

Assignment_1

2024-08-28

```
library(readxl)
```

Data source: <https://www.kaggle.com/danielkyrka/bmw-pricing-challenge/data> Importing and reading the data

```
data<- read_xlsx("C:/Users/echit/Documents/School/Fundamentals of Machine Learning/Assignment_1/bmw_pricing_challenge/data.xlsx")
```

Identify a few selected quantitative variables and print descriptive statistics

```
q_variables<-c("mileage","engine_power","price")
summary(data[q_variables])
```

```
##      mileage      engine_power      price
## Min.   :    -64   Min.   :    0   Min.   :   100
## 1st Qu.: 102914   1st Qu.:  100   1st Qu.: 10800
## Median : 141080   Median :  120   Median : 14200
## Mean   : 140963   Mean   :  129   Mean   : 15828
## 3rd Qu.: 175196   3rd Qu.:  135   3rd Qu.: 18600
## Max.   :1000376   Max.   :  423   Max.   :178500
```

Identify a few selected categorical variables and print descriptive statistics

```
c_variables<-c("fuel","paint_color","car_type")
table(data[c_variables])
```

```
## , , car_type = convertible
##
##           paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel          1     8   4     0     0   8       1   2       1     3
## electro          0     0   0     0     0   0       0   0       0     0
## hybrid_petrol    0     0   0     0     0   0       0   0       0     0
## petrol           0     6   1     0     0   6       1   2       0     3
##
## , , car_type = coupe
##
##           paint_color
```

```

## fuel      beige black blue brown green grey orange red silver white
## diesel    1    32  17    1    1  17    0    1    3    9
## electro   0    0   0    0    0   0    0    0    0    0
## hybrid_petrol 0    0   0    0    0   1    0    0    0    0
## petrol    0    4   1    0    0   9    0    0    3    4
##
## , , car_type = estate
##
##          paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel    8   526  234  119    3  415    0  13   100  156
## electro   0    0   0    0    0   0    0    0    0    0
## hybrid_petrol 0    0   0    0    0   0    0    0    0    0
## petrol    0   11   4    0    2  12    0    0    1    2
##
## , , car_type = hatchback
##
##          paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel    10  218  116   36    1  147    0   5    33   93
## electro   0    0   0    0    0   2    0    0    0    1
## hybrid_petrol 0    2   0    0    0   0    0    0    0    0
## petrol    0   19   3    2    0   6    0    0    2    3
##
## , , car_type = sedan
##
##          paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel    9   362  167  107    3  294    0  14    74   75
## electro   0    0   0    0    0   0    0    0    0    0
## hybrid_petrol 0    0   0    1    0   0    0    0    0    0
## petrol    1   19  13    1    2  15    0   1    4    6
##
## , , car_type = subcompact
##
##          paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel    0   35  25    2    0  25    1   0    9   12
## electro   0    0   0    0    0   0    0    0    0    0
## hybrid_petrol 0    1   0    0    0   0    0    0    0    0
## petrol    0    3   0    1    0   2    0    0    1    0
##
## , , car_type = suv
##
##          paint_color
## fuel      beige black blue brown green grey orange red silver white
## diesel    9   362  114   70    6  208    3  11    96  163
## electro   0    0   0    0    0   0    0    0    0    0
## hybrid_petrol 0    1   1    0    0   1    0    0    0    0
## petrol    0    9   1    0    0   0    0    1    1    1
##
## , , car_type = van
##
##          paint_color

```

| ## fuel | beige | black | blue | brown | green | grey | orange | red | silver | white |
|------------------|-------|-------|------|-------|-------|------|--------|-----|--------|-------|
| ## diesel | 1 | 15 | 9 | 1 | 0 | 7 | 0 | 2 | 1 | 6 |
| ## electro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## hybrid_petrol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ## petrol | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Transform at least one variable. It doesn't matter what the transformation is.
Log transformation on the price variable

```
print(data$price)
```

```
##      [1] 11300 69700 10200 25100 33400 17100 12400 6100 6200 17300
##      [11] 19300 13300 21700 36300 10500 8300 21900 9200 11000 7700
##      [21] 16800 31000 26300 23300 20800 1800 30100 28700 6500 11100
##      [31] 9900 9500 31000 27500 5500 6300 2400 6800 24200 11800
##      [41] 34300 12100 15800 8000 9000 24300 2600 21400 26200 8400
##      [51] 17100 7500 23800 26500 27700 18300 2300 30200 1000 19000
##      [61] 30500 28600 38900 36300 27700 32100 11900 47000 55200 16100
##      [71] 26200 19500 53600 28000 22400 32000 26400 8600 31500 39900
##      [81] 8900 23800 18400 16900 30000 8200 36900 7500 23400 23000
##      [91] 95200 23200 25300 28600 27000 9200 22500 3100 14600 26100
##     [101] 8200 8700 27700 23800 23500 28000 26800 10500 32100 22000
##     [111] 28600 21800 36500 17800 30700 45800 28700 22400 23300 27600
##     [121] 12900 26800 21800 24100 8500 17000 24200 8700 18300 7600
##     [131] 9300 25000 8900 19000 12500 16700 8900 17100 29200 35700
##     [141] 11300 10700 19300 7700 8300 12800 2700 23800 15000 10900
##     [151] 23100 5400 11700 16500 11400 8200 13100 7600 14500 12700
##     [161] 21300 6000 7900 8900 6500 800 10900 13100 18200 14400
##     [171] 800 800 9000 13300 1100 6500 12200 15800 10200 1000
##     [181] 11500 18700 18600 11400 7700 2400 11900 800 800 11200
##     [191] 9400 18900 9000 23400 23700 15400 13700 800 10900 13300
##     [201] 18000 6000 800 13600 17800 9200 6100 13000 11500 9300
##     [211] 8600 20200 12600 800 18200 1200 11900 15100 12000 12700
##     [221] 14300 7700 800 4300 12100 12100 12900 10600 20200 14200
##     [231] 8000 11700 11300 15600 10100 10200 14900 17800 13700 12500
##     [241] 5100 10200 15400 14300 11900 800 7300 10700 10400 16100
##     [251] 9900 10000 1200 16300 17800 15600 8800 3900 10500 13700
##     [261] 12400 12400 3000 10400 16800 14800 13100 15200 18100 11400
##     [271] 13700 6400 9600 4900 6000 8200 11300 1400 14900 10600
##     [281] 14200 15000 9400 12300 15000 9900 13100 13200 19200 13200
##     [291] 20600 14900 17800 14200 13800 20300 22100 20800 11300 8400
##     [301] 12900 12000 16400 14800 14600 28800 19900 19800 15600 5400
##     [311] 20000 11400 12700 14600 7700 25500 17700 25600 26700 11400
##     [321] 25600 19900 11700 10800 16100 15200 13100 800 15800 12600
##     [331] 800 16300 13700 5000 13300 12600 31300 13100 11100 800
##     [341] 25500 11200 20600 13100 10600 14300 15000 10500 9400 13600
##     [351] 14500 15400 5000 15400 9300 13400 9900 12600 17100 9700
##     [361] 20000 17300 17400 14900 19300 12100 3800 8600 9500 12900
##     [371] 15400 12600 14600 14500 11800 13000 6200 10100 17000 11000
##     [381] 800 12900 10200 12600 14900 9600 19000 14300 14900 11400
##     [391] 12700 11200 13600 15700 15600 8000 25200 15500 11700 13100
##     [401] 15600 15700 16200 11900 25800 15200 13300 9900 15500 11700
```

| | | | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [411] | 20900 | 10100 | 11100 | 23500 | 13100 | 27400 | 23900 | 4500 | 13700 | 19000 |
| ## | [421] | 13800 | 11700 | 10000 | 15800 | 800 | 9500 | 14200 | 11100 | 9800 | 12300 |
| ## | [431] | 24300 | 10600 | 16200 | 16300 | 10100 | 13700 | 11900 | 6600 | 5500 | 13800 |
| ## | [441] | 14200 | 23200 | 12100 | 12800 | 15400 | 9900 | 15400 | 15800 | 12100 | 10500 |
| ## | [451] | 9400 | 17700 | 15400 | 12000 | 10100 | 18100 | 14600 | 18800 | 10400 | 20300 |
| ## | [461] | 7500 | 20500 | 6000 | 11900 | 12100 | 19000 | 16500 | 15000 | 9500 | 8200 |
| ## | [471] | 16400 | 21400 | 12600 | 1500 | 13000 | 12100 | 22100 | 14900 | 15700 | 13900 |
| ## | [481] | 10200 | 17700 | 11000 | 15500 | 12700 | 5400 | 11900 | 12400 | 20200 | 10500 |
| ## | [491] | 12300 | 5800 | 9900 | 17700 | 15000 | 18400 | 15000 | 8600 | 16700 | 10600 |
| ## | [501] | 9500 | 10100 | 24800 | 15500 | 11400 | 6900 | 11600 | 17800 | 30600 | 6900 |
| ## | [511] | 11200 | 11300 | 18600 | 17400 | 12600 | 16700 | 14200 | 10900 | 6900 | 33900 |
| ## | [521] | 3600 | 13700 | 14600 | 6900 | 13100 | 18000 | 15500 | 12200 | 36000 | 13800 |
| ## | [531] | 11200 | 14500 | 22100 | 30200 | 10500 | 25300 | 14400 | 500 | 7200 | 13600 |
| ## | [541] | 11300 | 14600 | 16400 | 20700 | 16700 | 22700 | 11300 | 9000 | 20300 | 11500 |
| ## | [551] | 13400 | 19600 | 15400 | 12900 | 15200 | 15500 | 16100 | 8300 | 13200 | 24300 |
| ## | [561] | 12500 | 8300 | 10100 | 22200 | 15600 | 100 | 6400 | 14900 | 10900 | 15000 |
| ## | [571] | 17600 | 14600 | 14600 | 20100 | 12300 | 20500 | 10500 | 21800 | 9400 | 22900 |
| ## | [581] | 16400 | 20000 | 4000 | 14500 | 800 | 18600 | 28800 | 10100 | 800 | 12600 |
| ## | [591] | 16100 | 10000 | 14900 | 10800 | 4200 | 17000 | 12700 | 13400 | 21500 | 11200 |
| ## | [601] | 8700 | 13400 | 18600 | 14900 | 17800 | 9600 | 16900 | 14500 | 11500 | 9900 |
| ## | [611] | 8200 | 16100 | 14000 | 18900 | 11700 | 12600 | 17600 | 14000 | 11600 | 22400 |
| ## | [621] | 12500 | 10700 | 12100 | 9500 | 21400 | 10200 | 10000 | 16900 | 15100 | 12700 |
| ## | [631] | 100 | 4500 | 9500 | 10800 | 11700 | 16900 | 17600 | 12700 | 16700 | 12500 |
| ## | [641] | 16400 | 10600 | 9500 | 13700 | 10600 | 15400 | 20200 | 800 | 9600 | 15600 |
| ## | [651] | 11900 | 10700 | 17700 | 15800 | 13400 | 10500 | 19200 | 12500 | 11800 | 9200 |
| ## | [661] | 22600 | 20900 | 21400 | 5000 | 12700 | 9500 | 16200 | 19600 | 13300 | 11800 |
| ## | [671] | 10500 | 5100 | 20100 | 12100 | 15300 | 10700 | 14300 | 13100 | 14600 | 4300 |
| ## | [681] | 19200 | 11500 | 12100 | 800 | 20500 | 1300 | 15600 | 8900 | 14900 | 15100 |
| ## | [691] | 11400 | 11900 | 1900 | 13400 | 10600 | 6500 | 12900 | 11300 | 8200 | 8200 |
| ## | [701] | 13400 | 5700 | 9600 | 12100 | 14900 | 6100 | 19900 | 800 | 18100 | 12000 |
| ## | [711] | 7500 | 15800 | 15200 | 14300 | 13100 | 11500 | 26300 | 13400 | 17700 | 19600 |
| ## | [721] | 7700 | 4500 | 4400 | 10600 | 22400 | 9800 | 10400 | 12200 | 23200 | 11500 |
| ## | [731] | 11400 | 14100 | 17600 | 21700 | 14600 | 14800 | 10900 | 13700 | 7400 | 12600 |
| ## | [741] | 23100 | 3700 | 22400 | 13700 | 16500 | 3700 | 10400 | 13400 | 22200 | 16400 |
| ## | [751] | 22000 | 9200 | 18800 | 13900 | 19000 | 15200 | 13800 | 15600 | 5600 | 12100 |
| ## | [761] | 14300 | 7100 | 20300 | 14200 | 11900 | 16100 | 23100 | 14600 | 9700 | 9500 |
| ## | [771] | 7600 | 5000 | 14900 | 18100 | 14000 | 17100 | 16400 | 21500 | 8000 | 15600 |
| ## | [781] | 13100 | 21400 | 18900 | 12600 | 15800 | 20200 | 10700 | 13400 | 15800 | 15700 |
| ## | [791] | 18000 | 16300 | 26800 | 18800 | 8200 | 14400 | 18600 | 11400 | 16100 | 10800 |
| ## | [801] | 16400 | 1900 | 23500 | 20100 | 7600 | 11900 | 11800 | 6100 | 6700 | 4200 |
| ## | [811] | 11700 | 16700 | 15000 | 20500 | 11400 | 14100 | 800 | 20100 | 19000 | 15500 |
| ## | [821] | 11400 | 17300 | 19300 | 9500 | 19300 | 14900 | 9900 | 20700 | 8100 | 10200 |
| ## | [831] | 5500 | 18400 | 14300 | 5000 | 10500 | 12600 | 20300 | 10800 | 4900 | 11800 |
| ## | [841] | 1300 | 14000 | 13600 | 16700 | 800 | 21200 | 10700 | 15400 | 14000 | 12500 |
| ## | [851] | 7700 | 9400 | 16700 | 14400 | 19600 | 5800 | 6000 | 8400 | 15800 | 8200 |
| ## | [861] | 18600 | 1900 | 5800 | 13300 | 7700 | 11100 | 22400 | 15100 | 11300 | 8800 |
| ## | [871] | 12300 | 6700 | 19600 | 16100 | 14000 | 15200 | 17100 | 11400 | 23200 | 100 |
| ## | [881] | 21200 | 17300 | 4200 | 12000 | 15800 | 15600 | 14900 | 15200 | 6700 | 19000 |
| ## | [891] | 14300 | 26800 | 13800 | 12700 | 16900 | 19800 | 29600 | 18000 | 17400 | 11300 |
| ## | [901] | 12300 | 13300 | 25300 | 8600 | 13000 | 8100 | 12300 | 30100 | 12100 | 5400 |
| ## | [911] | 11800 | 9600 | 10700 | 12900 | 15500 | 19200 | 15000 | 25100 | 14000 | 27700 |
| ## | [921] | 12700 | 17700 | 15700 | 12600 | 17300 | 11300 | 10800 | 18100 | 11300 | 16500 |
| ## | [931] | 14400 | 5000 | 9300 | 10100 | 12700 | 12000 | 15000 | 16700 | 20800 | 19800 |
| ## | [941] | 19500 | 10900 | 12700 | 14000 | 6800 | 12300 | 10200 | 7600 | 8900 | 19000 |

