577	0	94	1	0	0.00	3
## 1578	0	100	1	0	0.00	1
## 1579	0	106	1	0	0.00	2
## 1580	0	148	1	1	4.46	2
## 1581	0	120	1	1	2.86	0
## 1582	0	91	1	1	1.51	1
## 1583	0	86	1	0	0.00	1
## 1584	0	78	1	1	3.56	0
## 1585	0	94	1	0	0.00	1
## 1586	1	85	1	0	0.00	2
## 1587	0	89	1	0	0.00	1
## 1588	0	128	1	0	0.00	1
## 1589	0	115	0	0	0.00	1
## 1590	0	76	1	0	0.00	1
## 1591	0	75	1	1	3.05	1
## 1592	0	90	1	1	3.00	2
## 1593	0	30	1	0	0.00	3
## 1594	1	105	0	0	0.00	1
## 1595	0	102	1	1	1.70	3
## 1596	0	83	1	0	0.00	3
## 1597	0	63	1	1	2.21	0
## 1598	0	155	1	0	0.00	2
## 1599	0	82	1	1	2.38	2
## 1600	0	87	1	0	0.00	1
## 1601	0	115	1	1	1.22	0
## 1602	1	99	0	0	0.00	0
## 1603	0	121	0	1	2.35	3
## 1604	0	54	1	1	3.05	2
## 1605	0	105	1	0	0.24	3
## 1606	0	73	1	0	0.34	1
## 1607	0	95	1	0	0.00	0
## 1608	0	21	1	1	3.48	3
## 1609	0	163	1	1	3.73	2
## 1610	0	57	1	0	0.00	0
## 1611	0	104	0	0	0.00	4
## 1612	0	83	1	1	3.02	0
## 1613	0	141	1	0	0.24	2
## 1614	0	95	1	0	0.00	3
## 1615	1	184	1	0	0.00	1
## 1616	0	74	1	0	0.00	2
## 1617	0	67	1	0	0.00	0
## 1618	0	104	0	0	0.00	0
## 1619	0	71	1	1	3.21	1
## 1620	1	149	1	0	0.00	4
## 1621	0	154	1	1	2.59	0

## 1622	0	138	1	1	2.13	0
## 1623	0	117	1	0	0.00	1
## 1624	0	130	1	0	0.00	1
## 1625	0	73	1	0	0.00	2
## 1626	0	100	1	1	2.65	0
## 1627	0	149	1	0	0.37	1
## 1628	0	29	1	0	0.00	2
## 1629	0	131	1	0	0.00	1
## 1630	0	153	1	0	0.00	2
## 1631	0	84	1	0	0.14	2
## 1632	0	133	1	0	0.00	2
## 1633	0	112	1	0	0.00	0
## 1634	0	87	1	0	0.00	0
## 1635	0	72	1	0	0.00	2
## 1636	1	66	1	0	0.00	4
## 1637	0	65	1	1	2.40	1
## 1638	0	74	1	0	0.45	2
## 1639	1	116	1	0	0.00	6
## 1640	0	68	1	0	0.20	2
## 1641	0	68	1	0	0.11	3
## 1642	0	54	0	0	0.00	1
## 1643	0	99	1	0	0.00	1
## 1644	0	107	1	0	0.00	3
## 1645	0	124	1	0	0.00	1
## 1646	0	95	1	1	3.05	3
## 1647	1	173	1	0	0.00	0
## 1648	0	110	1	0	0.30	1
## 1649	0	102	1	0	0.00	0
## 1650	0	130	1	0	0.00	0
## 1651	0	91	1	1	2.59	1
## 1652	1	64	0	0	0.00	1
## 1653	0	176	1	1	1.94	1
## 1654	1	93	0	0	0.00	1
## 1655	0	84	1	1	2.89	1
## 1656	0	138	1	0	0.00	3
## 1657	0	101	1	1	2.89	1
## 1658	0	136	1	0	0.30	2
## 1659	0	111	1	0	0.25	2
## 1660	0	132	1	1	3.70	0
## 1661	0	128	1	0	0.36	3
## 1662	0	92	1	1	2.40	1
## 1663	1	197	0	0	0.12	5
## 1664	0	191	1	0	0.00	1
## 1665	0	99	1	1	2.86	2
## 1666	0	106	1	1	3.32	3
## 1667	0	88	1	0	0.29	2
## 1668	0	78	1	0	0.00	0
## 1669	0	98	1	0	0.16	1
## 1670	0	17	1	1	2.19	1
## 1671	0	56	1	1	3.43	1
## 1672	0	84	1	0	0.16	2
## 1673	0	95	1	0	0.00	2
## 1674	0	16	1	0	0.00	5
## 1675	1	76	0	0	0.34	1

## 1676	0	93	1	0	0.21	0
## 1677	0	83	1	0	0.00	2
## 1678	0	123	1	0	0.00	1
## 1679	0	64	1	0	0.31	1
## 1680	1	82	1	0	0.00	0
## 1681	0	107	1	0	0.00	2
## 1682	0	110	1	0	0.00	1
## 1683	0	96	1	1	2.30	1
## 1684	0	47	1	1	3.48	2
## 1685	0	115	1	0	0.00	2
## 1686	0	69	1	0	0.27	3
## 1687	0	163	1	1	3.32	2
## 1688	0	90	1	0	0.00	3
## 1689	0	98	1	0	0.00	3
## 1690	0	90	1	1	3.08	1
## 1691	0	174	1	1	3.35	1
## 1692	1	95	1	0	0.00	2
## 1693	1	79	1	0	0.31	1
## 1694	0	123	1	1	3.38	1
## 1695	1	99	1	0	0.00	7
## 1696	0	114	1	0	0.00	2
## 1697	0	141	1	0	0.00	1
## 1698	0	132	1	0	0.00	1
## 1699	0	133	1	0	0.00	0
## 1700	0	133	1	0	0.00	4
## 1701	0	93	1	1	2.54	2
## 1702	1	34	1	0	0.29	2
## 1703	1	140	1	0	0.00	4
## 1704	0	96	1	1	3.00	2
## 1705	1	144	1	0	0.00	1
## 1706	0	24	1	1	1.94	3
## 1707	0	54	1	0	0.00	1
## 1708	1	50	1	0	0.00	5
## 1709	0	92	1	1	3.02	4
## 1710	0	96	1	0	0.00	3
## 1711	0	146	1	0	0.00	2
## 1712	0	138	0	1	3.16	0
## 1713	0	102	1	0	0.00	4
## 1714	1	76	1	0	0.36	5
## 1715	0	99	1	0	0.00	3
## 1716	0	83	1	1	3.59	0
## 1717	0	36	1	1	2.46	1
## 1718	0	70	1	0	0.00	1
## 1719	1	109	0	0	0.00	2
## 1720	0	100	1	0	0.00	2
## 1721	0	104	1	0	0.24	1
## 1722	0	106	1	0	0.00	1
## 1723	0	84	1	0	0.00	1
## 1724	0	80	1	0	0.40	2
## 1725	0	100	1	0	0.00	1
## 1726	0	99	1	0	0.00	2
## 1727	0	50	1	0	0.00	1
## 1728	0	105	1	0	0.00	1
## 1729	0	113	1	1	2.57	4

## 1730	0	111	1	1	3.62	2
## 1731	0	161	1	0	0.00	2
## 1732	1	70	1	0	0.00	0
## 1733	0	97	1	1	2.24	3
## 1734	0	130	1	0	0.00	0
## 1735	0	92	1	0	0.00	1
## 1736	0	119	1	0	0.00	0
## 1737	1	115	1	0	0.00	1
## 1738	0	134	1	0	0.00	0
## 1739	0	127	1	1	1.30	0
## 1740	1	80	1	0	0.00	2
## 1741	0	153	1	1	2.54	0
## 1742	0	85	1	0	0.00	3
## 1743	0	79	1	0	0.00	1
## 1744	0	35	1	0	0.00	1
## 1745	0	120	1	1	2.08	0
## 1746	0	68	1	0	0.33	0
## 1747	1	60	1	0	0.00	1
## 1748	0	120	1	0	0.00	1
## 1749	0	71	1	1	3.81	1
## 1750	0	124	1	0	0.00	3
## 1751	1	23	1	0	0.00	1
## 1752	0	225	1	0	0.00	1
## 1753	1	181	0	0	0.21	0
## 1754	0	63	1	0	0.00	2
## 1755	1	54	0	0	0.38	2
## 1756	0	80	0	1	3.21	1
## 1757	0	118	0	1	2.48	1
## 1758	0	42	0	0	0.00	2
## 1759	0	134	1	0	0.00	0
## 1760	0	66	1	1	2.40	0
## 1761	0	66	1	0	0.31	2
## 1762	0	127	1	1	2.08	1
## 1763	0	146	1	0	0.00	0
## 1764	0	93	1	1	3.11	1
## 1765	1	77	1	0	0.00	0
## 1766	1	111	1	0	0.00	4
## 1767	0	125	1	0	0.00	2
## 1768	0	115	1	1	2.84	2
## 1769	1	115	0	0	0.00	2
## 1770	0	114	1	0	0.00	2
## 1771	0	106	1	0	0.00	0
## 1772	0	118	1	1	3.43	2
## 1773	0	59	1	0	0.19	1
## 1774	0	87	0	1	3.11	1
## 1775	0	21	1	0	0.30	1
## 1776	0	142	1	1	2.57	0
## 1777	0	62	1	0	0.00	0
## 1778	1	149	1	0	0.00	3
## 1779	0	54	1	1	3.05	2
## 1780	0	112	1	0	0.00	1
## 1781	0	68	1	0	0.00	1
## 1782	0	201	1	1	4.08	1
## 1783	0	88	1	0	0.00	1

## 1784	0	85	1	1	2.94	1
## 1785	1	51	0	0	0.00	0
## 1786	0	45	1	1	2.13	2
## 1787	0	116	1	0	0.00	0
## 1788	0	146	1	1	2.11	1
## 1789	0	63	1	1	3.32	1
## 1790	0	133	1	0	0.00	0
## 1791	0	125	1	0	0.00	2
## 1792	0	72	1	0	0.00	1
## 1793	0	130	1	0	0.18	0
## 1794	0	97	1	0	0.00	1
## 1795	1	54	1	0	0.00	1
## 1796	0	160	1	1	4.10	1
## 1797	0	79	1	0	0.24	1
## 1798	0	92	1	1	2.75	0
## 1799	0	59	1	0	0.00	1
## 1800	0	132	1	0	0.32	1
## 1801	0	21	1	0	0.00	0
## 1802	0	93	1	0	0.23	2
## 1803	0	147	1	1	3.73	5
## 1804	0	101	1	0	0.00	1
## 1805	1	125	0	0	0.00	0
## 1806	0	63	1	0	0.27	3
## 1807	0	107	1	0	0.00	0
## 1808	0	110	1	0	0.00	3
## 1809	0	83	1	0	0.00	3
## 1810	0	117	1	0	0.42	1
## 1811	0	124	1	0	0.00	0
## 1812	0	115	1	0	0.00	3
## 1813	0	156	0	0	0.20	1
## 1814	0	89	1	0	0.15	0
## 1815	0	72	1	0	0.00	0
## 1816	0	101	1	1	2.57	0
## 1817	0	53	1	0	0.00	2
## 1818	0	116	1	0	0.00	2
## 1819	0	78	1	0	0.00	3
## 1820	0	117	1	1	1.19	0
## 1821	0	56	1	0	0.00	1
## 1822	0	123	1	1	4.16	1
## 1823	0	127	1	0	0.00	2
## 1824	0	116	1	1	3.19	2
## 1825	0	138	1	1	4.05	1
## 1826	0	120	1	0	0.00	3
## 1827	0	102	1	0	0.00	3
## 1828	0	95	1	0	0.00	2
## 1829	0	102	1	0	0.00	2
## 1830	0	89	1	1	2.86	1
## 1831	0	50	1	0	0.21	1
## 1832	0	93	1	1	3.05	7
## 1833	0	68	1	0	0.00	1
## 1834	0	70	1	0	0.00	2
## 1835	0	138	1	1	3.83	0
## 1836	0	141	1	1	2.16	4
## 1837	0	112	1	1	2.62	0

## 1838	1	117	0	0	0.00	1
## 1839	0	1	1	1	2.19	1
## 1840	0	70	1	0	0.00	1
## 1841	0	87	1	1	1.92	2
## 1842	0	52	1	1	1.43	2
## 1843	1	97	1	0	0.40	0
## 1844	0	105	1	0	0.00	2
## 1845	1	77	1	1	3.11	4
## 1846	1	80	0	0	0.00	2
## 1847	0	120	1	1	3.11	1
## 1848	0	54	1	1	3.38	2
## 1849	0	148	0	0	0.00	2
## 1850	1	119	1	0	0.00	2
## 1851	1	162	1	1	2.51	1
## 1852	1	85	1	0	0.00	5
## 1853	0	101	1	1	3.92	1
## 1854	0	172	1	0	0.00	0
## 1855	0	80	1	0	0.00	1
## 1856	0	67	1	0	0.00	2
## 1857	0	86	1	0	0.00	1
## 1858	1	107	1	0	0.00	1
## 1859	0	133	1	0	0.00	0
## 1860	0	116	1	0	0.00	0
## 1861	0	63	1	0	0.36	0
## 1862	1	119	0	1	2.08	0
## 1863	1	133	0	0	0.00	0
## 1864	0	94	0	0	0.00	1
## 1865	0	69	1	0	0.41	0
## 1866	1	146	1	0	0.00	7
## 1867	1	119	1	0	0.00	2
## 1868	0	142	0	1	2.65	0
## 1869	0	123	1	0	0.00	3
## 1870	1	101	1	0	0.00	1
## 1871	0	43	1	0	0.35	0
## 1872	0	69	1	0	0.00	0
## 1873	0	15	0	0	0.00	2
## 1874	0	107	1	1	3.24	1
## 1875	0	67	1	0	0.00	2
## 1876	0	99	1	0	0.28	1
## 1877	0	46	1	0	0.00	1
## 1878	0	55	0	0	0.00	1
## 1879	1	39	1	0	0.00	1
## 1880	0	92	1	0	0.00	2
## 1881	1	56	1	0	0.16	4
## 1882	1	76	1	0	0.00	0
## 1883	0	132	0	1	3.48	2
## 1884	0	140	1	1	3.00	1
## 1885	0	51	0	1	3.32	2
## 1886	0	27	1	0	0.16	1
## 1887	0	224	1	0	0.21	3
## 1888	1	105	0	1	3.97	0
## 1889	0	117	1	0	0.00	2
## 1890	1	91	1	0	0.00	1
## 1891	0	135	1	0	0.00	4

## 1892	0	146	1	0	0.00	3
## 1893	1	147	0	0	0.00	0
## 1894	1	68	1	0	0.00	2
## 1895	0	68	1	0	0.41	3
## 1896	0	86	1	1	2.73	0
## 1897	0	131	1	0	0.00	1
## 1898	0	86	1	1	3.48	1
## 1899	1	159	1	0	0.00	2
## 1900	0	134	1	1	2.92	1
## 1901	0	113	1	0	0.00	1
## 1902	0	132	1	0	0.00	1
## 1903	0	85	1	0	0.00	1
## 1904	1	93	0	1	3.78	1
## 1905	1	174	1	1	3.92	4
## 1906	0	61	1	0	0.00	2
## 1907	0	91	1	1	2.94	1
## 1908	0	88	1	1	2.65	2
## 1909	0	88	1	1	3.46	2
## 1910	0	195	1	1	3.27	0
## 1911	0	182	1	0	0.00	0
## 1912	0	118	1	0	0.00	4
## 1913	1	103	1	0	0.00	8
## 1914	0	65	1	0	0.28	2
## 1915	0	61	1	1	2.67	3
## 1916	0	172	1	0	0.00	1
## 1917	0	72	1	0	0.00	1
## 1918	0	113	1	0	0.00	2
## 1919	0	177	1	0	0.00	1
## 1920	1	100	1	0	0.00	6
## 1921	0	67	1	0	0.35	1
## 1922	0	136	1	0	0.00	3
## 1923	0	71	1	0	0.23	4
## 1924	0	134	1	0	0.00	1
## 1925	0	124	1	0	0.00	1
## 1926	0	84	1	0	0.26	2
## 1927	0	39	1	0	0.00	2
## 1928	0	110	1	0	0.00	3
## 1929	0	102	1	0	0.00	1
## 1930	0	70	1	0	0.00	0
## 1931	0	142	1	0	0.00	1
## 1932	0	81	0	0	0.00	1
## 1933	0	17	1	0	0.00	1
## 1934	1	119	1	0	0.00	1
## 1935	1	105	1	0	0.00	0
## 1936	1	108	0	1	3.67	3
## 1937	0	90	1	0	0.00	2
## 1938	0	100	1	1	3.27	1
## 1939	0	155	1	1	1.84	1
## 1940	1	113	1	0	0.00	2
## 1941	0	123	1	0	0.36	1
## 1942	0	145	1	0	0.00	1
## 1943	0	42	1	0	0.00	2
## 1944	0	125	1	0	0.00	0
## 1945	0	131	1	1	1.81	1

## 1946	0	107	1	0	0.00	1
## 1947	0	48	1	0	0.00	1
## 1948	0	76	1	0	0.00	0
## 1949	0	128	1	0	0.00	1
## 1950	0	73	1	0	0.00	0
## 1951	1	52	1	0	0.00	4
## 1952	0	126	0	1	2.59	1
## 1953	0	124	1	0	0.00	1
## 1954	0	137	1	0	0.00	0
## 1955	1	71	1	0	0.00	0
## 1956	0	139	1	0	0.00	0
## 1957	0	107	1	1	3.40	3
## 1958	0	147	1	0	0.33	1
## 1959	0	116	1	0	0.00	3
## 1960	0	60	1	1	3.46	2
## 1961	0	38	1	0	0.00	0
## 1962	0	63	1	0	0.00	3
## 1963	0	94	1	0	0.00	3
## 1964	0	131	1	0	0.00	0
## 1965	0	158	1	0	0.33	1
## 1966	1	139	1	0	0.00	1
## 1967	0	77	1	0	0.00	1
## 1968	0	140	1	0	0.28	3
## 1969	0	72	1	0	0.00	1
## 1970	0	52	1	1	3.65	1
## 1971	0	103	1	0	0.24	5
## 1972	0	74	1	1	2.43	1
## 1973	0	124	1	0	0.00	2
## 1974	0	85	1	1	1.70	5
## 1975	1	113	1	1	2.35	5
## 1976	0	71	1	0	0.00	2
## 1977	0	177	1	1	2.81	1
## 1978	1	49	0	0	0.26	2
## 1979	1	106	0	0	0.00	3
## 1980	0	60	1	0	0.00	1
## 1981	0	43	1	0	0.00	4
## 1982	0	66	1	0	0.00	1
## 1983	0	125	1	0	0.00	0
## 1984	0	114	1	1	2.54	3
## 1985	1	112	1	0	0.00	3
## 1986	0	101	1	1	2.21	2
## 1987	0	70	1	0	0.27	0
## 1988	0	59	1	0	0.19	0
## 1989	0	59	1	0	0.42	1
## 1990	0	124	1	1	3.24	2
## 1991	0	99	1	0	0.00	2
## 1992	0	150	1	0	0.00	1
## 1993	0	81	1	0	0.28	2
## 1994	0	86	1	0	0.35	0
## 1995	0	84	1	0	0.00	0
## 1996	0	118	1	1	3.16	1
## 1997	0	89	1	0	0.00	1
## 1998	0	93	1	0	0.00	3
## 1999	0	85	1	0	0.00	2

## 2000	0	160	1	0	0.00	0
## 2001	0	28	1	0	0.00	3
## 2002	1	73	1	0	0.00	1
## 2003	0	156	1	0	0.00	3
## 2004	0	33	0	0	0.00	1
## 2005	0	77	1	0	0.21	4
## 2006	0	119	1	0	0.00	1
## 2007	0	91	1	1	1.78	3
## 2008	0	102	1	0	0.00	3
## 2009	0	86	1	1	3.21	3
## 2010	0	82	1	0	0.00	0
## 2011	0	89	1	0	0.00	0
## 2012	0	86	1	0	0.00	3
## 2013	0	134	1	0	0.00	1
## 2014	0	92	1	0	0.25	2
## 2015	0	87	1	0	0.00	3
## 2016	0	64	1	0	0.00	0
## 2017	0	80	1	0	0.23	3
## 2018	0	165	1	1	2.57	3
## 2019	0	153	1	1	2.03	1
## 2020	0	41	1	1	3.00	1
## 2021	0	108	1	0	0.00	2
## 2022	0	104	1	1	3.00	1
## 2023	0	115	1	0	0.00	1
## 2024	0	87	1	0	0.00	1
## 2025	0	159	1	1	3.40	2
## 2026	0	119	1	0	0.23	2
## 2027	0	69	1	0	0.00	1
## 2028	0	87	0	1	2.92	1
## 2029	1	93	1	0	0.29	1
## 2030	1	154	0	0	0.36	0
## 2031	0	57	1	1	3.19	1
## 2032	0	130	1	0	0.00	5
## 2033	0	151	1	0	0.00	2
## 2034	1	162	1	0	0.33	2
## 2035	0	60	1	0	0.00	1
## 2036	0	81	1	0	0.00	3
## 2037	0	132	1	0	0.00	3
## 2038	0	86	1	0	0.00	1
## 2039	1	136	1	0	0.45	1
## 2040	0	121	1	1	2.86	1
## 2041	0	105	1	1	2.62	2
## 2042	0	105	1	1	2.67	2
## 2043	0	51	1	1	3.02	1
## 2044	0	64	1	0	0.26	3
## 2045	0	80	0	1	2.70	0
## 2046	0	56	1	0	0.00	4
## 2047	0	120	1	0	0.00	1
## 2048	0	103	1	0	0.00	3
## 2049	0	164	1	1	2.59	3
## 2050	0	116	1	1	1.89	2
## 2051	0	121	1	0	0.32	1
## 2052	0	55	0	0	0.00	1
## 2053	0	183	1	0	0.00	2

## 2054	0	104	1	0	0.00	0
## 2055	0	90	1	0	0.00	1
## 2056	0	82	1	0	0.00	1
## 2057	0	101	1	0	0.31	3
## 2058	0	9	1	1	3.11	2
## 2059	0	97	1	0	0.00	0
## 2060	1	94	1	0	0.28	3
## 2061	0	127	1	1	1.97	0
## 2062	0	125	1	1	2.78	0
## 2063	0	140	1	0	0.00	1
## 2064	0	90	1	0	0.28	2
## 2065	0	67	1	0	0.00	2
## 2066	0	113	1	0	0.00	1
## 2067	0	121	1	1	4.08	0
## 2068	0	93	1	0	0.00	4
## 2069	0	121	1	0	0.00	1
## 2070	1	53	1	0	0.31	0
## 2071	0	75	1	0	0.00	1
## 2072	0	132	1	0	0.00	2
## 2073	0	162	1	0	0.00	3
## 2074	0	140	1	0	0.00	1
## 2075	0	91	1	0	0.00	2
## 2076	0	73	1	1	2.38	2
## 2077	1	95	0	0	0.00	4
## 2078	0	145	1	0	0.00	0
## 2079	0	100	1	0	0.00	1
## 2080	0	122	1	0	0.00	2
## 2081	0	109	1	0	0.00	0
## 2082	0	82	1	0	0.00	1
## 2083	0	65	1	1	2.65	0
## 2084	0	52	1	0	0.00	3
## 2085	0	136	1	1	2.38	2
## 2086	0	75	1	0	0.00	1
## 2087	0	146	1	0	0.00	1
## 2088	0	105	1	0	0.00	4
## 2089	0	48	1	0	0.00	2
## 2090	0	45	1	0	0.00	1
## 2091	0	106	1	1	2.86	2
## 2092	0	33	1	0	0.00	2
## 2093	0	68	1	0	0.00	2
## 2094	0	106	1	0	0.00	0
## 2095	0	141	1	0	0.00	0
## 2096	0	98	1	0	0.33	0
## 2097	0	94	1	1	4.35	0
## 2098	0	65	1	0	0.00	2
## 2099	0	85	1	0	0.00	1
## 2100	1	71	1	0	0.00	3
## 2101	0	112	1	1	3.59	0
## 2102	0	110	1	0	0.00	0
## 2103	0	111	1	0	0.00	2
## 2104	1	74	1	0	0.32	2
## 2105	0	105	1	0	0.00	2
## 2106	0	40	1	0	0.28	0
## 2107	1	128	0	1	3.67	0

## 2108	1	123	1	0	0.00	2
## 2109	0	122	1	0	0.00	0
## 2110	0	114	1	1	3.40	3
## 2111	0	102	1	1	2.75	2
## 2112	0	126	1	0	0.00	0
## 2113	1	150	1	0	0.00	4
## 2114	1	60	1	0	0.00	2
## 2115	0	123	1	0	0.00	3
## 2116	1	138	0	0	0.00	0
## 2117	0	29	1	0	0.00	1
## 2118	0	111	1	0	0.00	4
## 2119	1	37	0	0	0.00	0
## 2120	1	111	1	0	0.00	0
## 2121	0	81	1	0	0.00	1
## 2122	0	46	1	0	0.00	1
## 2123	0	69	1	1	4.43	0
## 2124	0	125	1	0	0.00	1
## 2125	0	43	1	0	0.38	3
## 2126	0	127	1	1	1.03	1
## 2127	0	94	1	0	0.00	1
## 2128	0	46	1	0	0.00	3
## 2129	0	73	1	1	2.75	2
## 2130	0	146	1	1	2.00	2
## 2131	0	93	1	0	0.24	1
## 2132	0	52	1	1	2.97	1
## 2133	0	202	1	0	0.00	3
## 2134	0	129	1	1	2.78	2
## 2135	0	94	1	0	0.00	1
## 2136	0	100	1	0	0.21	0
## 2137	0	43	1	0	0.00	1
## 2138	0	130	1	0	0.28	0
## 2139	0	124	1	0	0.00	3
## 2140	1	92	0	0	0.00	3
## 2141	0	48	1	0	0.00	4
## 2142	0	98	1	1	1.78	2
## 2143	1	100	1	0	0.00	1
## 2144	0	79	1	0	0.31	3
## 2145	0	164	1	0	0.00	1
## 2146	0	105	1	0	0.33	1
## 2147	0	89	0	0	0.00	0
## 2148	1	126	1	0	0.00	3
## 2149	0	96	1	0	0.30	1
## 2150	0	120	1	1	3.13	0
## 2151	1	212	1	0	0.23	2
## 2152	0	72	1	0	0.00	2
## 2153	0	155	0	1	3.00	1
## 2154	0	89	1	0	0.38	2
## 2155	0	126	0	0	0.00	2
## 2156	1	172	1	0	0.00	2
## 2157	0	75	1	0	0.00	3
## 2158	0	143	1	0	0.00	2
## 2159	1	166	0	0	0.00	0
## 2160	0	132	1	0	0.00	1
## 2161	1	94	0	0	0.00	1

## 2162	0	99	1	0	0.00	0
## 2163	0	136	1	1	1.86	1
## 2164	0	119	1	0	0.00	1
## 2165	1	115	0	0	0.00	3
## 2166	0	160	1	0	0.00	2
## 2167	0	166	1	0	0.26	2
## 2168	0	120	1	0	0.00	1
## 2169	0	173	1	0	0.00	1
## 2170	0	156	1	0	0.00	0
## 2171	0	70	1	0	0.31	0
## 2172	0	41	1	0	0.31	1
## 2173	0	132	1	0	0.00	0
## 2174	1	47	0	0	0.00	0
## 2175	0	160	1	0	0.28	1
## 2176	0	180	1	0	0.00	3
## 2177	0	93	1	0	0.00	2
## 2178	0	109	1	0	0.36	2
## 2179	0	80	1	0	0.00	0
## 2180	0	54	1	1	3.13	2
## 2181	0	121	1	0	0.00	2
## 2182	0	157	1	1	4.05	1
## 2183	0	170	1	1	3.51	0
## 2184	0	138	1	0	0.00	3
## 2185	0	92	1	1	3.19	1
## 2186	0	126	1	0	0.00	1
## 2187	1	41	1	0	0.00	3
## 2188	1	167	1	0	0.00	4
## 2189	0	91	1	0	0.00	2
## 2190	0	127	1	0	0.26	3
## 2191	0	88	1	1	2.94	1
## 2192	0	113	1	0	0.00	1
## 2193	0	78	1	0	0.00	2
## 2194	0	123	1	0	0.26	2
## 2195	0	136	0	1	2.43	2
## 2196	0	68	1	1	1.65	1
## 2197	0	132	1	1	3.11	0
## 2198	0	133	1	0	0.00	2
## 2199	0	127	1	0	0.00	0
## 2200	0	110	1	0	0.00	2
## 2201	0	121	1	0	0.00	1
## 2202	0	116	1	0	0.00	2
## 2203	0	112	0	1	2.81	1
## 2204	1	97	0	0	0.00	4
## 2205	0	43	1	0	0.26	2
## 2206	0	110	1	0	0.00	3
## 2207	0	67	1	0	0.00	1
## 2208	0	166	1	0	0.23	0
## 2209	0	129	1	0	0.00	1
## 2210	0	103	0	0	0.00	3
## 2211	1	71	1	0	0.00	0
## 2212	0	112	1	1	3.00	4
## 2213	0	8	1	1	1.30	1
## 2214	1	98	1	0	0.20	0
## 2215	0	90	1	0	0.00	1

## 2216	1	13	1	0	0.00	0
## 2217	0	58	1	0	0.00	2
## 2218	0	137	1	1	3.08	2
## 2219	1	116	1	0	0.33	5
## 2220	0	94	1	1	2.67	3
## 2221	0	87	1	0	0.00	3
## 2222	0	120	1	0	0.00	2
## 2223	0	97	1	1	3.27	0
## 2224	0	134	1	0	0.35	6
## 2225	0	68	1	0	0.00	2
## 2226	0	93	1	0	0.00	1
## 2227	0	120	1	0	0.00	1
## 2228	0	41	1	0	0.00	2
## 2229	0	80	1	0	0.24	2
## 2230	0	83	1	1	4.75	2
## 2231	0	109	0	0	0.25	2
## 2232	0	66	1	1	1.92	3
## 2233	0	104	1	0	0.00	0
## 2234	0	89	1	0	0.00	1
## 2235	0	127	1	0	0.32	2
## 2236	0	117	1	1	2.62	1
## 2237	0	128	1	0	0.00	2
## 2238	1	88	1	0	0.00	4
## 2239	1	61	1	0	0.00	1
## 2240	0	22	1	0	0.00	2
## 2241	0	78	1	0	0.00	0
## 2242	0	56	1	1	1.32	1
## 2243	0	192	1	0	0.34	2
## 2244	0	70	1	0	0.30	2
## 2245	0	148	1	0	0.00	1
## 2246	0	65	1	1	2.38	2
## 2247	0	119	1	0	0.00	1
## 2248	0	80	1	0	0.00	0
## 2249	0	152	1	1	3.59	5
## 2250	0	113	1	0	0.00	3
## 2251	0	75	1	0	0.26	1
## 2252	0	80	1	0	0.00	1
## 2253	0	148	1	0	0.00	1
## 2254	0	63	0	0	0.00	1
## 2255	0	97	1	1	1.81	1
## 2256	0	166	1	0	0.00	0
## 2257	0	94	1	0	0.00	1
## 2258	0	85	1	1	3.65	1
## 2259	1	80	0	0	0.00	1
## 2260	0	210	1	1	2.73	3
## 2261	0	88	0	1	3.51	1
## 2262	0	100	1	0	0.33	4
## 2263	0	154	1	1	3.94	1
## 2264	0	32	1	1	2.43	1
## 2265	0	18	1	0	0.27	3
## 2266	0	126	1	1	2.35	0
## 2267	0	144	1	1	2.70	1
## 2268	1	29	1	0	0.00	2
## 2269	0	86	1	1	3.05	0

## 2270	0	138	1	1	2.21	0
## 2271	0	146	1	0	0.00	3
## 2272	0	175	1	0	0.00	1
## 2273	0	74	1	0	0.00	2
## 2274	0	48	1	0	0.00	2
## 2275	0	74	1	1	2.67	4
## 2276	0	105	0	0	0.00	0
## 2277	0	157	1	0	0.39	3
## 2278	0	217	1	0	0.29	0
## 2279	0	68	1	0	0.28	1
## 2280	0	80	1	0	0.00	1
## 2281	0	38	1	1	3.62	2
## 2282	0	107	1	1	2.24	0
## 2283	0	140	1	0	0.00	3
## 2284	1	98	1	0	0.38	5
## 2285	0	114	1	0	0.00	2
## 2286	0	46	1	0	0.00	1
## 2287	0	118	1	1	2.81	0
## 2288	0	37	1	0	0.00	3
## 2289	0	34	1	0	0.31	0
## 2290	0	98	0	1	2.92	1
## 2291	1	113	1	0	0.00	3
## 2292	0	69	1	0	0.00	0
## 2293	0	121	1	0	0.00	2
## 2294	0	59	0	1	2.46	1
## 2295	0	59	1	0	0.00	0
## 2296	0	190	1	0	0.26	0
## 2297	0	109	1	0	0.00	1
## 2298	0	136	1	0	0.00	2
## 2299	0	86	1	0	0.00	1
## 2300	0	100	1	1	2.16	0
## 2301	0	106	1	0	0.00	0
## 2302	0	104	1	0	0.00	2
## 2303	0	129	1	0	0.41	2
## 2304	0	205	1	0	0.32	2
## 2305	0	93	1	1	2.97	0
## 2306	0	123	1	0	0.00	3
## 2307	0	99	1	0	0.00	1
## 2308	0	61	1	1	2.94	3
## 2309	0	71	1	0	0.00	1
## 2310	0	4	0	0	0.00	0
## 2311	0	148	1	1	3.65	3
## 2312	0	141	1	0	0.00	1
## 2313	0	56	1	0	0.37	0
## 2314	0	160	1	0	0.00	3
## 2315	0	43	1	1	3.13	3
## 2316	0	42	1	0	0.33	2
## 2317	0	135	0	0	0.00	1
## 2318	0	106	1	0	0.00	3
## 2319	0	106	1	0	0.00	0
## 2320	0	83	1	1	2.35	3
## 2321	0	110	1	0	0.00	1
## 2322	0	153	1	0	0.29	1
## 2323	0	109	1	1	2.86	5