| | | | | | | | | | | | |
|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [951] | 17800 | 10900 | 16500 | 7800 | 24800 | 6800 | 8400 | 14200 | 7300 | 14000 |
| ## | [961] | 19600 | 15800 | 16500 | 13200 | 11800 | 14900 | 11100 | 26900 | 13400 | 14500 |
| ## | [971] | 23800 | 13900 | 14300 | 8900 | 14300 | 37100 | 15000 | 17400 | 13700 | 8200 |
| ## | [981] | 14500 | 15200 | 14300 | 7000 | 16700 | 15700 | 13200 | 11800 | 11100 | 18100 |
| ## | [991] | 10800 | 22900 | 7100 | 15000 | 26100 | 14500 | 13800 | 13700 | 12100 | 14500 |
| ## | [1001] | 13600 | 12600 | 19800 | 3500 | 18900 | 14000 | 13200 | 14600 | 9200 | 7400 |
| ## | [1011] | 9500 | 14900 | 13600 | 11100 | 17600 | 15400 | 17600 | 9900 | 13400 | 9900 |
| ## | [1021] | 6000 | 11200 | 17300 | 11800 | 12500 | 16700 | 9800 | 22800 | 9500 | 18100 |
| ## | [1031] | 7300 | 12600 | 10600 | 14800 | 6700 | 12500 | 4000 | 8600 | 22500 | 12500 |
| ## | [1041] | 16400 | 12500 | 20100 | 15400 | 24900 | 6800 | 14900 | 8300 | 19800 | 15200 |
| ## | [1051] | 17800 | 11200 | 22500 | 11400 | 3200 | 13300 | 28600 | 12300 | 16900 | 13800 |
| ## | [1061] | 27700 | 17400 | 19500 | 5700 | 13400 | 4500 | 18900 | 24200 | 30000 | 11300 |
| ## | [1071] | 12400 | 10100 | 14000 | 11100 | 14100 | 8400 | 15100 | 8000 | 8300 | 7300 |
| ## | [1081] | 23300 | 10700 | 15100 | 9500 | 15400 | 12500 | 8300 | 17100 | 15700 | 14000 |
| ## | [1091] | 10500 | 11100 | 9900 | 14900 | 11400 | 14400 | 16500 | 18900 | 16200 | 10100 |
| ## | [1101] | 11800 | 12500 | 18800 | 15600 | 13700 | 13900 | 20300 | 8900 | 20200 | 20200 |
| ## | [1111] | 2100 | 12500 | 5400 | 12600 | 14400 | 15700 | 9400 | 10700 | 11400 | 10700 |
| ## | [1121] | 22100 | 16500 | 11100 | 14300 | 28400 | 22000 | 13700 | 13400 | 11500 | 15100 |
| ## | [1131] | 23000 | 3000 | 12900 | 17100 | 11600 | 5100 | 13600 | 14200 | 12000 | 17400 |
| ## | [1141] | 19300 | 14000 | 19500 | 10400 | 12600 | 7000 | 13700 | 12600 | 11200 | 11500 |
| ## | [1151] | 7300 | 18200 | 14700 | 6000 | 6500 | 8400 | 14200 | 12500 | 11600 | 15700 |
| ## | [1161] | 19900 | 3800 | 27600 | 9500 | 16300 | 15500 | 16900 | 11800 | 12400 | 11200 |
| ## | [1171] | 17000 | 15900 | 12000 | 9300 | 5600 | 11300 | 12900 | 15700 | 12900 | 12400 |
| ## | [1181] | 13100 | 14800 | 5300 | 9300 | 15000 | 9900 | 11400 | 10000 | 9600 | 20300 |
| ## | [1191] | 1200 | 14600 | 20900 | 2500 | 8400 | 14300 | 12100 | 10200 | 11200 | 13900 |
| ## | [1201] | 28200 | 13300 | 13700 | 8600 | 14800 | 11900 | 19000 | 12300 | 16100 | 6900 |
| ## | [1211] | 3600 | 14400 | 16700 | 17500 | 3700 | 19800 | 16200 | 15100 | 4800 | 7100 |
| ## | [1221] | 9500 | 17300 | 27300 | 11800 | 13100 | 9200 | 11700 | 11100 | 11300 | 23800 |
| ## | [1231] | 10600 | 6000 | 14000 | 19900 | 13200 | 29200 | 23800 | 16300 | 5500 | 10400 |
| ## | [1241] | 12500 | 13100 | 17300 | 9400 | 14200 | 16700 | 9500 | 13000 | 11900 | 13800 |
| ## | [1251] | 12900 | 3600 | 17500 | 13300 | 12100 | 100 | 11200 | 21900 | 11100 | 12500 |
| ## | [1261] | 10400 | 10600 | 19900 | 9500 | 8300 | 1200 | 14500 | 16200 | 13300 | 12300 |
| ## | [1271] | 7700 | 14400 | 19300 | 12500 | 12300 | 10500 | 10900 | 11800 | 10400 | 18600 |
| ## | [1281] | 19300 | 14500 | 29800 | 15400 | 14900 | 11000 | 14400 | 4200 | 13000 | 10200 |
| ## | [1291] | 16200 | 15200 | 7400 | 13100 | 14000 | 17100 | 17700 | 12500 | 13700 | 16500 |
| ## | [1301] | 8900 | 18000 | 16300 | 14600 | 10900 | 18300 | 21400 | 20300 | 10800 | 15000 |
| ## | [1311] | 11700 | 9400 | 11300 | 6400 | 11900 | 16100 | 13100 | 9600 | 11200 | 6100 |
| ## | [1321] | 22800 | 14900 | 19500 | 14500 | 18300 | 16100 | 11300 | 15200 | 17800 | 15100 |
| ## | [1331] | 12300 | 11200 | 13800 | 22600 | 10400 | 21800 | 13900 | 14500 | 14300 | 22400 |
| ## | [1341] | 6000 | 12700 | 13100 | 10700 | 28600 | 4800 | 13800 | 18300 | 7300 | 10400 |
| ## | [1351] | 10600 | 15100 | 10700 | 21200 | 17300 | 14600 | 14800 | 12100 | 13300 | 18000 |
| ## | [1361] | 13100 | 20300 | 6500 | 12500 | 11700 | 13000 | 11200 | 4200 | 13400 | 18400 |
| ## | [1371] | 11300 | 15100 | 4200 | 5800 | 10100 | 16800 | 14300 | 13100 | 12000 | 18100 |
| ## | [1381] | 14800 | 12800 | 17300 | 20200 | 4900 | 20000 | 16900 | 14800 | 11700 | 13200 |
| ## | [1391] | 13800 | 10700 | 17300 | 16400 | 4800 | 10700 | 13100 | 20700 | 10400 | 10700 |
| ## | [1401] | 11300 | 7900 | 15000 | 1900 | 6400 | 6800 | 8200 | 24900 | 5000 | 13400 |
| ## | [1411] | 12000 | 14000 | 16800 | 10900 | 21100 | 11000 | 10000 | 5100 | 6200 | 10700 |
| ## | [1421] | 15000 | 13700 | 15400 | 15000 | 4200 | 11200 | 12500 | 5100 | 13700 | 20300 |
| ## | [1431] | 13100 | 15500 | 12600 | 13100 | 12900 | 15400 | 16400 | 16900 | 8000 | 4000 |
| ## | [1441] | 20900 | 21300 | 12500 | 11100 | 17000 | 13100 | 9400 | 20800 | 4400 | 8100 |
| ## | [1451] | 12100 | 5400 | 9000 | 10200 | 17800 | 18200 | 11900 | 14900 | 13100 | 9400 |
| ## | [1461] | 9500 | 10400 | 4000 | 6100 | 5700 | 15000 | 10700 | 14500 | 20300 | 13600 |
| ## | [1471] | 19000 | 9000 | 11300 | 13400 | 12100 | 11500 | 11700 | 18400 | 14200 | 4800 |
| ## | [1481] | 15400 | 13000 | 11100 | 11300 | 11200 | 13300 | 14300 | 12600 | 7000 | 9300 |

| | | | | | | | | | | | |
|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [1491] | 15500 | 16100 | 13800 | 18800 | 4600 | 9600 | 12700 | 10800 | 8300 | 12600 |
| ## | [1501] | 14400 | 14400 | 12500 | 12600 | 5000 | 15100 | 17400 | 14300 | 25000 | 10900 |
| ## | [1511] | 13000 | 5100 | 13700 | 400 | 15200 | 15200 | 9300 | 11000 | 16500 | 12500 |
| ## | [1521] | 5000 | 13400 | 18800 | 16100 | 16100 | 15800 | 16100 | 13400 | 11900 | 14200 |
| ## | [1531] | 17800 | 1300 | 4800 | 13800 | 10500 | 17000 | 9300 | 11100 | 22000 | 18100 |
| ## | [1541] | 7100 | 19000 | 19600 | 4800 | 12300 | 9800 | 6000 | 15100 | 13400 | 8800 |
| ## | [1551] | 15600 | 10100 | 18600 | 17100 | 13100 | 6300 | 16400 | 13200 | 400 | 20700 |
| ## | [1561] | 12500 | 16400 | 11800 | 14500 | 20000 | 12000 | 14300 | 15000 | 15700 | 3800 |
| ## | [1571] | 14300 | 10400 | 1200 | 1800 | 10700 | 10000 | 11500 | 14300 | 7500 | 7600 |
| ## | [1581] | 11200 | 9300 | 9900 | 13000 | 11700 | 13300 | 12300 | 1600 | 12800 | 13600 |
| ## | [1591] | 13000 | 10700 | 9200 | 15000 | 10800 | 12900 | 13200 | 6300 | 15200 | 14900 |
| ## | [1601] | 14000 | 15600 | 12100 | 9200 | 13600 | 16100 | 13400 | 14000 | 10500 | 10500 |
| ## | [1611] | 17100 | 12700 | 28900 | 14200 | 29200 | 17600 | 14200 | 4800 | 11200 | 4200 |
| ## | [1621] | 16100 | 9500 | 14200 | 13100 | 16100 | 12200 | 4500 | 15100 | 3200 | 13900 |
| ## | [1631] | 9300 | 8800 | 10100 | 6500 | 6000 | 15300 | 15200 | 6300 | 14500 | 14100 |
| ## | [1641] | 12100 | 11300 | 4800 | 13100 | 12400 | 11800 | 13200 | 9900 | 5000 | 12000 |
| ## | [1651] | 9800 | 10800 | 14800 | 9900 | 13400 | 10400 | 13600 | 11200 | 15800 | 25300 |
| ## | [1661] | 20100 | 21500 | 12000 | 3600 | 10800 | 13700 | 14300 | 5000 | 23400 | 11800 |
| ## | [1671] | 14300 | 12500 | 14800 | 8400 | 20400 | 13300 | 11700 | 14900 | 16800 | 16400 |
| ## | [1681] | 9000 | 11500 | 4300 | 11300 | 19000 | 10200 | 17300 | 10100 | 800 | 11400 |
| ## | [1691] | 7500 | 12100 | 10700 | 10000 | 9400 | 11400 | 14900 | 10900 | 40900 | 9500 |
| ## | [1701] | 16100 | 10600 | 13600 | 11200 | 4900 | 12800 | 5500 | 11900 | 13800 | 12900 |
| ## | [1711] | 9900 | 11900 | 9300 | 11500 | 10700 | 4000 | 14600 | 8900 | 12500 | 15700 |
| ## | [1721] | 14000 | 13600 | 7000 | 3500 | 17700 | 10100 | 13800 | 7900 | 10000 | 6800 |
| ## | [1731] | 9600 | 12500 | 3200 | 5000 | 6700 | 14900 | 13300 | 5500 | 14900 | 20800 |
| ## | [1741] | 6900 | 7100 | 15500 | 14300 | 3300 | 11500 | 10800 | 8600 | 14300 | 9800 |
| ## | [1751] | 16300 | 10900 | 11400 | 6400 | 20500 | 14200 | 19500 | 10200 | 14200 | 10000 |
| ## | [1761] | 6000 | 14900 | 9300 | 10900 | 6000 | 12000 | 10100 | 11700 | 10800 | 13000 |
| ## | [1771] | 3600 | 10600 | 9900 | 8000 | 12000 | 9800 | 9900 | 11300 | 11000 | 15000 |
| ## | [1781] | 13300 | 22600 | 13400 | 13700 | 2400 | 11100 | 22600 | 9500 | 10000 | 13200 |
| ## | [1791] | 11300 | 11100 | 10200 | 3600 | 9300 | 10500 | 20300 | 5000 | 12800 | 4400 |
| ## | [1801] | 9100 | 13100 | 10900 | 8600 | 8300 | 900 | 12000 | 10700 | 8900 | 3500 |
| ## | [1811] | 15700 | 9900 | 24400 | 30200 | 10900 | 11200 | 21200 | 17100 | 8900 | 5000 |
| ## | [1821] | 9000 | 15200 | 11200 | 15800 | 21100 | 18200 | 3000 | 16200 | 15800 | 11500 |
| ## | [1831] | 9400 | 11900 | 100 | 8900 | 16600 | 9200 | 15400 | 16700 | 17000 | 8400 |
| ## | [1841] | 19200 | 11200 | 24400 | 13100 | 21700 | 12400 | 4500 | 10700 | 25700 | 5500 |
| ## | [1851] | 6400 | 18300 | 10400 | 14500 | 13800 | 16100 | 12100 | 11900 | 10700 | 4900 |
| ## | [1861] | 4600 | 3300 | 8900 | 7300 | 13000 | 15100 | 11500 | 13700 | 17000 | 11400 |
| ## | [1871] | 8000 | 15400 | 9500 | 16800 | 22500 | 10100 | 14300 | 8600 | 800 | 10500 |
| ## | [1881] | 17300 | 3600 | 12500 | 15700 | 22400 | 16100 | 15400 | 11900 | 8700 | 13700 |
| ## | [1891] | 8000 | 13700 | 10600 | 16500 | 13400 | 20900 | 15700 | 9800 | 8300 | 25700 |
| ## | [1901] | 14700 | 11900 | 14300 | 19200 | 12700 | 6700 | 9700 | 6400 | 16200 | 30800 |
| ## | [1911] | 15100 | 4900 | 29500 | 15100 | 6000 | 10100 | 8300 | 9000 | 15200 | 5700 |
| ## | [1921] | 15100 | 9000 | 11700 | 9000 | 9600 | 15500 | 6300 | 10000 | 10600 | 15600 |
| ## | [1931] | 10900 | 14900 | 16100 | 9400 | 3800 | 18100 | 11000 | 4000 | 5400 | 12000 |
| ## | [1941] | 6700 | 10000 | 12700 | 7700 | 8300 | 16200 | 7900 | 10100 | 13700 | 15800 |
| ## | [1951] | 12800 | 13200 | 15900 | 20600 | 11900 | 16700 | 2800 | 14300 | 14300 | 7300 |
| ## | [1961] | 11500 | 8400 | 23900 | 11300 | 7300 | 17300 | 13100 | 5000 | 9000 | 17500 |
| ## | [1971] | 13300 | 12800 | 9900 | 12400 | 9500 | 16100 | 17300 | 12500 | 20500 | 3300 |
| ## | [1981] | 14900 | 11400 | 16200 | 11800 | 21700 | 17000 | 27400 | 9000 | 8200 | 10900 |
| ## | [1991] | 14800 | 9800 | 16400 | 8900 | 15800 | 19200 | 18800 | 29200 | 10000 | 9200 |
| ## | [2001] | 16100 | 9300 | 23800 | 9800 | 10100 | 13600 | 9900 | 9400 | 22100 | 8300 |
| ## | [2011] | 14500 | 13800 | 12900 | 21500 | 10900 | 5400 | 9500 | 15500 | 16800 | 9900 |
| ## | [2021] | 8600 | 21400 | 11900 | 12900 | 18700 | 10800 | 17600 | 10200 | 10800 | 15600 |

| | | | | | | | | | | | |
|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [2031] | 9800 | 9000 | 11900 | 6900 | 8100 | 9300 | 14600 | 9500 | 10100 | 15100 |
| ## | [2041] | 22300 | 8800 | 18000 | 11700 | 20300 | 8900 | 13300 | 14300 | 3800 | 10900 |
| ## | [2051] | 11300 | 11700 | 11400 | 22800 | 9500 | 24500 | 14900 | 16900 | 13300 | 17700 |
| ## | [2061] | 13700 | 8700 | 9000 | 9000 | 18400 | 14900 | 9300 | 9800 | 13100 | 16100 |
| ## | [2071] | 17000 | 24100 | 21300 | 12500 | 14900 | 13400 | 14200 | 11400 | 8300 | 15700 |
| ## | [2081] | 7900 | 12900 | 16700 | 10500 | 15900 | 8100 | 9500 | 16400 | 14400 | 7100 |
| ## | [2091] | 8000 | 25000 | 20500 | 22300 | 13200 | 13400 | 4300 | 12800 | 5100 | 3600 |
| ## | [2101] | 16200 | 9500 | 11900 | 25500 | 19300 | 14400 | 16700 | 9200 | 10600 | 8100 |
| ## | [2111] | 6100 | 4200 | 9000 | 17200 | 12000 | 14200 | 9800 | 14400 | 9300 | 10700 |
| ## | [2121] | 8200 | 20200 | 26200 | 10800 | 14500 | 22400 | 10100 | 21200 | 11900 | 16200 |
| ## | [2131] | 13400 | 9800 | 3300 | 21500 | 17600 | 16800 | 9200 | 13400 | 7300 | 20100 |
| ## | [2141] | 12900 | 19900 | 15400 | 24400 | 6300 | 11300 | 29800 | 13300 | 18200 | 10100 |
| ## | [2151] | 16700 | 3200 | 14900 | 11400 | 10200 | 15800 | 15700 | 15100 | 18600 | 18700 |
| ## | [2161] | 25900 | 19000 | 10700 | 20600 | 15500 | 34500 | 8700 | 22700 | 10800 | 12300 |
| ## | [2171] | 12600 | 9200 | 8700 | 17300 | 4600 | 17500 | 3500 | 13900 | 32100 | 7100 |
| ## | [2181] | 8900 | 10300 | 23500 | 12200 | 12100 | 9300 | 11200 | 40500 | 14400 | 9200 |
| ## | [2191] | 11100 | 13100 | 10000 | 8900 | 22000 | 20600 | 13400 | 13600 | 23000 | 18300 |
| ## | [2201] | 24500 | 16200 | 15900 | 10600 | 11900 | 14500 | 8600 | 13900 | 10900 | 10900 |
| ## | [2211] | 13700 | 24700 | 8700 | 10700 | 19600 | 8100 | 18600 | 11500 | 8400 | 9000 |
| ## | [2221] | 7000 | 11900 | 21700 | 13200 | 10700 | 12400 | 5700 | 9800 | 5600 | 17600 |
| ## | [2231] | 29500 | 8200 | 15300 | 13300 | 9500 | 15900 | 9900 | 16100 | 9600 | 4200 |
| ## | [2241] | 9900 | 9400 | 22700 | 11600 | 9500 | 12300 | 9000 | 12300 | 6200 | 4900 |
| ## | [2251] | 9600 | 9600 | 8300 | 14000 | 27000 | 16100 | 12600 | 19600 | 10100 | 16400 |
| ## | [2261] | 9400 | 14300 | 13300 | 10100 | 5700 | 16300 | 13100 | 13800 | 9000 | 10800 |
| ## | [2271] | 12700 | 8700 | 9900 | 6200 | 6300 | 25000 | 25100 | 10200 | 15200 | 12100 |
| ## | [2281] | 9400 | 15500 | 18100 | 15100 | 6900 | 10100 | 4900 | 7900 | 12700 | 12900 |
| ## | [2291] | 9000 | 14900 | 8300 | 14600 | 9200 | 22800 | 10700 | 16500 | 9000 | 30900 |
| ## | [2301] | 18900 | 8900 | 13600 | 9600 | 10800 | 13400 | 20000 | 35700 | 10100 | 16700 |
| ## | [2311] | 23500 | 22000 | 15100 | 10700 | 5400 | 19600 | 40000 | 20800 | 10200 | 11500 |
| ## | [2321] | 4900 | 11200 | 8900 | 3300 | 30000 | 24900 | 36500 | 9200 | 10800 | 25000 |
| ## | [2331] | 7700 | 15200 | 12700 | 21900 | 10200 | 10100 | 1100 | 13100 | 9600 | 16300 |
| ## | [2341] | 12900 | 13700 | 22600 | 10600 | 10500 | 8600 | 9600 | 12000 | 14200 | 10100 |
| ## | [2351] | 1200 | 18000 | 3600 | 10800 | 15500 | 8300 | 13300 | 10700 | 17400 | 26200 |
| ## | [2361] | 9500 | 23600 | 12600 | 21200 | 13200 | 9900 | 19200 | 9400 | 14400 | 12000 |
| ## | [2371] | 14000 | 9400 | 16100 | 10000 | 4000 | 10400 | 20700 | 9900 | 4400 | 10000 |
| ## | [2381] | 8200 | 27400 | 16400 | 15500 | 20000 | 9800 | 13400 | 7600 | 11400 | 10900 |
| ## | [2391] | 1000 | 9200 | 12900 | 7900 | 32100 | 11300 | 9500 | 21300 | 5000 | 15200 |
| ## | [2401] | 14300 | 10600 | 16900 | 32100 | 28100 | 17100 | 24400 | 11900 | 8300 | 30300 |
| ## | [2411] | 10700 | 4500 | 23500 | 6000 | 25100 | 39300 | 14300 | 10100 | 23300 | 20700 |
| ## | [2421] | 9400 | 10200 | 33100 | 10200 | 11800 | 10900 | 10600 | 14200 | 10600 | 7600 |
| ## | [2431] | 8400 | 29200 | 9300 | 20500 | 9800 | 10500 | 8100 | 10700 | 4400 | 22000 |
| ## | [2441] | 8600 | 8300 | 13000 | 10900 | 5000 | 32800 | 19500 | 8900 | 17500 | 26200 |
| ## | [2451] | 8400 | 3900 | 13300 | 15500 | 9400 | 16700 | 17600 | 11100 | 10900 | 15600 |
| ## | [2461] | 10800 | 1800 | 13300 | 13300 | 13000 | 11900 | 10500 | 2100 | 18200 | 24000 |
| ## | [2471] | 11400 | 14600 | 14400 | 200 | 17400 | 12000 | 17300 | 13200 | 10900 | 11400 |
| ## | [2481] | 18200 | 17300 | 12100 | 24800 | 15600 | 12700 | 9600 | 19300 | 15000 | 11200 |
| ## | [2491] | 15900 | 16400 | 16700 | 16700 | 700 | 8600 | 20500 | 16300 | 15600 | 14500 |
| ## | [2501] | 12600 | 19200 | 20100 | 16700 | 18100 | 3600 | 19800 | 7900 | 14900 | 16400 |
| ## | [2511] | 13300 | 14000 | 11700 | 3800 | 22300 | 17500 | 13700 | 15600 | 10800 | 19400 |
| ## | [2521] | 5800 | 18000 | 13700 | 5800 | 13600 | 12700 | 33300 | 19000 | 12600 | 13600 |
| ## | [2531] | 17500 | 20200 | 14400 | 19900 | 14200 | 19500 | 15500 | 8400 | 21200 | 11100 |
| ## | [2541] | 37200 | 16500 | 14900 | 15100 | 14000 | 13700 | 19000 | 5500 | 13600 | 16100 |
| ## | [2551] | 16100 | 26800 | 9800 | 11900 | 19200 | 21300 | 8200 | 15500 | 17800 | 32700 |
| ## | [2561] | 10900 | 18800 | 15000 | 18400 | 19300 | 13200 | 14600 | 10700 | 17600 | 13200 |

| | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## [2571] | 24600 | 18400 | 23900 | 13400 | 200 | 19900 | 12700 | 13400 | 18900 | 24500 |
| ## [2581] | 13400 | 28300 | 19400 | 26800 | 16500 | 12500 | 21700 | 20500 | 13000 | 13800 |
| ## [2591] | 16100 | 700 | 17700 | 13100 | 11300 | 15000 | 22000 | 12700 | 16200 | 12500 |
| ## [2601] | 24000 | 10700 | 12700 | 12000 | 17400 | 18600 | 23000 | 7500 | 14000 | 17700 |
| ## [2611] | 12400 | 200 | 16100 | 11000 | 22100 | 26900 | 16800 | 13300 | 15800 | 19600 |
| ## [2621] | 16300 | 8700 | 18800 | 12500 | 13200 | 16800 | 23300 | 14500 | 12700 | 16500 |
| ## [2631] | 24600 | 19600 | 10600 | 18800 | 16800 | 12900 | 800 | 15700 | 19800 | 40700 |
| ## [2641] | 16700 | 1900 | 16900 | 11800 | 13200 | 7200 | 12300 | 11600 | 21700 | 16200 |
| ## [2651] | 26100 | 15100 | 12300 | 18000 | 5400 | 13100 | 15200 | 21500 | 11100 | 15500 |
| ## [2661] | 12500 | 14400 | 18800 | 14900 | 10600 | 20800 | 19000 | 17300 | 22600 | 21400 |
| ## [2671] | 12500 | 12500 | 19400 | 16500 | 36700 | 10400 | 15000 | 17500 | 62500 | 18900 |
| ## [2681] | 44600 | 20500 | 5700 | 11400 | 19500 | 20000 | 30600 | 15900 | 14100 | 22600 |
| ## [2691] | 13100 | 1000 | 23200 | 14500 | 13400 | 17400 | 15100 | 14400 | 5600 | 19800 |
| ## [2701] | 17300 | 18200 | 9400 | 21900 | 15200 | 5600 | 34000 | 19400 | 22700 | 9800 |
| ## [2711] | 13200 | 13100 | 26500 | 3800 | 10700 | 28600 | 26200 | 2400 | 18800 | 15100 |
| ## [2721] | 14500 | 17100 | 14300 | 43000 | 13200 | 24600 | 14800 | 10600 | 18700 | 22000 |
| ## [2731] | 7400 | 20500 | 12000 | 22000 | 31900 | 22600 | 13100 | 27900 | 33300 | 800 |
| ## [2741] | 18100 | 10700 | 35300 | 11700 | 12300 | 18600 | 14900 | 14900 | 20200 | 15200 |
| ## [2751] | 17400 | 13600 | 29200 | 700 | 13800 | 17700 | 21500 | 34300 | 12700 | 25000 |
| ## [2761] | 15700 | 15800 | 19200 | 10800 | 14000 | 15600 | 14400 | 17300 | 15300 | 13900 |
| ## [2771] | 16700 | 1300 | 12400 | 7600 | 20500 | 58300 | 19000 | 29600 | 19000 | 19700 |
| ## [2781] | 15800 | 15000 | 10600 | 14000 | 14300 | 3400 | 23900 | 11900 | 15600 | 12900 |
| ## [2791] | 15700 | 10800 | 14500 | 13700 | 24100 | 27400 | 27100 | 16400 | 16800 | 10900 |
| ## [2801] | 31500 | 21400 | 8800 | 19300 | 18400 | 14600 | 14600 | 11400 | 10900 | 19000 |
| ## [2811] | 15200 | 22400 | 10900 | 18800 | 23000 | 15000 | 24500 | 10500 | 11700 | 14100 |
| ## [2821] | 14800 | 13100 | 5700 | 20700 | 63700 | 21300 | 9900 | 40500 | 14600 | 100 |
| ## [2831] | 11300 | 11100 | 13900 | 14600 | 13700 | 16200 | 19900 | 9000 | 12300 | 22100 |
| ## [2841] | 17800 | 17600 | 29500 | 16700 | 13600 | 20300 | 11100 | 15400 | 11400 | 10700 |
| ## [2851] | 20000 | 3500 | 14300 | 12300 | 20300 | 22400 | 13900 | 28000 | 13800 | 13600 |
| ## [2861] | 12200 | 14000 | 6000 | 13900 | 16200 | 15600 | 10400 | 14900 | 13600 | 20100 |
| ## [2871] | 8000 | 14000 | 10900 | 18500 | 16800 | 21600 | 13300 | 12100 | 12400 | 17400 |
| ## [2881] | 19300 | 11400 | 9300 | 25000 | 10600 | 16500 | 18000 | 20800 | 18100 | 17800 |
| ## [2891] | 10400 | 11700 | 24000 | 13700 | 16700 | 11700 | 15200 | 22300 | 13700 | 18400 |
| ## [2901] | 22000 | 13400 | 17500 | 16800 | 14400 | 22500 | 19300 | 20200 | 13300 | 18000 |
| ## [2911] | 13600 | 12400 | 14000 | 12400 | 10900 | 21100 | 9500 | 19000 | 14900 | 14500 |
| ## [2921] | 12700 | 14500 | 10000 | 20000 | 6000 | 21100 | 38700 | 15500 | 13600 | 6000 |
| ## [2931] | 29600 | 30000 | 12700 | 29400 | 20500 | 6300 | 19300 | 3100 | 75000 | 12500 |
| ## [2941] | 27100 | 18400 | 21400 | 18200 | 51200 | 8900 | 23600 | 20000 | 7100 | 10800 |
| ## [2951] | 13100 | 17300 | 27400 | 21200 | 24800 | 10900 | 12600 | 22000 | 27300 | 8000 |
| ## [2961] | 11400 | 19300 | 12300 | 14100 | 13400 | 10900 | 22400 | 4900 | 23000 | 19700 |
| ## [2971] | 28000 | 6000 | 13000 | 10100 | 13900 | 18200 | 8200 | 24400 | 20500 | 12500 |
| ## [2981] | 6600 | 19200 | 13400 | 2600 | 5600 | 20400 | 18100 | 17400 | 34600 | 19200 |
| ## [2991] | 12500 | 9500 | 19200 | 11100 | 25700 | 15600 | 15100 | 15600 | 34900 | 13100 |
| ## [3001] | 12100 | 16700 | 27300 | 12800 | 14200 | 3800 | 15100 | 15400 | 15400 | 10500 |
| ## [3011] | 19400 | 23900 | 28600 | 11900 | 13000 | 20300 | 25700 | 28100 | 11300 | 20500 |
| ## [3021] | 13000 | 15600 | 26800 | 17700 | 7300 | 13600 | 11200 | 19600 | 12500 | 14900 |
| ## [3031] | 11100 | 12800 | 10900 | 25000 | 12700 | 12500 | 13200 | 14200 | 23400 | 12500 |
| ## [3041] | 13700 | 20200 | 4900 | 12400 | 12700 | 26100 | 19400 | 10200 | 21100 | 12100 |
| ## [3051] | 7200 | 24900 | 14400 | 2400 | 9400 | 40700 | 39900 | 24000 | 11900 | 9500 |
| ## [3061] | 9900 | 12300 | 400 | 21300 | 4900 | 11400 | 20700 | 14900 | 13300 | 65400 |
| ## [3071] | 30600 | 11800 | 16200 | 11800 | 19800 | 15600 | 16100 | 17300 | 1400 | 12600 |
| ## [3081] | 23900 | 31500 | 19200 | 36900 | 14500 | 22600 | 10200 | 20800 | 5100 | 10800 |
| ## [3091] | 5000 | 13600 | 52400 | 19300 | 13200 | 38000 | 26700 | 16300 | 14200 | 12400 |
| ## [3101] | 17100 | 12900 | 16400 | 17300 | 10400 | 13000 | 13600 | 16700 | 25300 | 20800 |

| | | | | | | | | | | | |
|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [3111] | 21900 | 17300 | 27100 | 11800 | 14200 | 14300 | 25000 | 16400 | 22400 | 32600 |
| ## | [3121] | 13100 | 13100 | 20600 | 19000 | 24900 | 15400 | 24300 | 15600 | 6700 | 22500 |
| ## | [3131] | 9900 | 14200 | 11300 | 20800 | 23800 | 6800 | 14400 | 17700 | 18200 | 11200 |
| ## | [3141] | 17400 | 9900 | 14300 | 12100 | 13700 | 11400 | 15400 | 12100 | 13100 | 14000 |
| ## | [3151] | 11300 | 7900 | 10900 | 19300 | 4500 | 27400 | 17300 | 12900 | 15800 | 21900 |
| ## | [3161] | 23100 | 18400 | 27300 | 13100 | 16000 | 17800 | 900 | 19600 | 16500 | 18000 |
| ## | [3171] | 16800 | 14500 | 19900 | 6400 | 13000 | 12300 | 13400 | 11500 | 13200 | 15500 |
| ## | [3181] | 16700 | 11100 | 17300 | 10100 | 18100 | 18400 | 4700 | 14300 | 17400 | 17100 |
| ## | [3191] | 15000 | 17100 | 4500 | 12900 | 14900 | 15200 | 16100 | 11500 | 500 | 15700 |
| ## | [3201] | 15500 | 12700 | 23200 | 23100 | 13200 | 14900 | 14300 | 12000 | 18100 | 18100 |
| ## | [3211] | 20200 | 15900 | 4800 | 39200 | 19300 | 10900 | 11500 | 16400 | 12700 | 20500 |
| ## | [3221] | 13700 | 14600 | 10000 | 18200 | 16800 | 14900 | 14800 | 14000 | 4800 | 21800 |
| ## | [3231] | 10500 | 20300 | 32100 | 14600 | 11700 | 24800 | 11700 | 12200 | 14200 | 16100 |
| ## | [3241] | 36200 | 37200 | 20500 | 10900 | 17000 | 16500 | 10900 | 19100 | 9800 | 11000 |
| ## | [3251] | 15200 | 24000 | 13400 | 16300 | 24400 | 20500 | 11800 | 11400 | 14000 | 10900 |
| ## | [3261] | 17300 | 33100 | 11100 | 7000 | 15700 | 17600 | 27100 | 16900 | 22000 | 31300 |
| ## | [3271] | 4200 | 13800 | 27100 | 31400 | 21200 | 22800 | 20800 | 19300 | 14800 | 6600 |
| ## | [3281] | 15200 | 21100 | 18200 | 18000 | 7700 | 18400 | 800 | 13900 | 19900 | 13200 |
| ## | [3291] | 12500 | 20800 | 47300 | 12300 | 20000 | 18200 | 22600 | 4000 | 17700 | 15000 |
| ## | [3301] | 14000 | 12100 | 15800 | 17100 | 12400 | 32000 | 11900 | 20600 | 22400 | 16400 |
| ## | [3311] | 20600 | 17800 | 12400 | 21400 | 14300 | 18100 | 6900 | 14300 | 16200 | 8400 |
| ## | [3321] | 68300 | 13400 | 11100 | 15100 | 16800 | 19400 | 9900 | 11100 | 13000 | 6100 |
| ## | [3331] | 21400 | 13100 | 15500 | 12400 | 18200 | 13100 | 12000 | 12100 | 11300 | 18700 |
| ## | [3341] | 10100 | 16700 | 18300 | 12000 | 14500 | 68300 | 15100 | 11500 | 14800 | 16800 |
| ## | [3351] | 18100 | 17500 | 7400 | 22000 | 4400 | 13100 | 10500 | 26900 | 17300 | 12900 |
| ## | [3361] | 17900 | 14000 | 11200 | 12700 | 15200 | 700 | 12300 | 19600 | 7200 | 15400 |
| ## | [3371] | 10500 | 16400 | 13000 | 11900 | 13600 | 9800 | 11500 | 9900 | 26200 | 16100 |
| ## | [3381] | 900 | 20200 | 22200 | 14300 | 17000 | 12900 | 21400 | 800 | 15800 | 1400 |
| ## | [3391] | 13400 | 11100 | 12600 | 16300 | 20200 | 11300 | 15100 | 11100 | 30000 | 4900 |
| ## | [3401] | 14300 | 12400 | 3600 | 14800 | 30900 | 1400 | 11900 | 13700 | 3400 | 13000 |
| ## | [3411] | 16400 | 8500 | 13400 | 25800 | 17400 | 13900 | 15700 | 10100 | 10100 | 11200 |
| ## | [3421] | 900 | 11900 | 27300 | 12100 | 29300 | 12200 | 17100 | 10800 | 13300 | 18000 |
| ## | [3431] | 12500 | 11800 | 7300 | 13800 | 14500 | 20800 | 1100 | 5100 | 16200 | 12300 |
| ## | [3441] | 13700 | 5800 | 15000 | 17300 | 1000 | 13700 | 19300 | 15200 | 18800 | 400 |
| ## | [3451] | 16700 | 10400 | 5200 | 12100 | 12900 | 15400 | 13800 | 11700 | 6700 | 25500 |
| ## | [3461] | 11300 | 11300 | 14900 | 16100 | 14600 | 6800 | 13800 | 13200 | 10200 | 16000 |
| ## | [3471] | 19300 | 14800 | 12500 | 5400 | 27000 | 10200 | 14900 | 11800 | 13200 | 10600 |
| ## | [3481] | 10300 | 13800 | 13300 | 19200 | 18500 | 16300 | 12000 | 16900 | 9400 | 10500 |
| ## | [3491] | 19800 | 16800 | 14600 | 16100 | 27800 | 15800 | 11900 | 28800 | 9800 | 1000 |
| ## | [3501] | 14800 | 4800 | 9900 | 12000 | 12400 | 19800 | 12100 | 11900 | 15400 | 18500 |
| ## | [3511] | 11400 | 13600 | 19600 | 17400 | 8600 | 19200 | 12800 | 17300 | 5000 | 19300 |
| ## | [3521] | 17500 | 5100 | 18000 | 16400 | 15500 | 19000 | 6000 | 19200 | 18600 | 19200 |
| ## | [3531] | 15200 | 14500 | 5500 | 15800 | 12300 | 10400 | 26300 | 14500 | 15400 | 12900 |
| ## | [3541] | 11900 | 11800 | 10100 | 14300 | 17100 | 14600 | 12600 | 12100 | 10500 | 10700 |
| ## | [3551] | 7000 | 13900 | 18600 | 6100 | 14600 | 8700 | 16200 | 13900 | 7700 | 5500 |
| ## | [3561] | 15900 | 19600 | 12700 | 12100 | 13300 | 13600 | 11700 | 12000 | 15500 | 16500 |
| ## | [3571] | 18400 | 13900 | 10600 | 12700 | 12100 | 400 | 17700 | 8800 | 13100 | 15600 |
| ## | [3581] | 15500 | 19000 | 22700 | 14800 | 12400 | 11200 | 12800 | 10700 | 51500 | 11400 |
| ## | [3591] | 18200 | 16800 | 14800 | 11900 | 11700 | 68700 | 17300 | 41100 | 13800 | 21400 |
| ## | [3601] | 16100 | 41600 | 11700 | 13400 | 12600 | 25000 | 18000 | 11300 | 13200 | 12600 |
| ## | [3611] | 21300 | 15200 | 12700 | 17500 | 11500 | 12600 | 11700 | 13300 | 13100 | 5700 |
| ## | [3621] | 28300 | 10800 | 16700 | 13800 | 12300 | 7700 | 7700 | 9200 | 9200 | 3600 |
| ## | [3631] | 5100 | 4900 | 2400 | 8400 | 3800 | 11400 | 4300 | 9600 | 14300 | 9800 |
| ## | [3641] | 7600 | 3600 | 9300 | 16700 | 9000 | 9300 | 15800 | 10700 | 21700 | 17300 |

| | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## [3651] | 9500 | 9000 | 15400 | 10100 | 3600 | 11400 | 9400 | 3300 | 11900 | 1400 |
| ## [3661] | 6500 | 7100 | 15600 | 3200 | 9400 | 13200 | 9200 | 11700 | 12700 | 11700 |
| ## [3671] | 7000 | 8300 | 8900 | 4000 | 8900 | 8300 | 13800 | 11400 | 10700 | 5500 |
| ## [3681] | 8000 | 13700 | 11300 | 7900 | 14800 | 8300 | 8500 | 17300 | 10600 | 9300 |
| ## [3691] | 28000 | 9900 | 3300 | 8800 | 12300 | 10200 | 11800 | 3000 | 10500 | 5200 |
| ## [3701] | 15300 | 8000 | 3300 | 7100 | 12400 | 8200 | 3900 | 9800 | 11800 | 8800 |
| ## [3711] | 8300 | 16900 | 13000 | 2500 | 9900 | 10900 | 9500 | 9200 | 8900 | 5700 |
| ## [3721] | 8700 | 16300 | 6100 | 4000 | 10100 | 9900 | 8600 | 15600 | 9800 | 7500 |
| ## [3731] | 14300 | 11800 | 1400 | 9600 | 10100 | 14400 | 11200 | 10200 | 9200 | 1100 |
| ## [3741] | 11200 | 47000 | 18200 | 13100 | 13100 | 18700 | 3600 | 16900 | 13900 | 9500 |
| ## [3751] | 11100 | 21700 | 12100 | 15500 | 11800 | 17500 | 26500 | 20200 | 10900 | 11800 |
| ## [3761] | 16300 | 38000 | 12000 | 14000 | 5500 | 11700 | 23900 | 18100 | 18000 | 16100 |
| ## [3771] | 11900 | 15400 | 20600 | 9900 | 30600 | 18300 | 12400 | 800 | 16400 | 13200 |
| ## [3781] | 26300 | 17600 | 18200 | 13100 | 15500 | 42700 | 15300 | 26700 | 19300 | 35200 |
| ## [3791] | 14300 | 9300 | 12400 | 12300 | 14400 | 16900 | 800 | 15800 | 800 | 12900 |
| ## [3801] | 13100 | 800 | 17700 | 11300 | 14100 | 15100 | 11300 | 27700 | 31100 | 17100 |
| ## [3811] | 6000 | 17100 | 27400 | 21500 | 27700 | 12100 | 13900 | 600 | 11800 | 16800 |
| ## [3821] | 24100 | 38100 | 13100 | 13600 | 43700 | 15900 | 10200 | 14900 | 19300 | 64300 |
| ## [3831] | 3700 | 4900 | 14100 | 11400 | 25700 | 17800 | 12700 | 12200 | 21500 | 18400 |
| ## [3841] | 10900 | 20800 | 14000 | 23400 | 33300 | 20800 | 24000 | 6300 | 19200 | 16900 |
| ## [3851] | 11600 | 7700 | 25100 | 42800 | 10100 | 14900 | 19800 | 16500 | 8600 | 33200 |
| ## [3861] | 19600 | 22300 | 33300 | 11700 | 26100 | 17500 | 16200 | 5700 | 12400 | 29200 |
| ## [3871] | 27300 | 21100 | 12400 | 15900 | 26900 | 15800 | 17100 | 10400 | 41600 | 11400 |
| ## [3881] | 800 | 17600 | 33800 | 17800 | 12000 | 13100 | 14500 | 6800 | 6600 | 32500 |
| ## [3891] | 9200 | 28600 | 18000 | 41200 | 41200 | 38800 | 29500 | 34500 | 11700 | 15200 |
| ## [3901] | 11900 | 10900 | 17700 | 28200 | 18900 | 8000 | 41900 | 36400 | 19100 | 8900 |
| ## [3911] | 13700 | 18000 | 26800 | 11900 | 15600 | 39900 | 12100 | 20000 | 48200 | 30500 |
| ## [3921] | 19900 | 10100 | 22100 | 11000 | 4900 | 16900 | 16800 | 16500 | 36900 | 27800 |
| ## [3931] | 21700 | 43400 | 34000 | 38100 | 12500 | 41600 | 18100 | 10900 | 15600 | 800 |
| ## [3941] | 7000 | 12600 | 37200 | 30900 | 19900 | 10500 | 11500 | 13700 | 25500 | 18200 |
| ## [3951] | 11900 | 12800 | 16100 | 31800 | 25700 | 13100 | 37700 | 22700 | 44000 | 11200 |
| ## [3961] | 11600 | 19600 | 15200 | 10800 | 21100 | 8900 | 24500 | 15100 | 15100 | 37500 |
| ## [3971] | 22600 | 13400 | 15600 | 24400 | 37500 | 30600 | 11900 | 15900 | 15400 | 14200 |
| ## [3981] | 20900 | 23600 | 15000 | 22000 | 13700 | 13000 | 34800 | 11800 | 20500 | 43400 |
| ## [3991] | 20500 | 14700 | 17300 | 16100 | 3000 | 11100 | 16700 | 17200 | 14900 | 25600 |
| ## [4001] | 14800 | 7500 | 17700 | 22600 | 16100 | 19400 | 11500 | 22000 | 17800 | 25900 |
| ## [4011] | 33000 | 18100 | 25600 | 15200 | 19800 | 35700 | 10200 | 21800 | 52200 | 14300 |
| ## [4021] | 14500 | 19800 | 15500 | 28700 | 30200 | 20300 | 17000 | 14900 | 30600 | 14300 |
| ## [4031] | 11500 | 18600 | 14400 | 16500 | 11100 | 17600 | 18100 | 11400 | 10900 | 19300 |
| ## [4041] | 15200 | 34200 | 31500 | 27600 | 11900 | 43300 | 35100 | 21800 | 19000 | 12100 |
| ## [4051] | 15200 | 12000 | 17600 | 49900 | 22000 | 40000 | 19500 | 14500 | 13000 | 17100 |
| ## [4061] | 20500 | 14300 | 23100 | 18300 | 24100 | 20400 | 49700 | 13300 | 13300 | 31400 |
| ## [4071] | 33300 | 20100 | 40900 | 18400 | 20000 | 24400 | 33300 | 13300 | 23000 | 15600 |
| ## [4081] | 15200 | 22400 | 10000 | 10600 | 11900 | 18100 | 16100 | 27100 | 21400 | 15900 |
| ## [4091] | 37200 | 13500 | 47400 | 9500 | 35700 | 39000 | 15100 | 16100 | 23600 | 15800 |
| ## [4101] | 15800 | 11800 | 47000 | 25700 | 32700 | 17100 | 25600 | 23100 | 13400 | 57100 |
| ## [4111] | 63100 | 31900 | 25800 | 42000 | 15000 | 35300 | 47000 | 34900 | 17500 | 34500 |
| ## [4121] | 12500 | 14600 | 10600 | 37800 | 22400 | 16900 | 17600 | 16300 | 13100 | 15000 |
| ## [4131] | 23800 | 55500 | 14300 | 4900 | 23200 | 19400 | 30000 | 16400 | 11800 | 15200 |
| ## [4141] | 55300 | 14200 | 30500 | 26100 | 42200 | 15500 | 82400 | 32500 | 16200 | 12700 |
| ## [4151] | 15200 | 44300 | 12200 | 17000 | 35100 | 20700 | 17300 | 15000 | 16200 | 9900 |
| ## [4161] | 21700 | 10200 | 24400 | 21700 | 11400 | 18600 | 42800 | 14200 | 22600 | 14200 |
| ## [4171] | 16800 | 16100 | 20300 | 30100 | 11900 | 16100 | 16100 | 35000 | 35900 | 21200 |
| ## [4181] | 20600 | 13400 | 18400 | 19300 | 22900 | 13700 | 38000 | 41300 | 39900 | 17100 |

| | | | | | | | | | | | |
|----|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| ## | [4191] | 21400 | 26800 | 13100 | 16100 | 44100 | 16200 | 36300 | 41100 | 39300 | 43400 |
| ## | [4201] | 19900 | 16800 | 18700 | 22800 | 8100 | 10000 | 18100 | 17000 | 23200 | 34500 |
| ## | [4211] | 17400 | 12600 | 14300 | 17000 | 46300 | 22300 | 17800 | 13400 | 17900 | 44300 |
| ## | [4221] | 9300 | 18000 | 14900 | 15800 | 10600 | 12000 | 13800 | 19600 | 19600 | 13600 |
| ## | [4231] | 21500 | 23500 | 11800 | 46500 | 10200 | 59300 | 17900 | 18600 | 16800 | 26700 |
| ## | [4241] | 14900 | 35600 | 17700 | 16700 | 22900 | 24200 | 6600 | 30900 | 35300 | 10800 |
| ## | [4251] | 23300 | 13100 | 33300 | 22300 | 19000 | 32700 | 16800 | 39300 | 23800 | 19500 |
| ## | [4261] | 42400 | 21100 | 33600 | 34500 | 19800 | 43800 | 18800 | 30500 | 13300 | 9900 |
| ## | [4271] | 10900 | 44700 | 26500 | 14600 | 35500 | 42700 | 19900 | 11900 | 8300 | 28000 |
| ## | [4281] | 20900 | 23700 | 48800 | 23300 | 41300 | 26200 | 33500 | 11700 | 17600 | 33300 |
| ## | [4291] | 8100 | 14200 | 19000 | 5300 | 11200 | 36100 | 21700 | 13700 | 19400 | 14000 |
| ## | [4301] | 35200 | 12100 | 14800 | 26700 | 19300 | 26400 | 27300 | 19300 | 12400 | 13100 |
| ## | [4311] | 22800 | 15800 | 21700 | 30300 | 20500 | 35900 | 9600 | 50000 | 16500 | 14200 |
| ## | [4321] | 32200 | 16700 | 35400 | 15200 | 23000 | 10500 | 14200 | 13600 | 22700 | 14300 |
| ## | [4331] | 12500 | 41600 | 17300 | 16100 | 21200 | 15800 | 5500 | 15700 | 39400 | 49900 |
| ## | [4341] | 14300 | 23900 | 32200 | 6300 | 16200 | 6800 | 38400 | 17400 | 13400 | 36100 |
| ## | [4351] | 35800 | 12500 | 22100 | 48800 | 16500 | 5800 | 100 | 21400 | 34200 | 12800 |
| ## | [4361] | 20200 | 17100 | 37400 | 21800 | 16200 | 5200 | 32100 | 13000 | 14500 | 13600 |
| ## | [4371] | 22000 | 16400 | 49100 | 3500 | 25500 | 17300 | 26100 | 20600 | 24200 | 18600 |
| ## | [4381] | 41100 | 22400 | 34000 | 42100 | 16400 | 15500 | 16800 | 15400 | 14000 | 20700 |
| ## | [4391] | 18700 | 17300 | 29100 | 16200 | 20200 | 14900 | 12900 | 11400 | 18300 | 10700 |
| ## | [4401] | 17800 | 3500 | 7000 | 12100 | 16800 | 23200 | 22700 | 12100 | 17000 | 16700 |
| ## | [4411] | 29000 | 26100 | 10100 | 14200 | 24400 | 24200 | 23800 | 18900 | 17300 | 16800 |
| ## | [4421] | 16900 | 11400 | 17000 | 7500 | 23100 | 20800 | 10600 | 18000 | 22100 | 33000 |
| ## | [4431] | 18300 | 17300 | 27300 | 38000 | 41200 | 12500 | 17100 | 31100 | 17700 | 46100 |
| ## | [4441] | 12600 | 13700 | 14500 | 16100 | 14400 | 32800 | 50000 | 40500 | 11100 | 5100 |
| ## | [4451] | 33900 | 20000 | 11900 | 28600 | 14700 | 12400 | 14500 | 45300 | 15400 | 14800 |
| ## | [4461] | 14900 | 19800 | 18800 | 18700 | 13700 | 36900 | 13400 | 13400 | 30900 | 10000 |
| ## | [4471] | 20100 | 5200 | 8900 | 23000 | 15600 | 26700 | 37800 | 32700 | 13400 | 15800 |
| ## | [4481] | 44600 | 15400 | 7800 | 19300 | 5500 | 16700 | 12700 | 11900 | 14500 | 15500 |
| ## | [4491] | 20600 | 15500 | 7900 | 7300 | 14600 | 39300 | 13100 | 7400 | 7100 | 28000 |
| ## | [4501] | 16700 | 16900 | 14900 | 20800 | 15600 | 34500 | 27300 | 14600 | 46600 | 14000 |
| ## | [4511] | 18900 | 28700 | 14200 | 62500 | 22600 | 13400 | 15100 | 20000 | 10600 | 22700 |
| ## | [4521] | 39300 | 25800 | 11500 | 14000 | 15600 | 25900 | 36400 | 21300 | 31700 | 19500 |
| ## | [4531] | 11400 | 34200 | 10500 | 12200 | 9900 | 39500 | 14900 | 12700 | 21300 | 23600 |
| ## | [4541] | 17000 | 17600 | 14300 | 5800 | 17600 | 17800 | 15900 | 40500 | 15800 | 19200 |
| ## | [4551] | 17200 | 50000 | 17800 | 17300 | 28300 | 13400 | 12700 | 38700 | 34500 | 15200 |
| ## | [4561] | 36300 | 18100 | 16700 | 12400 | 8800 | 17700 | 12900 | 15900 | 20500 | 13800 |
| ## | [4571] | 26400 | 36300 | 33200 | 33300 | 10100 | 14200 | 39300 | 16500 | 17000 | 23100 |
| ## | [4581] | 14900 | 29800 | 15200 | 26500 | 13400 | 38400 | 11900 | 10000 | 13100 | 43400 |
| ## | [4591] | 9300 | 15400 | 6000 | 20200 | 20200 | 10000 | 13900 | 14100 | 45500 | 11900 |
| ## | [4601] | 22000 | 13700 | 20800 | 15100 | 20800 | 35300 | 16700 | 15800 | 7100 | 14000 |
| ## | [4611] | 13200 | 11300 | 18700 | 16600 | 55700 | 11900 | 37200 | 20000 | 22000 | 7900 |
| ## | [4621] | 13800 | 61200 | 33900 | 21400 | 5500 | 17000 | 15400 | 18400 | 12300 | 10800 |
| ## | [4631] | 29500 | 44600 | 25600 | 4600 | 10800 | 34600 | 14300 | 14300 | 36900 | 15600 |
| ## | [4641] | 16100 | 43600 | 25500 | 22000 | 34500 | 16100 | 23800 | 13100 | 23800 | 14300 |
| ## | [4651] | 13000 | 28900 | 13800 | 19600 | 9000 | 19200 | 32600 | 34600 | 14800 | 22200 |
| ## | [4661] | 32500 | 39900 | 34500 | 14900 | 13300 | 46400 | 45500 | 14600 | 12900 | 22300 |
| ## | [4671] | 17400 | 50600 | 35600 | 20500 | 16500 | 18300 | 35700 | 23100 | 15500 | 20800 |
| ## | [4681] | 12800 | 17100 | 43000 | 15600 | 142800 | 11300 | 18400 | 15100 | 32500 | 9500 |
| ## | [4691] | 36100 | 23800 | 15500 | 17800 | 26800 | 14900 | 9500 | 14900 | 17800 | 20800 |
| ## | [4701] | 35700 | 43400 | 34800 | 30000 | 3600 | 16100 | 6200 | 19800 | 37400 | 20100 |
| ## | [4711] | 22000 | 11900 | 39100 | 3600 | 27400 | 29800 | 43400 | 11300 | 35700 | 6600 |
| ## | [4721] | 22000 | 34200 | 40000 | 29900 | 11300 | 6300 | 39900 | 13700 | 46300 | 14400 |

```
## [4731] 15800 73100 15400 26500 25100 35400 41100 13400 17300 17300
## [4741] 13800 16700 15200 60700 17800 15500 31100 13700 15000 66600
## [4751] 8500 26700 19000 178500 25800 32800 12500 28600 11900 10700
## [4761] 18100 11200 22800 19500 5900 42100 14900 13000 19600 33600
## [4771] 19500 7900 19800 18400 19000 13900 24500 9300 10700 33000
## [4781] 9400 12900 45100 21200 11100 28600 42800 16400 18900 5400
## [4791] 20900 34600 16900 42700 4800 44700 26500 37500 15500 16200
## [4801] 15700 11100 800 4800 11700 13100 800 13100 21400 19600
## [4811] 8900 19500 6000 12300 15600 18600 14000 22800 1300 13600
## [4821] 19000 14300 13200 11800 16100 19200 17800 17300 12500 16100
## [4831] 15600 17100 20200 16900 14900 13600 14200 13400 14600 17500
## [4841] 17000 22700 15500
```

```
Log_Price <- log(data$price)
print(Log_Price)
```

```
## [1] 9.332558 11.151956 9.230143 10.130623 10.416311 9.746834 9.425452
## [8] 8.716044 8.732305 9.758462 9.867860 9.495519 9.985068 10.499573
## [15] 9.259131 9.024011 9.994242 9.126959 9.305651 8.948976 9.729134
## [22] 10.341742 10.177324 10.056209 9.942708 7.495542 10.312280 10.264652
## [29] 8.779557 9.314700 9.200290 9.159047 10.341742 10.221941 8.612503
## [36] 8.748305 7.783224 8.824678 10.094108 9.375855 10.442901 9.400961
## [43] 9.667765 8.987197 9.104980 10.098232 7.863267 9.971146 10.173515
## [50] 9.035987 9.746834 8.922658 10.077441 10.184900 10.229188 9.814656
## [57] 7.740664 10.315597 6.907755 9.852194 10.325482 10.261162 10.568750
## [64] 10.499573 10.229188 10.376611 9.384294 10.757903 10.918718 9.686575
## [71] 10.173515 9.878170 10.889304 10.239960 10.016816 10.373491 10.181119
## [78] 9.059517 10.357743 10.594132 9.093807 10.077441 9.820106 9.735069
## [85] 10.308953 9.011889 10.515967 8.922658 10.060491 10.043249 11.463735
## [92] 10.051908 10.138560 10.261162 10.203592 9.126959 10.021271 8.039157
## [99] 9.588777 10.169691 9.011889 9.071078 10.229188 10.077441 10.064756
## [106] 10.239960 10.196157 9.259131 10.376611 9.998798 10.261162 9.989665
## [113] 10.505068 9.786954 10.332018 10.732039 10.264652 10.016816 10.056209
## [120] 10.225571 9.464983 10.196157 9.989665 10.089967 9.047821 9.740969
## [127] 10.094108 9.071078 9.814656 8.935904 9.137770 10.126631 9.093807
## [134] 9.852194 9.433484 9.723164 9.093807 9.746834 10.281924 10.482906
## [141] 9.332558 9.277999 9.867860 8.948976 9.024011 9.457200 7.901007
## [148] 10.077441 9.615805 9.296518 10.047588 8.594154 9.367344 9.711116
## [155] 9.341369 9.011889 9.480368 8.935904 9.581904 9.449357 9.966462
## [162] 8.699515 8.974618 9.093807 8.779557 6.684612 9.296518 9.480368
## [169] 9.809177 9.574983 6.684612 6.684612 9.104980 9.495519 7.003065
## [176] 8.779557 9.409191 9.667765 9.230143 6.907755 9.350102 9.836279
## [183] 9.830917 9.341369 8.948976 7.783224 9.384294 6.684612 6.684612
## [190] 9.323669 9.148465 9.846917 9.104980 10.060491 10.073230 9.642123
## [197] 9.525151 6.684612 9.296518 9.495519 9.798127 8.699515 6.684612
## [204] 9.517825 9.786954 9.126959 8.716044 9.472705 9.350102 9.137770
## [211] 9.059517 9.913438 9.441452 6.684612 9.809177 7.090077 9.384294
## [218] 9.622450 9.392662 9.449357 9.568015 8.948976 6.684612 8.366370
## [225] 9.400961 9.400961 9.464983 9.268609 9.913438 9.560997 8.987197
## [232] 9.367344 9.332558 9.655026 9.220291 9.230143 9.609116 9.786954
## [239] 9.525151 9.433484 8.536996 9.230143 9.642123 9.568015 9.384294
## [246] 6.684612 8.895630 9.277999 9.249561 9.686575 9.200290 9.210340
## [253] 7.090077 9.698920 9.786954 9.655026 9.082507 8.268732 9.259131
## [260] 9.525151 9.425452 9.425452 8.006368 9.249561 9.729134 9.602382
```