## 2324	0	31	1	0	0.00	1
## 2325	1	124	1	0	0.00	4
## 2326	1	110	1	0	0.00	2
## 2327	0	124	1	0	0.00	0
## 2328	1	82	1	0	0.31	6
## 2329	0	122	1	0	0.00	1
## 2330	0	137	1	0	0.21	1
## 2331	0	69	1	0	0.00	1
## 2332	0	46	1	1	1.94	1
## 2333	0	103	1	0	0.00	1
## 2334	0	16	1	0	0.21	2
## 2335	0	119	1	0	0.00	3
## 2336	1	124	0	0	0.00	3
## 2337	0	122	1	1	3.13	1
## 2338	0	139	1	0	0.00	4
## 2339	0	67	1	0	0.31	2
## 2340	0	84	1	0	0.27	1
## 2341	0	101	1	1	3.40	0
## 2342	0	40	1	0	0.25	0
## 2343	0	61	1	0	0.00	2
## 2344	1	120	0	0	0.00	1
## 2345	0	95	1	0	0.00	1
## 2346	0	98	1	0	0.00	0
## 2347	0	114	1	0	0.00	2
## 2348	1	68	0	1	3.65	1
## 2349	0	149	1	1	3.05	2
## 2350	0	22	1	0	0.00	0
## 2351	0	176	1	0	0.34	0
## 2352	0	152	1	0	0.00	2
## 2353	0	118	1	0	0.00	0
## 2354	0	101	0	0	0.17	1
## 2355	1	102	1	0	0.00	2
## 2356	0	118	1	0	0.00	2
## 2357	1	105	1	0	0.00	2
## 2358	1	153	1	0	0.00	1
## 2359	0	71	1	0	0.00	0
## 2360	0	71	1	1	3.54	1
## 2361	0	68	1	0	0.00	2
## 2362	0	66	1	0	0.33	3
## 2363	0	101	1	0	0.25	3
## 2364	0	116	1	0	0.00	0
## 2365	0	54	1	1	3.70	0
## 2366	0	112	1	1	3.11	1
## 2367	0	122	1	1	3.78	1
## 2368	0	74	1	0	0.00	3
## 2369	0	90	1	0	0.00	1
## 2370	1	112	1	0	0.00	4
## 2371	0	85	1	0	0.00	4
## 2372	0	100	1	0	0.00	1
## 2373	0	114	1	0	0.00	2
## 2374	0	83	1	0	0.24	0
## 2375	0	157	0	0	0.00	0
## 2376	0	51	1	0	0.31	2
## 2377	1	42	1	0	0.00	1

## 2378	1	101	1	1	2.38	1
## 2379	0	112	1	0	0.00	3
## 2380	0	56	1	0	0.00	2
## 2381	1	53	1	0	0.00	9
## 2382	0	64	1	1	2.05	1
## 2383	0	123	1	0	0.00	0
## 2384	0	68	1	1	2.59	2
## 2385	0	40	0	0	0.23	0
## 2386	0	132	1	0	0.00	0
## 2387	1	120	0	0	0.00	2
## 2388	1	108	1	1	2.46	6
## 2389	1	161	1	0	0.00	1
## 2390	1	130	1	0	0.24	0
## 2391	0	122	1	0	0.00	0
## 2392	0	130	1	1	2.92	2
## 2393	0	90	1	0	0.00	1
## 2394	0	139	1	1	2.24	0
## 2395	0	57	1	0	0.31	3
## 2396	0	128	1	0	0.00	4
## 2397	0	127	0	0	0.32	2
## 2398	1	107	1	0	0.00	1
## 2399	0	177	1	0	0.00	1
## 2400	0	121	1	0	0.00	1
## 2401	0	99	0	1	2.27	0
## 2402	1	126	0	0	0.00	1
## 2403	1	77	1	1	4.13	5
## 2404	0	21	1	0	0.00	2
## 2405	0	56	1	0	0.33	1
## 2406	1	92	1	1	1.73	1
## 2407	0	81	1	0	0.00	2
## 2408	1	139	0	1	3.62	1
## 2409	0	68	1	0	0.34	1
## 2410	0	183	1	1	2.35	2
## 2411	0	90	1	0	0.00	0
## 2412	0	165	1	0	0.13	1
## 2413	1	89	1	0	0.00	1
## 2414	0	59	1	0	0.00	0
## 2415	0	16	0	0	0.00	0
## 2416	1	114	1	0	0.00	5
## 2417	0	113	1	0	0.00	2
## 2418	0	120	1	0	0.36	2
## 2419	0	115	1	0	0.26	0
## 2420	1	37	1	0	0.00	2
## 2421	1	100	0	0	0.00	2
## 2422	1	132	1	0	0.00	4
## 2423	0	38	1	1	4.10	2
## 2424	0	1	1	0	0.00	0
## 2425	0	97	1	1	1.73	1
## 2426	0	55	1	1	2.32	2
## 2427	0	75	1	0	0.00	1
## 2428	0	83	1	0	0.00	2
## 2429	1	40	1	0	0.00	6
## 2430	0	101	1	1	2.70	2
## 2431	0	120	1	1	4.21	0

## 2432	0	183	1	1	2.75	1
## 2433	1	75	1	0	0.00	4
## 2434	0	80	1	0	0.00	2
## 2435	0	88	1	0	0.00	0
## 2436	0	112	1	1	2.78	1
## 2437	0	63	1	0	0.00	1
## 2438	1	105	1	1	2.24	4
## 2439	0	92	1	0	0.33	2
## 2440	0	177	1	0	0.00	1
## 2441	0	118	1	0	0.43	0
## 2442	0	111	1	1	3.27	1
## 2443	0	82	1	1	1.27	3
## 2444	0	74	1	0	0.22	0
## 2445	0	121	1	1	2.62	5
## 2446	0	131	1	0	0.31	1
## 2447	0	125	1	0	0.30	2
## 2448	0	19	1	0	0.31	1
## 2449	0	138	1	0	0.00	3
## 2450	0	119	1	0	0.00	3
## 2451	0	137	1	0	0.00	1
## 2452	1	182	1	0	0.00	2
## 2453	0	135	1	0	0.00	1
## 2454	0	134	1	1	2.70	1
## 2455	0	45	1	0	0.00	1
## 2456	0	129	1	0	0.00	1
## 2457	0	142	1	0	0.20	4
## 2458	0	130	1	1	3.29	1
## 2459	0	163	1	1	2.38	1
## 2460	0	105	1	0	0.40	4
## 2461	0	119	1	0	0.00	2
## 2462	0	78	1	0	0.00	0
## 2463	0	92	1	0	0.27	2
## 2464	0	146	1	1	2.73	2
## 2465	0	125	1	1	2.54	1
## 2466	0	88	1	0	0.00	3
## 2467	0	83	1	1	2.84	0
## 2468	0	3	0	0	0.26	1
## 2469	1	152	0	1	1.16	1
## 2470	0	48	1	0	0.00	3
## 2471	0	189	1	0	0.25	3
## 2472	0	95	1	1	2.00	0
## 2473	1	129	1	0	0.23	1
## 2474	0	66	1	1	2.30	0
## 2475	0	80	1	1	2.51	0
## 2476	0	1	1	0	0.00	1
## 2477	0	84	1	0	0.00	1
## 2478	0	96	1	0	0.00	1
## 2479	0	123	1	1	3.56	1
## 2480	1	116	0	1	3.16	3
## 2481	0	105	0	0	0.31	3
## 2482	0	80	1	0	0.24	1
## 2483	0	157	1	0	0.00	2
## 2484	0	67	1	1	3.48	2
## 2485	0	141	1	1	3.32	0

## 2486	0	79	1	1	3.24	1
## 2487	0	76	1	0	0.00	0
## 2488	0	111	1	0	0.25	0
## 2489	0	94	1	0	0.00	0
## 2490	1	143	1	0	0.00	4
## 2491	0	109	1	0	0.00	1
## 2492	0	138	1	0	0.28	2
## 2493	0	73	1	0	0.00	0
## 2494	1	21	1	0	0.00	5
## 2495	0	148	1	1	2.19	1
## 2496	0	103	1	0	0.00	1
## 2497	0	143	1	1	2.11	1
## 2498	0	79	1	1	1.13	2
## 2499	0	89	1	0	0.00	1
## 2500	0	120	1	0	0.00	1
## 2501	0	121	1	1	2.59	1
## 2502	0	101	1	0	0.00	0
## 2503	0	115	1	0	0.00	2
## 2504	0	168	1	0	0.37	2
## 2505	0	90	1	0	0.00	1
## 2506	0	70	1	0	0.30	3
## 2507	0	138	1	0	0.18	1
## 2508	0	43	1	0	0.00	0
## 2509	0	117	1	1	2.35	2
## 2510	0	108	1	0	0.00	2
## 2511	0	118	1	0	0.00	2
## 2512	0	169	1	0	0.00	3
## 2513	0	62	1	1	2.75	0
## 2514	0	86	1	0	0.17	2
## 2515	0	44	1	0	0.35	0
## 2516	1	111	1	0	0.00	5
## 2517	0	127	1	1	3.29	2
## 2518	0	151	0	0	0.26	0
## 2519	0	53	1	0	0.00	2
## 2520	0	15	1	0	0.00	2
## 2521	0	123	1	1	2.11	1
## 2522	0	137	1	0	0.00	1
## 2523	0	106	1	0	0.00	2
## 2524	0	88	1	0	0.26	3
## 2525	0	106	1	0	0.00	1
## 2526	0	95	1	0	0.13	0
## 2527	1	57	0	0	0.00	0
## 2528	0	184	1	0	0.21	2
## 2529	0	109	1	0	0.37	3
## 2530	0	127	1	0	0.27	2
## 2531	0	82	1	0	0.38	2
## 2532	0	180	1	0	0.40	1
## 2533	0	174	1	0	0.21	2
## 2534	1	92	1	0	0.00	2
## 2535	0	81	1	0	0.00	1
## 2536	1	125	1	0	0.32	2
## 2537	1	119	1	0	0.00	0
## 2538	0	122	1	0	0.00	3
## 2539	0	34	1	0	0.00	1

## 2540	1	138	0	1	2.89	3
## 2541	0	90	1	1	3.48	1
## 2542	0	73	1	0	0.22	2
## 2543	1	19	1	0	0.00	1
## 2544	0	120	1	1	1.86	1
## 2545	0	160	1	0	0.00	3
## 2546	0	141	1	0	0.00	0
## 2547	0	90	1	0	0.32	2
## 2548	0	72	1	0	0.31	2
## 2549	0	117	1	1	3.21	1
## 2550	0	79	0	0	0.31	2
## 2551	0	87	1	0	0.43	1
## 2552	0	102	1	0	0.00	1
## 2553	0	49	1	0	0.15	1
## 2554	0	67	1	0	0.34	6
## 2555	0	107	1	0	0.00	2
## 2556	0	190	1	0	0.17	2
## 2557	0	118	1	0	0.00	2
## 2558	0	120	1	0	0.21	0
## 2559	0	94	1	0	0.00	0
## 2560	0	115	1	1	3.11	1
## 2561	0	61	1	0	0.00	1
## 2562	0	143	1	1	2.08	1
## 2563	0	110	1	0	0.33	1
## 2564	0	104	1	0	0.24	1
## 2565	0	16	1	0	0.00	1
## 2566	0	183	1	0	0.00	0
## 2567	0	147	1	0	0.25	2
## 2568	1	58	1	0	0.00	2
## 2569	0	102	0	0	0.00	3
## 2570	0	123	1	0	0.00	3
## 2571	0	64	1	1	2.30	1
## 2572	0	103	1	0	0.00	2
## 2573	1	152	1	0	0.00	1
## 2574	1	124	1	0	0.00	1
## 2575	0	97	1	0	0.00	1
## 2576	1	131	1	0	0.00	1
## 2577	0	57	1	1	3.00	2
## 2578	0	157	1	0	0.00	2
## 2579	0	194	1	0	0.00	0
## 2580	0	66	1	0	0.00	1
## 2581	0	155	1	0	0.00	0
## 2582	1	123	1	0	0.00	4
## 2583	0	116	1	0	0.35	2
## 2584	0	63	1	0	0.00	1
## 2585	0	64	1	0	0.00	3
## 2586	0	96	1	0	0.00	3
## 2587	0	53	1	0	0.00	1
## 2588	0	105	1	0	0.17	3
## 2589	0	53	1	1	3.24	2
## 2590	0	101	1	0	0.00	1
## 2591	0	129	1	1	2.51	3
## 2592	1	122	1	0	0.00	1
## 2593	0	163	1	0	0.00	5

## 2594	0	93	1	0	0.00	0
## 2595	1	115	0	0	0.00	1
## 2596	1	25	1	0	0.00	1
## 2597	0	73	1	0	0.00	1
## 2598	0	120	1	0	0.00	2
## 2599	0	196	1	0	0.36	1
## 2600	1	97	1	0	0.00	0
## 2601	0	148	1	0	0.00	1
## 2602	0	85	1	1	3.11	1
## 2603	1	86	0	0	0.00	2
## 2604	0	78	1	1	1.73	2
## 2605	0	106	1	0	0.00	3
## 2606	0	147	1	1	3.81	2
## 2607	1	145	1	0	0.00	1
## 2608	0	91	1	0	0.00	3
## 2609	0	81	1	1	1.81	4
## 2610	0	116	1	1	2.89	1
## 2611	0	69	1	1	1.59	1
## 2612	0	135	1	0	0.00	0
## 2613	0	73	1	0	0.00	2
## 2614	0	48	1	0	0.00	1
## 2615	1	125	0	0	0.30	0
## 2616	0	100	1	0	0.00	1
## 2617	0	165	1	1	4.32	0
## 2618	0	64	1	0	0.00	2
## 2619	0	116	0	1	1.86	1
## 2620	1	147	0	1	3.00	3
## 2621	0	115	1	0	0.00	1
## 2622	0	84	1	1	2.03	4
## 2623	0	86	1	1	3.13	4
## 2624	0	134	1	0	0.00	2
## 2625	1	105	1	0	0.00	0
## 2626	0	88	1	0	0.00	2
## 2627	0	90	1	1	3.40	2
## 2628	0	86	1	0	0.00	1
## 2629	0	37	1	0	0.30	4
## 2630	1	141	1	1	1.81	1
## 2631	0	148	1	0	0.00	2
## 2632	0	163	1	1	3.35	2
## 2633	0	89	1	1	3.19	1
## 2634	0	63	1	0	0.19	0
## 2635	0	102	1	0	0.00	2
## 2636	0	76	1	0	0.21	1
## 2637	0	104	1	0	0.00	2
## 2638	0	109	1	0	0.00	3
## 2639	0	105	1	0	0.28	2
## 2640	0	63	1	1	3.29	1
## 2641	0	105	1	1	2.92	3
## 2642	0	68	0	1	3.05	1
## 2643	0	63	0	1	2.70	1
## 2644	0	74	1	0	0.00	3
## 2645	0	76	1	0	0.35	0
## 2646	1	91	0	0	0.00	2
## 2647	0	101	1	0	0.00	5

## 2648	1	116	1	0	0.00	0
## 2649	0	131	1	1	3.43	1
## 2650	0	84	1	0	0.00	1
## 2651	0	104	1	0	0.00	2
## 2652	0	108	1	0	0.21	3
## 2653	0	111	1	0	0.33	0
## 2654	0	155	1	1	3.35	1
## 2655	0	66	1	0	0.00	1
## 2656	0	64	1	0	0.40	1
## 2657	0	69	1	0	0.30	2
## 2658	0	116	1	0	0.00	3
## 2659	0	101	1	0	0.00	0
## 2660	0	15	1	0	0.00	2
## 2661	1	88	1	0	0.39	4
## 2662	0	197	1	0	0.00	0
## 2663	1	50	0	0	0.34	2
## 2664	0	172	1	0	0.00	2
## 2665	1	188	0	1	3.89	1
## 2666	0	85	0	0	0.00	3
## 2667	1	103	0	0	0.00	1
## 2668	0	136	1	1	2.70	3
## 2669	0	155	1	1	2.32	0
## 2670	0	145	1	0	0.00	2
## 2671	0	116	1	1	2.43	2
## 2672	0	152	1	0	0.00	2
## 2673	1	65	0	0	0.31	0
## 2674	1	180	1	0	0.00	3
## 2675	0	67	1	0	0.00	0
## 2676	0	60	1	0	0.00	0
## 2677	0	138	1	0	0.00	0
## 2678	1	44	1	0	0.34	4
## 2679	0	25	1	0	0.33	2
## 2680	0	145	1	0	0.00	1
## 2681	0	122	1	1	2.08	2
## 2682	1	121	1	0	0.21	0
## 2683	0	55	0	0	0.00	0
## 2684	0	77	1	0	0.00	1
## 2685	0	12	1	0	0.00	2
## 2686	0	64	1	0	0.31	3
## 2687	0	92	1	1	2.70	2
## 2688	1	125	0	1	4.59	1
## 2689	0	160	1	0	0.00	1
## 2690	0	79	1	0	0.00	0
## 2691	0	36	1	0	0.00	3
## 2692	0	102	1	0	0.00	2
## 2693	0	138	0	0	0.00	1
## 2694	0	164	1	0	0.00	3
## 2695	1	125	1	0	0.00	0
## 2696	0	72	1	0	0.28	2
## 2697	1	74	1	0	0.00	3
## 2698	0	134	1	1	3.21	0
## 2699	0	145	1	0	0.00	1
## 2700	0	136	1	0	0.00	0
## 2701	1	209	1	0	0.00	3

## 2702	0	66	0	0	0.28	3
## 2703	0	152	1	1	2.13	1
## 2704	0	162	1	0	0.00	1
## 2705	0	72	1	0	0.20	2
## 2706	0	101	1	0	0.37	4
## 2707	0	125	1	0	0.00	0
## 2708	0	46	1	0	0.00	2
## 2709	1	132	1	0	0.00	1
## 2710	0	193	1	1	3.16	0
## 2711	1	63	1	0	0.00	0
## 2712	0	124	1	0	0.00	1
## 2713	0	144	1	0	0.00	0
## 2714	0	116	1	1	1.62	2
## 2715	0	189	1	1	4.16	1
## 2716	0	97	1	1	1.65	1
## 2717	0	137	1	1	3.27	2
## 2718	0	142	1	1	1.16	0
## 2719	0	84	1	0	0.00	1
## 2720	0	119	1	1	2.70	1
## 2721	0	158	1	0	0.00	1
## 2722	0	50	1	0	0.29	1
## 2723	0	98	1	0	0.39	2
## 2724	0	101	1	1	3.51	2
## 2725	1	182	1	0	0.00	2
## 2726	0	51	1	0	0.00	0
## 2727	0	117	1	0	0.26	2
## 2728	0	92	0	0	0.00	0
## 2729	0	86	1	0	0.30	2
## 2730	0	122	1	0	0.00	2
## 2731	0	156	1	1	4.00	1
## 2732	1	127	1	0	0.00	0
## 2733	1	130	0	0	0.00	5
## 2734	0	158	1	0	0.00	2
## 2735	0	145	0	1	3.00	1
## 2736	1	90	0	1	3.59	0
## 2737	0	127	1	1	2.48	3
## 2738	0	109	1	0	0.00	1
## 2739	0	88	1	0	0.27	1
## 2740	0	101	1	1	2.92	0
## 2741	0	171	1	0	0.25	0
## 2742	0	21	1	0	0.00	1
## 2743	0	145	1	1	2.89	2
## 2744	0	90	1	0	0.28	2
## 2745	0	33	1	0	0.21	1
## 2746	1	61	1	1	2.75	2
## 2747	0	107	1	0	0.32	3
## 2748	1	147	1	0	0.00	0
## 2749	0	117	1	0	0.00	2
## 2750	0	95	1	0	0.00	1
## 2751	0	186	1	0	0.00	1
## 2752	0	128	1	0	0.00	0
## 2753	0	55	1	1	2.19	3
## 2754	0	134	1	0	0.00	2
## 2755	0	96	1	1	3.05	1

## 2756	0	107	1	0	0.35	0
## 2757	0	123	1	0	0.00	2
## 2758	0	35	1	0	0.00	2
## 2759	0	74	1	0	0.00	0
## 2760	0	130	1	0	0.23	1
## 2761	1	137	0	0	0.00	0
## 2762	0	88	1	0	0.31	1
## 2763	0	80	1	0	0.00	3
## 2764	0	116	1	1	2.21	3
## 2765	0	123	1	1	4.02	2
## 2766	0	120	1	0	0.00	1
## 2767	0	146	0	0	0.00	1
## 2768	0	106	1	1	2.21	3
## 2769	0	121	1	1	3.24	1
## 2770	0	137	1	0	0.23	1
## 2771	0	84	1	1	1.54	2
## 2772	0	67	1	1	3.56	1
## 2773	1	161	1	0	0.00	4
## 2774	1	134	1	1	1.65	2
## 2775	1	62	0	1	3.56	0
## 2776	0	120	1	1	2.43	1
## 2777	0	130	1	1	2.00	0
## 2778	0	20	1	0	0.00	2
## 2779	0	68	1	0	0.00	1
## 2780	0	112	1	0	0.00	0
## 2781	0	77	1	0	0.00	3
## 2782	0	109	1	0	0.00	2
## 2783	0	108	1	0	0.00	3
## 2784	0	79	1	1	2.46	1
## 2785	1	119	1	0	0.21	3
## 2786	1	38	1	0	0.42	5
## 2787	1	109	1	1	2.43	6
## 2788	0	78	1	0	0.00	1
## 2789	0	134	1	0	0.00	0
## 2790	0	47	1	1	2.08	2
## 2791	0	59	1	1	2.46	0
## 2792	0	151	1	0	0.00	0
## 2793	0	129	1	0	0.00	1
## 2794	0	107	1	1	3.89	2
## 2795	1	137	0	0	0.21	0
## 2796	0	76	1	0	0.38	1
## 2797	0	24	1	0	0.00	0
## 2798	0	169	1	0	0.00	2
## 2799	0	30	1	0	0.00	1
## 2800	0	70	1	0	0.00	3
## 2801	1	52	0	0	0.00	0
## 2802	0	3	1	0	0.00	4
## 2803	0	38	1	0	0.00	2
## 2804	0	104	1	0	0.00	3
## 2805	0	27	1	0	0.00	1
## 2806	0	166	0	1	3.08	1
## 2807	0	13	1	0	0.00	2
## 2808	0	52	1	0	0.00	2
## 2809	0	114	1	1	3.13	1

## 2810	0	156	1	0	0.42	1
## 2811	0	90	1	1	3.00	0
## 2812	0	62	1	0	0.00	2
## 2813	0	82	1	1	2.97	2
## 2814	0	52	1	0	0.00	3
## 2815	0	146	1	0	0.00	1
## 2816	0	120	1	1	1.94	2
## 2817	1	130	1	0	0.00	1
## 2818	0	90	1	0	0.24	1
## 2819	0	147	0	0	0.00	1
## 2820	1	159	1	0	0.00	0
## 2821	0	74	1	1	3.56	4
## 2822	0	130	1	0	0.32	0
## 2823	0	155	0	0	0.00	0
## 2824	0	87	1	0	0.00	2
## 2825	1	81	1	0	0.00	0
## 2826	0	99	1	0	0.00	2
## 2827	0	131	1	0	0.00	2
## 2828	1	89	1	0	0.00	5
## 2829	1	123	0	0	0.00	4
## 2830	0	130	1	1	3.40	1
## 2831	0	99	1	0	0.00	1
## 2832	0	36	1	0	0.00	1
## 2833	0	87	1	0	0.00	3
## 2834	0	139	1	0	0.00	2
## 2835	0	189	1	0	0.00	1
## 2836	0	96	1	1	2.81	3
## 2837	0	112	1	0	0.00	2
## 2838	0	75	1	0	0.00	1
## 2839	0	178	1	1	2.84	2
## 2840	1	112	1	0	0.28	2
## 2841	0	108	1	1	2.92	0
## 2842	0	100	1	0	0.00	0
## 2843	0	121	1	1	2.54	0
## 2844	0	116	1	0	0.16	1
## 2845	0	161	1	0	0.00	1
## 2846	0	19	0	0	0.00	0
## 2847	0	104	1	0	0.00	1
## 2848	0	119	0	1	3.29	0
## 2849	0	125	1	0	0.00	0
## 2850	0	156	1	0	0.00	1
## 2851	0	109	1	0	0.00	2
## 2852	0	95	1	0	0.00	2
## 2853	0	90	1	0	0.00	1
## 2854	0	105	1	1	2.35	2
## 2855	0	101	1	0	0.00	1
## 2856	0	95	1	0	0.00	1
## 2857	0	123	1	0	0.24	0
## 2858	0	160	1	0	0.17	1
## 2859	0	141	1	1	2.00	1
## 2860	0	87	1	0	0.00	0
## 2861	0	81	1	0	0.00	2
## 2862	0	75	1	1	3.54	4
## 2863	0	126	1	1	3.27	0

## 2864	0	28	1	0	0.00	3
## 2865	0	153	1	0	0.33	0
## 2866	1	97	1	1	2.32	2
## 2867	0	115	1	0	0.00	2
## 2868	0	95	1	0	0.00	1
## 2869	1	17	0	0	0.36	0
## 2870	0	105	1	1	2.40	1
## 2871	0	121	1	0	0.00	2
## 2872	0	125	1	0	0.00	2
## 2873	0	124	1	0	0.00	2
## 2874	0	35	1	0	0.00	2
## 2875	1	134	1	0	0.00	0
## 2876	0	123	1	1	1.78	3
## 2877	0	124	1	0	0.00	3
## 2878	0	133	1	0	0.00	2
## 2879	0	185	1	1	2.59	0
## 2880	0	1	1	1	2.70	1
## 2881	0	107	1	0	0.00	1
## 2882	0	91	1	1	1.67	1
## 2883	1	178	0	0	0.00	2
## 2884	0	123	1	0	0.20	1
## 2885	1	170	1	0	0.00	1
## 2886	0	135	1	0	0.00	1
## 2887	0	85	1	0	0.00	1
## 2888	0	134	1	1	3.00	2
## 2889	0	148	1	1	2.94	1
## 2890	1	93	1	0	0.24	1
## 2891	0	138	1	0	0.00	0
## 2892	0	159	1	0	0.00	0
## 2893	0	103	1	1	3.19	1
## 2894	0	150	1	1	1.94	0
## 2895	0	37	1	0	0.32	3
## 2896	0	33	0	0	0.00	0
## 2897	0	55	1	0	0.00	1
## 2898	0	134	1	1	4.48	0
## 2899	0	107	1	0	0.00	2
## 2900	0	80	1	1	1.03	1
## 2901	1	78	1	0	0.00	1
## 2902	1	85	1	1	2.51	4
## 2903	0	61	1	1	2.70	2
## 2904	0	97	1	1	1.81	5
## 2905	0	136	0	0	0.00	2
## 2906	0	135	1	0	0.32	3
## 2907	0	87	1	1	0.00	1
## 2908	0	165	1	0	0.00	0
## 2909	1	148	1	0	0.00	2
## 2910	0	99	1	0	0.00	2
## 2911	0	123	1	0	0.00	2
## 2912	0	127	0	0	0.30	1
## 2913	0	151	1	0	0.00	0
## 2914	0	185	1	0	0.19	1
## 2915	0	65	1	1	3.38	4
## 2916	0	58	1	0	0.00	4
## 2917	0	104	1	0	0.30	2

## 2918	0	44	1	0	0.00	0
## 2919	0	58	1	0	0.00	4
## 2920	0	108	1	0	0.00	0
## 2921	0	132	1	0	0.00	1
## 2922	0	80	1	0	0.35	2
## 2923	0	162	1	0	0.00	2
## 2924	0	110	1	0	0.00	2
## 2925	1	96	1	0	0.00	1
## 2926	1	168	1	0	0.00	2
## 2927	1	72	1	0	0.00	4
## 2928	0	125	1	1	2.75	1
## 2929	0	170	1	0	0.00	2
## 2930	0	71	1	0	0.32	3
## 2931	0	124	1	0	0.00	1
## 2932	0	68	1	0	0.00	2
## 2933	0	97	1	0	0.00	1
## 2934	0	98	0	0	0.00	1
## 2935	1	24	1	0	0.00	2
## 2936	0	136	1	0	0.16	0
## 2937	1	44	1	0	0.00	0
## 2938	0	96	1	1	3.62	0
## 2939	0	31	1	0	0.19	1
## 2940	0	72	1	0	0.00	0
## 2941	0	24	1	0	0.00	1
## 2942	0	112	1	1	3.11	4
## 2943	1	117	0	0	0.00	1
## 2944	0	137	1	1	2.11	0
## 2945	0	136	1	0	0.00	0
## 2946	0	95	1	0	0.00	0
## 2947	0	82	1	1	1.11	1
## 2948	1	145	1	0	0.00	1
## 2949	0	56	0	0	0.00	1
## 2950	0	155	0	0	0.00	2
## 2951	1	133	1	0	0.00	0
## 2952	0	53	1	0	0.00	2
## 2953	1	123	1	0	0.00	5
## 2954	0	136	1	0	0.00	7
## 2955	0	57	1	0	0.00	3
## 2956	0	62	1	0	0.00	1
## 2957	0	112	1	0	0.00	1
## 2958	0	55	1	1	1.97	1
## 2959	1	95	1	0	0.00	6
## 2960	0	125	1	0	0.00	1
## 2961	1	1	1	0	0.00	5
## 2962	1	98	1	1	2.16	6
## 2963	0	105	1	0	0.00	1
## 2964	0	113	1	1	3.13	0
## 2965	1	99	1	0	0.00	3
## 2966	0	103	1	0	0.00	1
## 2967	0	177	1	0	0.00	1
## 2968	0	149	1	1	2.75	0
## 2969	1	160	1	0	0.00	1
## 2970	0	116	1	0	0.00	2
## 2971	0	90	1	1	1.73	1

## 2972	1	148	0	0	0.21	0
## 2973	1	147	1	1	2.73	2
## 2974	0	95	1	0	0.00	0
## 2975	0	201	1	0	0.24	1
## 2976	0	80	1	0	0.00	0
## 2977	0	122	0	0	0.00	1
## 2978	0	132	1	0	0.00	0
## 2979	0	83	1	0	0.00	1
## 2980	1	99	1	0	0.12	7
## 2981	1	84	1	0	0.00	3
## 2982	0	46	1	0	0.30	1
## 2983	0	87	1	0	0.00	2
## 2984	0	150	1	0	0.00	1
## 2985	0	73	1	0	0.43	1
## 2986	0	7	1	0	0.00	3
## 2987	0	89	1	1	2.84	2
## 2988	1	131	0	0	0.34	3
## 2989	0	105	1	0	0.00	3
## 2990	1	108	0	0	0.38	2
## 2991	0	47	1	1	2.24	1
## 2992	0	101	0	0	0.00	1
## 2993	0	182	1	1	3.13	1
## 2994	0	161	1	0	0.00	1
## 2995	1	128	1	0	0.00	1
## 2996	0	69	1	1	3.56	2
## 2997	0	113	1	1	3.59	1
## 2998	0	87	1	1	2.11	0
## 2999	0	71	1	0	0.21	0
## 3000	0	76	1	0	0.00	1
## 3001	0	87	1	0	0.42	3
## 3002	0	117	1	0	0.39	1
## 3003	1	177	1	0	0.00	3
## 3004	0	95	1	0	0.00	1
## 3005	0	76	1	0	0.00	1
## 3006	0	66	1	0	0.00	2
## 3007	0	110	1	0	0.23	1
## 3008	0	204	1	0	0.00	3
## 3009	0	32	1	1	3.51	0
## 3010	0	133	1	1	1.81	5
## 3011	0	185	1	0	0.00	2
## 3012	0	103	1	1	2.86	1
## 3013	0	91	1	0	0.00	1
## 3014	0	131	1	0	0.00	2
## 3015	0	153	1	0	0.00	0
## 3016	0	132	1	1	1.92	2
## 3017	0	148	1	0	0.15	1
## 3018	0	141	1	0	0.00	5
## 3019	0	105	1	0	0.00	2
## 3020	1	169	1	0	0.25	3
## 3021	0	127	1	1	2.65	1
## 3022	0	57	1	0	0.00	0
## 3023	0	123	1	1	0.78	0
## 3024	1	103	1	1	3.75	4
## 3025	0	101	1	0	0.00	1