| | | | | | | | | |
|----|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [267] | 9.480368 | 9.629051 | 9.803667 | 9.341369 | 9.525151 | 8.764053 | 9.169518 |
| ## | [274] | 8.496990 | 8.699515 | 9.011889 | 9.332558 | 7.244228 | 9.609116 | 9.268609 |
| ## | [281] | 9.560997 | 9.615805 | 9.148465 | 9.417355 | 9.615805 | 9.200290 | 9.480368 |
| ## | [288] | 9.487972 | 9.862666 | 9.487972 | 9.933046 | 9.609116 | 9.786954 | 9.560997 |
| ## | [295] | 9.532424 | 9.918376 | 10.003333 | 9.942708 | 9.332558 | 9.035987 | 9.464983 |
| ## | [302] | 9.392662 | 9.705037 | 9.602382 | 9.588777 | 10.268131 | 9.898475 | 9.893437 |
| ## | [309] | 9.655026 | 8.594154 | 9.903488 | 9.341369 | 9.449357 | 9.588777 | 8.948976 |
| ## | [316] | 10.146434 | 9.781320 | 10.150348 | 10.192419 | 9.341369 | 10.150348 | 9.898475 |
| ## | [323] | 9.367344 | 9.287301 | 9.686575 | 9.629051 | 9.480368 | 6.684612 | 9.667765 |
| ## | [330] | 9.441452 | 6.684612 | 9.698920 | 9.525151 | 8.517193 | 9.495519 | 9.441452 |
| ## | [337] | 10.351373 | 9.480368 | 9.314700 | 6.684612 | 10.146434 | 9.323669 | 9.933046 |
| ## | [344] | 9.480368 | 9.268609 | 9.568015 | 9.615805 | 9.259131 | 9.148465 | 9.517825 |
| ## | [351] | 9.581904 | 9.642123 | 8.517193 | 9.642123 | 9.137770 | 9.503010 | 9.200290 |
| ## | [358] | 9.441452 | 9.746834 | 9.179881 | 9.903488 | 9.758462 | 9.764225 | 9.609116 |
| ## | [365] | 9.867860 | 9.400961 | 8.242756 | 9.059517 | 9.159047 | 9.464983 | 9.642123 |
| ## | [372] | 9.441452 | 9.588777 | 9.581904 | 9.375855 | 9.472705 | 8.732305 | 9.220291 |
| ## | [379] | 9.740969 | 9.305651 | 6.684612 | 9.464983 | 9.230143 | 9.441452 | 9.609116 |
| ## | [386] | 9.169518 | 9.852194 | 9.568015 | 9.609116 | 9.341369 | 9.449357 | 9.323669 |
| ## | [393] | 9.517825 | 9.661416 | 9.655026 | 8.987197 | 10.134599 | 9.648595 | 9.367344 |
| ## | [400] | 9.480368 | 9.655026 | 9.661416 | 9.692767 | 9.384294 | 10.158130 | 9.629051 |
| ## | [407] | 9.495519 | 9.200290 | 9.648595 | 9.367344 | 9.947504 | 9.220291 | 9.314700 |
| ## | [414] | 10.064756 | 9.480368 | 10.218298 | 10.081634 | 8.411833 | 9.525151 | 9.852194 |
| ## | [421] | 9.532424 | 9.367344 | 9.210340 | 9.667765 | 6.684612 | 9.159047 | 9.560997 |
| ## | [428] | 9.314700 | 9.190138 | 9.417355 | 10.098232 | 9.268609 | 9.692767 | 9.698920 |
| ## | [435] | 9.220291 | 9.525151 | 9.384294 | 8.794825 | 8.612503 | 9.532424 | 9.560997 |
| ## | [442] | 10.051908 | 9.400961 | 9.457200 | 9.642123 | 9.200290 | 9.642123 | 9.667765 |
| ## | [449] | 9.400961 | 9.259131 | 9.148465 | 9.781320 | 9.642123 | 9.392662 | 9.220291 |
| ## | [456] | 9.803667 | 9.588777 | 9.841612 | 9.249561 | 9.918376 | 8.922658 | 9.928180 |
| ## | [463] | 8.699515 | 9.384294 | 9.400961 | 9.852194 | 9.711116 | 9.615805 | 9.159047 |
| ## | [470] | 9.011889 | 9.705037 | 9.971146 | 9.441452 | 7.313220 | 9.472705 | 9.400961 |
| ## | [477] | 10.003333 | 9.609116 | 9.661416 | 9.539644 | 9.230143 | 9.781320 | 9.305651 |
| ## | [484] | 9.648595 | 9.449357 | 8.594154 | 9.384294 | 9.425452 | 9.913438 | 9.259131 |
| ## | [491] | 9.417355 | 8.665613 | 9.200290 | 9.781320 | 9.615805 | 9.820106 | 9.615805 |
| ## | [498] | 9.059517 | 9.723164 | 9.268609 | 9.159047 | 9.220291 | 10.118599 | 9.648595 |
| ## | [505] | 9.341369 | 8.839277 | 9.358760 | 9.786954 | 10.328755 | 8.839277 | 9.323669 |
| ## | [512] | 9.332558 | 9.830917 | 9.764225 | 9.441452 | 9.723164 | 9.560997 | 9.296518 |
| ## | [519] | 8.839277 | 10.431170 | 8.188689 | 9.525151 | 9.588777 | 8.839277 | 9.480368 |
| ## | [526] | 9.798127 | 9.648595 | 9.409191 | 10.491274 | 9.532424 | 9.323669 | 9.581904 |
| ## | [533] | 10.003333 | 10.315597 | 9.259131 | 10.138560 | 9.574983 | 6.214608 | 8.881836 |
| ## | [540] | 9.517825 | 9.332558 | 9.588777 | 9.705037 | 9.937889 | 9.723164 | 10.030120 |
| ## | [547] | 9.332558 | 9.104980 | 9.918376 | 9.350102 | 9.503010 | 9.883285 | 9.642123 |
| ## | [554] | 9.464983 | 9.629051 | 9.648595 | 9.686575 | 9.024011 | 9.487972 | 10.098232 |
| ## | [561] | 9.433484 | 9.024011 | 9.220291 | 10.007848 | 9.655026 | 4.605170 | 8.764053 |
| ## | [568] | 9.609116 | 9.296518 | 9.615805 | 9.775654 | 9.588777 | 9.588777 | 9.908475 |
| ## | [575] | 9.417355 | 9.928180 | 9.259131 | 9.989665 | 9.148465 | 10.038892 | 9.705037 |
| ## | [582] | 9.903488 | 8.294050 | 9.581904 | 6.684612 | 9.830917 | 10.268131 | 9.220291 |
| ## | [589] | 6.684612 | 9.441452 | 9.686575 | 9.210340 | 9.609116 | 9.287301 | 8.342840 |
| ## | [596] | 9.740969 | 9.449357 | 9.503010 | 9.975808 | 9.323669 | 9.071078 | 9.503010 |
| ## | [603] | 9.830917 | 9.609116 | 9.786954 | 9.169518 | 9.735069 | 9.581904 | 9.350102 |
| ## | [610] | 9.200290 | 9.011889 | 9.686575 | 9.546813 | 9.846917 | 9.367344 | 9.441452 |
| ## | [617] | 9.775654 | 9.546813 | 9.358760 | 10.016816 | 9.433484 | 9.277999 | 9.400961 |
| ## | [624] | 9.159047 | 9.971146 | 9.230143 | 9.210340 | 9.735069 | 9.622450 | 9.449357 |
| ## | [631] | 4.605170 | 8.411833 | 9.159047 | 9.287301 | 9.367344 | 9.735069 | 9.775654 |
| ## | [638] | 9.449357 | 9.723164 | 9.433484 | 9.705037 | 9.268609 | 9.159047 | 9.525151 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [645] | 9.268609 | 9.642123 | 9.913438 | 6.684612 | 9.169518 | 9.655026 | 9.384294 |
| ## | [652] | 9.277999 | 9.781320 | 9.667765 | 9.503010 | 9.259131 | 9.862666 | 9.433484 |
| ## | [659] | 9.375855 | 9.126959 | 10.025705 | 9.947504 | 9.971146 | 8.517193 | 9.449357 |
| ## | [666] | 9.159047 | 9.692767 | 9.883285 | 9.495519 | 9.375855 | 9.259131 | 8.536996 |
| ## | [673] | 9.908475 | 9.400961 | 9.635608 | 9.277999 | 9.568015 | 9.480368 | 9.588777 |
| ## | [680] | 8.366370 | 9.862666 | 9.350102 | 9.400961 | 6.684612 | 9.928180 | 7.170120 |
| ## | [687] | 9.655026 | 9.093807 | 9.609116 | 9.622450 | 9.341369 | 9.384294 | 7.549609 |
| ## | [694] | 9.503010 | 9.268609 | 8.779557 | 9.464983 | 9.332558 | 9.011889 | 9.011889 |
| ## | [701] | 9.503010 | 8.648221 | 9.169518 | 9.400961 | 9.609116 | 8.716044 | 9.898475 |
| ## | [708] | 6.684612 | 9.803667 | 9.392662 | 8.922658 | 9.667765 | 9.629051 | 9.568015 |
| ## | [715] | 9.480368 | 9.350102 | 10.177324 | 9.503010 | 9.781320 | 9.883285 | 8.948976 |
| ## | [722] | 8.411833 | 8.389360 | 9.268609 | 10.016816 | 9.190138 | 9.249561 | 9.409191 |
| ## | [729] | 10.051908 | 9.350102 | 9.341369 | 9.553930 | 9.775654 | 9.985068 | 9.588777 |
| ## | [736] | 9.602382 | 9.296518 | 9.525151 | 8.909235 | 9.441452 | 10.047588 | 8.216088 |
| ## | [743] | 10.016816 | 9.525151 | 9.711116 | 8.216088 | 9.249561 | 9.503010 | 10.007848 |
| ## | [750] | 9.705037 | 9.998798 | 9.126959 | 9.841612 | 9.539644 | 9.852194 | 9.629051 |
| ## | [757] | 9.532424 | 9.655026 | 8.630522 | 9.400961 | 9.568015 | 8.867850 | 9.918376 |
| ## | [764] | 9.560997 | 9.384294 | 9.686575 | 10.047588 | 9.588777 | 9.179881 | 9.159047 |
| ## | [771] | 8.935904 | 8.517193 | 9.609116 | 9.803667 | 9.546813 | 9.746834 | 9.705037 |
| ## | [778] | 9.975808 | 8.987197 | 9.655026 | 9.480368 | 9.971146 | 9.846917 | 9.441452 |
| ## | [785] | 9.667765 | 9.913438 | 9.277999 | 9.503010 | 9.667765 | 9.661416 | 9.798127 |
| ## | [792] | 9.698920 | 10.196157 | 9.841612 | 9.011889 | 9.574983 | 9.830917 | 9.341369 |
| ## | [799] | 9.686575 | 9.287301 | 9.705037 | 7.549609 | 10.064756 | 9.908475 | 8.935904 |
| ## | [806] | 9.384294 | 9.375855 | 8.716044 | 8.809863 | 8.342840 | 9.367344 | 9.723164 |
| ## | [813] | 9.615805 | 9.928180 | 9.341369 | 9.553930 | 6.684612 | 9.908475 | 9.852194 |
| ## | [820] | 9.648595 | 9.341369 | 9.758462 | 9.867860 | 9.159047 | 9.867860 | 9.609116 |
| ## | [827] | 9.200290 | 9.937889 | 8.999619 | 9.230143 | 8.612503 | 9.820106 | 9.568015 |