## 3026	0	123	1	1	4.21	2
## 3027	0	78	1	1	2.92	6
## 3028	0	101	1	1	2.54	4
## 3029	0	129	1	0	0.00	1
## 3030	0	67	1	1	2.48	0
## 3031	0	37	1	0	0.00	3
## 3032	0	64	0	0	0.26	3
## 3033	0	173	1	0	0.00	1
## 3034	0	135	1	0	0.33	1
## 3035	0	75	1	1	3.02	1
## 3036	1	88	1	0	0.00	4
## 3037	0	112	1	0	0.00	3
## 3038	0	113	1	0	0.00	0
## 3039	0	121	1	1	1.73	2
## 3040	0	70	1	0	0.00	1
## 3041	0	90	1	0	0.22	0
## 3042	0	39	1	0	0.00	0
## 3043	0	142	1	0	0.42	0
## 3044	0	176	1	0	0.32	1
## 3045	0	105	1	0	0.30	1
## 3046	1	57	1	0	0.00	2
## 3047	0	110	1	0	0.24	1
## 3048	0	88	1	0	0.00	2
## 3049	0	95	1	0	0.00	0
## 3050	0	147	1	0	0.00	3
## 3051	1	101	1	0	0.00	4
## 3052	0	115	1	0	0.00	1
## 3053	0	103	1	0	0.00	2
## 3054	0	82	1	0	0.00	0
## 3055	0	141	1	0	0.00	0
## 3056	0	149	1	0	0.00	2
## 3057	0	131	1	0	0.00	2
## 3058	0	119	1	0	0.00	1
## 3059	0	112	1	0	0.26	3
## 3060	0	116	1	1	3.19	2
## 3061	0	94	1	0	0.00	3
## 3062	0	90	1	0	0.22	2
## 3063	0	114	1	1	3.51	0
## 3064	0	63	1	1	3.29	1
## 3065	1	130	1	0	0.33	4
## 3066	0	122	1	1	2.27	3
## 3067	0	166	1	0	0.00	3
## 3068	0	62	1	0	0.00	0
## 3069	0	78	1	1	2.57	2
## 3070	0	148	1	1	2.67	1
## 3071	1	154	1	0	0.00	3
## 3072	0	110	1	1	1.70	1
## 3073	1	75	1	0	0.00	0
## 3074	0	84	1	1	2.00	2
## 3075	0	113	1	0	0.27	1
## 3076	0	181	1	1	1.70	2
## 3077	0	51	1	0	0.00	2
## 3078	0	102	1	1	3.86	0
## 3079	0	107	1	0	0.00	1

## 3080	1	88	1	0	0.00	5
## 3081	0	82	1	0	0.21	0
## 3082	0	204	1	0	0.00	6
## 3083	0	130	1	0	0.00	3
## 3084	0	174	1	0	0.00	0
## 3085	0	129	1	0	0.00	2
## 3086	0	190	0	0	0.00	3
## 3087	0	54	0	0	0.00	3
## 3088	0	78	1	0	0.00	0
## 3089	0	100	1	1	2.40	1
## 3090	0	70	1	1	2.54	3
## 3091	0	111	1	0	0.35	1
## 3092	0	117	1	0	0.00	1
## 3093	0	68	1	0	0.00	0
## 3094	1	27	1	0	0.36	2
## 3095	0	91	1	0	0.00	1
## 3096	0	181	1	1	2.86	1
## 3097	0	118	1	1	2.65	3
## 3098	0	112	1	0	0.00	2
## 3099	0	93	1	0	0.00	0
## 3100	0	102	1	0	0.00	0
## 3101	0	93	1	0	0.00	0
## 3102	0	107	1	1	2.21	1
## 3103	0	100	1	1	3.40	3
## 3104	0	115	1	0	0.00	2
## 3105	0	63	1	1	2.78	0
## 3106	0	57	1	0	0.00	0
## 3107	0	119	1	1	3.13	1
## 3108	0	73	1	0	0.41	1
## 3109	0	98	1	1	2.97	2
## 3110	0	139	0	0	0.00	0
## 3111	0	31	1	1	2.86	1
## 3112	0	129	1	1	3.08	1
## 3113	1	115	1	0	0.00	7
## 3114	1	108	1	0	0.27	2
## 3115	0	139	1	0	0.35	0
## 3116	0	102	1	0	0.00	4
## 3117	0	149	1	0	0.00	1
## 3118	0	113	1	0	0.00	2
## 3119	0	131	1	1	1.40	1
## 3120	0	83	1	0	0.00	0
## 3121	0	96	1	1	2.92	2
## 3122	0	98	1	0	0.00	1
## 3123	0	3	1	0	0.00	3
## 3124	0	77	1	1	3.05	0
## 3125	0	75	1	1	2.54	3
## 3126	1	40	1	0	0.00	4
## 3127	0	108	1	0	0.00	0
## 3128	1	100	1	0	0.00	4
## 3129	0	16	1	0	0.33	3
## 3130	0	115	1	1	1.51	2
## 3131	0	108	1	1	2.35	3
## 3132	0	107	1	0	0.21	5
## 3133	1	161	1	0	0.00	2

## 3134	0	147	1	0	0.26	2
## 3135	0	107	1	0	0.00	3
## 3136	0	120	1	0	0.26	1
## 3137	0	107	1	1	2.78	1
## 3138	0	58	1	0	0.00	3
## 3139	0	91	1	0	0.00	2
## 3140	0	13	1	0	0.00	2
## 3141	0	104	1	0	0.27	5
## 3142	0	93	1	1	2.89	1
## 3143	0	95	1	0	0.22	2
## 3144	0	104	1	0	0.34	3
## 3145	1	35	1	0	0.00	5
## 3146	0	62	1	0	0.00	3
## 3147	0	143	1	0	0.00	1
## 3148	0	62	1	0	0.00	4
## 3149	1	60	0	0	0.00	0
## 3150	0	41	1	0	0.00	1
## 3151	0	34	1	1	2.89	2
## 3152	1	56	1	0	0.25	0
## 3153	0	183	1	0	0.28	1
## 3154	0	94	1	0	0.00	2
## 3155	0	73	1	1	1.70	2
## 3156	0	123	1	0	0.00	2
## 3157	0	64	1	0	0.29	3
## 3158	1	127	0	0	0.00	4
## 3159	0	33	1	0	0.00	3
## 3160	0	27	1	0	0.00	1
## 3161	0	123	1	0	0.00	0
## 3162	0	148	1	0	0.00	2
## 3163	0	81	1	0	0.00	0
## 3164	0	122	1	1	1.86	2
## 3165	0	52	1	0	0.00	1
## 3166	0	91	1	1	2.46	1
## 3167	1	54	1	0	0.21	2
## 3168	0	152	1	0	0.00	1
## 3169	1	201	1	0	0.00	1
## 3170	1	78	1	0	0.40	4
## 3171	0	67	1	0	0.14	0
## 3172	0	100	1	0	0.00	1
## 3173	0	41	1	0	0.00	3
## 3174	0	133	1	0	0.00	3
## 3175	0	36	1	1	2.32	2
## 3176	0	51	1	1	2.24	0
## 3177	0	122	1	0	0.00	0
## 3178	0	84	1	1	3.46	1
## 3179	0	91	1	0	0.00	0
## 3180	0	110	1	0	0.34	1
## 3181	0	91	0	0	0.00	1
## 3182	0	121	1	0	0.00	5
## 3183	0	109	1	0	0.31	3
## 3184	0	95	1	0	0.00	2
## 3185	0	72	1	0	0.28	0
## 3186	0	73	1	0	0.31	0
## 3187	0	108	1	0	0.33	3

## 3188	0	58	1	1	1.46	1
## 3189	0	148	0	0	0.00	1
## 3190	1	76	0	0	0.00	0
## 3191	1	103	1	0	0.00	6
## 3192	1	87	1	0	0.00	0
## 3193	0	35	1	1	1.35	2
## 3194	0	88	1	0	0.00	1
## 3195	0	67	1	1	3.62	0
## 3196	0	77	1	1	2.62	2
## 3197	0	124	1	0	0.00	1
## 3198	0	30	1	0	0.00	0
## 3199	0	53	1	1	3.46	2
## 3200	0	152	1	0	0.23	1
## 3201	0	100	0	0	0.00	1
## 3202	0	59	1	1	2.38	1
## 3203	0	143	1	0	0.00	3
## 3204	0	142	1	1	1.73	1
## 3205	0	105	1	0	0.23	1
## 3206	1	111	1	0	0.00	1
## 3207	0	143	1	0	0.00	1
## 3208	0	93	1	1	3.16	0
## 3209	0	79	1	0	0.00	2
## 3210	1	68	0	1	3.83	3
## 3211	0	93	0	0	0.32	1
## 3212	0	103	1	0	0.38	2
## 3213	0	144	1	1	1.00	0
## 3214	0	93	1	0	0.19	1
## 3215	0	149	0	0	0.27	3
## 3216	0	23	1	1	2.54	1
## 3217	0	221	1	1	0.65	0
## 3218	0	164	1	1	3.56	1
## 3219	0	104	1	1	3.62	2
## 3220	0	150	1	1	2.38	2
## 3221	0	184	1	1	2.75	0
## 3222	0	88	1	0	0.31	1
## 3223	0	61	0	1	3.16	3
## 3224	0	110	1	0	0.00	2
## 3225	1	115	1	0	0.00	3
## 3226	0	33	1	0	0.00	2
## 3227	1	100	1	0	0.20	2
## 3228	0	209	1	0	0.00	0
## 3229	0	27	1	0	0.00	5
## 3230	0	117	1	0	0.22	1
## 3231	0	87	1	0	0.00	1
## 3232	0	129	1	1	1.78	1
## 3233	0	142	1	0	0.00	1
## 3234	0	112	1	0	0.00	0
## 3235	0	75	1	1	0.68	1
## 3236	0	97	1	1	1.32	3
## 3237	0	121	1	1	2.03	0
## 3238	0	142	0	0	0.00	1
## 3239	1	121	1	0	0.00	3
## 3240	0	87	1	1	2.75	2
## 3241	0	34	1	0	0.00	1

## 3242	1	177	0	0	0.00	1
## 3243	0	58	1	1	2.27	0
## 3244	1	113	0	0	0.00	5
## 3245	0	101	1	0	0.00	1
## 3246	0	89	1	0	0.00	3
## 3247	1	77	0	1	3.21	0
## 3248	1	146	1	0	0.00	4
## 3249	0	93	1	0	0.00	0
## 3250	0	160	1	0	0.00	0
## 3251	0	55	1	0	0.00	0
## 3252	0	88	1	0	0.00	2
## 3253	0	63	1	0	0.00	0
## 3254	0	127	1	1	2.43	1
## 3255	0	57	1	1	3.97	1
## 3256	1	138	0	0	0.00	2
## 3257	0	115	1	0	0.23	3
## 3258	0	171	1	0	0.31	2
## 3259	0	148	1	0	0.29	2
## 3260	0	127	1	0	0.35	1
## 3261	0	61	1	0	0.20	1
## 3262	0	131	1	0	0.00	1
## 3263	0	88	1	0	0.00	1
## 3264	0	130	1	0	0.26	2
## 3265	0	89	1	1	1.59	0
## 3266	1	82	1	0	0.00	3
## 3267	0	138	1	1	2.62	3
## 3268	0	115	1	0	0.00	1
## 3269	1	84	1	0	0.00	2
## 3270	0	117	0	0	0.00	1
## 3271	0	60	1	0	0.00	2
## 3272	0	62	1	0	0.00	2
## 3273	1	133	1	0	0.00	2
## 3274	0	131	1	0	0.28	3
## 3275	0	65	1	0	0.00	1
## 3276	0	120	1	1	0.00	1
## 3277	0	142	1	1	2.38	1
## 3278	0	134	1	0	0.00	2
## 3279	0	87	1	0	0.00	2
## 3280	0	139	1	1	2.24	2
## 3281	1	76	1	0	0.00	4
## 3282	0	100	1	0	0.00	1
## 3283	0	99	1	1	2.08	3
## 3284	0	99	1	0	0.00	3
## 3285	0	48	1	1	3.56	1
## 3286	0	57	1	0	0.00	0
## 3287	0	106	1	1	3.54	0
## 3288	1	170	1	1	2.94	4
## 3289	0	78	1	0	0.17	1
## 3290	0	39	1	0	0.00	1
## 3291	0	127	1	0	0.00	0
## 3292	1	119	0	1	3.75	1
## 3293	0	114	1	0	0.12	1
## 3294	0	95	1	0	0.00	0
## 3295	0	116	1	0	0.00	1

## 3296	0	110	1	0	0.00	1
## 3297	0	74	1	0	0.00	1
## 3298	0	148	1	1	3.05	1
## 3299	0	83	1	0	0.00	1
## 3300	0	73	1	0	0.00	2
## 3301	0	111	1	1	1.92	1
## 3302	1	84	1	0	0.00	0
## 3303	0	75	0	0	0.29	1
## 3304	0	114	1	1	3.11	2
## 3305	1	71	0	0	0.00	4
## 3306	0	58	1	1	3.11	2
## 3307	0	106	1	1	2.19	1
## 3308	0	172	1	0	0.00	4
## 3309	0	45	1	0	0.00	1
## 3310	0	100	0	0	0.00	4
## 3311	0	94	1	0	0.21	2
## 3312	0	128	1	0	0.00	2
## 3313	0	181	1	0	0.26	2
## 3314	0	127	1	0	0.00	1
## 3315	0	89	1	0	0.29	1
## 3316	0	149	1	1	1.76	0
## 3317	0	103	1	1	3.32	0
## 3318	0	163	0	0	0.00	1
## 3319	0	52	1	0	0.34	2
## 3320	0	89	1	0	0.25	3
## 3321	1	122	0	0	0.30	4
## 3322	0	60	1	0	0.00	3
## 3323	1	62	1	0	0.00	4
## 3324	1	117	1	0	0.39	5
## 3325	0	159	1	0	0.00	1
## 3326	0	78	1	0	0.23	2
## 3327	0	96	1	0	0.36	1
## 3328	0	79	1	0	0.00	2
## 3329	0	192	1	1	2.67	2
## 3330	0	68	1	0	0.34	3
## 3331	0	28	1	0	0.00	2
## 3332	0	184	0	0	0.00	2
## 3333	0	74	1	1	3.70	0

##	DayMins	DayCalls	MonthlyCharge	RoamMins
## 1	265.1	110	89.0	10.0
## 2	161.6	123	82.0	13.7
## 3	243.4	114	52.0	12.2
## 4	299.4	71	57.0	6.6
## 5	166.7	113	41.0	10.1
## 6	223.4	98	57.0	6.3
## 7	218.2	88	87.3	7.5
## 8	157.0	79	36.0	7.1
## 9	184.5	97	63.9	8.7
## 10	258.6	84	93.2	11.2
## 11	129.1	137	44.9	12.7
## 12	187.7	127	49.4	9.1
## 13	128.8	96	31.0	11.2
## 14	156.6	88	52.4	12.3
## 15	120.7	70	47.0	13.1

## 16	332.9	67	84.0	5.4
## 17	196.4	139	95.3	13.8
## 18	190.7	114	51.0	8.1
## 19	189.7	66	78.0	10.0
## 20	224.4	90	52.0	13.0
## 21	155.1	117	50.1	10.6
## 22	62.4	89	26.0	5.7
## 23	183.0	112	38.0	9.5
## 24	110.4	103	34.9	7.7
## 25	81.1	86	35.0	10.3
## 26	124.3	76	45.0	15.5
## 27	213.0	115	78.7	9.5
## 28	134.3	73	37.0	14.7
## 29	190.0	109	58.2	6.3
## 30	119.3	117	41.1	11.1
## 31	84.8	95	27.0	14.2
## 32	226.1	105	56.0	10.3
## 33	212.0	121	39.0	12.6
## 34	249.6	118	64.0	11.8
## 35	176.8	94	69.4	8.3
## 36	220.0	80	95.7	14.7
## 37	146.3	128	78.2	14.5
## 38	130.8	64	42.0	10.0
## 39	203.9	106	79.4	10.5
## 40	140.4	94	47.0	11.1
## 41	126.3	102	39.0	9.4
## 42	173.1	85	86.4	14.6
## 43	124.8	82	46.0	10.0
## 44	85.8	77	32.8	9.2
## 45	154.0	67	48.4	3.5
## 46	120.9	97	62.0	8.5
## 47	211.3	120	50.0	13.2
## 48	187.0	133	47.5	7.4
## 49	159.1	114	47.0	8.8
## 50	133.2	135	71.7	11.0
## 51	191.9	108	59.2	7.8
## 52	220.6	57	56.0	6.8
## 53	186.1	112	48.0	11.4
## 54	160.2	117	52.1	9.3
## 55	151.0	83	45.0	9.7
## 56	175.5	67	53.1	10.2
## 57	126.9	98	37.0	8.0
## 58	198.4	129	56.7	5.8
## 59	148.8	70	47.0	12.1
## 60	229.3	103	55.0	12.0
## 61	192.1	97	48.0	11.4
## 62	268.6	83	92.3	11.6
## 63	193.7	91	93.4	14.6
## 64	180.7	92	81.0	12.6
## 65	131.2	98	37.0	8.2
## 66	148.1	74	56.7	6.2
## 67	251.5	105	61.0	9.3
## 68	125.2	93	39.0	8.3
## 69	211.6	70	55.0	7.8

## 70	178.9	101	45.0	13.8
## 71	241.8	93	56.0	11.8
## 72	224.9	97	87.7	12.1
## 73	248.6	83	55.0	8.0
## 74	203.4	146	54.0	7.3
## 75	235.8	109	54.0	12.0
## 76	157.1	90	46.0	6.1
## 77	300.3	109	69.1	11.7
## 78	61.6	117	20.1	8.2
## 79	214.1	72	53.6	8.2
## 80	170.2	98	46.0	15.0
## 81	201.1	99	60.0	13.2
## 82	215.4	104	58.0	12.6
## 83	165.6	123	69.7	11.0
## 84	249.5	101	91.5	9.8
## 85	210.6	96	57.0	12.4
## 86	179.3	104	73.2	8.6
## 87	157.9	105	41.0	8.0
## 88	214.3	118	55.0	12.0
## 89	154.1	104	66.4	10.9
## 90	237.9	125	62.0	13.9
## 91	143.9	61	43.7	11.1
## 92	203.4	100	51.0	8.9
## 93	124.3	100	36.0	7.9
## 94	252.9	93	59.0	9.5
## 95	179.1	71	47.0	10.6
## 96	278.4	106	58.0	9.8
## 97	160.1	110	46.0	13.0
## 98	198.2	87	52.0	8.7
## 99	212.1	131	54.0	5.3
## 100	251.8	72	61.0	9.8
## 101	161.2	114	60.9	4.4
## 102	178.3	137	50.4	14.6
## 103	151.7	82	36.0	10.5
## 104	135.0	99	39.0	12.5
## 105	170.5	94	47.9	11.3
## 106	238.1	65	57.0	11.8
## 107	281.4	102	90.3	9.0
## 108	117.9	131	61.5	9.8
## 109	148.6	91	64.3	10.1
## 110	229.8	90	52.0	9.6
## 111	165.0	100	56.0	8.3
## 112	185.0	117	51.0	12.6
## 113	161.0	117	44.0	12.1
## 114	126.7	108	40.0	13.3
## 115	58.9	125	25.0	9.4
## 116	196.8	89	110.0	20.0
## 117	162.6	83	43.9	14.2
## 118	282.5	114	69.1	9.4
## 119	113.7	117	60.0	10.0
## 120	239.8	125	60.0	8.7
## 121	210.2	92	58.1	13.1
## 122	213.8	102	68.4	7.2
## 123	190.7	103	49.0	9.8

## 124	170.9	124	41.0	11.6
## 125	154.2	119	36.0	9.2
## 126	201.4	52	58.0	12.0
## 127	70.7	108	26.0	9.1
## 128	187.5	124	62.3	6.4
## 129	91.7	90	33.0	9.2
## 130	214.2	115	76.7	9.5
## 131	145.5	92	44.0	10.9
## 132	166.3	125	42.0	6.1
## 133	231.0	115	59.0	9.5
## 134	200.3	96	52.0	7.1
## 135	197.0	109	51.0	9.1
## 136	129.9	112	40.1	11.2
## 137	175.8	97	63.3	5.3
## 138	203.1	106	53.0	12.0
## 139	183.2	117	72.2	11.2
## 140	205.0	101	75.5	10.2
## 141	148.5	115	49.0	12.4
## 142	200.3	68	81.4	10.5
## 143	192.6	107	68.4	6.8
## 144	246.5	47	59.0	11.7
## 145	167.1	86	44.0	14.1
## 146	231.9	101	54.0	14.3
## 147	146.7	91	43.0	13.7
## 148	271.5	87	67.6	11.7
## 149	181.5	121	50.0	8.5
## 150	257.7	97	88.0	11.1
## 151	193.8	99	52.0	10.6
## 152	102.8	119	36.0	10.1
## 153	187.9	116	46.0	7.5
## 154	226.0	112	60.0	6.9
## 155	260.4	115	57.0	11.5
## 156	178.7	116	56.0	9.8
## 157	337.4	120	77.0	15.8
## 158	157.6	129	85.0	13.7
## 159	183.6	117	54.0	10.2
## 160	142.1	124	65.9	9.6
## 161	136.3	97	41.1	7.1
## 162	217.1	110	58.0	12.0
## 163	187.5	99	81.4	10.5
## 164	98.9	103	29.0	12.2
## 165	206.3	151	48.0	6.1
## 166	243.1	92	92.7	12.1
## 167	189.8	126	67.3	7.5
## 168	202.0	102	59.9	10.9
## 169	170.1	124	80.6	12.8
## 170	230.9	87	56.0	6.3
## 171	237.1	105	60.0	13.2
## 172	182.1	91	74.6	10.6
## 173	119.3	87	40.4	10.5
## 174	116.8	87	36.0	14.1
## 175	219.2	92	50.0	6.1
## 176	252.6	104	58.0	11.1
## 177	147.1	91	42.0	12.2

## 178	202.1	103	54.0	11.5
## 179	173.5	93	48.3	16.2
## 180	232.1	122	65.0	0.0
## 181	197.1	125	77.7	9.5
## 182	58.2	94	22.0	11.9
## 183	115.6	111	66.7	9.9
## 184	186.1	98	55.4	14.6
## 185	259.9	68	66.0	8.4
## 186	214.3	145	60.0	10.8
## 187	158.7	74	33.0	10.2
## 188	271.6	71	67.9	10.9
## 189	160.6	111	44.7	9.0
## 190	232.4	109	56.0	9.1
## 191	133.8	85	39.0	8.9
## 192	176.9	109	41.5	9.5
## 193	209.9	74	53.0	8.8
## 194	137.5	118	43.2	13.4
## 195	289.5	52	89.7	9.5
## 196	198.1	86	67.4	6.8
## 197	149.7	119	41.0	9.7
## 198	326.5	67	74.3	10.7
## 199	292.9	101	104.3	13.8
## 200	83.0	64	30.0	13.0
## 201	145.7	146	79.4	13.1
## 202	182.3	101	59.0	11.2
## 203	218.0	86	53.0	6.4
## 204	140.6	109	40.0	6.8
## 205	152.7	105	48.0	9.4
## 206	106.7	76	68.7	12.1
## 207	243.8	98	49.0	13.7
## 208	194.4	94	49.0	10.8
## 209	213.9	95	50.0	12.2
## 210	217.2	112	58.0	15.8
## 211	241.1	72	55.0	11.6
## 212	203.5	100	56.0	11.9
## 213	155.2	131	76.9	10.7
## 214	167.6	139	71.9	12.2
## 215	226.7	98	58.0	17.6
## 216	179.3	93	46.0	11.5
## 217	151.4	89	45.1	10.9
## 218	180.0	80	50.0	4.7
## 219	250.2	121	66.0	13.0
## 220	223.0	121	52.0	7.1
## 221	183.6	116	45.0	12.2
## 222	166.0	114	71.5	10.2
## 223	136.1	112	47.0	4.4
## 224	149.3	113	49.2	8.9
## 225	65.4	97	26.0	13.8
## 226	213.4	111	57.0	2.7
## 227	206.9	85	56.0	7.7
## 228	186.2	78	73.9	9.6
## 229	280.2	136	102.9	13.3
## 230	196.6	84	93.1	11.9
## 231	312.0	109	65.0	10.5

## 232	199.0	110	88.7	11.0
## 233	203.1	96	55.5	13.5
## 234	168.8	97	48.0	10.9
## 235	173.1	140	50.0	9.0
## 236	134.4	106	41.0	10.2
## 237	202.6	103	69.3	9.0
## 238	74.5	117	33.1	9.8
## 239	83.6	148	28.1	10.7
## 240	192.2	86	47.0	9.4
## 241	220.2	89	45.0	12.9
## 242	135.1	95	35.0	12.3
## 243	253.4	77	61.5	8.4
## 244	225.0	81	54.0	7.1
## 245	198.5	99	57.0	9.4
## 246	110.3	107	33.0	9.5
## 247	60.0	102	49.0	11.1
## 248	214.8	94	50.0	10.2
## 249	181.8	85	49.0	9.2
## 250	154.0	114	81.9	11.8
## 251	157.4	99	74.5	13.9
## 252	207.9	91	50.0	14.4
## 253	207.0	90	55.0	9.1
## 254	119.0	101	65.7	9.5
## 255	143.7	117	50.8	10.9
## 256	165.9	126	85.1	14.1
## 257	138.6	122	39.0	9.8
## 258	84.7	118	38.9	14.5
## 259	62.6	111	26.0	10.4
## 260	155.2	79	47.0	8.7
## 261	164.9	110	64.1	6.7
## 262	134.5	88	36.0	15.4
## 263	143.3	103	43.0	11.5
## 264	168.3	110	53.1	12.5
## 265	262.4	55	62.0	8.3
## 266	206.2	79	88.8	11.4
## 267	225.8	94	77.7	8.4
## 268	138.3	89	38.0	13.5
## 269	94.4	104	40.2	4.5
## 270	160.0	123	43.0	9.9
## 271	206.6	105	55.0	14.6
## 272	134.7	121	39.0	7.7
## 273	214.4	78	78.6	8.0
## 274	192.8	104	53.0	13.0
## 275	151.1	90	70.0	10.0
## 276	221.4	103	58.0	9.8
## 277	218.9	88	55.0	11.1
## 278	189.8	96	60.6	6.5
## 279	192.7	85	81.4	10.9
## 280	204.4	135	54.0	10.5
## 281	172.3	97	49.2	13.0
## 282	198.4	93	53.3	10.4
## 283	211.7	115	82.9	12.2
## 284	221.6	74	87.3	9.0
## 285	197.9	108	50.0	6.7

## 286	147.5	90	83.1	15.6
## 287	206.4	122	46.0	8.8
## 288	205.9	88	55.7	14.5
## 289	207.6	88	47.0	14.1
## 290	303.9	95	74.0	5.3
## 291	230.6	121	79.6	8.0
## 292	99.5	110	28.0	9.7
## 293	177.1	112	47.0	5.9
## 294	172.7	93	67.8	10.3
## 295	172.7	86	67.5	9.8
## 296	204.2	115	52.9	9.5
## 297	85.7	83	38.0	10.1
## 298	157.6	117	46.4	11.9
## 299	215.5	129	56.0	6.6
## 300	181.5	98	48.0	6.6
## 301	171.7	80	39.0	11.9
## 302	266.6	106	70.6	5.9
## 303	170.4	108	59.0	11.2
## 304	158.0	106	52.0	9.1
## 305	92.0	117	41.4	10.3
## 306	234.0	109	61.0	9.1
## 307	272.1	111	70.0	8.5
## 308	296.4	99	69.0	11.4
## 309	194.4	101	52.9	11.4
## 310	227.2	128	61.0	8.9
## 311	248.7	109	61.0	13.2
## 312	236.3	102	83.2	9.7
## 313	205.6	69	50.0	10.9
## 314	94.1	136	40.0	9.8
## 315	125.2	99	39.0	18.9
## 316	60.4	158	39.3	12.4
## 317	121.0	105	64.8	7.7
## 318	117.8	66	62.5	7.6
## 319	232.4	96	71.5	5.0
## 320	223.5	81	80.4	9.4
## 321	176.3	79	52.0	6.2
## 322	125.2	79	71.8	12.9
## 323	138.7	107	46.0	10.0
## 324	86.3	134	36.0	11.3
## 325	207.0	91	49.0	13.4
## 326	58.8	104	48.2	7.1
## 327	68.7	95	60.8	11.4
## 328	239.2	109	86.7	9.5
## 329	198.3	130	53.0	12.5
## 330	205.2	97	57.4	14.4
## 331	192.1	98	62.4	7.9
## 332	272.6	83	68.0	9.5
## 333	128.3	121	42.0	12.2
## 334	169.6	99	52.0	9.3
## 335	201.3	95	48.0	7.5
## 336	214.7	97	72.2	8.6
## 337	169.2	70	52.0	10.6
## 338	194.1	121	49.0	7.0
## 339	233.8	104	63.0	7.6

## 340	225.1	67	56.0	14.6
## 341	213.0	63	52.0	9.1
## 342	183.9	115	54.0	10.8
## 343	221.8	105	89.8	14.0
## 344	64.6	98	26.0	0.0
## 345	154.6	92	69.9	13.3
## 346	260.2	131	60.0	7.2
## 347	161.6	117	70.9	12.2
## 348	220.6	117	51.0	10.5
## 349	155.9	122	76.4	13.1
## 350	107.0	63	31.4	12.8
## 351	182.5	104	54.1	11.3
## 352	220.1	78	85.3	10.1
## 353	152.2	112	41.0	5.3
## 354	181.5	95	49.0	14.7
## 355	236.2	77	60.8	13.2
## 356	166.1	105	37.8	12.7
## 357	244.6	89	58.0	11.3
## 358	134.2	85	66.0	8.5
## 359	149.7	122	68.8	9.2
## 360	150.1	109	64.7	5.8
## 361	257.1	53	75.4	8.8
## 362	124.4	83	37.0	11.3
## 363	141.7	121	76.4	12.0
## 364	230.0	87	49.4	11.3
## 365	162.3	88	46.0	10.9
## 366	350.8	75	79.0	10.1
## 367	193.3	96	56.0	9.1
## 368	78.2	127	35.0	18.0
## 369	83.4	110	36.2	7.6
## 370	195.6	99	59.8	16.0
## 371	201.8	81	58.2	10.3
## 372	197.0	110	53.0	10.6
## 373	218.0	57	49.9	12.4
## 374	164.8	98	48.0	14.8
## 375	179.2	77	49.0	9.2
## 376	214.0	113	80.6	10.6
## 377	170.5	87	44.3	11.2
## 378	205.7	123	54.0	6.7
## 379	165.5	84	53.0	11.5
## 380	221.0	100	55.3	6.8
## 381	242.1	118	58.0	14.7
## 382	151.6	107	39.0	14.7
## 383	176.2	87	44.8	5.7
## 384	196.0	82	71.0	3.7
## 385	159.5	125	49.0	7.2
## 386	230.2	113	62.5	10.7
## 387	146.7	64	49.0	8.9
## 388	210.5	102	54.0	8.5
## 389	102.0	95	41.0	10.7
## 390	126.0	99	45.6	10.2
## 391	168.4	125	50.0	11.1
## 392	105.6	129	40.0	8.7
## 393	206.5	92	51.0	12.4

## 394	217.1	76	57.7	9.4
## 395	229.6	78	57.0	10.8
## 396	278.3	89	82.2	9.7
## 397	138.6	102	41.0	7.8
## 398	234.4	103	65.8	2.0
## 399	181.5	129	42.0	8.5
## 400	167.3	91	48.0	10.6
## 401	121.0	105	72.4	12.0
## 402	221.1	124	48.0	10.6
## 403	145.8	108	68.7	9.9
## 404	222.8	122	55.4	11.2
## 405	183.4	80	52.0	7.5
## 406	264.3	91	59.0	9.3
## 407	146.0	78	35.0	6.8
## 408	157.1	134	45.9	8.5
## 409	127.3	108	43.0	10.3
## 410	187.9	110	49.0	4.8
## 411	178.8	90	45.6	8.4
## 412	97.2	80	35.8	10.4
## 413	259.8	85	67.0	5.4
## 414	256.5	112	61.0	7.0
## 415	169.5	77	40.0	10.0
## 416	239.7	47	65.0	8.7
## 417	171.5	99	45.6	5.0
## 418	239.9	84	56.0	9.8
## 419	142.3	73	84.2	16.0
## 420	184.1	98	60.0	7.5
## 421	206.9	126	83.1	9.3
## 422	259.9	114	60.0	15.3
## 423	203.8	122	59.0	12.5
## 424	248.8	124	82.8	10.3
## 425	221.6	110	79.5	11.3
## 426	192.9	131	52.9	10.9
## 427	122.4	129	31.0	12.5
## 428	104.9	65	62.9	9.6
## 429	173.2	91	47.0	11.2
## 430	119.4	69	44.0	12.4
## 431	250.3	100	65.0	13.3
## 432	178.3	98	58.9	11.4
## 433	243.4	77	57.0	12.8
## 434	155.0	106	42.0	11.8
## 435	288.7	101	90.2	8.6
## 436	240.4	80	81.2	11.2
## 437	190.3	123	58.0	8.0
## 438	278.0	76	66.2	8.3
## 439	155.0	93	55.0	13.5
## 440	153.5	99	43.0	6.3
## 441	273.4	141	93.2	12.3
## 442	155.3	93	49.0	12.4
## 443	133.1	114	60.4	6.8
## 444	246.8	129	58.0	12.6
## 445	165.4	107	45.0	9.6
## 446	59.5	103	35.1	11.1
## 447	138.3	116	44.0	9.6

## 448	286.7	100	61.0	6.9
## 449	117.3	114	41.4	12.2
## 450	264.3	79	80.0	6.3
## 451	127.9	107	47.5	12.5
## 452	225.5	107	86.5	9.8
## 453	149.0	115	47.0	8.3
## 454	198.9	77	96.6	14.3
## 455	256.4	125	67.0	11.1
## 456	264.8	124	66.0	14.8
## 457	98.2	88	33.0	9.3
## 458	159.8	99	51.6	9.7
## 459	190.6	86	68.2	6.0
## 460	184.0	120	42.0	11.0
## 461	261.8	128	64.0	9.6
## 462	147.9	109	45.0	9.6
## 463	106.4	109	55.3	10.1
## 464	133.7	75	40.0	5.9
## 465	193.5	85	75.0	8.5
## 466	178.2	113	45.0	13.6
## 467	226.2	103	82.4	10.5
## 468	170.4	103	49.8	11.6
## 469	70.9	163	57.0	11.1
## 470	194.4	63	101.4	17.2
## 471	240.3	146	55.0	10.6
## 472	75.0	116	34.0	9.5
## 473	69.1	117	24.0	6.3
## 474	96.6	59	60.7	6.2
## 475	214.6	101	97.0	14.8
## 476	148.5	111	38.0	9.9
## 477	258.1	106	60.9	11.7
## 478	149.7	112	60.5	7.6
## 479	149.8	134	40.0	8.1
## 480	190.4	102	46.0	11.2
## 481	181.4	108	55.1	11.6
## 482	151.1	123	42.0	5.3
## 483	155.7	116	42.0	8.1
## 484	149.9	95	48.0	13.3
## 485	222.3	132	58.0	11.0
## 486	149.4	111	55.1	6.7
## 487	233.8	103	59.0	12.8
## 488	204.2	100	60.0	10.5
## 489	242.9	126	60.0	0.0
## 490	150.4	119	46.0	12.3
## 491	208.9	119	57.0	12.8
## 492	191.9	91	58.2	14.3
## 493	130.7	113	47.1	9.4
## 494	119.6	104	60.9	5.9
## 495	273.6	93	57.0	8.2
## 496	156.1	114	42.0	11.1
## 497	178.7	134	67.6	8.0
## 498	177.5	93	55.0	11.9
## 499	211.3	61	45.0	9.7
## 500	175.2	91	51.0	7.5
## 501	114.3	102	70.0	12.6

## 502	251.4	104	82.3	7.5
## 503	216.9	61	55.0	17.5
## 504	217.2	138	75.1	9.3
## 505	206.3	97	49.0	12.4
## 506	159.3	66	39.9	11.1
## 507	143.1	88	75.8	11.4
## 508	154.0	122	55.0	5.6
## 509	186.6	69	82.3	11.6
## 510	170.8	114	71.9	9.6
## 511	124.0	102	72.2	12.3
## 512	198.3	94	58.0	14.8
## 513	172.8	101	47.0	9.1
## 514	217.4	74	73.8	6.6
## 515	265.9	113	101.8	14.0
## 516	93.6	137	80.3	17.5
## 517	98.2	100	43.0	7.6
## 518	214.7	68	53.5	9.4
## 519	168.2	92	48.0	12.9
## 520	202.9	97	50.1	9.0
## 521	261.4	108	58.0	11.6
## 522	73.3	86	27.0	8.2
## 523	253.7	84	87.8	9.2
## 524	45.0	108	21.0	9.8
## 525	231.3	105	57.8	13.0
## 526	47.4	125	25.5	10.5
## 527	227.4	88	55.0	12.5
## 528	40.9	126	51.1	11.9
## 529	124.8	133	35.0	8.6
## 530	68.5	110	42.9	12.1
## 531	163.5	77	67.1	7.8
## 532	163.0	112	47.0	6.7
## 533	213.7	61	86.9	10.7
## 534	201.3	117	52.6	5.4
## 535	310.4	97	61.2	9.2
## 536	48.4	101	33.0	18.2
## 537	171.2	88	79.8	14.0
## 538	166.5	93	67.0	8.5
## 539	216.6	126	54.0	12.4
## 540	107.8	113	37.0	9.9
## 541	141.3	94	60.1	7.8
## 542	209.9	77	67.8	6.6
## 543	237.5	120	100.3	14.2
## 544	234.5	109	59.0	3.5
## 545	103.1	90	71.9	12.2
## 546	129.5	106	76.1	11.9
## 547	279.8	90	69.0	8.4
## 548	136.8	91	68.8	10.3
## 549	100.1	54	53.9	5.9
## 550	237.1	63	85.3	10.1
## 551	172.8	58	45.0	7.9
## 552	224.5	111	56.0	11.5
## 553	288.1	112	73.1	10.2
## 554	78.2	103	30.0	10.1
## 555	148.7	80	48.0	12.7

## 556	194.6	84	79.4	13.1
## 557	159.5	77	53.0	12.0
## 558	194.5	110	77.7	9.5
## 559	174.1	96	51.0	8.3
## 560	131.8	97	38.9	7.7
## 561	160.6	103	48.0	10.7
## 562	146.8	107	71.4	7.2
## 563	200.7	88	81.6	9.1
## 564	145.6	106	37.3	10.9
## 565	229.4	104	82.6	8.0
## 566	211.0	76	52.0	4.7
## 567	121.5	97	74.5	11.3
## 568	216.0	73	53.0	3.6
## 569	293.0	88	64.0	10.0
## 570	221.1	137	102.6	15.4
## 571	181.5	108	48.0	10.3
## 572	74.3	107	67.2	14.5
## 573	62.3	92	34.0	10.8
## 574	228.6	88	84.3	9.0
## 575	228.1	121	66.3	9.9
## 576	309.9	90	108.3	14.2
## 577	201.9	74	55.6	13.7
## 578	149.8	112	43.9	11.7
## 579	183.8	76	71.8	7.7
## 580	186.7	108	105.6	16.5
## 581	209.4	151	66.0	7.4
## 582	223.2	77	81.5	10.2
## 583	164.2	109	42.0	10.7
## 584	150.5	75	43.3	10.3
## 585	234.2	128	65.0	9.8
## 586	55.3	102	24.0	10.2
## 587	221.8	97	56.0	8.4
## 588	169.6	85	38.0	7.4
## 589	89.7	118	38.0	13.5
## 590	80.2	81	56.2	8.6
## 591	218.9	105	67.2	11.3
## 592	125.7	96	40.0	12.9
## 593	176.3	85	41.1	9.6
## 594	207.2	111	82.7	9.5
## 595	205.7	138	49.0	12.5
## 596	151.4	95	39.0	0.0
## 597	157.5	70	38.0	9.6
## 598	160.4	68	36.0	9.1
## 599	159.0	80	42.0	12.3
## 600	214.1	62	78.8	9.2
## 601	102.6	89	39.0	9.1
## 602	159.7	86	44.0	13.9
## 603	202.8	109	51.7	4.6
## 604	57.5	95	33.0	11.6
## 605	169.9	144	49.0	11.4
## 606	335.5	77	76.0	12.7
## 607	139.5	119	49.0	13.1
## 608	142.3	107	52.8	6.6
## 609	187.8	94	54.0	10.6

## 610	146.2	55	48.0	8.7
## 611	231.8	120	53.0	11.6
## 612	193.7	83	47.0	12.7
## 613	156.4	108	49.4	7.7
## 614	220.7	82	92.6	13.2
## 615	239.8	110	79.7	7.3
## 616	172.0	111	68.6	8.0
## 617	128.2	138	69.8	8.8
## 618	130.2	119	47.0	14.0
## 619	195.4	107	47.0	11.6
## 620	293.3	79	66.0	14.5
## 621	191.3	89	49.0	12.8
## 622	122.4	88	34.0	11.5
## 623	209.6	68	77.6	10.6
## 624	215.7	140	50.0	7.1
## 625	161.4	110	47.0	5.1
## 626	144.2	91	46.7	13.8
## 627	220.2	109	65.1	4.1
## 628	256.2	105	58.0	7.4
## 629	112.7	119	38.0	6.5
## 630	299.5	125	71.0	13.7
## 631	194.8	107	48.0	13.9
## 632	100.8	112	37.0	9.5
## 633	82.5	97	52.0	4.8
## 634	146.4	104	75.1	15.6
## 635	177.9	129	50.0	10.8
## 636	153.5	84	70.5	10.2
## 637	150.7	105	43.0	9.2
## 638	180.1	106	62.3	7.5
## 639	265.3	94	92.8	12.9
## 640	128.6	83	34.0	11.4
## 641	161.5	92	43.0	7.9
## 642	165.3	120	45.0	9.8
## 643	195.0	92	52.0	11.0
## 644	213.8	79	59.0	15.6
## 645	205.5	114	91.8	14.0
## 646	252.9	112	82.0	8.5
## 647	235.6	74	101.6	15.4
## 648	192.0	91	44.0	7.5
## 649	69.1	122	45.6	9.1
## 650	261.7	97	63.0	6.0
## 651	235.5	81	62.0	11.5
## 652	213.4	100	57.8	9.5
## 653	206.9	143	71.8	9.2
## 654	263.8	65	77.0	8.5
## 655	183.4	126	76.4	10.5
## 656	157.6	85	44.0	9.4
## 657	175.6	147	44.0	9.3
## 658	242.5	101	50.0	9.3
## 659	151.0	102	37.0	9.9
## 660	138.1	103	40.9	8.3
## 661	264.7	69	71.0	9.5
## 662	282.3	70	93.4	12.0
## 663	211.2	80	60.7	12.3

## 664	197.1	126	45.0	7.4
## 665	205.3	95	50.0	7.8
## 666	181.8	110	75.8	9.2
## 667	252.0	120	56.0	9.6
## 668	193.8	102	44.0	9.2
## 669	231.2	135	56.0	12.3
## 670	200.1	108	92.9	15.5
## 671	266.7	109	110.0	16.3
## 672	118.1	117	71.1	11.9
## 673	175.3	106	47.3	11.8
## 674	125.1	99	46.5	11.2
## 675	176.8	90	53.9	7.5
## 676	241.9	101	53.0	5.9
## 677	241.2	134	51.0	10.6
## 678	217.1	99	57.0	9.4
## 679	195.4	110	52.3	8.9
## 680	222.4	78	66.0	8.7
## 681	189.5	90	49.0	13.1
## 682	123.1	100	35.0	9.3
## 683	256.7	98	87.8	11.4
## 684	159.1	94	48.0	6.5
## 685	100.1	90	39.4	11.1
## 686	30.9	113	45.2	8.6
## 687	223.2	76	57.0	10.1
## 688	187.4	101	49.0	12.6
## 689	315.6	105	104.7	12.1
## 690	277.5	104	59.0	8.2
## 691	189.8	111	50.0	14.9
## 692	147.2	119	42.0	10.2
## 693	185.8	36	56.0	5.7
## 694	155.4	110	64.6	8.0
## 695	154.2	91	50.0	10.9
## 696	97.6	98	26.0	11.6
## 697	178.8	94	49.3	7.5
## 698	149.3	104	49.0	9.1
## 699	206.0	89	51.0	8.4
## 700	216.8	86	54.0	11.0
## 701	103.3	110	29.0	10.7
## 702	139.4	95	39.5	7.7
## 703	191.2	110	47.0	14.1
## 704	160.0	104	72.1	10.4
## 705	221.7	95	58.2	6.5
## 706	62.9	81	31.0	8.5
## 707	215.6	78	54.0	3.6
## 708	165.3	97	68.5	7.6
## 709	94.7	111	58.6	10.6
## 710	203.2	81	48.0	9.7
## 711	195.3	70	54.9	12.5
## 712	143.7	114	50.0	11.4
## 713	114.4	104	30.1	0.0
## 714	222.8	101	56.0	6.9
## 715	175.9	70	67.7	7.3
## 716	249.9	95	64.0	15.3
## 717	234.5	130	87.8	11.4

## 718	210.7	116	55.0	7.2
## 719	182.3	124	46.0	9.3
## 720	190.3	88	49.0	11.7
## 721	177.1	88	65.0	7.4
## 722	87.2	92	59.4	10.9
## 723	215.6	96	54.0	13.5
## 724	137.4	109	44.0	14.0
## 725	192.8	103	92.3	16.4
## 726	149.3	100	45.0	11.9
## 727	143.7	116	39.0	7.8
## 728	224.8	111	55.0	9.2
## 729	261.2	122	97.3	12.7
## 730	196.5	98	85.2	13.4
## 731	271.2	105	64.0	11.5
## 732	207.2	121	61.0	8.0
## 733	300.4	94	63.0	7.2
## 734	229.6	123	76.7	9.5
## 735	187.5	110	79.7	12.1
## 736	57.1	98	27.0	6.5
## 737	162.1	86	41.0	11.0
## 738	145.0	89	40.0	16.7
## 739	159.5	123	48.0	11.4
## 740	190.7	72	51.0	8.8
## 741	230.6	40	81.4	9.4
## 742	34.0	133	30.0	11.5
## 743	193.4	112	84.8	11.4
## 744	202.0	126	49.0	10.4
## 745	191.7	122	54.0	9.1
## 746	161.3	97	66.8	6.6
## 747	150.6	85	39.0	6.4
## 748	184.6	102	52.4	7.8
## 749	220.7	120	61.0	8.7
## 750	167.3	119	46.0	11.0
## 751	154.0	80	64.1	8.2
## 752	121.1	116	64.3	10.1
## 753	182.1	94	79.3	12.7
## 754	109.6	88	31.0	11.0
## 755	209.9	105	50.4	9.6
## 756	167.5	76	50.0	11.4
## 757	213.9	88	57.0	9.8
## 758	115.8	108	41.0	13.1
## 759	276.6	99	92.5	9.8
## 760	179.4	88	71.7	9.5
## 761	187.3	84	55.0	10.1
## 762	201.2	128	54.0	8.4
## 763	189.6	78	55.0	1.3
## 764	186.8	124	94.5	15.0
## 765	153.5	83	75.8	11.4
## 766	187.6	97	50.0	8.7
## 767	230.9	132	60.0	11.0
## 768	244.9	150	93.0	15.2
## 769	230.9	93	59.0	9.7
## 770	187.1	104	56.6	11.0
## 771	170.7	54	46.0	13.3

## 772	126.9	97	59.8	8.8
## 773	189.5	112	50.0	9.2
## 774	176.9	110	45.0	7.7
## 775	161.1	99	45.0	10.6
## 776	169.4	107	46.0	10.7
## 777	254.4	133	85.4	10.5
## 778	127.7	54	55.7	5.8
## 779	170.5	107	84.7	13.6
## 780	219.1	100	58.0	10.1
## 781	273.5	104	63.0	11.0
## 782	161.9	138	45.0	10.7
## 783	241.7	87	79.4	9.4
## 784	62.8	124	29.8	9.4
## 785	281.1	83	90.2	11.2
## 786	228.2	70	62.0	10.7
## 787	209.8	82	53.0	11.3
## 788	265.6	86	63.0	11.1
## 789	214.9	97	47.0	11.8
## 790	110.5	79	38.0	10.5
## 791	281.1	88	85.3	7.5
## 792	137.8	86	48.0	14.1
## 793	271.5	98	90.1	8.2
## 794	112.8	108	38.0	9.0
## 795	187.3	118	53.0	15.1
## 796	197.0	84	57.0	10.8
## 797	180.4	89	64.7	8.4
## 798	148.5	126	44.0	14.5
## 799	197.1	113	95.4	14.6
## 800	153.7	115	80.9	15.9
## 801	261.3	96	94.5	11.3
## 802	246.2	102	60.0	9.4
## 803	191.0	88	60.0	6.5
## 804	208.3	86	60.5	12.6
## 805	253.0	73	62.0	9.8
## 806	202.3	87	52.0	6.8
## 807	174.4	120	43.0	10.2
## 808	127.1	89	69.7	12.1
## 809	143.5	76	76.5	11.3
## 810	186.9	94	68.7	5.8
## 811	194.0	118	54.0	12.1
## 812	234.8	89	50.9	9.9
## 813	123.7	96	30.0	13.1
## 814	173.9	103	54.0	15.3
## 815	130.9	115	73.5	12.4
## 816	314.6	102	68.0	5.7
## 817	227.9	78	57.0	12.1
## 818	95.5	92	31.0	6.6
## 819	185.3	127	50.0	15.1
## 820	146.3	133	45.6	13.1
## 821	184.0	99	72.3	12.7
## 822	105.8	110	22.0	13.1
## 823	178.0	110	47.1	11.7
## 824	149.4	74	63.3	10.1
## 825	209.4	104	47.0	11.3

## 826	172.1	105	48.0	11.6
## 827	169.3	82	48.0	9.4
## 828	119.1	117	49.2	12.2
## 829	194.2	147	48.0	5.5
## 830	198.8	56	54.0	9.9
## 831	167.7	94	37.0	13.4
## 832	202.2	86	53.0	11.8
## 833	322.5	106	73.0	9.4
## 834	216.2	107	59.0	10.2
## 835	76.4	116	23.0	9.4
## 836	72.7	75	31.0	9.9
## 837	210.4	100	81.2	9.7
## 838	127.2	93	57.9	8.1
## 839	201.8	79	93.1	11.9
## 840	219.5	78	100.5	16.1
## 841	99.3	112	40.0	9.0
## 842	239.2	114	54.0	10.3
## 843	120.9	58	41.0	11.4
## 844	224.7	81	50.0	15.8
## 845	176.6	88	83.4	14.6
## 846	283.9	98	92.0	10.0
## 847	180.6	92	47.0	10.3
## 848	125.9	101	66.8	10.3
## 849	237.6	79	57.0	9.1
## 850	198.4	91	57.0	9.2
## 851	274.3	110	52.0	10.9
## 852	199.6	89	52.0	11.0
## 853	217.7	91	61.0	9.6
## 854	134.7	96	43.0	7.6
## 855	212.7	73	85.2	9.7
## 856	256.3	135	59.0	6.2
## 857	183.6	133	44.7	12.7
## 858	176.2	90	47.0	9.2
## 859	205.0	94	80.6	11.7
## 860	267.9	114	65.0	11.3
## 861	179.2	111	46.0	9.9
## 862	149.4	145	43.0	14.9
## 863	163.6	132	76.4	13.1
## 864	207.6	71	49.0	12.4
## 865	165.4	108	44.0	8.9
## 866	209.8	114	51.0	9.9
## 867	220.1	128	91.0	11.1
## 868	141.3	72	38.0	8.2
## 869	196.5	89	54.0	4.0
## 870	180.9	114	51.6	7.4
## 871	105.0	150	40.0	14.9
## 872	271.4	119	63.0	11.1
## 873	206.7	79	79.4	10.9
## 874	166.8	109	50.8	9.3
## 875	204.9	107	47.0	10.4
## 876	154.6	128	72.6	9.1
## 877	127.0	107	50.0	7.5
## 878	267.4	78	63.0	5.9
## 879	281.0	66	62.0	0.0

## 880	270.8	96	96.9	11.8
## 881	171.2	82	45.0	10.2
## 882	124.1	82	39.0	6.7
## 883	162.8	113	56.5	7.2
## 884	146.3	84	47.0	8.0
## 885	254.8	85	56.0	15.0
## 886	254.9	108	78.6	5.4
## 887	107.7	124	59.0	8.9
## 888	158.8	75	50.0	7.6
## 889	182.9	113	54.3	5.5
## 890	198.5	112	38.0	12.4
## 891	178.4	72	51.0	12.0
## 892	110.9	91	33.0	6.2
## 893	166.9	85	81.2	12.3
## 894	244.8	91	47.0	10.7
## 895	120.8	96	35.0	11.9
## 896	165.3	118	48.5	8.5
## 897	126.7	113	35.0	14.4
## 898	215.9	106	95.9	15.5
## 899	140.1	132	45.0	8.0
## 900	209.9	113	80.5	8.7
## 901	139.8	114	50.9	5.5
## 902	321.6	107	77.0	11.3
## 903	166.6	61	47.0	8.2
## 904	214.2	90	54.0	5.9
## 905	260.0	123	63.0	9.0
## 906	191.9	113	40.6	13.4
## 907	213.0	95	53.0	13.5
## 908	118.1	83	75.6	16.9
## 909	190.2	89	47.0	15.0
## 910	82.2	95	41.8	5.1
## 911	163.8	80	64.9	8.1
## 912	267.8	145	73.0	14.4
## 913	159.8	91	38.0	10.6
## 914	214.3	129	90.6	10.6
## 915	287.3	123	74.0	10.5
## 916	101.2	122	32.2	7.5
## 917	102.8	74	42.0	13.2
## 918	109.1	97	29.0	8.3
## 919	215.9	67	56.0	5.2
## 920	203.4	110	46.0	11.0
## 921	110.1	113	36.9	9.2
## 922	111.0	51	38.0	4.4
## 923	239.9	121	53.0	9.3
## 924	144.8	107	35.0	13.8
## 925	135.4	134	41.0	7.9
## 926	84.2	134	22.0	10.8
## 927	209.1	127	45.0	14.0
## 928	130.1	117	69.8	11.4
## 929	175.8	139	65.1	7.8
## 930	241.9	104	54.0	6.6
## 931	136.7	106	43.0	9.8
## 932	67.7	68	29.0	12.0
## 933	200.4	87	61.0	10.0

## 934	125.8	103	40.0	14.1
## 935	128.2	87	34.0	11.2
## 936	226.3	88	58.0	13.0
## 937	162.3	107	72.8	9.2
## 938	224.4	121	51.0	6.7
## 939	120.5	127	37.0	14.3
## 940	91.1	90	34.2	11.9
## 941	168.8	137	50.0	15.5
## 942	153.5	81	54.6	6.5
## 943	226.2	88	51.0	6.4
## 944	191.9	107	54.1	12.6
## 945	167.9	147	69.8	9.2
## 946	180.0	88	43.0	11.5
## 947	257.4	67	66.0	13.4
## 948	174.4	75	74.7	11.0
## 949	159.7	83	41.0	8.4
## 950	237.2	124	60.0	11.0
## 951	103.0	129	39.0	7.9
## 952	153.8	89	47.0	11.6
## 953	205.1	86	51.2	10.7
## 954	175.7	93	69.2	8.6
## 955	155.9	123	46.0	8.6
## 956	154.4	109	73.8	10.3
## 957	209.7	73	71.2	7.1
## 958	150.0	69	52.7	9.4
## 959	232.4	97	89.2	12.3
## 960	165.4	100	38.0	12.8
## 961	199.2	106	50.0	13.3
## 962	217.6	81	67.9	4.2
## 963	212.1	95	53.7	7.7
## 964	154.0	75	70.2	10.8
## 965	193.8	130	86.9	13.3
## 966	175.4	130	51.0	12.2
## 967	152.0	63	90.4	15.7
## 968	230.2	147	58.6	9.2
## 969	174.9	103	87.5	13.5
## 970	190.2	68	59.2	8.8
## 971	176.4	122	50.0	11.5
## 972	160.9	95	51.8	5.0
## 973	228.7	90	55.9	11.8
## 974	144.0	90	42.6	12.3
## 975	135.9	90	72.7	9.5
## 976	334.3	118	74.0	10.4
## 977	130.5	77	34.0	13.0
## 978	134.2	105	68.9	11.8
## 979	278.0	102	70.0	13.1
## 980	105.4	70	37.0	7.8
## 981	188.9	94	50.0	11.6
## 982	111.8	85	58.6	6.9
## 983	159.1	106	75.1	13.0
## 984	212.4	105	58.9	9.0
## 985	142.3	112	51.0	9.9
## 986	346.8	55	81.0	13.3
## 987	113.9	102	63.9	11.8

## 988	267.9	103	90.4	8.3
## 989	171.4	117	41.8	17.0
## 990	275.4	150	63.0	13.6
## 991	197.2	118	65.5	3.9
## 992	192.6	97	66.3	7.9
## 993	91.7	104	49.8	7.7
## 994	126.3	99	35.7	9.6
## 995	251.5	107	91.1	10.4
## 996	190.6	108	46.0	7.5
## 997	116.1	101	37.0	11.6
## 998	217.3	91	58.3	11.3
## 999	179.4	80	51.0	14.7
## 1000	207.7	109	50.0	7.9
## 1001	277.3	138	67.0	12.8
## 1002	125.3	84	36.0	8.4
## 1003	138.1	91	56.4	6.8
## 1004	169.3	88	70.1	8.2
## 1005	201.3	101	80.2	12.3
## 1006	216.7	117	47.0	9.8
## 1007	190.4	92	60.0	8.3
## 1008	143.3	91	41.0	6.0
## 1009	97.4	57	64.8	11.4
## 1010	181.4	111	46.0	11.3
## 1011	246.4	83	64.0	3.8
## 1012	143.4	130	49.0	9.7
## 1013	104.9	111	38.6	8.0
## 1014	156.2	93	43.0	13.1
## 1015	114.8	125	27.0	12.0
## 1016	232.5	96	57.0	11.9
## 1017	143.6	117	38.0	8.6
## 1018	176.7	132	51.0	9.1
## 1019	263.4	148	65.0	11.4
## 1020	146.4	74	38.0	11.3
## 1021	145.0	72	80.3	14.2
## 1022	167.8	91	47.2	8.4
## 1023	166.9	99	42.0	7.2
## 1024	142.5	87	41.0	7.8
## 1025	133.0	65	45.0	11.2
## 1026	252.9	129	101.2	12.3
## 1027	95.0	94	68.0	10.0
## 1028	194.2	106	55.0	12.9
## 1029	222.8	114	57.0	0.0
## 1030	201.8	82	54.0	16.5
## 1031	216.0	125	82.1	9.3
## 1032	146.3	108	42.9	5.3
## 1033	234.8	85	55.2	9.5
## 1034	198.6	111	52.0	10.6
## 1035	94.4	80	35.0	13.1
## 1036	190.4	74	52.8	10.0
## 1037	142.6	77	74.4	12.0
## 1038	134.2	80	37.0	10.7
## 1039	111.9	92	29.0	14.1
## 1040	122.8	89	39.0	10.7
## 1041	189.3	77	51.0	9.2

## 1042	240.4	112	102.5	16.1
## 1043	93.5	112	58.7	9.9
## 1044	158.6	104	45.0	10.2
## 1045	243.2	109	54.0	7.2
## 1046	176.4	115	44.0	9.3
## 1047	220.9	129	62.1	6.4
## 1048	144.4	87	51.3	7.1
## 1049	212.3	107	56.0	7.7
## 1050	147.0	72	40.0	8.4
## 1051	96.2	112	66.8	12.9
## 1052	263.4	118	60.0	10.3
## 1053	12.5	67	24.0	7.7
## 1054	162.3	116	46.1	10.1
## 1055	183.6	107	37.0	8.7
## 1056	178.1	109	43.0	8.5
## 1057	201.4	101	43.0	7.0
## 1058	123.0	158	68.9	13.3
## 1059	208.0	125	53.0	8.6
## 1060	239.2	72	59.9	8.8
## 1061	193.0	97	41.0	15.3
## 1062	174.5	101	78.8	10.3
## 1063	116.7	71	59.7	9.9
## 1064	93.8	127	29.0	10.7
## 1065	154.1	114	71.8	12.9
## 1066	239.5	82	85.7	9.9
## 1067	216.0	140	87.9	11.8
## 1068	187.4	97	50.2	12.2
## 1069	167.4	119	51.1	10.3
## 1070	160.4	108	46.0	12.5
## 1071	143.2	92	43.0	11.9
## 1072	205.3	122	56.0	5.0
## 1073	219.1	88	89.6	14.3
## 1074	143.2	77	42.2	7.6
## 1075	232.8	106	55.0	12.5
## 1076	162.0	81	49.0	8.9
## 1077	25.9	119	39.6	6.5
## 1078	154.2	123	36.0	15.4
## 1079	322.3	113	74.0	6.7
## 1080	209.9	112	55.0	8.2
## 1081	191.5	88	48.0	0.0
## 1082	291.1	150	89.3	7.5
## 1083	215.6	115	56.0	11.8
## 1084	208.8	101	54.0	12.4
## 1085	255.9	97	61.0	12.3
## 1086	252.7	97	62.0	12.4
## 1087	132.1	72	44.0	6.9
## 1088	217.0	115	55.0	8.2
## 1089	101.9	79	71.8	12.9
## 1090	211.5	100	52.0	13.3
## 1091	153.4	86	47.6	10.4
## 1092	166.3	95	51.7	10.0
## 1093	185.2	87	50.5	9.5
## 1094	104.6	121	33.8	6.5
## 1095	245.2	105	56.0	7.2

## 1096	274.4	120	64.0	6.0
## 1097	98.4	78	38.0	14.2
## 1098	279.9	121	102.1	13.0
## 1099	187.2	127	53.1	5.1
## 1100	276.2	95	62.0	2.2
## 1101	200.4	104	80.4	8.3
## 1102	162.3	96	49.0	9.1
## 1103	176.9	128	39.0	10.5
## 1104	165.5	78	46.0	12.2
## 1105	217.8	93	54.0	10.4
## 1106	201.4	100	90.8	12.9
## 1107	190.5	115	52.2	10.1
## 1108	179.9	97	81.6	12.8
## 1109	235.9	104	47.0	5.8
## 1110	140.4	112	40.0	7.9
## 1111	144.6	115	51.1	7.4
## 1112	189.0	100	45.3	17.1
## 1113	101.0	93	31.0	13.3
## 1114	206.3	98	60.0	10.6
## 1115	165.1	85	80.4	10.9
## 1116	165.0	129	46.0	12.5
## 1117	155.9	95	49.0	11.7
## 1118	199.2	122	53.0	11.8
## 1119	155.3	116	43.0	12.3
## 1120	208.3	106	56.0	11.3
## 1121	157.1	79	41.0	12.1
## 1122	154.4	165	41.0	11.7
## 1123	189.1	105	54.0	10.4
## 1124	131.5	98	69.0	10.0
## 1125	166.4	85	49.0	9.9
## 1126	142.3	75	37.6	12.8
## 1127	87.7	103	53.7	7.3
## 1128	184.1	78	93.6	16.9
## 1129	174.5	104	82.2	12.3
## 1130	103.3	103	30.0	9.0
## 1131	35.1	62	22.0	12.7
## 1132	246.6	94	89.1	13.0
## 1133	78.5	109	63.9	11.8
## 1134	148.1	73	40.0	12.3
## 1135	206.2	84	57.0	9.0
## 1136	251.6	87	92.9	12.2
## 1137	270.3	111	103.9	14.4
## 1138	156.6	97	76.5	11.3
## 1139	139.4	81	47.2	13.6
## 1140	220.2	108	54.0	11.7
## 1141	214.1	108	78.3	10.1
## 1142	196.0	74	52.0	7.9
## 1143	106.4	71	39.0	5.3
## 1144	179.4	113	81.0	10.0
## 1145	216.7	30	53.9	10.8
## 1146	177.3	129	44.0	5.1
## 1147	151.6	117	45.0	4.0
## 1148	262.2	123	87.6	10.6
## 1149	173.6	110	38.0	9.7