| ## | [834] | 8.517193 | 9.259131 | 9.441452 | 9.918376 | 9.287301 | 8.496990 | 9.375855 |
| ## | [841] | 7.170120 | 9.546813 | 9.517825 | 9.723164 | 6.684612 | 9.961756 | 9.277999 |
| ## | [848] | 9.642123 | 9.546813 | 9.433484 | 8.948976 | 9.148465 | 9.723164 | 9.574983 |
| ## | [855] | 9.883285 | 8.665613 | 8.699515 | 9.035987 | 9.667765 | 9.011889 | 9.830917 |
| ## | [862] | 7.549609 | 8.665613 | 9.495519 | 8.948976 | 9.314700 | 10.016816 | 9.622450 |
| ## | [869] | 9.332558 | 9.082507 | 9.417355 | 8.809863 | 9.883285 | 9.686575 | 9.546813 |
| ## | [876] | 9.629051 | 9.746834 | 9.341369 | 10.051908 | 4.605170 | 9.961756 | 9.758462 |
| ## | [883] | 8.342840 | 9.392662 | 9.667765 | 9.655026 | 9.609116 | 9.629051 | 8.809863 |
| ## | [890] | 9.852194 | 9.568015 | 10.196157 | 9.532424 | 9.449357 | 9.735069 | 9.893437 |
| ## | [897] | 10.295530 | 9.798127 | 9.764225 | 9.332558 | 9.417355 | 9.495519 | 10.138560 |
| ## | [904] | 9.059517 | 9.472705 | 8.999619 | 9.417355 | 10.312280 | 9.400961 | 8.594154 |
| ## | [911] | 9.375855 | 9.169518 | 9.277999 | 9.464983 | 9.648595 | 9.862666 | 9.615805 |
| ## | [918] | 10.130623 | 9.546813 | 10.229188 | 9.449357 | 9.781320 | 9.661416 | 9.441452 |
| ## | [925] | 9.758462 | 9.332558 | 9.287301 | 9.803667 | 9.332558 | 9.711116 | 9.574983 |
| ## | [932] | 8.517193 | 9.137770 | 9.220291 | 9.449357 | 9.392662 | 9.615805 | 9.723164 |
| ## | [939] | 9.942708 | 9.893437 | 9.878170 | 9.296518 | 9.449357 | 9.546813 | 8.824678 |
| ## | [946] | 9.417355 | 9.230143 | 8.935904 | 9.093807 | 9.852194 | 9.786954 | 9.296518 |
| ## | [953] | 9.711116 | 8.961879 | 10.118599 | 8.824678 | 9.035987 | 9.560997 | 8.895630 |
| ## | [960] | 9.546813 | 9.883285 | 9.667765 | 9.711116 | 9.487972 | 9.375855 | 9.609116 |
| ## | [967] | 9.314700 | 10.199882 | 9.503010 | 9.581904 | 10.077441 | 9.539644 | 9.568015 |
| ## | [974] | 9.093807 | 9.568015 | 10.521372 | 9.615805 | 9.764225 | 9.525151 | 9.011889 |
| ## | [981] | 9.581904 | 9.629051 | 9.568015 | 8.853665 | 9.723164 | 9.661416 | 9.487972 |
| ## | [988] | 9.375855 | 9.314700 | 9.803667 | 9.287301 | 10.038892 | 8.867850 | 9.615805 |
| ## | [995] | 10.169691 | 9.581904 | 9.532424 | 9.525151 | 9.400961 | 9.581904 | 9.517825 |
| ## | [1002] | 9.441452 | 9.893437 | 8.160518 | 9.846917 | 9.546813 | 9.487972 | 9.588777 |
| ## | [1009] | 9.126959 | 8.909235 | 9.159047 | 9.609116 | 9.517825 | 9.314700 | 9.775654 |
| ## | [1016] | 9.642123 | 9.775654 | 9.200290 | 9.503010 | 9.200290 | 8.699515 | 9.323669 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [1023] | 9.758462 | 9.375855 | 9.433484 | 9.723164 | 9.190138 | 10.034516 | 9.159047 |
| ## | [1030] | 9.803667 | 8.895630 | 9.441452 | 9.268609 | 9.602382 | 8.809863 | 9.433484 |
| ## | [1037] | 8.294050 | 9.059517 | 10.021271 | 9.433484 | 9.705037 | 9.433484 | 9.908475 |
| ## | [1044] | 9.642123 | 10.122623 | 8.824678 | 9.609116 | 9.024011 | 9.893437 | 9.629051 |
| ## | [1051] | 9.786954 | 9.323669 | 10.021271 | 9.341369 | 8.070906 | 9.495519 | 10.261162 |
| ## | [1058] | 9.417355 | 9.735069 | 9.532424 | 10.229188 | 9.764225 | 9.878170 | 8.648221 |
| ## | [1065] | 9.503010 | 8.411833 | 9.846917 | 10.094108 | 10.308953 | 9.332558 | 9.425452 |
| ## | [1072] | 9.220291 | 9.546813 | 9.314700 | 9.553930 | 9.035987 | 9.622450 | 8.987197 |
| ## | [1079] | 9.024011 | 8.895630 | 10.056209 | 9.277999 | 9.622450 | 9.159047 | 9.642123 |
| ## | [1086] | 9.433484 | 9.024011 | 9.746834 | 9.661416 | 9.546813 | 9.259131 | 9.314700 |
| ## | [1093] | 9.200290 | 9.609116 | 9.341369 | 9.574983 | 9.711116 | 9.846917 | 9.692767 |
| ## | [1100] | 9.220291 | 9.375855 | 9.433484 | 9.841612 | 9.655026 | 9.525151 | 9.539644 |
| ## | [1107] | 9.918376 | 9.093807 | 9.913438 | 9.913438 | 7.649693 | 9.433484 | 8.594154 |
| ## | [1114] | 9.441452 | 9.574983 | 9.661416 | 9.148465 | 9.277999 | 9.341369 | 9.277999 |
| ## | [1121] | 10.003333 | 9.711116 | 9.314700 | 9.568015 | 10.254144 | 9.998798 | 9.525151 |
| ## | [1128] | 9.503010 | 9.350102 | 9.622450 | 10.043249 | 8.006368 | 9.464983 | 9.746834 |
| ## | [1135] | 9.358760 | 8.536996 | 9.517825 | 9.560997 | 9.392662 | 9.764225 | 9.867860 |
| ## | [1142] | 9.546813 | 9.878170 | 9.249561 | 9.441452 | 8.853665 | 9.525151 | 9.441452 |
| ## | [1149] | 9.323669 | 9.350102 | 8.895630 | 9.809177 | 9.595603 | 8.699515 | 8.779557 |
| ## | [1156] | 9.035987 | 9.560997 | 9.433484 | 9.358760 | 9.661416 | 9.898475 | 8.242756 |
| ## | [1163] | 10.225571 | 9.159047 | 9.698920 | 9.648595 | 9.735069 | 9.375855 | 9.425452 |
| ## | [1170] | 9.323669 | 9.740969 | 9.674074 | 9.392662 | 9.137770 | 8.630522 | 9.332558 |
| ## | [1177] | 9.464983 | 9.661416 | 9.464983 | 9.425452 | 9.480368 | 9.602382 | 8.575462 |
| ## | [1184] | 9.137770 | 9.615805 | 9.200290 | 9.341369 | 9.210340 | 9.169518 | 9.918376 |
| ## | [1191] | 7.090077 | 9.588777 | 9.947504 | 7.824046 | 9.035987 | 9.568015 | 9.400961 |
| ## | [1198] | 9.230143 | 9.323669 | 9.539644 | 10.247077 | 9.495519 | 9.525151 | 9.059517 |
| ## | [1205] | 9.602382 | 9.384294 | 9.852194 | 9.417355 | 9.686575 | 8.839277 | 8.188689 |
| ## | [1212] | 9.574983 | 9.723164 | 9.769956 | 8.216088 | 9.893437 | 9.692767 | 9.622450 |
| ## | [1219] | 8.476371 | 8.867850 | 9.159047 | 9.758462 | 10.214642 | 9.375855 | 9.480368 |
| ## | [1226] | 9.126959 | 9.367344 | 9.314700 | 9.332558 | 10.077441 | 9.268609 | 8.699515 |
| ## | [1233] | 9.546813 | 9.898475 | 9.487972 | 10.281924 | 10.077441 | 9.698920 | 8.612503 |
| ## | [1240] | 9.249561 | 9.433484 | 9.480368 | 9.758462 | 9.148465 | 9.560997 | 9.723164 |
| ## | [1247] | 9.159047 | 9.472705 | 9.384294 | 9.532424 | 9.464983 | 8.188689 | 9.769956 |
| ## | [1254] | 9.495519 | 9.400961 | 4.605170 | 9.323669 | 9.994242 | 9.314700 | 9.433484 |
| ## | [1261] | 9.249561 | 9.268609 | 9.898475 | 9.159047 | 9.024011 | 7.090077 | 9.581904 |
| ## | [1268] | 9.692767 | 9.495519 | 9.417355 | 8.948976 | 9.574983 | 9.867860 | 9.433484 |
| ## | [1275] | 9.417355 | 9.259131 | 9.296518 | 9.375855 | 9.249561 | 9.830917 | 9.867860 |
| ## | [1282] | 9.581904 | 10.302264 | 9.642123 | 9.609116 | 9.305651 | 9.574983 | 8.342840 |
| ## | [1289] | 9.472705 | 9.230143 | 9.692767 | 9.629051 | 8.909235 | 9.480368 | 9.546813 |
| ## | [1296] | 9.746834 | 9.781320 | 9.433484 | 9.525151 | 9.711116 | 9.093807 | 9.798127 |
| ## | [1303] | 9.698920 | 9.588777 | 9.296518 | 9.814656 | 9.971146 | 9.918376 | 9.287301 |
| ## | [1310] | 9.615805 | 9.367344 | 9.148465 | 9.332558 | 8.764053 | 9.384294 | 9.686575 |
| ## | [1317] | 9.480368 | 9.169518 | 9.323669 | 8.716044 | 10.034516 | 9.609116 | 9.878170 |
| ## | [1324] | 9.581904 | 9.814656 | 9.686575 | 9.332558 | 9.629051 | 9.786954 | 9.622450 |
| ## | [1331] | 9.417355 | 9.323669 | 9.532424 | 10.025705 | 9.249561 | 9.989665 | 9.539644 |
| ## | [1338] | 9.581904 | 9.568015 | 10.016816 | 8.699515 | 9.449357 | 9.480368 | 9.277999 |
| ## | [1345] | 10.261162 | 8.476371 | 9.532424 | 9.814656 | 8.895630 | 9.249561 | 9.268609 |
| ## | [1352] | 9.622450 | 9.277999 | 9.961756 | 9.758462 | 9.588777 | 9.602382 | 9.400961 |
| ## | [1359] | 9.495519 | 9.798127 | 9.480368 | 9.918376 | 8.779557 | 9.433484 | 9.367344 |
| ## | [1366] | 9.472705 | 9.323669 | 8.342840 | 9.503010 | 9.820106 | 9.332558 | 9.622450 |
| ## | [1373] | 8.342840 | 8.665613 | 9.220291 | 9.729134 | 9.568015 | 9.480368 | 9.392662 |
| ## | [1380] | 9.803667 | 9.602382 | 9.457200 | 9.758462 | 9.913438 | 8.496990 | 9.903488 |
| ## | [1387] | 9.735069 | 9.602382 | 9.367344 | 9.487972 | 9.532424 | 9.277999 | 9.758462 |
| ## | [1394] | 9.705037 | 8.476371 | 9.277999 | 9.480368 | 9.937889 | 9.249561 | 9.277999 |