## 1150	106.6	76	31.0	9.6
## 1151	193.3	106	44.0	11.6
## 1152	217.2	94	79.5	11.3
## 1153	209.5	89	51.0	8.8
## 1154	95.4	105	34.0	5.6
## 1155	214.6	110	75.9	8.1
## 1156	131.6	120	41.0	11.1
## 1157	168.4	117	48.0	11.8
## 1158	146.4	123	42.0	7.8
## 1159	183.0	110	49.0	11.1
## 1160	103.3	122	39.0	6.4
## 1161	112.2	70	61.6	10.6
## 1162	170.7	55	45.0	8.2
## 1163	172.5	78	42.0	10.9
## 1164	194.3	107	73.2	7.1
## 1165	187.8	117	75.4	12.0
## 1166	307.1	94	98.6	8.0
## 1167	118.2	106	39.2	12.2
## 1168	154.0	95	44.0	12.9
## 1169	155.5	101	47.0	7.6
## 1170	125.6	108	40.0	5.4
## 1171	199.3	104	53.0	15.2
## 1172	157.9	88	43.0	12.8
## 1173	203.4	81	49.0	9.2
## 1174	222.2	113	57.0	10.9
## 1175	92.8	98	54.7	5.8
## 1176	216.8	78	69.2	8.6
## 1177	193.2	89	50.0	9.7
## 1178	113.2	108	36.0	14.1
## 1179	166.2	54	79.2	11.2
## 1180	262.2	101	77.7	7.3
## 1181	207.8	92	52.0	13.1
## 1182	245.4	89	75.3	7.5
## 1183	287.1	108	64.0	14.4
## 1184	192.3	82	71.3	9.0
## 1185	194.2	122	56.9	9.7
## 1186	211.0	92	56.5	9.8
## 1187	141.9	92	67.5	8.7
## 1188	220.5	94	73.9	5.9
## 1189	157.4	122	40.0	9.3
## 1190	143.5	106	74.2	11.2
## 1191	156.0	56	32.0	8.9
## 1192	160.1	63	45.0	9.2
## 1193	235.1	98	62.0	7.2
## 1194	160.0	95	69.5	8.7
## 1195	188.4	63	47.0	13.2
## 1196	194.8	97	54.0	11.0
## 1197	247.8	117	54.0	6.9
## 1198	221.2	80	56.0	11.9
## 1199	118.5	86	75.2	13.4
## 1200	231.8	78	80.5	7.6
## 1201	215.9	90	90.3	11.6
## 1202	217.1	92	77.6	8.0
## 1203	83.5	96	33.0	12.6

## 1204	183.3	106	62.8	5.1
## 1205	236.8	141	63.0	9.5
## 1206	193.8	90	50.0	8.5
## 1207	134.0	112	67.2	9.7
## 1208	176.6	65	75.5	11.3
## 1209	191.4	93	50.0	10.2
## 1210	174.8	127	83.6	12.8
## 1211	275.2	67	65.0	7.9
## 1212	174.0	85	51.0	7.9
## 1213	165.0	132	50.0	12.6
## 1214	228.7	102	54.0	11.8
## 1215	107.9	88	41.9	9.5
## 1216	221.3	140	52.0	11.3
## 1217	141.1	84	42.0	5.9
## 1218	166.4	92	77.9	10.7
## 1219	249.6	87	82.5	7.6
## 1220	178.6	83	49.0	10.9
## 1221	139.0	96	43.0	15.7
## 1222	134.3	98	41.0	12.6
## 1223	215.9	93	58.0	4.9
## 1224	181.6	91	79.8	11.4
## 1225	178.4	97	45.0	9.3
## 1226	106.4	84	31.0	11.4
## 1227	170.7	101	50.0	11.4
## 1228	184.5	139	80.2	12.3
## 1229	161.2	109	69.0	8.9
## 1230	84.9	77	39.7	7.5
## 1231	217.9	71	57.0	10.6
## 1232	270.9	98	66.0	8.8
## 1233	243.0	91	59.3	15.3
## 1234	128.2	71	26.0	8.9
## 1235	126.3	115	36.0	9.8
## 1236	178.7	56	52.5	10.6
## 1237	159.0	109	52.0	10.1
## 1238	150.9	79	40.0	11.7
## 1239	219.9	118	77.9	8.1
## 1240	168.0	116	49.3	10.1
## 1241	162.1	83	68.9	9.6
## 1242	198.8	107	53.9	16.5
## 1243	256.8	90	64.0	9.1
## 1244	182.8	122	79.7	11.0
## 1245	196.8	92	76.8	7.7
## 1246	140.1	120	46.3	11.2
## 1247	194.3	83	50.0	9.0
## 1248	117.6	66	39.0	8.8
## 1249	193.7	108	52.8	11.6
## 1250	243.1	105	63.9	7.8
## 1251	145.4	132	36.0	5.2
## 1252	169.1	105	44.0	9.9
## 1253	229.3	93	55.0	8.8
## 1254	197.2	97	55.8	8.3
## 1255	186.4	84	79.0	11.1
## 1256	76.1	121	38.0	10.8
## 1257	162.8	65	44.0	6.0

## 1258	182.3	115	48.0	18.0
## 1259	194.4	83	55.0	11.2
## 1260	189.3	95	76.8	12.5
## 1261	160.1	107	67.7	9.5
## 1262	145.0	76	46.0	7.1
## 1263	220.7	105	48.0	11.5
## 1264	224.7	69	70.3	7.5
## 1265	147.0	79	41.8	10.5
## 1266	260.8	130	90.3	10.1
## 1267	155.4	127	41.0	9.0
## 1268	166.2	112	53.4	5.4
## 1269	211.8	115	62.3	10.8
## 1270	130.5	114	69.7	11.0
## 1271	162.7	102	53.0	8.7
## 1272	237.1	76	84.3	7.9
## 1273	166.2	102	47.0	13.2
## 1274	121.7	48	32.0	8.3
## 1275	176.4	62	48.0	11.2
## 1276	67.4	116	63.8	11.4
## 1277	229.7	129	68.0	9.6
## 1278	176.0	118	93.7	14.7
## 1279	247.7	77	69.5	9.6
## 1280	115.4	90	45.6	13.1
## 1281	112.2	95	37.0	13.9
## 1282	162.6	138	43.7	11.5
## 1283	229.4	107	58.0	10.4
## 1284	139.6	96	35.0	15.0
## 1285	263.8	66	67.0	8.4
## 1286	217.5	123	81.3	9.0
## 1287	114.3	132	57.3	7.5
## 1288	196.3	108	45.0	7.7
## 1289	253.2	95	63.0	4.4
## 1290	98.0	99	41.7	10.5
## 1291	249.4	118	61.0	9.1
## 1292	129.6	107	81.2	14.5
## 1293	221.3	106	61.0	9.3
## 1294	220.7	106	56.9	12.4
## 1295	87.6	76	40.4	9.2
## 1296	203.6	61	49.0	8.4
## 1297	213.6	110	57.0	8.8
## 1298	181.6	112	84.8	12.9
## 1299	215.4	123	86.1	7.8
## 1300	266.3	90	63.0	14.0
## 1301	199.2	111	51.1	10.2
## 1302	115.0	130	33.3	7.3
## 1303	270.5	69	66.0	9.6
## 1304	222.2	127	55.2	12.9
## 1305	61.9	78	33.0	8.8
## 1306	141.1	92	46.0	10.8
## 1307	189.2	81	48.0	10.6
## 1308	196.0	135	50.0	9.8
## 1309	171.6	119	47.0	13.8
## 1310	174.0	123	47.4	11.4
## 1311	78.6	106	30.0	7.4

## 1312	200.9	92	49.0	8.9
## 1313	141.3	123	46.0	6.4
## 1314	235.8	130	58.1	7.3
## 1315	185.1	100	46.0	6.3
## 1316	254.3	113	50.0	11.8
## 1317	183.0	103	50.0	8.7
## 1318	163.5	80	72.3	7.5
## 1319	207.9	98	57.2	7.7
## 1320	248.6	102	58.0	6.1
## 1321	185.4	105	88.2	14.5
## 1322	197.8	60	53.0	8.9
## 1323	132.1	42	37.7	9.1
## 1324	197.1	117	53.0	9.3
## 1325	154.6	112	42.0	12.6
## 1326	153.1	115	69.0	10.0
## 1327	211.2	119	56.0	6.3
## 1328	96.8	92	31.9	10.9
## 1329	172.0	145	57.0	10.1
## 1330	141.1	91	39.9	8.0
## 1331	151.1	121	84.3	13.8
## 1332	209.6	107	56.0	7.6
## 1333	247.0	109	81.4	10.5
## 1334	221.4	114	81.2	10.8
## 1335	321.3	99	69.0	8.0
## 1336	243.7	124	47.0	11.3
## 1337	251.5	85	61.0	11.1
## 1338	236.9	107	57.8	7.3
## 1339	159.7	79	46.0	9.3
## 1340	148.2	96	44.0	9.2
## 1341	150.9	86	49.0	14.7
## 1342	210.5	101	89.1	11.5
## 1343	170.9	71	58.1	4.1
## 1344	254.7	80	51.0	10.6
## 1345	284.4	89	62.0	8.4
## 1346	0.0	0	14.0	6.8
## 1347	133.7	45	39.0	10.7
## 1348	224.9	117	55.0	10.3
## 1349	151.8	98	46.6	11.9
## 1350	141.4	107	53.1	5.6
## 1351	285.7	124	73.0	14.8
## 1352	58.4	121	33.0	11.9
## 1353	90.4	105	68.4	13.1
## 1354	114.4	91	40.4	11.0
## 1355	147.7	103	47.6	12.8
## 1356	302.7	93	108.7	13.6
## 1357	136.1	120	41.0	11.3
## 1358	169.7	84	43.0	12.8
## 1359	227.2	89	56.0	14.9
## 1360	217.8	91	56.0	10.3
## 1361	124.2	102	35.2	13.1
## 1362	206.2	76	55.0	13.6
## 1363	132.9	122	29.0	9.9
## 1364	104.9	115	59.8	7.7
## 1365	245.0	97	63.0	13.7

## 1366	184.5	118	51.0	11.6
## 1367	89.5	66	31.0	12.3
## 1368	235.6	131	59.8	8.6
## 1369	186.0	127	54.0	11.5
## 1370	223.9	75	52.0	7.3
## 1371	179.5	125	45.0	6.6
## 1372	169.4	102	51.0	8.9
## 1373	118.1	90	33.0	8.2
## 1374	112.0	105	36.0	4.1
## 1375	168.4	129	71.0	8.5
## 1376	214.3	112	83.5	11.3
## 1377	245.7	139	63.0	4.2
## 1378	156.6	134	69.2	13.4
## 1379	142.8	96	72.0	8.9
## 1380	202.4	115	57.9	10.2
## 1381	116.8	119	31.0	12.0
## 1382	155.7	110	52.7	11.0
## 1383	236.1	107	89.6	9.1
## 1384	138.1	113	68.1	8.2
## 1385	51.9	108	25.6	10.1
## 1386	81.3	116	33.0	8.9
## 1387	171.5	98	62.2	7.1
## 1388	126.0	96	34.0	7.6
## 1389	197.2	127	47.0	9.9
## 1390	194.1	62	53.0	15.3
## 1391	115.7	105	31.0	9.3
## 1392	157.2	118	66.7	8.4
## 1393	269.7	85	64.0	4.5
## 1394	246.4	107	64.1	9.1
## 1395	227.4	121	62.0	13.0
## 1396	189.8	110	46.3	12.2
## 1397	188.9	124	77.1	11.5
## 1398	0.0	0	20.0	7.2
## 1399	110.5	87	68.7	11.0
## 1400	167.6	116	51.3	11.7
## 1401	132.0	90	40.0	0.0
## 1402	167.8	88	50.0	11.9
## 1403	213.4	86	54.0	5.7
## 1404	175.4	120	39.0	10.6
## 1405	82.6	113	59.7	9.5
## 1406	143.2	80	32.0	8.8
## 1407	125.5	139	45.0	8.9
## 1408	82.3	105	67.9	11.8
## 1409	165.6	104	46.4	11.8
## 1410	183.1	95	73.7	8.4
## 1411	162.1	91	46.0	12.2
## 1412	166.6	84	45.0	7.7
## 1413	135.9	60	68.4	9.4
## 1414	165.7	78	73.5	9.8
## 1415	176.1	90	48.5	9.7
## 1416	142.3	89	42.0	9.1
## 1417	177.6	121	56.0	7.6
## 1418	83.2	74	34.2	10.7
## 1419	235.0	101	71.4	5.7

## 1420	105.7	95	31.0	6.6
## 1421	149.4	68	41.0	17.9
## 1422	264.7	81	92.1	10.4
## 1423	160.3	45	62.1	5.6
## 1424	95.9	117	58.1	10.4
## 1425	140.7	77	44.4	11.7
## 1426	119.7	148	41.0	4.6
## 1427	99.9	84	66.5	9.8
## 1428	250.9	108	58.0	9.6
## 1429	200.6	117	59.0	11.2
## 1430	209.8	130	71.9	7.0
## 1431	198.0	70	77.5	7.6
## 1432	239.8	107	52.0	11.3
## 1433	164.5	75	43.7	11.2
## 1434	220.9	107	54.0	12.2
## 1435	112.8	150	75.6	13.2
## 1436	112.6	114	72.0	11.1
## 1437	226.4	117	88.2	10.8
## 1438	244.9	118	87.2	9.7
## 1439	203.2	99	57.7	15.1
## 1440	136.7	115	44.0	8.6
## 1441	152.6	97	44.0	5.0
## 1442	274.9	102	86.8	8.8
## 1443	195.7	116	52.0	8.3
## 1444	204.3	82	54.1	9.2
## 1445	222.3	99	51.0	8.9
## 1446	222.5	104	79.2	9.7
## 1447	128.8	104	63.8	10.3
## 1448	174.3	105	48.1	8.3
## 1449	242.5	110	56.0	7.8
## 1450	221.6	101	62.0	12.7
## 1451	114.3	100	39.0	10.9
## 1452	219.7	137	79.7	9.5
## 1453	144.9	136	38.0	12.3
## 1454	236.5	111	72.9	8.1
## 1455	174.0	80	86.1	14.1
## 1456	109.5	95	47.0	6.6
## 1457	81.6	120	60.7	9.9
## 1458	133.4	113	33.0	5.9
## 1459	137.1	94	42.0	8.6
## 1460	197.0	88	50.0	16.1
## 1461	198.1	160	47.0	9.3
## 1462	39.5	78	33.2	10.0
## 1463	199.5	107	52.0	8.1
## 1464	156.8	93	45.0	7.6
## 1465	183.4	85	52.0	9.0
## 1466	132.4	120	33.0	8.6
## 1467	63.2	108	30.0	5.1
## 1468	181.1	59	95.6	16.9
## 1469	117.5	102	49.3	4.2
## 1470	218.7	79	92.5	15.0
## 1471	207.3	95	62.9	5.9
## 1472	150.6	99	52.0	8.1
## 1473	273.3	66	72.0	12.0

## 1474	266.1	120	61.0	10.3
## 1475	112.8	89	36.8	16.3
## 1476	104.7	112	25.0	15.8
## 1477	193.8	62	65.9	5.9
## 1478	168.6	102	54.0	9.8
## 1479	253.2	122	61.0	9.7
## 1480	174.7	92	74.0	8.9
## 1481	87.0	102	35.5	11.0
## 1482	204.5	79	87.0	14.8
## 1483	226.5	93	52.0	9.4
## 1484	234.1	91	56.9	10.0
## 1485	133.3	106	39.0	12.9
## 1486	133.9	87	39.7	15.4
## 1487	160.2	104	40.0	9.7
## 1488	230.6	94	89.0	11.1
## 1489	227.4	84	54.0	6.3
## 1490	72.8	120	36.0	11.8
## 1491	196.1	107	61.5	7.0
## 1492	197.1	110	48.0	12.8
## 1493	219.6	126	64.0	9.7
## 1494	153.4	90	73.6	12.8
## 1495	216.0	85	53.0	4.9
## 1496	222.9	136	90.2	10.8
## 1497	115.9	120	71.6	11.7
## 1498	189.8	101	45.0	10.6
## 1499	154.7	102	52.0	11.1
## 1500	136.4	104	41.0	11.5
## 1501	170.5	86	53.0	12.2
## 1502	272.4	88	58.7	12.7
## 1503	210.0	116	71.9	5.9
## 1504	236.5	94	87.9	12.2
## 1505	153.9	117	45.0	8.5
## 1506	223.0	120	58.0	8.8
## 1507	252.4	74	61.6	10.7
## 1508	197.9	84	48.0	12.0
## 1509	152.4	74	51.7	6.6
## 1510	237.4	105	80.8	9.2
## 1511	265.6	82	61.0	8.6
## 1512	197.3	91	60.0	6.7
## 1513	199.1	100	64.3	4.2
## 1514	233.7	114	58.0	12.0
## 1515	183.1	99	45.0	7.0
## 1516	139.4	96	38.2	10.0
## 1517	213.9	112	61.1	8.4
## 1518	207.1	70	53.0	12.4
## 1519	139.7	78	41.0	11.3
## 1520	177.2	91	53.5	8.9
## 1521	169.8	136	69.7	9.5
## 1522	173.5	83	51.0	9.7
## 1523	159.9	100	44.9	5.6
## 1524	115.1	89	39.8	11.4
## 1525	136.8	113	72.8	12.5
## 1526	92.2	108	34.0	13.1
## 1527	243.9	112	89.2	13.4

## 1528	117.1	94	40.0	9.0
## 1529	223.3	99	53.0	4.5
## 1530	154.8	111	43.4	10.6
## 1531	261.4	141	63.0	8.0
## 1532	46.5	104	24.0	9.6
## 1533	149.9	84	72.1	11.5
## 1534	242.2	102	61.0	13.9
## 1535	259.4	99	62.1	10.7
## 1536	222.4	102	57.3	12.0
## 1537	69.4	79	29.0	8.9
## 1538	156.5	122	75.0	11.1
## 1539	61.2	111	19.0	13.7
## 1540	245.2	112	51.0	10.7
## 1541	102.3	100	29.0	15.7
## 1542	230.9	92	74.5	7.6
## 1543	227.4	105	59.5	11.9
## 1544	192.8	68	48.9	12.7
## 1545	162.6	98	48.6	8.2
## 1546	219.4	92	82.7	11.0
## 1547	137.2	111	38.0	14.3
## 1548	87.7	103	39.0	10.5
## 1549	271.1	80	64.3	10.3
## 1550	103.4	94	34.0	14.4
## 1551	52.2	106	30.4	11.4
## 1552	165.4	106	55.0	8.7
## 1553	147.5	110	42.0	16.4
## 1554	217.8	93	56.0	11.3
## 1555	235.7	79	52.0	13.3
## 1556	204.5	92	70.2	8.6
## 1557	178.4	143	52.0	9.6
## 1558	130.1	68	80.5	13.5
## 1559	103.7	100	78.0	14.8
## 1560	239.9	91	57.7	5.9
## 1561	148.4	110	48.0	8.9
## 1562	148.6	106	44.0	10.0
## 1563	191.1	69	44.0	12.9
## 1564	218.5	76	66.7	7.3
## 1565	97.5	95	37.6	0.0
## 1566	128.7	126	32.0	10.8
## 1567	236.6	69	83.7	9.5
## 1568	85.9	113	34.0	15.6
## 1569	141.2	96	69.8	11.4
## 1570	194.4	104	80.1	11.5
## 1571	167.6	100	42.0	17.3
## 1572	234.5	134	57.2	6.1
## 1573	154.2	78	46.1	10.1
## 1574	143.2	99	70.3	11.6
## 1575	216.4	80	93.3	12.7
## 1576	161.9	85	64.0	8.5
## 1577	118.7	90	38.0	10.4
## 1578	179.1	123	48.0	10.2
## 1579	147.9	97	43.0	8.8
## 1580	209.2	110	90.6	16.5
## 1581	244.3	140	97.6	10.6

## 1582	175.3	96	68.1	5.6
## 1583	150.5	92	36.0	9.0
## 1584	197.4	73	94.6	13.2
## 1585	163.5	136	41.0	12.6
## 1586	236.9	93	58.0	11.4
## 1587	82.3	77	29.0	7.2
## 1588	216.0	111	50.0	12.7
## 1589	180.0	119	48.0	12.4
## 1590	143.7	55	40.0	5.8
## 1591	198.2	107	88.5	11.3
## 1592	185.6	106	81.0	11.1
## 1593	137.6	108	38.0	5.8
## 1594	273.9	119	71.0	10.9
## 1595	125.3	92	51.0	6.3
## 1596	178.8	102	45.0	8.6
## 1597	214.9	86	76.1	8.2
## 1598	163.0	93	46.0	15.1
## 1599	163.8	77	63.8	8.8
## 1600	189.5	113	50.0	13.4
## 1601	155.2	110	59.2	4.5
## 1602	242.3	102	72.0	11.3
## 1603	254.1	127	82.5	8.7
## 1604	112.0	90	67.5	11.3
## 1605	115.5	73	45.4	13.3
## 1606	137.1	102	45.4	11.1
## 1607	198.4	113	54.0	10.1
## 1608	132.7	94	74.8	12.9
## 1609	219.6	99	93.3	13.8
## 1610	169.6	96	49.0	11.2
## 1611	160.4	73	53.0	12.6
## 1612	95.0	89	61.2	11.2
## 1613	160.1	87	52.4	7.0
## 1614	194.6	114	53.0	3.8
## 1615	236.4	73	65.0	13.8
## 1616	157.1	95	45.0	7.6
## 1617	179.8	125	46.0	10.9
## 1618	148.2	108	39.0	11.0
## 1619	183.2	103	81.1	11.9
## 1620	119.2	88	35.0	12.2
## 1621	224.0	102	80.9	9.6
## 1622	19.5	149	37.3	7.9
## 1623	184.8	83	53.0	9.6
## 1624	176.3	140	48.0	11.3
## 1625	241.7	115	56.0	11.1
## 1626	224.7	121	90.5	9.8
## 1627	207.3	115	56.7	8.6
## 1628	196.8	81	48.0	12.7
## 1629	110.9	74	29.0	15.8
## 1630	122.5	145	45.0	8.0
## 1631	226.9	144	57.4	13.2
## 1632	187.0	65	44.0	10.0
## 1633	170.5	113	46.0	11.2
## 1634	204.8	101	49.0	9.5
## 1635	165.9	114	49.0	12.0

## 1636	154.0	133	44.0	9.5
## 1637	158.1	104	79.0	8.9
## 1638	225.2	93	61.5	9.1
## 1639	159.4	79	43.0	9.7
## 1640	172.7	95	44.0	11.7
## 1641	222.8	99	54.1	11.0
## 1642	214.1	77	57.0	10.1
## 1643	54.8	92	25.0	7.5
## 1644	134.0	104	38.0	7.3
## 1645	184.8	74	47.0	10.5
## 1646	283.1	112	103.5	11.3
## 1647	291.8	143	68.0	9.9
## 1648	222.7	94	50.0	13.5
## 1649	174.5	79	50.0	8.5
## 1650	68.4	86	29.0	10.4
## 1651	273.0	78	90.9	9.6
## 1652	225.3	134	48.0	17.3
## 1653	283.2	130	81.4	7.2
## 1654	131.4	78	42.0	11.1
## 1655	89.7	87	56.9	10.7
## 1656	127.1	102	43.0	5.0
## 1657	105.9	132	66.9	10.7
## 1658	142.3	79	41.0	6.0
## 1659	191.3	80	47.5	6.4
## 1660	201.9	93	85.0	13.7
## 1661	247.3	91	61.6	14.7
## 1662	242.2	96	79.0	8.9
## 1663	127.3	80	42.2	13.7
## 1664	162.0	104	49.0	10.9
## 1665	179.1	93	79.6	10.6
## 1666	197.4	125	78.2	12.3
## 1667	148.2	82	54.9	6.4
## 1668	193.1	85	48.0	10.2
## 1669	171.7	99	46.6	7.8
## 1670	198.5	123	78.9	8.1
## 1671	121.7	87	71.3	12.7
## 1672	130.2	105	47.6	14.0
## 1673	203.4	96	49.0	13.7
## 1674	174.7	83	54.0	10.5
## 1675	241.0	120	64.4	9.9
## 1676	141.7	95	45.1	10.2
## 1677	134.8	96	38.0	7.7
## 1678	163.1	119	49.0	9.0
## 1679	145.5	116	48.1	8.9
## 1680	329.8	73	74.0	10.6
## 1681	194.5	97	49.0	12.7
## 1682	131.9	93	46.0	7.1
## 1683	150.0	91	63.0	8.5
## 1684	196.6	93	88.8	12.9
## 1685	99.7	107	30.0	14.1
## 1686	143.6	88	39.7	10.8
## 1687	231.9	56	91.2	12.3
## 1688	37.8	80	20.0	14.2
## 1689	72.8	107	29.0	10.5

## 1690	94.8	89	65.8	11.4
## 1691	221.8	143	89.5	12.4
## 1692	269.0	120	66.0	7.3
## 1693	268.3	114	65.1	6.3
## 1694	198.7	127	88.8	12.5
## 1695	115.5	75	39.0	11.5
## 1696	202.1	100	51.0	13.3
## 1697	215.6	113	54.0	12.4
## 1698	169.9	107	47.0	11.5
## 1699	201.7	85	49.0	6.0
## 1700	221.1	133	52.0	8.4
## 1701	218.7	117	72.4	9.4
## 1702	293.7	89	76.9	11.0
## 1703	120.3	108	41.0	7.7
## 1704	175.8	96	78.0	11.1
## 1705	278.5	95	68.0	11.6
## 1706	236.3	105	76.4	7.2
## 1707	273.8	113	57.0	11.7
## 1708	131.1	129	36.0	5.6
## 1709	167.4	83	81.2	11.2
## 1710	197.7	68	55.0	10.5
## 1711	169.5	93	49.0	9.0
## 1712	225.2	116	85.6	11.7
## 1713	174.5	73	48.0	10.3
## 1714	129.7	84	41.6	7.5
## 1715	200.0	66	44.0	11.4
## 1716	95.9	87	74.9	13.3
## 1717	152.8	110	71.6	9.1
## 1718	129.9	102	40.0	14.3
## 1719	268.4	85	59.0	9.7
## 1720	188.5	152	45.0	15.2
## 1721	170.6	97	45.4	6.1
## 1722	191.4	124	50.0	8.2
## 1723	75.3	96	29.0	12.3
## 1724	149.8	123	53.0	10.9
## 1725	115.9	87	30.0	7.1
## 1726	128.8	86	40.0	14.1
## 1727	131.7	108	41.0	11.0
## 1728	101.4	48	31.0	12.2
## 1729	149.0	104	71.7	9.5
## 1730	96.8	123	67.2	13.4
## 1731	107.5	121	41.0	12.6
## 1732	232.8	95	66.0	12.9
## 1733	121.1	105	65.4	8.3
## 1734	124.3	70	45.0	3.5
## 1735	157.7	101	53.0	13.8
## 1736	124.3	68	39.0	14.8
## 1737	286.4	125	67.0	6.9
## 1738	141.7	95	42.0	8.8
## 1739	173.0	91	64.0	4.8
## 1740	268.7	120	72.0	5.8
## 1741	218.5	130	74.4	9.4
## 1742	255.3	114	60.0	3.7
## 1743	41.9	124	26.0	11.4

## 1744	260.8	87	67.0	5.8
## 1745	239.4	94	83.8	7.7
## 1746	226.7	94	56.3	10.2
## 1747	179.3	147	49.0	13.5
## 1748	158.0	110	44.0	10.0
## 1749	175.7	82	90.1	14.1
## 1750	157.4	107	42.0	8.8
## 1751	113.1	74	34.0	6.9
## 1752	182.7	142	53.0	8.8
## 1753	161.3	83	40.1	14.1
## 1754	142.5	92	42.0	7.5
## 1755	190.5	108	58.8	9.7
## 1756	159.3	110	74.1	11.9
## 1757	153.8	106	61.8	9.2
## 1758	180.7	127	46.0	12.0
## 1759	202.7	105	54.0	12.1
## 1760	190.8	100	79.0	8.9
## 1761	205.1	102	58.1	9.2
## 1762	235.6	124	81.8	7.7
## 1763	189.3	77	46.0	7.4
## 1764	166.9	101	83.1	11.5
## 1765	245.2	87	64.0	7.5
## 1766	132.6	125	42.0	12.7
## 1767	182.3	64	43.0	11.6
## 1768	192.3	86	69.4	10.5
## 1769	122.0	110	40.0	10.8
## 1770	193.0	101	55.0	9.6
## 1771	158.6	112	46.0	9.1
## 1772	91.5	125	69.3	12.7
## 1773	153.6	92	45.9	12.5
## 1774	221.6	79	83.1	11.5
## 1775	244.7	81	59.0	6.6
## 1776	239.8	103	91.7	9.5
## 1777	172.4	132	49.0	11.0
## 1778	242.5	83	63.0	10.0
## 1779	117.6	82	64.5	11.3
## 1780	174.5	127	52.0	11.3
## 1781	157.3	83	46.0	12.0
## 1782	192.0	97	93.8	15.1
## 1783	218.2	76	52.0	8.0
## 1784	144.6	97	66.4	10.9
## 1785	153.6	108	46.0	14.1
## 1786	135.8	104	63.3	7.9
## 1787	160.7	69	40.0	8.2
## 1788	202.5	91	76.1	7.8
## 1789	152.2	119	79.2	12.3
## 1790	227.4	90	45.0	4.7
## 1791	191.6	115	51.0	9.2
## 1792	138.9	111	42.0	10.8
## 1793	127.0	102	41.8	6.1
## 1794	168.6	87	51.0	7.3
## 1795	286.6	73	68.0	11.5
## 1796	164.6	121	92.0	15.2
## 1797	144.0	90	39.4	13.0

## 1798	141.6	95	69.5	10.2
## 1799	204.3	65	56.0	12.0
## 1800	163.2	80	45.2	6.2
## 1801	225.0	110	60.0	10.7
## 1802	176.1	103	49.3	8.5
## 1803	254.2	78	100.3	13.8
## 1804	174.9	105	52.0	8.5
## 1805	187.3	118	46.0	9.6
## 1806	211.8	84	58.7	10.7
## 1807	241.9	102	52.0	11.7
## 1808	196.1	103	51.0	12.9
## 1809	231.3	100	58.0	12.4
## 1810	161.6	104	49.2	13.8
## 1811	194.0	103	54.0	11.9
## 1812	109.7	148	38.0	15.4
## 1813	277.0	119	70.0	8.3
## 1814	192.1	83	48.5	6.1
## 1815	198.4	147	53.0	13.1
## 1816	209.2	82	75.7	9.5
## 1817	184.8	98	50.0	18.4
## 1818	167.8	119	41.0	7.3
## 1819	139.2	140	40.0	11.8
## 1820	221.3	82	63.9	4.4
## 1821	121.6	84	35.0	8.9
## 1822	270.4	99	108.6	15.4
## 1823	139.6	94	45.0	8.8
## 1824	253.0	78	86.9	11.8
## 1825	183.9	83	92.5	15.0
## 1826	203.3	108	57.0	7.8
## 1827	200.6	106	48.0	7.7
## 1828	167.6	96	44.0	13.4
## 1829	156.5	67	44.0	9.9
## 1830	215.1	140	82.6	10.6
## 1831	301.7	82	68.1	10.5
## 1832	152.3	90	79.5	11.3
## 1833	195.4	116	52.0	15.1
## 1834	208.7	97	59.0	8.0
## 1835	190.1	87	90.3	14.2
## 1836	185.4	87	68.6	8.0
## 1837	183.2	95	79.2	9.7
## 1838	54.2	100	35.0	8.6
## 1839	208.0	115	73.9	8.1
## 1840	230.3	110	46.0	13.2
## 1841	240.8	102	67.2	7.1
## 1842	195.7	119	57.3	5.3
## 1843	276.1	82	69.0	8.9
## 1844	166.1	93	44.0	16.2
## 1845	135.9	117	75.1	11.5
## 1846	189.1	122	52.0	13.9
## 1847	177.9	117	77.1	11.5
## 1848	143.9	73	76.8	12.5
## 1849	148.2	138	39.0	8.6
## 1850	287.1	115	63.0	13.9
## 1851	179.7	144	75.1	9.3

## 1852	165.8	96	45.0	10.9
## 1853	144.1	144	78.2	14.5
## 1854	172.5	85	51.0	5.9
## 1855	199.8	138	49.0	5.5
## 1856	109.1	134	31.0	10.9
## 1857	171.8	106	55.0	9.7
## 1858	222.3	101	63.0	12.1
## 1859	245.8	102	65.0	11.2
## 1860	164.6	110	51.0	8.0
## 1861	211.7	107	63.6	7.4
## 1862	147.2	103	59.8	7.7
## 1863	254.7	103	65.0	8.0
## 1864	170.1	113	53.0	8.7
## 1865	195.1	91	60.1	11.4
## 1866	149.3	83	42.0	7.9
## 1867	81.9	75	36.0	8.9
## 1868	191.1	109	72.5	9.8
## 1869	206.9	115	55.0	8.3
## 1870	239.0	156	64.0	13.5
## 1871	179.3	97	55.5	8.0
## 1872	185.3	91	51.0	5.5
## 1873	141.4	80	35.0	8.1
## 1874	248.6	91	85.4	12.0
## 1875	152.5	131	48.0	4.9
## 1876	145.6	102	47.8	11.4
## 1877	164.2	116	45.0	8.1
## 1878	221.0	115	52.0	9.7
## 1879	295.4	126	70.0	11.5
## 1880	139.8	98	39.0	9.4
## 1881	162.3	99	42.6	14.8
## 1882	272.7	97	67.0	7.7
## 1883	200.3	75	88.8	12.9
## 1884	157.1	77	72.0	11.1
## 1885	135.8	60	74.2	12.3
## 1886	236.7	110	61.6	12.7
## 1887	111.4	133	36.1	5.5
## 1888	156.1	89	75.7	14.7
## 1889	191.1	93	57.0	12.0
## 1890	153.0	123	38.0	10.3
## 1891	218.8	123	58.0	10.3
## 1892	205.4	101	47.0	10.3
## 1893	225.2	111	54.0	9.9
## 1894	249.9	127	65.0	8.9
## 1895	131.6	89	39.1	10.2
## 1896	197.9	99	75.3	10.1
## 1897	166.5	129	47.0	9.9
## 1898	225.4	79	89.8	12.9
## 1899	275.8	103	63.0	7.4
## 1900	142.9	105	61.2	10.8
## 1901	207.2	113	57.0	9.9
## 1902	206.2	100	53.0	10.2
## 1903	210.3	66	53.0	11.2
## 1904	225.7	117	86.8	14.0
## 1905	167.8	91	85.2	14.5

## 1906	197.7	118	47.0	7.0
## 1907	169.8	105	64.4	10.9
## 1908	190.6	104	79.5	9.8
## 1909	80.3	140	61.6	12.8
## 1910	231.7	110	91.7	12.1
## 1911	69.1	114	32.0	6.5
## 1912	188.8	60	51.0	8.2
## 1913	150.6	125	40.0	10.4
## 1914	192.0	89	47.8	5.5
## 1915	163.7	78	64.7	9.9
## 1916	211.7	100	53.0	6.5
## 1917	175.5	103	42.0	11.8
## 1918	150.1	120	43.0	11.0
## 1919	189.5	99	48.0	14.2
## 1920	70.8	94	31.0	9.5
## 1921	215.5	102	56.5	8.6
## 1922	101.7	105	35.0	9.4
## 1923	258.4	132	57.3	9.7
## 1924	242.4	126	55.0	11.8
## 1925	131.8	82	47.0	11.3
## 1926	190.2	102	52.6	9.8
## 1927	154.1	104	44.0	9.8
## 1928	188.0	127	40.0	15.3
## 1929	103.1	70	41.0	11.2
## 1930	175.4	130	44.0	11.6
## 1931	145.4	93	43.0	10.9
## 1932	250.6	85	59.0	7.8
## 1933	161.5	123	46.0	8.6
## 1934	260.1	101	67.0	10.0
## 1935	281.3	124	74.0	8.7
## 1936	130.1	90	73.7	13.6
## 1937	102.0	118	27.0	11.4
## 1938	218.7	104	83.7	12.1
## 1939	128.5	86	56.4	6.8
## 1940	128.7	100	42.0	9.2
## 1941	172.2	92	47.6	8.7
## 1942	199.2	124	45.0	7.6
## 1943	184.5	98	49.0	8.8
## 1944	168.6	99	44.0	10.9
## 1945	174.0	118	66.1	6.7
## 1946	230.4	65	62.0	8.5
## 1947	198.2	73	51.0	5.1
## 1948	186.1	96	50.0	8.0
## 1949	148.5	105	46.0	6.8
## 1950	157.1	109	50.0	10.0
## 1951	155.0	110	38.0	7.0
## 1952	129.3	123	62.9	9.6
## 1953	188.5	77	48.0	6.1
## 1954	208.8	120	55.0	11.1
## 1955	238.0	82	65.0	11.8
## 1956	211.1	103	54.0	5.6
## 1957	198.9	87	86.0	12.6
## 1958	212.8	79	57.3	10.2
## 1959	137.4	126	34.0	12.4

## 1960	191.8	75	90.6	12.8
## 1961	149.0	92	30.0	13.9
## 1962	117.1	118	42.0	11.1
## 1963	108.0	79	39.0	10.4
## 1964	112.8	133	37.0	10.1
## 1965	175.9	105	49.3	11.0
## 1966	236.6	109	55.0	11.1
## 1967	169.4	102	45.0	2.0
## 1968	129.6	79	45.8	9.4
## 1969	177.1	97	46.0	8.0
## 1970	133.3	63	75.5	13.5
## 1971	167.8	121	49.4	13.0
## 1972	174.6	107	81.3	9.0
## 1973	150.3	101	48.0	12.5
## 1974	283.2	110	86.0	6.3
## 1975	157.8	83	64.5	8.7
## 1976	141.2	132	37.0	7.0
## 1977	230.2	106	84.1	10.4
## 1978	237.8	92	61.6	15.6
## 1979	204.0	84	49.0	13.3
## 1980	221.1	106	53.0	7.4
## 1981	177.2	93	43.0	12.7
## 1982	118.0	133	42.0	5.3
## 1983	163.8	73	50.0	15.7
## 1984	141.3	96	69.4	9.4
## 1985	272.5	119	66.0	16.4
## 1986	118.9	112	62.1	8.2
## 1987	7.9	100	15.7	12.1
## 1988	159.5	96	43.9	10.2
## 1989	150.2	70	46.2	12.1
## 1990	144.5	35	79.4	12.0
## 1991	140.7	88	42.0	12.4
## 1992	169.2	123	48.0	12.6
## 1993	220.8	77	53.8	7.6
## 1994	216.3	96	63.5	4.5
## 1995	169.5	96	43.0	10.6
## 1996	256.3	119	97.6	11.7
## 1997	179.7	128	57.0	7.6
## 1998	266.0	120	57.0	13.1
## 1999	96.7	97	33.0	9.7
## 2000	82.7	116	31.0	10.9
## 2001	168.2	87	43.0	10.1
## 2002	286.4	109	64.0	10.7
## 2003	174.3	95	46.0	12.9
## 2004	190.6	100	47.0	13.0
## 2005	175.5	86	50.1	17.8
## 2006	133.4	102	41.0	11.1
## 2007	204.6	96	64.8	6.6
## 2008	242.2	88	61.0	6.2
## 2009	253.1	112	93.1	11.9
## 2010	130.0	110	38.0	8.3
## 2011	105.9	151	35.0	12.7
## 2012	194.2	98	50.0	9.3
## 2013	183.8	111	42.0	6.1

## 2014	196.5	82	52.5	10.8
## 2015	184.5	81	46.0	13.7
## 2016	261.9	113	58.0	13.8
## 2017	202.4	118	59.3	9.2
## 2018	167.4	113	69.7	9.5
## 2019	167.7	104	70.3	7.5
## 2020	191.7	109	79.0	11.1
## 2021	240.2	78	61.0	5.2
## 2022	189.1	112	78.0	11.1
## 2023	127.7	67	38.0	10.6
## 2024	205.2	106	44.0	13.4
## 2025	153.6	93	79.0	12.6
## 2026	154.5	129	45.3	13.4
## 2027	153.7	109	43.0	14.1
## 2028	171.2	138	74.2	10.8
## 2029	328.1	106	71.9	8.7
## 2030	145.9	69	46.6	14.4
## 2031	201.2	76	90.9	11.8
## 2032	139.1	72	45.0	11.4
## 2033	118.9	128	44.0	13.2
## 2034	217.6	87	64.3	10.4
## 2035	145.0	133	43.0	14.6
## 2036	203.5	89	60.0	8.7
## 2037	240.1	115	57.0	8.0
## 2038	83.8	121	35.0	6.7
## 2039	269.8	106	70.5	10.1
## 2040	126.3	84	68.6	10.6
## 2041	88.1	125	56.2	9.7
## 2042	218.5	61	80.7	9.9
## 2043	236.8	61	93.2	11.2
## 2044	124.1	117	40.6	6.4
## 2045	184.2	132	73.0	10.0
## 2046	222.7	133	62.0	13.6
## 2047	149.2	98	42.0	11.1
## 2048	206.5	125	51.0	12.2
## 2049	159.7	102	67.9	9.6
## 2050	204.7	118	71.9	7.0
## 2051	213.2	79	50.2	7.5
## 2052	269.6	121	61.0	8.2
## 2053	116.7	92	39.0	9.7
## 2054	263.4	101	65.0	13.0
## 2055	140.2	97	43.0	7.1
## 2056	197.7	101	45.0	13.5
## 2057	136.2	92	45.1	13.3
## 2058	88.5	87	62.1	11.5
## 2059	215.3	58	58.0	12.1
## 2060	269.2	104	65.8	8.9
## 2061	203.8	118	77.7	7.3
## 2062	268.4	112	92.8	10.3
## 2063	159.1	104	50.0	10.3
## 2064	114.4	122	33.8	10.1
## 2065	138.9	65	42.0	9.2
## 2066	186.0	55	52.0	12.2
## 2067	170.4	91	91.8	15.1

## 2068	164.5	95	48.0	9.9
## 2069	168.6	121	43.0	12.3
## 2070	261.2	119	69.1	9.8
## 2071	190.5	91	48.0	13.1
## 2072	181.1	121	58.0	4.2
## 2073	177.1	131	40.0	6.5
## 2074	160.5	114	48.0	11.3
## 2075	134.7	116	48.0	6.6
## 2076	198.2	107	69.8	8.8
## 2077	228.9	134	61.0	10.1
## 2078	241.7	137	53.0	13.1
## 2079	131.1	108	38.0	4.3
## 2080	234.1	101	57.0	13.1
## 2081	200.1	72	60.0	11.9
## 2082	154.0	107	35.0	10.1
## 2083	224.2	106	81.5	9.8
## 2084	148.3	83	41.0	8.3
## 2085	174.6	76	68.8	8.8
## 2086	138.5	110	37.0	11.1
## 2087	109.0	69	42.0	12.6
## 2088	162.3	99	46.0	11.1
## 2089	210.8	84	52.0	16.4
## 2090	142.4	107	52.0	11.1
## 2091	223.5	104	86.6	10.6
## 2092	182.5	65	51.0	7.5
## 2093	219.6	97	50.0	10.8
## 2094	193.6	66	54.0	12.9
## 2095	192.4	111	47.0	11.0
## 2096	236.2	122	60.3	13.3
## 2097	233.2	88	93.5	16.1
## 2098	158.8	53	44.0	9.8
## 2099	126.1	112	45.0	9.8
## 2100	290.4	108	71.0	10.1
## 2101	60.6	113	60.9	13.3
## 2102	148.4	95	42.0	6.9
## 2103	246.5	108	61.0	12.7
## 2104	298.1	112	71.2	9.7
## 2105	119.3	82	37.0	10.9
## 2106	242.5	82	64.8	9.6
## 2107	222.1	89	88.7	13.6
## 2108	236.2	135	64.0	10.1
## 2109	144.2	87	43.0	9.5
## 2110	154.6	100	81.0	12.6
## 2111	137.4	100	66.5	10.2
## 2112	103.7	93	29.0	14.4
## 2113	136.6	112	42.0	12.2
## 2114	289.8	101	71.0	11.7
## 2115	260.9	85	59.0	13.3
## 2116	196.2	129	49.0	15.2
## 2117	195.6	71	44.0	14.2
## 2118	222.2	96	52.0	11.9
## 2119	172.9	119	45.0	9.8
## 2120	249.8	109	64.0	11.6
## 2121	154.5	84	45.0	13.7

## 2122	90.4	108	39.0	12.7
## 2123	268.8	78	111.3	16.4
## 2124	106.1	95	32.0	8.1
## 2125	27.0	117	22.8	10.7
## 2126	140.1	59	53.3	3.8
## 2127	245.0	112	57.0	9.7
## 2128	196.7	85	51.0	11.2
## 2129	131.2	98	59.5	10.2
## 2130	149.6	96	66.0	7.4
## 2131	239.8	70	65.4	10.9
## 2132	142.1	77	70.7	11.0
## 2133	115.4	137	35.0	6.0
## 2134	193.0	99	79.8	10.3
## 2135	206.1	49	55.0	13.0
## 2136	160.3	138	49.1	11.2
## 2137	199.9	108	59.0	11.3
## 2138	213.1	105	56.8	8.9
## 2139	178.3	102	51.0	10.9
## 2140	252.3	120	61.0	12.0
## 2141	197.7	64	46.0	13.2
## 2142	111.1	105	55.8	6.6
## 2143	96.5	86	35.0	12.5
## 2144	156.9	109	41.1	11.3
## 2145	123.3	78	36.0	12.7
## 2146	193.7	108	52.3	10.8
## 2147	206.9	134	50.0	10.9
## 2148	249.8	96	65.0	12.7
## 2149	144.0	102	47.0	10.0
## 2150	299.5	83	96.3	11.6
## 2151	226.0	127	67.3	12.6
## 2152	137.6	106	36.0	9.6
## 2153	211.7	121	78.0	11.1
## 2154	89.7	80	34.8	9.5
## 2155	197.6	126	55.0	12.5
## 2156	270.0	102	68.0	12.0
## 2157	224.7	116	55.0	11.3
## 2158	194.3	99	44.0	10.2
## 2159	47.7	89	31.0	13.2
## 2160	190.1	105	48.0	13.0
## 2161	89.5	94	45.0	7.9
## 2162	182.6	83	45.0	12.1
## 2163	205.5	86	79.6	6.9
## 2164	231.5	82	63.0	7.4
## 2165	251.3	69	65.0	9.9
## 2166	171.2	103	50.0	13.0
## 2167	197.9	89	57.6	11.2
## 2168	134.8	94	41.0	6.7
## 2169	191.4	114	47.0	10.3
## 2170	174.5	65	47.0	10.6
## 2171	177.4	125	53.1	10.9
## 2172	182.1	89	52.1	6.8
## 2173	222.4	85	52.0	11.2
## 2174	47.8	120	24.0	13.3
## 2175	121.8	97	31.8	10.3

## 2176	143.5	121	41.0	8.8
## 2177	164.9	68	46.0	7.8
## 2178	193.6	58	49.6	13.1
## 2179	101.1	121	40.0	7.3
## 2180	92.3	88	64.3	11.6
## 2181	168.9	128	40.0	2.9
## 2182	219.2	102	95.5	15.0
## 2183	178.1	130	86.1	13.0
## 2184	146.5	101	50.0	14.0
## 2185	172.3	116	83.9	11.8
## 2186	190.9	143	46.0	13.0
## 2187	232.1	74	68.0	10.9
## 2188	169.2	124	44.0	12.4
## 2189	123.8	107	49.0	7.3
## 2190	96.0	117	34.6	9.7
## 2191	93.4	106	67.4	10.9
## 2192	90.6	130	30.0	5.4
## 2193	152.9	81	48.0	5.3
## 2194	257.9	92	64.6	9.4
## 2195	85.2	98	59.3	9.0
## 2196	160.0	72	59.5	6.1
## 2197	182.9	54	87.1	11.5
## 2198	216.2	67	56.0	3.1
## 2199	261.7	105	60.0	3.3
## 2200	241.2	105	56.0	8.5
## 2201	177.2	142	41.0	8.4
## 2202	89.5	128	31.0	14.0
## 2203	200.3	72	79.1	10.4
## 2204	145.0	103	50.0	11.0
## 2205	159.5	99	40.6	6.8
## 2206	151.8	106	38.0	11.2
## 2207	176.2	120	51.0	10.6
## 2208	152.1	95	39.3	9.8
## 2209	161.3	122	47.0	9.6
## 2210	171.7	78	42.0	6.8
## 2211	278.9	110	64.0	11.7
## 2212	213.0	121	86.0	11.1
## 2213	242.9	67	69.0	4.8
## 2214	217.2	121	65.0	12.4
## 2215	175.9	111	55.0	13.0
## 2216	303.2	133	67.0	11.5
## 2217	238.9	107	57.0	11.8
## 2218	189.6	42	78.8	11.4
## 2219	133.3	94	47.3	11.3
## 2220	92.7	107	53.7	9.9
## 2221	177.2	72	52.0	8.6
## 2222	184.5	103	50.0	10.2
## 2223	176.1	109	76.7	12.1
## 2224	204.7	108	50.5	11.0
## 2225	143.6	80	36.0	15.5
## 2226	179.3	93	47.0	12.1
## 2227	137.3	100	42.0	10.5
## 2228	237.8	92	60.0	10.2
## 2229	203.7	92	56.4	7.6

## 2230	191.3	95	101.5	17.6
## 2231	209.1	141	55.5	7.8
## 2232	88.8	104	44.2	7.1
## 2233	97.2	88	30.0	12.4
## 2234	137.9	96	40.0	11.0
## 2235	224.3	112	57.2	10.0
## 2236	207.6	65	75.2	9.7
## 2237	268.1	95	56.0	14.4
## 2238	166.7	61	44.0	6.8
## 2239	267.1	104	61.0	17.3
## 2240	181.8	108	48.0	9.3
## 2241	147.1	80	42.0	13.7
## 2242	37.7	115	32.2	4.9
## 2243	185.0	88	54.4	11.4
## 2244	156.4	108	45.0	8.6
## 2245	239.3	84	58.0	10.9
## 2246	215.5	129	74.8	8.8
## 2247	134.9	70	41.0	11.3
## 2248	194.8	116	51.0	12.8
## 2249	239.1	105	94.9	13.3
## 2250	92.6	85	31.0	14.4
## 2251	209.4	133	56.6	7.2
## 2252	197.6	83	48.0	6.4
## 2253	17.6	121	17.0	10.6
## 2254	62.9	112	28.0	8.9
## 2255	202.3	97	59.1	6.7
## 2256	136.1	116	39.0	11.3
## 2257	207.0	109	50.0	2.6
## 2258	207.9	95	92.5	13.5
## 2259	276.5	122	64.0	7.2
## 2260	313.8	87	93.3	10.1
## 2261	288.5	114	102.1	13.0
## 2262	210.9	85	67.3	9.4
## 2263	64.9	76	66.4	14.6
## 2264	243.5	137	86.3	9.0
## 2265	197.0	97	53.7	8.7
## 2266	278.0	88	92.5	8.7
## 2267	219.9	102	84.0	10.0
## 2268	313.2	103	72.0	12.8
## 2269	145.7	88	72.5	11.3
## 2270	75.8	102	50.1	8.2
## 2271	195.9	86	53.0	12.2
## 2272	132.0	95	43.0	8.7
## 2273	124.0	102	44.0	11.7
## 2274	171.9	98	43.0	7.6
## 2275	249.4	70	87.7	9.9
## 2276	228.4	100	52.0	7.7
## 2277	168.6	71	50.9	5.9
## 2278	123.7	138	45.9	13.3
## 2279	178.7	61	54.8	8.4
## 2280	113.2	86	36.0	9.5
## 2281	142.4	106	87.2	13.4
## 2282	204.2	57	75.4	8.3
## 2283	149.7	71	44.0	12.6

##	2284	227.1	116	52.8	4.7
##	2285	155.3	75	41.0	12.6
##	2286	156.4	105	43.0	11.8
##	2287	148.7	105	68.1	10.4
##	2288	271.7	112	60.0	6.6
##	2289	193.7	74	47.1	8.8
##	2290	245.5	54	96.2	10.8
##	2291	245.3	108	64.0	10.7
##	2292	196.1	87	54.0	11.9
##	2293	134.1	112	40.0	10.5
##	2294	225.0	78	79.6	9.1
##	2295	189.7	100	43.0	7.4
##	2296	142.9	96	42.6	6.6
##	2297	175.6	80	51.0	10.2
##	2298	92.4	109	35.0	12.9
##	2299	92.8	92	30.0	8.8
##	2300	221.7	100	79.6	8.0
##	2301	159.6	94	51.0	8.8
##	2302	144.5	107	40.0	17.0
##	2303	159.1	100	49.1	11.5
##	2304	49.9	123	25.2	10.1
##	2305	116.9	120	69.7	11.0
##	2306	150.0	98	34.0	11.1
##	2307	254.4	120	57.0	6.0
##	2308	270.7	53	93.4	10.9
##	2309	207.0	112	50.0	12.1
##	2310	145.3	89	51.0	8.9
##	2311	230.7	102	96.5	13.5
##	2312	151.5	104	47.0	10.8
##	2313	146.1	57	45.7	9.2
##	2314	256.0	111	60.0	11.5
##	2315	200.2	105	86.3	11.6
##	2316	150.7	52	50.3	7.0
##	2317	186.0	107	38.0	12.9
##	2318	212.9	110	53.0	6.3
##	2319	194.8	133	52.0	11.5
##	2320	272.5	105	91.5	8.7
##	2321	135.1	109	41.0	11.7
##	2322	154.6	56	51.9	15.5
##	2323	230.5	116	90.6	10.6
##	2324	165.4	84	46.0	8.2
##	2325	143.3	120	44.0	7.8
##	2326	271.1	108	67.0	9.8
##	2327	253.5	104	54.0	14.0
##	2328	167.1	77	43.1	9.4
##	2329	168.3	96	37.0	8.4
##	2330	104.7	115	42.1	8.9
##	2331	135.4	101	44.0	10.6
##	2332	191.4	102	83.4	7.2
##	2333	158.7	90	44.0	10.5
##	2334	144.8	84	41.1	8.2
##	2335	98.8	97	30.0	10.0
##	2336	157.8	71	45.0	10.0
##	2337	163.0	107	86.3	11.6

## 2338	181.6	119	60.0	8.3
## 2339	129.0	78	41.1	11.2
## 2340	86.0	83	39.7	8.9
## 2341	193.9	71	84.0	12.6
## 2342	109.4	107	42.5	7.1
## 2343	188.9	105	46.0	10.2
## 2344	179.9	72	46.0	13.8
## 2345	183.4	98	56.0	8.2
## 2346	288.1	101	61.0	0.0
## 2347	169.2	96	42.0	4.6
## 2348	195.5	113	84.5	13.5
## 2349	264.4	102	94.5	11.3
## 2350	207.7	116	54.0	9.6
## 2351	169.5	151	42.4	8.7
## 2352	141.5	102	47.0	3.4
## 2353	154.8	71	48.0	12.8
## 2354	133.5	51	43.7	11.7
## 2355	273.2	85	65.0	13.1
## 2356	224.6	94	58.0	12.5
## 2357	273.8	97	72.0	5.8
## 2358	159.5	103	51.0	10.1
## 2359	104.0	92	35.0	14.6
## 2360	115.4	90	74.4	13.1
## 2361	222.1	107	55.0	9.4
## 2362	116.4	98	31.3	10.5
## 2363	217.7	118	59.5	0.0
## 2364	129.4	84	36.0	13.3
## 2365	161.8	73	88.0	13.7
## 2366	198.8	122	86.1	11.5
## 2367	147.8	85	75.8	14.0
## 2368	262.3	114	62.0	6.6
## 2369	246.4	83	56.0	7.6
## 2370	174.3	123	42.0	9.0
## 2371	183.4	111	46.0	9.9
## 2372	191.9	95	50.0	18.2
## 2373	187.8	109	46.0	10.1
## 2374	259.7	106	60.4	10.2
## 2375	180.4	123	48.0	8.4
## 2376	51.8	107	32.1	10.4
## 2377	303.9	106	72.0	5.8
## 2378	123.7	125	59.8	8.8
## 2379	206.2	122	50.0	12.6
## 2380	164.3	92	48.0	11.8
## 2381	228.6	117	51.0	10.1
## 2382	200.4	80	66.5	7.6
## 2383	154.3	107	42.0	10.9
## 2384	122.9	93	66.9	9.6
## 2385	220.8	100	63.3	6.4
## 2386	214.6	78	58.0	13.9
## 2387	202.0	123	51.0	7.4
## 2388	209.5	108	69.6	9.1
## 2389	297.9	141	71.0	8.9
## 2390	212.8	102	55.4	10.6
## 2391	145.6	102	49.0	12.2

## 2392	152.9	87	74.2	10.8
## 2393	125.4	158	45.0	11.0
## 2394	138.3	96	53.4	8.3
## 2395	189.3	157	51.1	11.2
## 2396	199.3	86	51.0	14.3
## 2397	247.5	99	55.2	10.6
## 2398	294.9	71	67.0	13.2
## 2399	175.4	99	44.0	11.5
## 2400	179.4	70	43.0	11.2
## 2401	126.8	94	69.7	8.4
## 2402	239.7	87	65.0	11.4
## 2403	143.0	101	84.3	15.3
## 2404	91.9	109	33.0	13.0
## 2405	210.4	80	54.3	15.5
## 2406	201.3	130	69.3	6.4
## 2407	145.6	59	50.0	9.2
## 2408	203.5	82	88.2	13.4
## 2409	232.4	76	56.4	10.5
## 2410	86.5	119	62.5	8.7
## 2411	109.9	102	38.0	10.9
## 2412	156.0	88	51.3	9.3
## 2413	326.3	112	70.0	7.5
## 2414	195.0	58	51.0	14.8
## 2415	110.0	91	32.0	6.4
## 2416	147.1	119	39.0	9.0
## 2417	156.0	141	49.0	11.9
## 2418	98.2	99	36.6	9.3
## 2419	210.6	120	51.6	11.0
## 2420	239.9	120	64.0	8.9
## 2421	159.9	94	43.0	11.6
## 2422	197.8	66	46.0	10.9
## 2423	115.4	98	75.0	15.2
## 2424	123.8	113	42.0	3.7
## 2425	117.6	97	54.3	6.4
## 2426	105.3	82	58.2	8.6
## 2427	111.7	121	40.0	13.1
## 2428	159.3	104	45.0	9.5
## 2429	81.7	123	32.0	11.3
## 2430	238.0	88	86.0	10.0
## 2431	128.1	99	85.1	15.6
## 2432	171.2	104	73.5	10.2
## 2433	109.0	88	41.0	13.3
## 2434	220.0	114	56.0	12.1
## 2435	55.6	65	31.0	11.3
## 2436	286.6	79	103.8	10.3
## 2437	207.6	96	55.0	13.3
## 2438	109.6	108	62.4	8.3
## 2439	197.2	113	58.3	11.0
## 2440	175.7	120	45.0	14.6
## 2441	205.2	115	55.3	7.0
## 2442	193.1	104	75.7	12.1
## 2443	232.6	121	65.7	4.7
## 2444	102.7	89	33.2	11.0
## 2445	263.1	70	95.2	9.7

## 2446	197.0	79	54.1	11.6
## 2447	169.3	90	46.0	11.6
## 2448	201.5	123	49.1	12.9
## 2449	251.0	119	51.0	13.8
## 2450	230.4	117	59.0	7.6
## 2451	109.8	120	39.0	11.9
## 2452	279.5	118	65.0	10.7
## 2453	173.4	107	49.0	13.7
## 2454	214.4	93	82.0	10.0
## 2455	96.1	103	38.0	9.7
## 2456	101.4	145	39.0	7.1
## 2457	232.5	74	57.0	10.4
## 2458	174.5	120	81.9	12.2
## 2459	224.0	126	81.8	8.8
## 2460	211.1	99	55.0	14.7
## 2461	109.2	96	32.0	9.8
## 2462	220.0	95	53.0	11.5
## 2463	181.4	98	47.7	10.9
## 2464	180.7	82	73.3	10.1
## 2465	96.5	109	54.4	9.4
## 2466	183.5	93	46.0	8.3
## 2467	107.9	90	59.4	10.5
## 2468	161.0	96	51.6	7.7
## 2469	146.8	128	61.6	4.3
## 2470	149.2	146	40.0	8.3
## 2471	227.8	124	56.5	5.6
## 2472	160.3	87	65.0	7.4
## 2473	137.8	120	45.3	10.2
## 2474	141.7	87	70.0	8.5
## 2475	196.4	115	72.1	9.3
## 2476	175.2	74	43.0	5.3
## 2477	146.8	133	40.0	9.9
## 2478	173.9	111	54.0	9.1
## 2479	305.2	80	101.6	13.2
## 2480	162.3	91	83.6	11.7
## 2481	150.0	106	54.1	10.3
## 2482	197.5	114	54.4	11.3
## 2483	240.2	67	54.0	10.2
## 2484	186.2	117	91.8	12.9
## 2485	116.9	127	77.2	12.3
## 2486	236.7	95	95.4	12.0
## 2487	173.2	93	41.0	5.4
## 2488	152.2	114	40.5	9.8
## 2489	181.3	135	47.0	6.7
## 2490	167.8	72	47.0	10.5
## 2491	175.4	125	52.0	9.8
## 2492	87.6	112	40.8	9.8
## 2493	203.3	45	47.0	8.5
## 2494	92.6	95	30.0	11.3
## 2495	262.9	135	79.9	8.1
## 2496	160.8	91	41.0	8.5
## 2497	141.8	116	60.1	7.8
## 2498	50.6	62	37.3	4.2
## 2499	134.9	59	37.0	10.2

##	2500	252.1	110	63.0	13.8
##	2501	215.5	95	83.9	9.6
##	2502	124.8	66	44.0	13.4
##	2503	178.7	114	54.0	16.4
##	2504	183.2	131	50.7	9.9
##	2505	167.5	96	41.0	13.0
##	2506	147.1	105	46.0	12.5
##	2507	230.1	107	59.8	13.2
##	2508	135.8	125	37.0	12.6
##	2509	205.7	98	70.5	8.7
##	2510	73.8	105	25.0	10.9
##	2511	189.3	119	53.0	10.0
##	2512	147.2	115	39.0	7.2
##	2513	137.3	95	66.5	10.2
##	2514	70.7	125	31.7	0.0
##	2515	204.6	117	56.5	10.7
##	2516	123.1	88	40.0	12.0
##	2517	129.7	115	68.9	12.2
##	2518	198.7	70	54.6	12.4
##	2519	145.1	116	45.0	7.9
##	2520	135.2	101	36.0	8.4
##	2521	124.7	105	64.1	7.8
##	2522	215.9	76	50.0	12.1
##	2523	119.2	142	40.0	8.4
##	2524	144.3	116	40.6	7.8
##	2525	235.2	121	59.0	11.8
##	2526	174.0	57	55.3	9.7
##	2527	115.0	65	30.0	6.4
##	2528	151.7	93	43.1	13.1
##	2529	153.1	102	49.7	9.9
##	2530	218.6	93	52.7	9.2
##	2531	265.2	122	64.8	10.7
##	2532	143.3	134	44.0	10.1
##	2533	190.3	98	56.1	7.2
##	2534	184.7	60	54.0	12.3
##	2535	115.3	99	39.0	18.0
##	2536	113.0	108	37.2	9.2
##	2537	294.2	100	70.0	9.0
##	2538	215.6	86	51.0	6.4
##	2539	128.8	80	40.0	14.0
##	2540	211.2	117	91.9	10.7
##	2541	71.2	82	62.8	12.9
##	2542	94.9	121	40.2	14.2
##	2543	259.4	116	68.0	9.5
##	2544	215.8	123	79.6	6.9
##	2545	97.5	113	40.0	13.2
##	2546	146.5	121	40.0	8.2
##	2547	157.9	72	50.2	12.2
##	2548	139.9	117	46.1	12.7
##	2549	153.2	112	81.1	11.9
##	2550	103.5	134	48.1	8.4
##	2551	185.8	119	52.3	6.6
##	2552	129.5	56	53.0	10.9
##	2553	236.6	91	60.5	8.9

## 2554	260.4	107	65.4	10.0
## 2555	167.3	100	43.0	6.7
## 2556	182.2	101	51.7	9.3
## 2557	113.0	80	32.0	10.8
## 2558	185.7	133	54.1	16.9
## 2559	136.2	114	38.0	9.6
## 2560	222.6	81	86.1	11.5
## 2561	197.3	67	57.0	9.0
## 2562	141.4	130	60.8	7.7
## 2563	208.0	69	47.3	8.0
## 2564	118.5	92	38.4	12.1
## 2565	153.2	65	46.0	10.7
## 2566	108.3	87	35.0	13.5
## 2567	168.6	92	47.5	14.4
## 2568	247.2	116	68.0	9.3
## 2569	224.2	81	59.0	12.0
## 2570	166.9	98	48.0	12.8
## 2571	118.4	100	56.0	8.5
## 2572	190.9	62	52.0	7.8
## 2573	317.8	60	68.0	10.4
## 2574	312.0	112	69.0	12.8
## 2575	146.0	121	43.0	13.3
## 2576	131.6	95	38.0	15.5
## 2577	193.4	105	83.0	11.1
## 2578	185.1	92	50.0	8.5
## 2579	193.3	106	48.0	11.8
## 2580	146.4	107	42.0	7.8
## 2581	71.2	90	38.0	8.6
## 2582	123.2	104	38.0	12.9
## 2583	205.0	90	50.5	7.5
## 2584	128.7	78	43.0	12.8
## 2585	216.9	78	55.0	11.4
## 2586	150.0	122	45.0	9.8
## 2587	164.1	106	46.0	11.4
## 2588	212.0	113	57.7	8.9
## 2589	167.3	99	77.4	12.0
## 2590	154.4	130	45.0	13.9
## 2591	177.3	95	74.1	9.3
## 2592	231.2	141	63.0	8.8
## 2593	202.9	100	50.0	12.8
## 2594	149.6	120	43.0	14.3
## 2595	345.3	81	76.0	11.8
## 2596	264.9	80	69.0	8.4
## 2597	122.0	92	33.0	5.8
## 2598	177.2	88	54.0	14.0
## 2599	133.1	80	44.6	10.3
## 2600	225.1	90	63.0	8.8
## 2601	208.4	120	51.0	11.2
## 2602	173.1	107	82.1	11.5
## 2603	162.4	131	42.0	11.4
## 2604	281.2	93	80.3	6.4
## 2605	208.3	89	50.0	15.9
## 2606	243.4	126	103.1	14.1
## 2607	224.2	89	65.0	16.1

## 2608	189.3	100	53.0	9.9
## 2609	168.3	124	70.1	6.7
## 2610	232.9	90	81.9	10.7
## 2611	155.0	98	54.9	5.9
## 2612	154.4	130	44.0	11.8
## 2613	234.7	102	57.0	8.4
## 2614	240.0	88	53.0	7.1
## 2615	298.4	78	77.0	12.2
## 2616	166.0	102	49.0	10.9
## 2617	111.6	140	81.2	16.0
## 2618	174.5	98	45.0	10.7
## 2619	175.5	137	66.6	6.9
## 2620	157.5	109	73.0	11.1
## 2621	206.2	113	51.0	11.0
## 2622	207.5	138	73.3	7.5
## 2623	144.8	105	74.3	11.6
## 2624	258.8	85	56.0	10.9
## 2625	226.9	106	55.0	11.6
## 2626	152.9	119	41.0	12.0
## 2627	156.7	51	81.0	12.6
## 2628	150.8	85	51.0	12.5
## 2629	221.0	126	58.0	6.8
## 2630	322.4	92	97.1	6.7
## 2631	153.6	148	49.0	9.8
## 2632	215.1	91	82.5	12.4
## 2633	174.4	108	78.9	11.8
## 2634	180.5	126	52.9	10.6
## 2635	123.1	106	37.0	12.6
## 2636	165.7	94	53.1	10.0
## 2637	200.2	92	45.0	6.0
## 2638	154.8	82	51.0	5.9
## 2639	125.4	116	46.8	11.4
## 2640	184.2	111	90.9	12.2
## 2641	274.7	99	93.2	10.8
## 2642	142.0	140	75.5	11.3
## 2643	151.5	99	66.0	10.0
## 2644	124.8	114	33.0	10.6
## 2645	179.2	85	53.5	12.4
## 2646	246.4	110	58.0	12.1
## 2647	232.7	114	56.0	11.5
## 2648	288.0	120	71.0	13.4
## 2649	170.8	145	84.3	12.7
## 2650	216.1	114	54.0	9.8
## 2651	138.7	100	42.0	4.9
## 2652	210.7	112	59.1	9.2
## 2653	181.8	117	48.3	9.7
## 2654	61.6	103	66.5	12.4
## 2655	207.7	85	53.0	6.8
## 2656	219.2	73	56.0	10.0
## 2657	227.0	122	64.0	8.9
## 2658	245.9	73	63.0	8.9
## 2659	257.3	84	60.0	13.5
## 2660	121.1	130	39.0	16.1
## 2661	301.5	136	77.9	13.4

## 2662	233.9	96	59.0	9.5
## 2663	99.6	108	47.4	13.7
## 2664	169.8	123	45.0	12.7
## 2665	198.8	115	86.9	14.4
## 2666	116.2	86	40.0	10.1
## 2667	255.9	128	56.0	12.1
## 2668	187.7	84	78.0	10.0
## 2669	195.9	91	75.2	8.6
## 2670	129.4	97	38.0	1.1
## 2671	221.0	108	75.3	9.0
## 2672	140.5	92	40.0	9.5
## 2673	277.9	123	64.1	9.2
## 2674	224.9	105	60.0	6.7
## 2675	109.1	117	38.0	12.8
## 2676	207.8	109	46.0	5.7
## 2677	205.9	96	57.0	12.1
## 2678	308.6	139	69.4	7.3
## 2679	242.6	69	63.3	14.4
## 2680	229.6	82	51.0	3.3
## 2681	166.0	62	69.8	7.7
## 2682	144.8	126	44.1	13.3
## 2683	106.1	77	29.0	12.9
## 2684	221.8	84	52.0	13.2
## 2685	204.6	98	53.0	9.8
## 2686	213.5	93	54.1	14.1
## 2687	152.0	95	77.0	10.0
## 2688	260.8	81	104.9	17.0
## 2689	166.4	117	56.0	10.0
## 2690	177.9	83	45.0	15.2
## 2691	235.1	97	57.0	7.0
## 2692	186.8	92	47.0	9.7
## 2693	268.4	81	61.0	11.6
## 2694	192.1	95	54.0	7.3
## 2695	240.7	82	64.0	10.1
## 2696	179.9	113	46.8	9.8
## 2697	314.1	86	73.0	12.3
## 2698	162.0	82	88.1	11.9
## 2699	175.8	89	54.0	12.4
## 2700	109.4	91	37.0	11.6
## 2701	255.1	124	63.0	8.5
## 2702	208.7	84	53.8	8.3
## 2703	214.6	108	66.3	7.9
## 2704	49.2	121	21.0	12.1
## 2705	141.3	133	38.0	11.2
## 2706	253.2	89	67.7	9.7
## 2707	206.0	128	52.0	13.2
## 2708	40.4	105	22.0	9.0
## 2709	291.2	104	70.0	8.9
## 2710	71.2	58	54.6	11.7
## 2711	261.8	69	66.0	14.7
## 2712	191.3	134	55.0	10.0
## 2713	133.3	101	45.0	11.6
## 2714	183.6	138	65.2	6.0
## 2715	155.2	116	84.6	15.4

## 2716	283.1	93	80.5	6.1
## 2717	186.5	94	79.7	12.1
## 2718	163.3	104	51.6	4.3
## 2719	203.4	125	51.0	13.8
## 2720	178.1	110	76.0	10.0
## 2721	195.9	103	41.0	10.3
## 2722	295.3	127	64.9	9.6
## 2723	136.1	82	40.9	10.1
## 2724	114.1	95	69.1	13.0
## 2725	279.1	124	63.0	9.5
## 2726	169.3	111	41.0	12.0
## 2727	214.4	94	51.6	9.9
## 2728	255.8	125	56.0	11.7
## 2729	148.2	71	53.0	6.2
## 2730	119.3	93	40.0	8.7
## 2731	192.3	137	90.0	14.8
## 2732	245.2	91	61.0	13.9
## 2733	216.2	106	68.0	16.9
## 2734	172.4	114	52.0	0.0
## 2735	175.3	107	73.0	11.1
## 2736	169.0	104	80.9	13.3
## 2737	2.6	113	47.8	9.2
## 2738	184.1	143	50.0	9.9
## 2739	181.9	90	46.7	7.5
## 2740	160.1	116	75.2	10.8
## 2741	189.8	122	50.5	10.3
## 2742	223.2	142	57.0	12.4
## 2743	216.0	94	84.9	10.7
## 2744	198.5	124	59.8	8.0
## 2745	159.5	115	46.1	7.1
## 2746	105.0	78	61.5	10.2
## 2747	204.5	108	52.2	13.4
## 2748	274.0	92	67.0	6.2
## 2749	158.7	84	43.0	7.7
## 2750	229.9	116	57.0	14.2
## 2751	137.8	97	40.0	8.7
## 2752	179.4	94	54.0	7.9
## 2753	139.3	101	60.9	8.1
## 2754	7.8	86	16.0	12.9
## 2755	183.1	88	74.5	11.3
## 2756	206.9	79	61.5	10.7
## 2757	140.0	106	37.0	12.5
## 2758	179.2	59	55.0	5.8
## 2759	177.4	136	51.0	12.0
## 2760	115.6	129	36.3	12.6
## 2761	237.3	103	56.0	14.2
## 2762	181.5	116	50.1	10.5
## 2763	51.5	90	23.0	9.5
## 2764	155.7	104	65.1	8.2
## 2765	245.0	88	105.2	14.9
## 2766	131.7	99	37.0	10.7
## 2767	111.1	126	46.0	10.5
## 2768	88.5	100	65.1	8.2
## 2769	116.0	85	65.4	12.0

## 2770	155.5	81	40.3	9.1
## 2771	106.5	65	53.4	5.7
## 2772	175.2	68	82.6	13.2
## 2773	154.7	84	42.0	5.9
## 2774	247.2	105	78.5	6.1
## 2775	218.4	93	93.6	13.2
## 2776	227.5	81	83.3	9.0
## 2777	185.0	117	73.0	7.4
## 2778	186.8	89	54.0	12.3
## 2779	158.8	119	45.0	10.3
## 2780	208.7	150	54.0	8.5
## 2781	185.9	95	50.0	11.3
## 2782	222.5	74	53.0	9.0
## 2783	201.1	101	49.0	11.6
## 2784	167.9	114	74.6	9.1
## 2785	239.1	88	64.1	10.9
## 2786	175.7	109	52.2	9.2
## 2787	111.2	90	66.3	9.0
## 2788	87.7	74	34.0	10.8
## 2789	244.1	99	63.0	7.2
## 2790	165.0	89	59.8	7.7
## 2791	127.4	110	55.6	9.1
## 2792	194.8	106	58.0	5.5
## 2793	54.7	131	32.0	11.1
## 2794	283.4	104	106.9	14.4
## 2795	258.0	112	67.1	10.9
## 2796	90.5	142	37.8	9.3
## 2797	235.6	132	50.0	16.2
## 2798	142.5	82	44.0	10.0
## 2799	54.0	68	25.0	10.2
## 2800	214.8	87	48.0	9.4
## 2801	251.4	118	60.0	11.0
## 2802	139.0	99	45.0	6.1
## 2803	117.3	114	38.0	14.4
## 2804	264.0	108	57.0	10.6
## 2805	82.6	105	32.0	9.1
## 2806	175.8	126	82.8	11.4
## 2807	220.4	100	56.0	13.6
## 2808	217.0	104	50.0	11.8
## 2809	129.0	77	78.3	11.6
## 2810	150.5	106	43.2	3.5
## 2811	193.3	66	86.0	11.1
## 2812	189.5	122	42.0	10.8
## 2813	137.8	95	73.7	11.0
## 2814	129.3	80	35.0	12.3
## 2815	115.6	77	38.0	10.7
## 2816	221.9	114	79.4	7.2
## 2817	263.7	113	61.0	18.3
## 2818	61.3	91	29.4	11.4
## 2819	183.8	113	46.0	10.1
## 2820	167.4	68	41.0	10.3
## 2821	154.1	122	78.6	13.2
## 2822	252.0	101	61.2	5.7
## 2823	163.1	94	53.0	11.2

## 2824	198.3	80	50.0	16.6
## 2825	324.7	48	76.0	13.1
## 2826	128.3	78	41.0	14.3
## 2827	187.9	110	49.0	10.2
## 2828	129.2	71	41.0	10.3
## 2829	125.5	106	33.0	6.3
## 2830	257.2	108	97.0	12.6
## 2831	124.6	90	34.0	10.5
## 2832	175.1	144	49.0	9.9
## 2833	124.3	91	36.0	7.5
## 2834	271.6	130	60.0	11.6
## 2835	219.9	80	50.0	11.7
## 2836	183.3	115	77.1	10.4
## 2837	101.1	119	36.0	10.3
## 2838	203.3	70	55.0	14.3
## 2839	175.4	88	74.4	10.5
## 2840	266.0	97	66.8	14.2
## 2841	171.6	110	70.2	10.8
## 2842	78.7	98	33.0	14.0
## 2843	211.9	110	80.4	9.4
## 2844	63.7	101	29.6	10.0
## 2845	173.4	100	48.0	11.5
## 2846	237.7	98	59.0	4.5
## 2847	225.9	123	53.0	10.1
## 2848	173.0	101	80.9	12.2
## 2849	224.9	102	51.0	8.0
## 2850	237.7	122	56.0	7.7
## 2851	137.0	128	42.0	10.0
## 2852	142.5	109	40.0	8.2
## 2853	142.4	126	35.0	4.6
## 2854	147.0	112	65.5	8.7
## 2855	220.3	124	54.0	10.6
## 2856	149.2	96	48.0	8.1
## 2857	204.4	88	49.4	10.0
## 2858	216.8	77	56.7	5.6
## 2859	308.0	123	94.0	7.4
## 2860	58.0	125	16.0	11.5
## 2861	173.2	80	50.0	11.8
## 2862	210.3	90	92.4	13.1
## 2863	58.9	125	68.7	12.1
## 2864	236.8	102	55.0	9.7
## 2865	228.9	102	56.3	12.5
## 2866	90.0	87	62.2	8.6
## 2867	146.7	128	34.0	11.1
## 2868	237.3	83	54.0	11.2
## 2869	162.8	118	51.6	13.6
## 2870	186.9	114	78.0	8.9
## 2871	86.1	100	37.0	9.1
## 2872	212.3	89	55.0	11.3
## 2873	151.0	98	36.0	9.2
## 2874	158.6	67	39.0	6.9
## 2875	296.0	93	70.0	12.3
## 2876	212.3	77	75.8	6.6
## 2877	234.4	61	56.0	10.4

## 2878	176.8	92	46.0	6.5
## 2879	157.3	123	74.9	9.6
## 2880	146.6	68	67.0	10.0
## 2881	260.5	108	53.0	9.8
## 2882	146.1	98	65.7	6.2
## 2883	124.5	134	34.0	11.4
## 2884	209.4	49	58.0	9.8
## 2885	285.7	44	63.0	8.7
## 2886	190.9	44	47.0	8.4
## 2887	144.4	88	48.0	9.9
## 2888	208.8	130	77.0	11.1
## 2889	77.6	141	60.4	10.9
## 2890	271.1	101	69.4	8.4
## 2891	240.8	104	54.0	11.6
## 2892	114.8	98	36.0	12.2
## 2893	138.8	80	67.9	11.8
## 2894	209.8	112	68.4	7.2
## 2895	134.9	98	48.2	14.7
## 2896	164.0	99	41.0	6.4
## 2897	245.5	130	59.0	9.1
## 2898	80.3	94	75.8	16.6
## 2899	90.7	90	34.0	5.6
## 2900	190.3	115	65.3	3.8
## 2901	108.6	108	37.0	7.9
## 2902	89.8	88	61.1	9.3
## 2903	252.4	106	86.0	10.0
## 2904	183.4	94	73.1	6.7
## 2905	183.4	103	44.0	10.4
## 2906	155.2	100	41.2	3.8
## 2907	165.8	122	45.0	0.0
## 2908	209.4	67	59.0	12.8
## 2909	279.3	104	65.0	7.9
## 2910	174.1	102	39.0	7.7
## 2911	175.7	78	46.0	9.1
## 2912	256.5	87	66.0	13.0
## 2913	170.2	89	45.0	4.3
## 2914	139.6	92	46.9	10.8
## 2915	208.8	119	81.8	12.5
## 2916	210.1	126	57.0	14.4
## 2917	113.6	87	36.0	10.5
## 2918	202.6	89	49.0	8.3
## 2919	174.4	112	53.0	0.0
## 2920	210.6	117	50.0	9.4
## 2921	121.5	88	43.0	10.7
## 2922	127.8	67	41.5	15.9
## 2923	135.2	98	44.0	10.2
## 2924	99.4	62	41.0	16.7
## 2925	276.9	105	69.0	10.3
## 2926	163.4	134	49.0	11.6
## 2927	287.4	116	69.0	5.0
## 2928	120.5	104	67.5	10.2
## 2929	184.1	106	49.0	9.8
## 2930	185.0	84	55.2	14.9
## 2931	160.9	109	40.0	12.9

##	2932	207.6	68	57.0	10.9
##	2933	209.2	134	36.0	11.8
##	2934	158.4	71	53.0	2.1
##	2935	149.0	73	37.0	8.6
##	2936	204.5	63	54.6	9.8
##	2937	288.8	86	65.0	9.5
##	2938	108.6	90	72.2	13.4
##	2939	97.5	129	40.9	7.0
##	2940	166.5	102	51.0	13.3
##	2941	156.2	104	35.0	7.3
##	2942	225.2	89	92.1	11.5
##	2943	287.4	118	71.0	10.0
##	2944	175.3	96	72.1	7.8
##	2945	102.1	75	37.0	9.8
##	2946	157.9	103	49.0	14.0
##	2947	146.5	73	57.1	4.1
##	2948	245.8	116	67.0	9.0
##	2949	177.7	114	49.0	10.5
##	2950	250.8	146	56.0	10.0
##	2951	117.8	100	37.0	11.8
##	2952	119.7	113	37.0	12.9
##	2953	242.2	87	61.0	8.2
##	2954	163.4	83	49.0	9.8
##	2955	161.0	113	46.0	8.4
##	2956	128.7	111	37.0	10.3
##	2957	81.6	94	37.0	8.6
##	2958	207.7	91	72.7	7.3
##	2959	128.6	115	41.0	6.3
##	2960	233.3	65	58.0	9.1
##	2961	182.1	106	43.0	10.0
##	2962	168.0	81	64.6	8.0
##	2963	251.6	88	58.0	5.4
##	2964	183.8	102	78.3	11.6
##	2965	256.4	44	62.0	7.9
##	2966	180.2	134	39.0	8.4
##	2967	227.8	81	53.0	8.0
##	2968	147.8	132	76.5	10.2
##	2969	234.9	136	63.0	13.9
##	2970	110.9	54	37.0	7.9
##	2971	124.5	94	58.3	6.4
##	2972	233.5	81	58.1	9.6
##	2973	197.3	134	73.3	10.1
##	2974	58.2	96	28.0	10.4
##	2975	212.7	72	58.4	7.0
##	2976	151.5	89	37.0	11.8
##	2977	146.3	117	44.0	11.5
##	2978	195.1	100	46.0	6.7
##	2979	208.9	71	54.0	13.0
##	2980	135.7	107	42.2	8.8
##	2981	225.9	86	62.0	14.3
##	2982	122.2	67	38.0	9.7
##	2983	153.3	106	46.0	8.9
##	2984	214.0	117	53.0	7.9
##	2985	194.8	112	52.3	10.8

## 2986	206.7	87	60.0	11.0
## 2987	188.0	105	73.4	10.5
## 2988	122.3	83	34.4	13.7
## 2989	259.3	96	59.0	12.0
## 2990	115.1	114	41.8	13.8
## 2991	172.9	109	64.4	8.3
## 2992	156.4	116	38.0	7.3
## 2993	128.1	104	65.3	11.6
## 2994	196.6	73	48.0	12.5
## 2995	227.9	130	65.0	5.5
## 2996	194.9	63	85.6	13.2
## 2997	44.9	63	55.9	13.3
## 2998	262.8	114	85.1	7.8
## 2999	211.2	70	60.1	12.3
## 3000	204.0	69	54.0	9.6
## 3001	223.2	109	53.2	14.5
## 3002	119.0	82	40.9	11.5
## 3003	266.1	91	65.0	8.9
## 3004	134.4	104	36.0	9.4
## 3005	171.1	78	51.0	16.2
## 3006	170.5	103	51.0	10.5
## 3007	178.5	124	45.3	9.9
## 3008	205.2	145	49.0	14.1
## 3009	232.8	97	91.1	13.0
## 3010	239.9	107	81.1	6.7
## 3011	55.6	97	34.0	12.1
## 3012	153.5	78	75.6	10.6
## 3013	109.8	100	35.0	11.1
## 3014	196.1	89	50.0	5.2
## 3015	166.8	127	41.0	11.8
## 3016	113.2	96	62.2	7.1
## 3017	203.0	92	49.5	14.6
## 3018	242.8	90	62.0	6.0
## 3019	156.5	102	39.0	12.2
## 3020	266.7	105	61.5	13.8
## 3021	182.0	80	76.5	9.8
## 3022	85.9	92	32.0	10.1
## 3023	146.6	87	42.8	2.9
## 3024	110.5	101	74.5	13.9
## 3025	118.6	89	38.0	11.5
## 3026	197.6	105	83.1	15.6
## 3027	210.3	116	82.2	10.8
## 3028	220.3	96	87.4	9.4
## 3029	150.0	98	46.0	12.5
## 3030	161.7	114	70.8	9.2
## 3031	191.4	116	47.0	14.0
## 3032	146.7	83	40.6	12.5
## 3033	109.4	103	28.0	7.8
## 3034	144.1	115	49.3	13.6
## 3035	248.9	93	87.2	11.2
## 3036	85.7	112	34.0	11.6
## 3037	214.8	112	55.0	9.4
## 3038	158.9	137	48.0	6.5
## 3039	110.0	94	48.3	6.4

## 3040	152.8	145	42.0	10.5
## 3041	145.6	103	44.2	10.5
## 3042	93.3	83	33.0	6.5
## 3043	216.8	134	57.2	8.3
## 3044	201.9	101	51.2	9.0
## 3045	146.4	81	48.0	8.5
## 3046	272.7	74	66.0	10.5
## 3047	18.9	92	28.4	14.8
## 3048	172.8	81	46.0	12.8
## 3049	190.2	119	46.0	14.0
## 3050	130.6	83	40.0	15.6
## 3051	158.4	92	43.0	13.5
## 3052	166.5	111	49.0	15.6
## 3053	129.3	103	40.0	12.9
## 3054	199.3	112	51.0	7.0
## 3055	185.1	126	52.0	9.1
## 3056	175.4	80	47.0	9.7
## 3057	263.4	123	58.0	10.7
## 3058	94.2	108	39.0	7.3
## 3059	189.4	83	53.6	7.1
## 3060	118.0	103	66.9	11.8
## 3061	212.1	98	53.0	8.4
## 3062	222.0	93	56.2	12.4
## 3063	222.8	98	89.1	13.0
## 3064	190.0	137	75.9	12.2
## 3065	271.8	129	70.3	8.7
## 3066	195.4	83	79.7	8.4
## 3067	199.6	93	53.0	7.2
## 3068	100.0	98	32.0	10.1
## 3069	160.6	85	72.7	9.5
## 3070	158.7	91	67.7	9.9
## 3071	154.5	122	45.0	12.0
## 3072	192.3	114	61.0	6.3
## 3073	305.1	106	68.0	8.5
## 3074	193.0	106	66.0	7.4
## 3075	72.5	88	32.7	6.6
## 3076	105.2	61	64.0	6.3
## 3077	180.5	88	43.0	10.0
## 3078	214.7	86	102.6	14.3
## 3079	86.8	95	24.0	13.2
## 3080	131.5	99	38.0	7.9
## 3081	135.4	102	46.1	17.5
## 3082	174.3	85	52.0	5.9
## 3083	203.9	63	51.0	12.1
## 3084	235.5	108	53.0	12.5
## 3085	157.0	113	49.0	12.1
## 3086	111.9	55	38.0	10.0
## 3087	236.3	91	54.0	11.2
## 3088	163.6	88	52.0	8.6
## 3089	213.6	127	76.0	8.9
## 3090	143.4	72	64.4	9.4
## 3091	78.3	119	34.5	12.1
## 3092	97.1	98	36.0	10.6
## 3093	94.1	93	29.0	10.1

## 3094	226.3	95	65.6	8.2
## 3095	133.8	61	37.0	10.5
## 3096	190.3	93	82.6	10.6
## 3097	294.9	106	91.5	9.8
## 3098	185.4	114	48.0	10.0
## 3099	179.5	121	47.0	12.0
## 3100	158.0	94	45.0	10.1
## 3101	173.0	131	46.0	10.4
## 3102	134.2	101	63.1	8.2
## 3103	125.2	123	75.0	12.6
## 3104	195.9	111	53.0	13.2
## 3105	214.2	61	79.8	10.3
## 3106	221.1	101	58.0	9.5
## 3107	132.0	100	69.3	11.6
## 3108	157.6	92	48.1	9.1
## 3109	110.3	71	64.7	11.0
## 3110	161.5	121	44.0	11.2
## 3111	171.8	116	78.6	10.6
## 3112	211.0	99	80.8	11.4
## 3113	139.3	89	41.0	9.3
## 3114	291.6	99	71.7	14.0
## 3115	139.0	110	38.5	12.1
## 3116	234.8	125	57.0	10.0
## 3117	187.6	83	50.0	8.8
## 3118	159.8	143	46.0	13.1
## 3119	177.1	100	61.0	5.2
## 3120	117.9	101	34.0	11.4
## 3121	247.6	95	93.2	10.8
## 3122	169.9	77	41.0	8.5
## 3123	185.0	120	49.0	14.1
## 3124	204.9	84	82.5	11.3
## 3125	225.5	119	79.4	9.4
## 3126	169.7	115	41.0	10.5
## 3127	239.3	102	60.0	10.6
## 3128	113.3	96	37.0	11.7
## 3129	161.9	100	51.3	10.2
## 3130	133.3	110	54.1	5.6
## 3131	170.7	88	62.5	8.7
## 3132	189.7	76	48.1	8.3
## 3133	322.3	100	75.0	7.8
## 3134	124.4	74	51.6	10.4
## 3135	146.9	94	35.0	11.4
## 3136	192.6	123	53.6	10.8
## 3137	96.3	83	59.8	10.3
## 3138	131.9	96	37.0	14.7
## 3139	147.2	121	40.0	13.3
## 3140	143.1	139	45.0	7.1
## 3141	280.4	127	65.7	15.2
## 3142	237.2	85	87.9	10.7
## 3143	184.2	95	49.2	12.8
## 3144	109.1	141	38.4	10.0
## 3145	138.1	115	37.0	10.3
## 3146	186.8	94	50.0	8.8
## 3147	155.4	112	52.0	13.9

## 3148	245.3	91	53.0	8.5
## 3149	205.9	97	59.0	11.0
## 3150	207.2	138	54.0	11.9
## 3151	151.5	100	75.9	10.7
## 3152	221.9	112	64.5	7.1
## 3153	190.0	100	56.8	9.5
## 3154	220.8	111	51.0	10.5
## 3155	173.7	117	64.0	6.3
## 3156	114.8	94	33.0	9.6
## 3157	113.8	97	38.9	10.4
## 3158	143.2	60	40.0	6.2
## 3159	184.4	111	49.0	9.3
## 3160	227.4	67	60.0	7.8
## 3161	224.0	99	56.0	2.1
## 3162	216.2	95	53.0	10.0
## 3163	129.9	121	42.0	13.3
## 3164	230.1	108	82.6	6.9
## 3165	204.4	97	58.0	11.0
## 3166	216.6	101	76.6	9.1
## 3167	247.5	85	64.1	10.2
## 3168	228.1	93	51.0	9.0
## 3169	225.9	110	64.0	11.2
## 3170	103.5	115	32.0	12.0
## 3171	115.5	70	43.4	7.5
## 3172	218.8	125	50.0	9.7
## 3173	223.8	67	59.0	12.3
## 3174	143.8	71	41.0	12.9
## 3175	29.9	123	40.2	8.6
## 3176	276.7	121	87.4	8.3
## 3177	141.4	128	37.0	8.1
## 3178	153.9	102	73.6	12.8
## 3179	190.5	128	50.0	13.8
## 3180	192.6	102	51.4	9.4
## 3181	151.8	115	35.0	12.2
## 3182	215.6	74	54.0	10.1
## 3183	180.0	100	54.1	7.8
## 3184	157.3	116	44.0	8.4
## 3185	196.5	88	49.8	6.8
## 3186	240.3	130	58.1	11.9
## 3187	193.3	126	50.3	9.4
## 3188	211.9	40	74.6	5.4
## 3189	218.7	111	51.0	8.2
## 3190	246.8	110	60.0	13.2
## 3191	174.7	151	43.0	15.8
## 3192	240.0	83	53.0	9.3
## 3193	181.2	76	59.5	5.0
## 3194	113.7	67	34.0	10.8
## 3195	174.7	86	80.2	13.4
## 3196	211.1	89	81.2	9.7
## 3197	169.3	108	44.0	12.2
## 3198	247.4	107	58.0	11.3
## 3199	131.2	63	76.6	12.8
## 3200	161.4	84	44.3	11.8
## 3201	107.2	98	26.0	9.7

## 3202	211.9	120	77.8	8.8
## 3203	160.4	120	52.0	6.9
## 3204	230.7	101	79.3	6.4
## 3205	232.6	96	64.3	10.5
## 3206	294.7	90	76.0	10.8
## 3207	133.4	107	42.0	10.2
## 3208	306.2	123	100.6	11.7
## 3209	236.8	135	57.0	10.4
## 3210	125.7	92	83.3	14.2
## 3211	168.4	114	56.2	11.4
## 3212	70.9	134	27.8	12.0
## 3213	105.0	86	39.0	3.7
## 3214	152.1	141	46.9	12.0
## 3215	180.9	79	50.7	8.8
## 3216	156.6	84	66.4	9.4
## 3217	180.5	85	56.5	2.4
## 3218	238.8	100	96.6	13.2
## 3219	182.1	66	86.2	13.4
## 3220	139.6	72	76.8	8.8
## 3221	200.3	76	83.5	10.2
## 3222	153.5	94	51.1	8.5
## 3223	128.2	119	68.6	11.7
## 3224	159.5	145	45.0	16.7
## 3225	226.4	101	63.0	12.3
## 3226	251.9	81	60.0	8.4
## 3227	264.5	117	64.0	7.5
## 3228	153.7	105	43.0	10.7
## 3229	232.1	81	58.0	15.0
## 3230	201.9	86	55.2	7.8
## 3231	186.9	79	48.0	4.2
## 3232	196.6	89	66.8	6.6
## 3233	232.1	102	54.0	9.9
## 3234	166.0	79	35.0	6.3
## 3235	200.6	96	55.8	2.5
## 3236	141.0	101	55.2	4.9
## 3237	245.0	95	81.3	7.5
## 3238	140.8	140	44.0	10.9
## 3239	255.1	93	67.0	8.8
## 3240	125.0	99	69.5	10.2
## 3241	180.6	65	55.0	5.0
## 3242	248.7	118	57.0	11.3
## 3243	178.1	111	73.7	8.4
## 3244	122.2	112	32.0	10.3
## 3245	231.3	87	59.0	7.2
## 3246	111.2	101	30.0	12.6
## 3247	103.2	117	70.1	11.9
## 3248	138.4	104	38.0	3.9
## 3249	146.3	85	44.0	11.5
## 3250	206.3	66	56.0	11.7
## 3251	132.0	103	47.0	13.5
## 3252	274.6	105	61.0	9.2
## 3253	185.3	87	51.0	11.7
## 3254	154.8	69	66.3	9.0
## 3255	179.2	105	94.7	14.7

## 3256	286.2	61	65.0	11.0
## 3257	268.0	115	61.3	17.0
## 3258	137.5	110	44.1	13.3
## 3259	243.0	115	60.9	13.4
## 3260	134.9	79	45.5	15.0
## 3261	234.2	76	61.0	13.9
## 3262	175.1	73	45.0	7.3
## 3263	142.2	107	47.0	10.1
## 3264	132.4	81	42.6	6.0
## 3265	97.8	98	50.9	5.9
## 3266	266.9	83	65.0	11.0
## 3267	155.2	139	76.2	9.7
## 3268	200.2	92	55.0	8.8
## 3269	289.1	100	70.0	12.7
## 3270	198.4	121	55.0	10.5
## 3271	180.3	67	49.0	12.8
## 3272	86.3	84	35.0	12.5
## 3273	295.0	141	70.0	12.9
## 3274	240.9	108	58.8	14.7
## 3275	207.7	109	54.0	8.0
## 3276	128.5	115	36.0	0.0
## 3277	224.4	114	74.8	8.8
## 3278	164.9	115	39.0	10.0
## 3279	238.0	97	55.0	10.6
## 3280	231.0	85	81.4	8.3
## 3281	107.3	140	39.0	10.0
## 3282	185.0	122	47.0	5.1
## 3283	244.1	71	79.8	7.7
## 3284	238.4	96	62.0	12.4
## 3285	141.1	109	79.6	13.2
## 3286	158.1	117	37.0	11.8
## 3287	220.1	105	92.4	13.1
## 3288	199.5	119	75.4	10.9
## 3289	109.5	105	44.7	4.9
## 3290	187.2	110	42.0	13.2
## 3291	107.9	128	35.0	0.0
## 3292	172.1	119	86.5	13.9
## 3293	203.8	85	44.2	11.7
## 3294	160.0	133	46.0	9.1
## 3295	51.1	106	27.0	12.3
## 3296	227.7	88	54.0	11.7
## 3297	203.8	77	53.0	9.0
## 3298	241.7	84	86.5	11.3
## 3299	78.1	70	34.0	12.3
## 3300	187.8	95	45.0	11.0
## 3301	127.1	94	61.2	7.1
## 3302	280.0	113	65.0	10.4
## 3303	153.2	78	46.9	7.8
## 3304	137.1	88	68.1	11.5
## 3305	186.1	114	49.0	13.8
## 3306	224.1	127	90.1	11.5
## 3307	83.6	131	53.9	8.1
## 3308	203.9	109	55.0	17.8
## 3309	211.3	87	50.0	13.3

```
## 3310 219.4 112 57.0 12.0
## 3311 190.4 91 43.1 13.6
## 3312 147.7 94 50.0 6.9
## 3313 229.9 130 54.6 14.2
## 3314 102.8 128 30.0 10.0
## 3315 178.7 81 53.9 9.1
## 3316 148.5 106 52.6 6.5
## 3317 164.1 111 80.2 12.3
## 3318 197.2 90 50.0 7.8
## 3319 124.9 131 50.4 11.6
## 3320 115.4 99 40.5 15.9
## 3321 140.0 101 44.0 9.7
## 3322 193.9 118 41.0 13.2
## 3323 321.1 105 78.0 11.5
## 3324 118.4 126 45.9 13.6
## 3325 169.8 114 46.0 11.6
## 3326 193.4 99 45.3 9.3
## 3327 106.6 128 46.6 14.9
## 3328 134.7 98 40.0 11.8
## 3329 156.2 77 71.7 9.9
## 3330 231.1 57 56.4 9.6
## 3331 180.8 109 56.0 14.1
## 3332 213.8 105 50.0 5.0
## 3333 234.4 113 100.0 13.7
```

```
str(churn_data)
```

```
## 'data.frame': 3333 obs. of 10 variables:
## $ Churn : int 0 0 0 0 0 0 0 0 0 0 ...
## $ AccountWeeks : int 128 107 137 84 75 118 121 147 117 141 ...
## $ ContractRenewal: int 1 1 1 0 0 0 1 0 1 0 ...
## $ DataPlan : int 1 1 0 0 0 0 1 0 0 1 ...
## $ DataUsage : num 2.7 3.7 0 0 0 0 2.03 0 0.19 3.02 ...
## $ CustServCalls : int 1 1 0 2 3 0 3 0 1 0 ...
## $ DayMins : num 265 162 243 299 167 ...
## $ DayCalls : int 110 123 114 71 113 98 88 79 97 84 ...
## $ MonthlyCharge : num 89 82 52 57 41 57 87.3 36 63.9 93.2 ...
## $ RoamMins : num 10 13.7 12.2 6.6 10.1 6.3 7.5 7.1 8.7 11.2 ...
```

```
#step 1 : Split
```

```
library(caTools)
set.seed(100)
split <- sample.split(churn_data, SplitRatio = 0.75)
split
```

```
## [1] TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE FALSE TRUE
```

```
train <- subset(churn_data,split = "TRUE" )
test <- subset(churn_data,split = "FALSE" )
str(train)
```

```
## 'data.frame': 3333 obs. of 10 variables:
## $ Churn : int 0 0 0 0 0 0 0 0 0 0 ...
## $ AccountWeeks : int 128 107 137 84 75 118 121 147 117 141 ...
## $ ContractRenewal: int 1 1 1 0 0 0 1 0 1 0 ...
## $ DataPlan : int 1 1 0 0 0 0 1 0 0 1 ...
## $ DataUsage : num 2.7 3.7 0 0 0 0 2.03 0 0.19 3.02 ...
## $ CustServCalls : int 1 1 0 2 3 0 3 0 1 0 ...
## $ DayMins : num 265 162 243 299 167 ...
## $ DayCalls : int 110 123 114 71 113 98 88 79 97 84 ...
## $ MonthlyCharge : num 89 82 52 57 41 57 87.3 36 63.9 93.2 ...
## $ RoamMins : num 10 13.7 12.2 6.6 10.1 6.3 7.5 7.1 8.7 11.2 ...
```

```
str(test)
```

```
## 'data.frame': 3333 obs. of 10 variables:
## $ Churn : int 0 0 0 0 0 0 0 0 0 0 ...
## $ AccountWeeks : int 128 107 137 84 75 118 121 147 117 141 ...
## $ ContractRenewal: int 1 1 1 0 0 0 1 0 1 0 ...
## $ DataPlan : int 1 1 0 0 0 0 1 0 0 1 ...
## $ DataUsage : num 2.7 3.7 0 0 0 0 2.03 0 0.19 3.02 ...
## $ CustServCalls : int 1 1 0 2 3 0 3 0 1 0 ...
## $ DayMins : num 265 162 243 299 167 ...
## $ DayCalls : int 110 123 114 71 113 98 88 79 97 84 ...
## $ MonthlyCharge : num 89 82 52 57 41 57 87.3 36 63.9 93.2 ...
## $ RoamMins : num 10 13.7 12.2 6.6 10.1 6.3 7.5 7.1 8.7 11.2 ...
```

```
#step 2 : train model
```

```
decision_tree_model_new <- rpart(Churn~.,data=train, method = "class")
decision_tree_model_new
```

```
## n= 3333
##
## node), split, n, loss, yval, (yprob)
##      * denotes terminal node
##
## 1) root 3333 483 0 (0.85508551 0.14491449)
## 2) DayMins< 264.45 3122 356 0 (0.88597053 0.11402947)
## 4) CustServCalls< 3.5 2871 229 0 (0.92023685 0.07976315)
## 8) ContractRenewal>=0.5 2604 128 0 (0.95084485 0.04915515)
## 16) DayMins< 223.25 2221 60 0 (0.97298514 0.02701486) *
## 17) DayMins>=223.25 383 68 0 (0.82245431 0.17754569)
## 34) MonthlyCharge< 60.95 175 8 0 (0.95428571 0.04571429) *
## 35) MonthlyCharge>=60.95 208 60 0 (0.71153846 0.28846154)
## 70) DataUsage>=0.405 105 3 0 (0.97142857 0.02857143) *
## 71) DataUsage< 0.405 103 46 1 (0.44660194 0.55339806)
## 142) MonthlyCharge< 62.05 32 7 0 (0.78125000 0.21875000) *
## 143) MonthlyCharge>=62.05 71 21 1 (0.29577465 0.70422535)
## 286) RoamMins< 7.9 13 4 0 (0.69230769 0.30769231) *
## 287) RoamMins>=7.9 58 12 1 (0.20689655 0.79310345) *
## 9) ContractRenewal< 0.5 267 101 0 (0.62172285 0.37827715)
## 18) RoamMins< 13.1 219 53 0 (0.75799087 0.24200913) *
## 19) RoamMins>=13.1 48 0 1 (0.00000000 1.00000000) *
```



```
##      5) CustServCalls>=3.5 251 124 1 (0.49402390 0.50597610)
##      10) MonthlyCharge>=45.95 163 44 0 (0.73006135 0.26993865)
##      20) DayMins>=160.2 130 22 0 (0.83076923 0.16923077) *
##      21) DayMins< 160.2 33 11 1 (0.33333333 0.66666667) *
##      11) MonthlyCharge< 45.95 88 5 1 (0.05681818 0.94318182) *
##      3) DayMins>=264.45 211 84 1 (0.39810427 0.60189573)
##      6) DataPlan>=0.5 53 6 0 (0.88679245 0.11320755) *
##      7) DataPlan< 0.5 158 37 1 (0.23417722 0.76582278)
##      14) MonthlyCharge< 62.5 26 4 0 (0.84615385 0.15384615) *
##      15) MonthlyCharge>=62.5 132 15 1 (0.11363636 0.88636364) *
```

```
summary(decision_tree_model_new)
```

```
## Call:
## rpart(formula = Churn ~ ., data = train, method = "class")
##      n= 3333
##
##              CP nsplit rel error      xerror      xstd
## 1 0.08902692    0 1.0000000 1.0000000 0.04207569
## 2 0.08488613    1 0.9109731 0.9792961 0.04171083
## 3 0.08074534    2 0.8260870 0.8426501 0.03913538
## 4 0.04968944    4 0.6645963 0.6811594 0.03565194
## 5 0.03726708    6 0.5652174 0.5817805 0.03321090
## 6 0.02277433    7 0.5279503 0.5569358 0.03255785
## 7 0.01501035    8 0.5051760 0.5465839 0.03228016
## 8 0.01035197   12 0.4451346 0.5196687 0.03154194
## 9 0.01000000   13 0.4347826 0.5093168 0.03125152
##
## Variable importance
##      MonthlyCharge      DayMins      DataUsage      CustServCalls      DataPlan
##              24              23              13              12              10
##      RoamMins ContractRenewal      AccountWeeks      DayCalls
##              8              8              1              1
##
## Node number 1: 3333 observations,      complexity param=0.08902692
##      predicted class=0      expected loss=0.1449145      P(node) =1
##      class counts: 2850 483
##      probabilities: 0.855 0.145
##      left son=2 (3122 obs) right son=3 (211 obs)
##      Primary splits:
##      DayMins < 264.45 to the left, improve=94.083100, (0 missing)
##      CustServCalls < 3.5 to the left, improve=80.306170, (0 missing)
##      ContractRenewal < 0.5 to the right, improve=55.774830, (0 missing)
##      MonthlyCharge < 60.55 to the left, improve=34.847350, (0 missing)
##      DataUsage < 0.215 to the right, improve= 9.730673, (0 missing)
##      Surrogate splits:
##      MonthlyCharge < 101.55 to the left, agree=0.939, adj=0.033, (0 split)
##
## Node number 2: 3122 observations,      complexity param=0.08074534
##      predicted class=0      expected loss=0.1140295      P(node) =0.9366937
##      class counts: 2766 356
##      probabilities: 0.886 0.114
##      left son=4 (2871 obs) right son=5 (251 obs)
##      Primary splits:
```

```

##      CustServCalls < 3.5    to the left, improve=83.860470, (0 missing)
##      ContractRenewal < 0.5  to the right, improve=54.867830, (0 missing)
##      DayMins < 223.25 to the left, improve=12.026250, (0 missing)
##      RoamMins < 13.15 to the left, improve= 8.063614, (0 missing)
##      MonthlyCharge < 59.25 to the left, improve= 6.422183, (0 missing)
##
## Node number 3: 211 observations,    complexity param=0.08488613
## predicted class=1 expected loss=0.3981043 P(node) =0.06330633
## class counts: 84 127
## probabilities: 0.398 0.602
## left son=6 (53 obs) right son=7 (158 obs)
## Primary splits:
##      DataPlan < 0.5    to the right, improve=33.806090, (0 missing)
##      DataUsage < 1.05  to the right, improve=33.806090, (0 missing)
##      MonthlyCharge < 79.65 to the right, improve=30.997040, (0 missing)
##      DayMins < 316.7 to the left, improve= 7.003300, (0 missing)
##      DayCalls < 96.5  to the left, improve= 1.736051, (0 missing)
## Surrogate splits:
##      DataUsage < 1.05  to the right, agree=1.000, adj=1.000, (0 split)
##      MonthlyCharge < 79.65 to the right, agree=0.991, adj=0.962, (0 split)
##      AccountWeeks < 15.5 to the left, agree=0.754, adj=0.019, (0 split)
##
## Node number 4: 2871 observations,    complexity param=0.04968944
## predicted class=0 expected loss=0.07976315 P(node) =0.8613861
## class counts: 2642 229
## probabilities: 0.920 0.080
## left son=8 (2604 obs) right son=9 (267 obs)
## Primary splits:
##      ContractRenewal < 0.5    to the right, improve=52.464180, (0 missing)
##      DayMins < 221.85 to the left, improve=19.883390, (0 missing)
##      MonthlyCharge < 59.75 to the left, improve= 8.872400, (0 missing)
##      RoamMins < 13.15 to the left, improve= 8.200801, (0 missing)
##      DataUsage < 3.55  to the left, improve= 2.223976, (0 missing)
##
## Node number 5: 251 observations,    complexity param=0.08074534
## predicted class=1 expected loss=0.4940239 P(node) =0.07530753
## class counts: 124 127
## probabilities: 0.494 0.506
## left son=10 (163 obs) right son=11 (88 obs)
## Primary splits:
##      MonthlyCharge < 45.95 to the right, improve=51.804850, (0 missing)
##      DayMins < 160.2 to the right, improve=46.178350, (0 missing)
##      CustServCalls < 4.5    to the left, improve= 4.362024, (0 missing)
##      DayCalls < 133.5 to the left, improve= 2.737352, (0 missing)
##      DataUsage < 0.18  to the right, improve= 2.184225, (0 missing)
## Surrogate splits:
##      DayMins < 151.65 to the right, agree=0.805, adj=0.443, (0 split)
##      DataUsage < 0.18  to the right, agree=0.665, adj=0.045, (0 split)
##      AccountWeeks < 8    to the right, agree=0.657, adj=0.023, (0 split)
##      DayCalls < 139.5 to the left, agree=0.657, adj=0.023, (0 split)
##      RoamMins < 4.15  to the right, agree=0.653, adj=0.011, (0 split)
##
## Node number 6: 53 observations
## predicted class=0 expected loss=0.1132075 P(node) =0.01590159

```

```

##      class counts:      47      6
##      probabilities: 0.887 0.113
##
## Node number 7: 158 observations,      complexity param=0.03726708
##      predicted class=1 expected loss=0.2341772 P(node) =0.04740474
##      class counts:      37      121
##      probabilities: 0.234 0.766
##      left son=14 (26 obs) right son=15 (132 obs)
##      Primary splits:
##          MonthlyCharge < 62.5 to the left, improve=23.310750, (0 missing)
##          DayMins < 278.45 to the left, improve= 4.754541, (0 missing)
##          RoamMins < 8.35 to the left, improve= 1.803342, (0 missing)
##          CustServCalls < 0.5 to the right, improve= 1.582592, (0 missing)
##          AccountWeeks < 108.5 to the left, improve= 1.255033, (0 missing)
##      Surrogate splits:
##          RoamMins < 3.35 to the left, agree=0.854, adj=0.115, (0 split)
##
## Node number 8: 2604 observations,      complexity param=0.01501035
##      predicted class=0 expected loss=0.04915515 P(node) =0.7812781
##      class counts: 2476 128
##      probabilities: 0.951 0.049
##      left son=16 (2221 obs) right son=17 (383 obs)
##      Primary splits:
##          DayMins < 223.25 to the left, improve=14.804280, (0 missing)
##          MonthlyCharge < 60.55 to the left, improve= 6.613117, (0 missing)
##          DataUsage < 0.255 to the right, improve= 1.759110, (0 missing)
##          DataPlan < 0.5 to the right, improve= 1.063595, (0 missing)
##          DayCalls < 119.5 to the left, improve= 0.977995, (0 missing)
##      Surrogate splits:
##          MonthlyCharge < 96.2 to the left, agree=0.855, adj=0.013, (0 split)
##
## Node number 9: 267 observations,      complexity param=0.04968944
##      predicted class=0 expected loss=0.3782772 P(node) =0.08010801
##      class counts: 166 101
##      probabilities: 0.622 0.378
##      left son=18 (219 obs) right son=19 (48 obs)
##      Primary splits:
##          RoamMins < 13.1 to the left, improve=45.240980, (0 missing)
##          DataUsage < 3.52 to the left, improve=14.036010, (0 missing)
##          MonthlyCharge < 83.2 to the left, improve= 3.238829, (0 missing)
##          DayMins < 220.05 to the left, improve= 2.335478, (0 missing)
##          DayCalls < 137.5 to the right, improve= 1.894833, (0 missing)
##      Surrogate splits:
##          DataUsage < 3.52 to the left, agree=0.884, adj=0.354, (0 split)
##          MonthlyCharge < 84.4 to the left, agree=0.835, adj=0.083, (0 split)
##          DayMins < 51 to the right, agree=0.824, adj=0.021, (0 split)
##
## Node number 10: 163 observations,      complexity param=0.02277433
##      predicted class=0 expected loss=0.2699387 P(node) =0.04890489
##      class counts: 119 44
##      probabilities: 0.730 0.270
##      left son=20 (130 obs) right son=21 (33 obs)
##      Primary splits:
##          DayMins < 160.2 to the right, improve=13.024890, (0 missing)

```

```

##      MonthlyCharge < 58.7   to the left,  improve= 8.123448, (0 missing)
##      DataUsage     < 2.095  to the left,  improve= 6.888092, (0 missing)
##      DataPlan      < 0.5    to the left,  improve= 5.717535, (0 missing)
##      ContractRenewal < 0.5   to the right, improve= 2.827270, (0 missing)
##
## Node number 11: 88 observations
##   predicted class=1 expected loss=0.05681818 P(node) =0.02640264
##   class counts:      5      83
##   probabilities: 0.057 0.943
##
## Node number 14: 26 observations
##   predicted class=0 expected loss=0.1538462 P(node) =0.00780078
##   class counts:      22      4
##   probabilities: 0.846 0.154
##
## Node number 15: 132 observations
##   predicted class=1 expected loss=0.1136364 P(node) =0.03960396
##   class counts:      15     117
##   probabilities: 0.114 0.886
##
## Node number 16: 2221 observations
##   predicted class=0 expected loss=0.02701486 P(node) =0.6663666
##   class counts:    2161      60
##   probabilities: 0.973 0.027
##
## Node number 17: 383 observations,    complexity param=0.01501035
##   predicted class=0 expected loss=0.1775457 P(node) =0.1149115
##   class counts:      315      68
##   probabilities: 0.822 0.178
##   left son=34 (175 obs) right son=35 (208 obs)
##   Primary splits:
##     MonthlyCharge < 60.95  to the left,  improve=11.200600, (0 missing)
##     DataUsage     < 1.69   to the right, improve= 6.610650, (0 missing)
##     DataPlan      < 0.5    to the right, improve= 6.313601, (0 missing)
##     DayCalls      < 140.5  to the left,  improve= 1.699119, (0 missing)
##     DayMins       < 244.95 to the left,  improve= 1.695631, (0 missing)
##   Surrogate splits:
##     DataUsage     < 0.345  to the left,  agree=0.736, adj=0.423, (0 split)
##     DataPlan      < 0.5    to the left,  agree=0.728, adj=0.406, (0 split)
##     DayMins       < 242.15 to the left,  agree=0.601, adj=0.126, (0 split)
##     RoamMins      < 7.25   to the left,  agree=0.567, adj=0.051, (0 split)
##     AccountWeeks < 31     to the left,  agree=0.556, adj=0.029, (0 split)
##
## Node number 18: 219 observations
##   predicted class=0 expected loss=0.2420091 P(node) =0.06570657
##   class counts:      166      53
##   probabilities: 0.758 0.242
##
## Node number 19: 48 observations
##   predicted class=1 expected loss=0 P(node) =0.01440144
##   class counts:        0      48
##   probabilities: 0.000 1.000
##
## Node number 20: 130 observations

```

```

## predicted class=0 expected loss=0.1692308 P(node) =0.0390039
## class counts: 108 22
## probabilities: 0.831 0.169
##
## Node number 21: 33 observations
## predicted class=1 expected loss=0.3333333 P(node) =0.00990099
## class counts: 11 22
## probabilities: 0.333 0.667
##
## Node number 34: 175 observations
## predicted class=0 expected loss=0.04571429 P(node) =0.05250525
## class counts: 167 8
## probabilities: 0.954 0.046
##
## Node number 35: 208 observations, complexity param=0.01501035
## predicted class=0 expected loss=0.2884615 P(node) =0.06240624
## class counts: 148 60
## probabilities: 0.712 0.288
## left son=70 (105 obs) right son=71 (103 obs)
## Primary splits:
## DataUsage < 0.405 to the right, improve=28.643420, (0 missing)
## DataPlan < 0.5 to the right, improve=28.038460, (0 missing)
## MonthlyCharge < 70.9 to the right, improve=27.760910, (0 missing)
## DayCalls < 115 to the left, improve= 3.569204, (0 missing)
## RoamMins < 13.1 to the left, improve= 2.311974, (0 missing)
## Surrogate splits:
## DataPlan < 0.5 to the right, agree=0.995, adj=0.990, (0 split)
## MonthlyCharge < 69.9 to the right, agree=0.981, adj=0.961, (0 split)
## DayMins < 245.1 to the left, agree=0.611, adj=0.214, (0 split)
## AccountWeeks < 137.5 to the right, agree=0.572, adj=0.136, (0 split)
## DayCalls < 86.5 to the right, agree=0.562, adj=0.117, (0 split)
##
## Node number 70: 105 observations
## predicted class=0 expected loss=0.02857143 P(node) =0.03150315
## class counts: 102 3
## probabilities: 0.971 0.029
##
## Node number 71: 103 observations, complexity param=0.01501035
## predicted class=1 expected loss=0.4466019 P(node) =0.03090309
## class counts: 46 57
## probabilities: 0.447 0.553
## left son=142 (32 obs) right son=143 (71 obs)
## Primary splits:
## MonthlyCharge < 62.05 to the left, improve=10.397660, (0 missing)
## RoamMins < 7.85 to the left, improve= 4.784517, (0 missing)
## DayCalls < 122.5 to the left, improve= 4.406465, (0 missing)
## DayMins < 226.7 to the right, improve= 2.995955, (0 missing)
## DataUsage < 0.19 to the right, improve= 2.502839, (0 missing)
## Surrogate splits:
## DayCalls < 66 to the left, agree=0.709, adj=0.062, (0 split)
## RoamMins < 13.85 to the right, agree=0.709, adj=0.062, (0 split)
## DataUsage < 0.355 to the right, agree=0.699, adj=0.031, (0 split)
## DayMins < 262.05 to the right, agree=0.699, adj=0.031, (0 split)
##

```

```

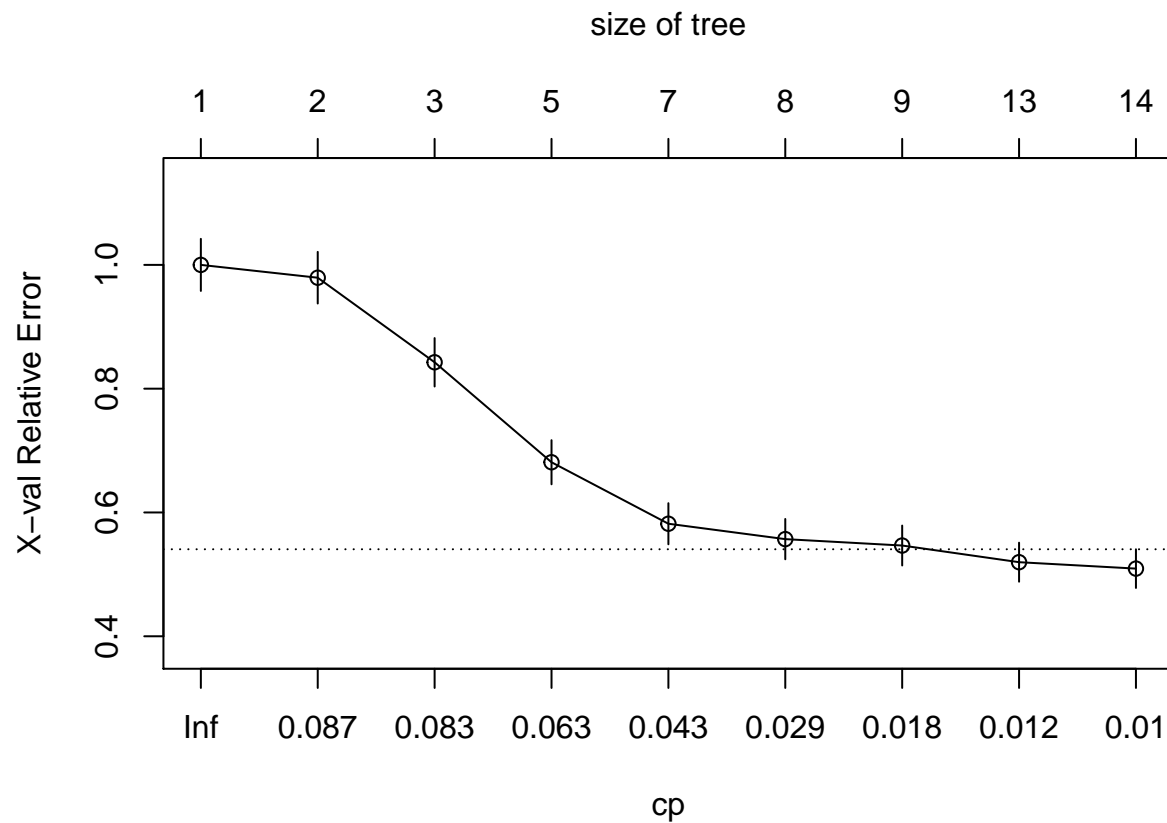
## Node number 142: 32 observations
##   predicted class=0   expected loss=0.21875   P(node) =0.00960096
##   class counts:      25      7
##   probabilities: 0.781 0.219
##
## Node number 143: 71 observations,   complexity param=0.01035197
##   predicted class=1   expected loss=0.2957746   P(node) =0.02130213
##   class counts:      21     50
##   probabilities: 0.296 0.704
##   left son=286 (13 obs) right son=287 (58 obs)
##   Primary splits:
##       RoamMins      < 7.9   to the left,   improve=5.004520, (0 missing)
##       DataUsage     < 0.19  to the right,  improve=3.254614, (0 missing)
##       DayCalls      < 107.5 to the left,   improve=2.442818, (0 missing)
##       MonthlyCharge < 65.5  to the left,   improve=2.134328, (0 missing)
##       AccountWeeks < 135   to the left,   improve=1.303453, (0 missing)
##
## Node number 286: 13 observations
##   predicted class=0   expected loss=0.3076923   P(node) =0.00390039
##   class counts:      9      4
##   probabilities: 0.692 0.308
##
## Node number 287: 58 observations
##   predicted class=1   expected loss=0.2068966   P(node) =0.01740174
##   class counts:      12     46
##   probabilities: 0.207 0.793

```

```
rpart.plot(decision_tree_model_new)
```



```
plotcp(decision_tree_model_new)
```



```
#Step 3: predict
```

```
test$Churn_predicted <- predict(decision_tree_model_new, newdata = test, type = "class")
```

```
#step 4 : evaluate
```

```
table(test$Churn, test$Churn_predicted)
```

```
##
##      0      1
## 0 2807    43
## 1   167   316
```

```
library(caret)
confusionMatrix(table(test$Churn, test$Churn_predicted))
```

```
## Confusion Matrix and Statistics
##
##
##      0      1
## 0 2807    43
## 1   167   316
```



```
##
##           Accuracy : 0.937
##           95% CI : (0.9282, 0.945)
##      No Information Rate : 0.8923
##      P-Value [Acc > NIR] : < 2.2e-16
##
##           Kappa : 0.7154
##
##      McNemar's Test P-Value : < 2.2e-16
##
##           Sensitivity : 0.9438
##           Specificity : 0.8802
##      Pos Pred Value : 0.9849
##      Neg Pred Value : 0.6542
##           Prevalence : 0.8923
##      Detection Rate : 0.8422
##      Detection Prevalence : 0.8551
##      Balanced Accuracy : 0.9120
##
##      'Positive' Class : 0
##

#tree pruning
#lets find the cp for which cv error would be minimum

min(decision_tree_model_new$cptable[, "xerror"])

## [1] 0.5093168

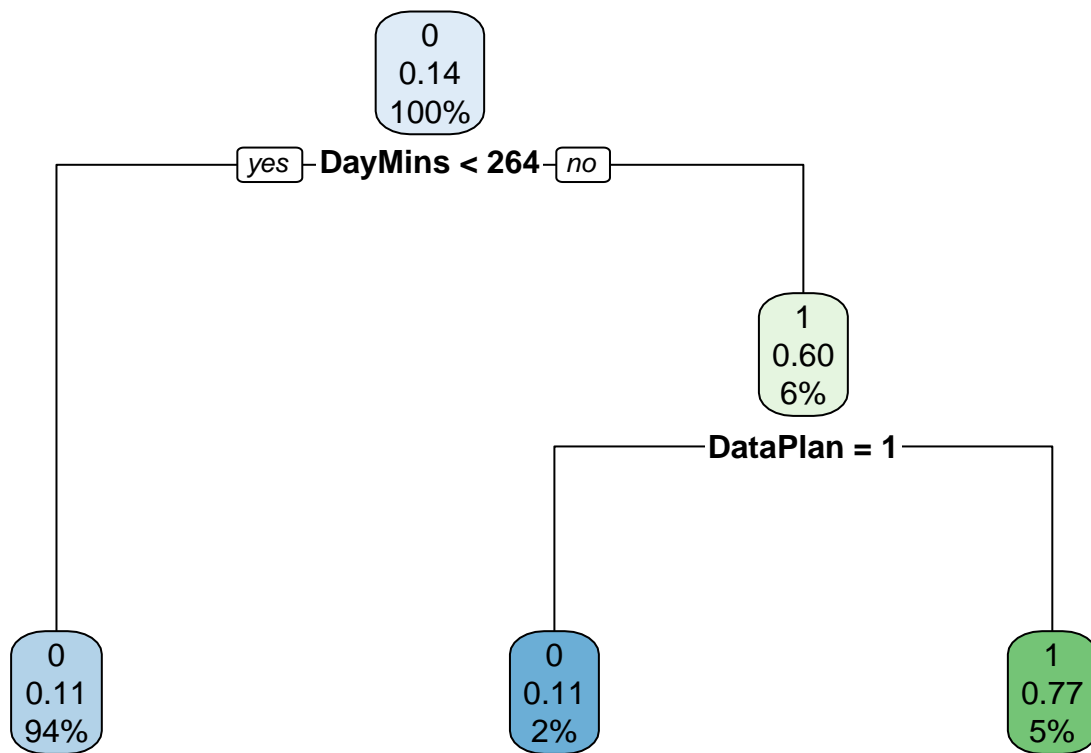
which.min(min(decision_tree_model_new$cptable[, "xerror"]))

## [1] 1

cpmin <- decision_tree_model_new$cptable[3, "CP"]

#Prune with cpmin

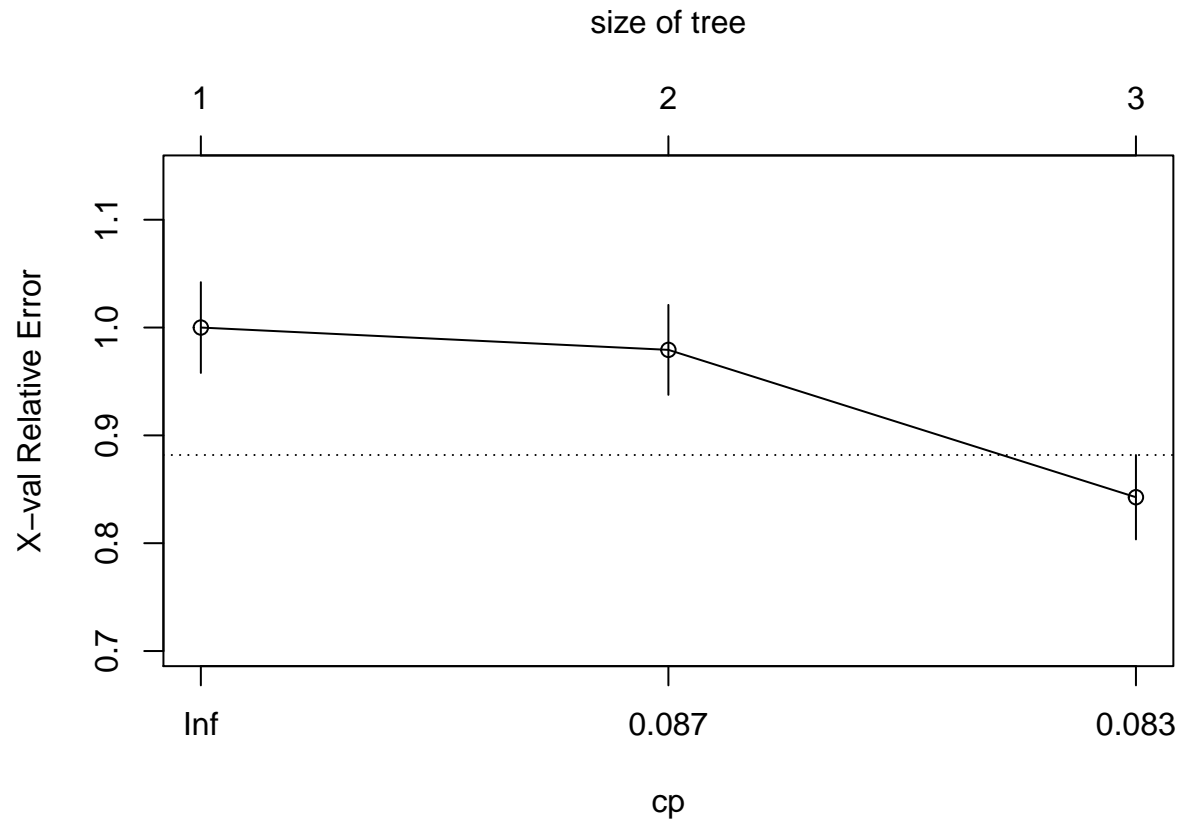
dec_tree_pruned <- prune(decision_tree_model_new, cp = cpmin)
rpart.plot(dec_tree_pruned)
```



```
printcp(dec_tree_pruned)
```

```
##
## Classification tree:
## rpart(formula = Churn ~ ., data = train, method = "class")
##
## Variables actually used in tree construction:
## [1] DataPlan DayMins
##
## Root node error: 483/3333 = 0.14491
##
## n= 3333
##
##      CP nsplit rel error  xerror   xstd
## 1 0.089027     0  1.00000 1.00000 0.042076
## 2 0.084886     1  0.91097 0.97930 0.041711
## 3 0.080745     2  0.82609 0.84265 0.039135
```

```
plotcp(dec_tree_pruned)
```



```
#new prediction
```

```
test$Churn_predicted <- predict(dec_tree_pruned, newdata = test, type = "class")
table(test$Churn, test$Churn_predicted)
```

```
##
##      0      1
## 0 2813    37
## 1   362   121
```

```
library(caret)
confusionMatrix(table(test$Churn, test$Churn_predicted))
```

```
## Confusion Matrix and Statistics
##
##
##      0      1
## 0 2813    37
## 1   362   121
##
##              Accuracy : 0.8803
##              95% CI   : (0.8688, 0.8911)
##    No Information Rate : 0.9526
##    P-Value [Acc > NIR] : 1
##
```

```
##           Kappa : 0.3296
##
## McNemar's Test P-Value : <2e-16
##
##           Sensitivity : 0.8860
##           Specificity : 0.7658
##           Pos Pred Value : 0.9870
##           Neg Pred Value : 0.2505
##           Prevalence : 0.9526
##           Detection Rate : 0.8440
##           Detection Prevalence : 0.8551
##           Balanced Accuracy : 0.8259
##
##           'Positive' Class : 0
##
```