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|----|--------|-----------|----------|-----------|-----------|-----------|----------|----------|
| ## | [1401] | 9.332558 | 8.974618 | 9.615805 | 7.549609 | 8.764053 | 8.824678 | 9.011889 |
| ## | [1408] | 10.122623 | 8.517193 | 9.503010 | 9.392662 | 9.546813 | 9.729134 | 9.296518 |
| ## | [1415] | 9.957028 | 9.305651 | 9.210340 | 8.536996 | 8.732305 | 9.277999 | 9.615805 |
| ## | [1422] | 9.525151 | 9.642123 | 9.615805 | 8.342840 | 9.323669 | 9.433484 | 8.536996 |
| ## | [1429] | 9.525151 | 9.918376 | 9.480368 | 9.648595 | 9.441452 | 9.480368 | 9.464983 |
| ## | [1436] | 9.642123 | 9.705037 | 9.735069 | 8.987197 | 8.294050 | 9.947504 | 9.966462 |
| ## | [1443] | 9.433484 | 9.314700 | 9.740969 | 9.480368 | 9.148465 | 9.942708 | 8.389360 |
| ## | [1450] | 8.999619 | 9.400961 | 8.594154 | 9.104980 | 9.230143 | 9.786954 | 9.809177 |
| ## | [1457] | 9.384294 | 9.609116 | 9.480368 | 9.148465 | 9.159047 | 9.249561 | 8.294050 |
| ## | [1464] | 8.716044 | 8.648221 | 9.615805 | 9.277999 | 9.581904 | 9.918376 | 9.517825 |
| ## | [1471] | 9.852194 | 9.104980 | 9.332558 | 9.503010 | 9.400961 | 9.350102 | 9.367344 |
| ## | [1478] | 9.820106 | 9.560997 | 8.476371 | 9.642123 | 9.472705 | 9.314700 | 9.332558 |
| ## | [1485] | 9.323669 | 9.495519 | 9.568015 | 9.441452 | 8.853665 | 9.137770 | 9.648595 |
| ## | [1492] | 9.686575 | 9.532424 | 9.841612 | 8.433812 | 9.169518 | 9.449357 | 9.287301 |
| ## | [1499] | 9.024011 | 9.441452 | 9.574983 | 9.574983 | 9.433484 | 9.441452 | 8.517193 |
| ## | [1506] | 9.622450 | 9.764225 | 9.568015 | 10.126631 | 9.296518 | 9.472705 | 8.536996 |
| ## | [1513] | 9.525151 | 5.991465 | 9.629051 | 9.629051 | 9.137770 | 9.305651 | 9.711116 |
| ## | [1520] | 9.433484 | 8.517193 | 9.503010 | 9.841612 | 9.686575 | 9.686575 | 9.667765 |
| ## | [1527] | 9.686575 | 9.503010 | 9.384294 | 9.560997 | 9.786954 | 7.170120 | 8.476371 |
| ## | [1534] | 9.532424 | 9.259131 | 9.740969 | 9.137770 | 9.314700 | 9.998798 | 9.803667 |
| ## | [1541] | 8.867850 | 9.852194 | 9.883285 | 8.476371 | 9.417355 | 9.190138 | 8.699515 |
| ## | [1548] | 9.622450 | 9.503010 | 9.082507 | 9.655026 | 9.220291 | 9.830917 | 9.746834 |
| ## | [1555] | 9.480368 | 8.748305 | 9.705037 | 9.487972 | 5.991465 | 9.937889 | 9.433484 |
| ## | [1562] | 9.705037 | 9.375855 | 9.581904 | 9.903488 | 9.392662 | 9.568015 | 9.615805 |
| ## | [1569] | 9.661416 | 8.242756 | 9.568015 | 9.249561 | 7.090077 | 7.495542 | 9.277999 |
| ## | [1576] | 9.210340 | 9.350102 | 9.568015 | 8.922658 | 8.935904 | 9.323669 | 9.137770 |
| ## | [1583] | 9.200290 | 9.472705 | 9.367344 | 9.495519 | 9.417355 | 7.377759 | 9.457200 |
| ## | [1590] | 9.517825 | 9.472705 | 9.277999 | 9.126959 | 9.615805 | 9.287301 | 9.464983 |
| ## | [1597] | 9.487972 | 8.748305 | 9.629051 | 9.609116 | 9.546813 | 9.655026 | 9.400961 |
| ## | [1604] | 9.126959 | 9.517825 | 9.686575 | 9.503010 | 9.546813 | 9.259131 | 9.259131 |
| ## | [1611] | 9.746834 | 9.449357 | 10.271597 | 9.560997 | 10.281924 | 9.775654 | 9.560997 |
| ## | [1618] | 8.476371 | 9.323669 | 8.342840 | 9.686575 | 9.159047 | 9.560997 | 9.480368 |
| ## | [1625] | 9.686575 | 9.409191 | 8.411833 | 9.622450 | 8.070906 | 9.539644 | 9.137770 |
| ## | [1632] | 9.082507 | 9.220291 | 8.779557 | 8.699515 | 9.635608 | 9.629051 | 8.748305 |
| ## | [1639] | 9.581904 | 9.553930 | 9.400961 | 9.332558 | 8.476371 | 9.480368 | 9.425452 |
| ## | [1646] | 9.375855 | 9.487972 | 9.200290 | 8.517193 | 9.392662 | 9.190138 | 9.287301 |
| ## | [1653] | 9.602382 | 9.200290 | 9.503010 | 9.249561 | 9.517825 | 9.323669 | 9.667765 |
| ## | [1660] | 10.138560 | 9.908475 | 9.975808 | 9.392662 | 8.188689 | 9.287301 | 9.525151 |
| ## | [1667] | 9.568015 | 8.517193 | 10.060491 | 9.375855 | 9.568015 | 9.433484 | 9.602382 |
| ## | [1674] | 9.035987 | 9.923290 | 9.495519 | 9.367344 | 9.609116 | 9.729134 | 9.705037 |
| ## | [1681] | 9.104980 | 9.350102 | 8.366370 | 9.332558 | 9.852194 | 9.230143 | 9.758462 |
| ## | [1688] | 9.220291 | 6.684612 | 9.341369 | 8.922658 | 9.400961 | 9.277999 | 9.210340 |
| ## | [1695] | 9.148465 | 9.341369 | 9.609116 | 9.296518 | 10.618885 | 9.159047 | 9.686575 |
| ## | [1702] | 9.268609 | 9.517825 | 9.323669 | 8.496990 | 9.457200 | 8.612503 | 9.384294 |
| ## | [1709] | 9.532424 | 9.464983 | 9.200290 | 9.384294 | 9.137770 | 9.350102 | 9.277999 |
| ## | [1716] | 8.294050 | 9.588777 | 9.093807 | 9.433484 | 9.661416 | 9.546813 | 9.517825 |
| ## | [1723] | 8.853665 | 8.160518 | 9.781320 | 9.220291 | 9.532424 | 8.974618 | 9.210340 |
| ## | [1730] | 8.824678 | 9.169518 | 9.433484 | 8.070906 | 8.517193 | 8.809863 | 9.609116 |
| ## | [1737] | 9.495519 | 8.612503 | 9.609116 | 9.942708 | 8.839277 | 8.867850 | 9.648595 |
| ## | [1744] | 9.568015 | 8.101678 | 9.350102 | 9.287301 | 9.059517 | 9.568015 | 9.190138 |
| ## | [1751] | 9.698920 | 9.296518 | 9.341369 | 8.764053 | 9.928180 | 9.560997 | 9.878170 |
| ## | [1758] | 9.230143 | 9.560997 | 9.210340 | 8.699515 | 9.609116 | 9.137770 | 9.296518 |
| ## | [1765] | 8.699515 | 9.392662 | 9.220291 | 9.367344 | 9.287301 | 9.472705 | 8.188689 |
| ## | [1772] | 9.268609 | 9.200290 | 8.987197 | 9.392662 | 9.190138 | 9.200290 | 9.332558 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [1779] | 9.305651 | 9.615805 | 9.495519 | 10.025705 | 9.503010 | 9.525151 | 7.783224 |
| ## | [1786] | 9.314700 | 10.025705 | 9.159047 | 9.210340 | 9.487972 | 9.332558 | 9.314700 |
| ## | [1793] | 9.230143 | 8.188689 | 9.137770 | 9.259131 | 9.918376 | 8.517193 | 9.457200 |
| ## | [1800] | 8.389360 | 9.116030 | 9.480368 | 9.296518 | 9.059517 | 9.024011 | 6.802395 |
| ## | [1807] | 9.392662 | 9.277999 | 9.093807 | 8.160518 | 9.661416 | 9.200290 | 10.102338 |
| ## | [1814] | 10.315597 | 9.296518 | 9.323669 | 9.961756 | 9.746834 | 9.093807 | 8.517193 |
| ## | [1821] | 9.104980 | 9.629051 | 9.323669 | 9.667765 | 9.957028 | 9.809177 | 8.006368 |
| ## | [1828] | 9.692767 | 9.667765 | 9.350102 | 9.148465 | 9.384294 | 4.605170 | 9.093807 |
| ## | [1835] | 9.717158 | 9.126959 | 9.642123 | 9.723164 | 9.740969 | 9.035987 | 9.862666 |
| ## | [1842] | 9.323669 | 10.102338 | 9.480368 | 9.985068 | 9.425452 | 8.411833 | 9.277999 |
| ## | [1849] | 10.154246 | 8.612503 | 8.764053 | 9.814656 | 9.249561 | 9.581904 | 9.532424 |
| ## | [1856] | 9.686575 | 9.400961 | 9.384294 | 9.277999 | 8.496990 | 8.433812 | 8.101678 |
| ## | [1863] | 9.093807 | 8.895630 | 9.472705 | 9.622450 | 9.350102 | 9.525151 | 9.740969 |
| ## | [1870] | 9.341369 | 8.987197 | 9.642123 | 9.159047 | 9.729134 | 10.021271 | 9.220291 |
| ## | [1877] | 9.568015 | 9.059517 | 6.684612 | 9.259131 | 9.758462 | 8.188689 | 9.433484 |
| ## | [1884] | 9.661416 | 10.016816 | 9.686575 | 9.642123 | 9.384294 | 9.071078 | 9.525151 |
| ## | [1891] | 8.987197 | 9.525151 | 9.268609 | 9.711116 | 9.503010 | 9.947504 | 9.661416 |
| ## | [1898] | 9.190138 | 9.024011 | 10.154246 | 9.595603 | 9.384294 | 9.568015 | 9.862666 |
| ## | [1905] | 9.449357 | 8.809863 | 9.179881 | 8.764053 | 9.692767 | 10.335270 | 9.622450 |
| ## | [1912] | 8.496990 | 10.292146 | 9.622450 | 8.699515 | 9.220291 | 9.024011 | 9.104980 |
| ## | [1919] | 9.629051 | 8.648221 | 9.622450 | 9.104980 | 9.367344 | 9.104980 | 9.169518 |
| ## | [1926] | 9.648595 | 8.748305 | 9.210340 | 9.268609 | 9.655026 | 9.296518 | 9.609116 |
| ## | [1933] | 9.686575 | 9.148465 | 8.242756 | 9.803667 | 9.305651 | 8.294050 | 8.594154 |
| ## | [1940] | 9.392662 | 8.809863 | 9.210340 | 9.449357 | 8.948976 | 9.024011 | 9.692767 |
| ## | [1947] | 8.974618 | 9.220291 | 9.525151 | 9.667765 | 9.457200 | 9.487972 | 9.674074 |
| ## | [1954] | 9.933046 | 9.384294 | 9.723164 | 7.937375 | 9.568015 | 9.568015 | 8.895630 |
| ## | [1961] | 9.350102 | 9.035987 | 10.081634 | 9.332558 | 8.895630 | 9.758462 | 9.480368 |
| ## | [1968] | 8.517193 | 9.104980 | 9.769956 | 9.495519 | 9.457200 | 9.200290 | 9.425452 |
| ## | [1975] | 9.159047 | 9.686575 | 9.758462 | 9.433484 | 9.928180 | 8.101678 | 9.609116 |
| ## | [1982] | 9.341369 | 9.692767 | 9.375855 | 9.985068 | 9.740969 | 10.218298 | 9.104980 |
| ## | [1989] | 9.011889 | 9.296518 | 9.602382 | 9.190138 | 9.705037 | 9.093807 | 9.667765 |
| ## | [1996] | 9.862666 | 9.841612 | 10.281924 | 9.210340 | 9.126959 | 9.686575 | 9.137770 |
| ## | [2003] | 10.077441 | 9.190138 | 9.220291 | 9.517825 | 9.200290 | 9.148465 | 10.003333 |
| ## | [2010] | 9.024011 | 9.581904 | 9.532424 | 9.464983 | 9.975808 | 9.296518 | 8.594154 |
| ## | [2017] | 9.159047 | 9.648595 | 9.729134 | 9.200290 | 9.059517 | 9.971146 | 9.384294 |
| ## | [2024] | 9.464983 | 9.836279 | 9.287301 | 9.775654 | 9.230143 | 9.287301 | 9.655026 |
| ## | [2031] | 9.190138 | 9.104980 | 9.384294 | 8.839277 | 8.999619 | 9.137770 | 9.588777 |
| ## | [2038] | 9.159047 | 9.220291 | 9.622450 | 10.012342 | 9.082507 | 9.798127 | 9.367344 |
| ## | [2045] | 9.918376 | 9.093807 | 9.495519 | 9.568015 | 8.242756 | 9.296518 | 9.332558 |
| ## | [2052] | 9.367344 | 9.341369 | 10.034516 | 9.159047 | 10.106428 | 9.609116 | 9.735069 |
| ## | [2059] | 9.495519 | 9.781320 | 9.525151 | 9.071078 | 9.104980 | 9.104980 | 9.820106 |
| ## | [2066] | 9.609116 | 9.137770 | 9.190138 | 9.480368 | 9.686575 | 9.740969 | 10.089967 |
| ## | [2073] | 9.966462 | 9.433484 | 9.609116 | 9.503010 | 9.560997 | 9.341369 | 9.024011 |
| ## | [2080] | 9.661416 | 8.974618 | 9.464983 | 9.723164 | 9.259131 | 9.674074 | 8.999619 |
| ## | [2087] | 9.159047 | 9.705037 | 9.574983 | 8.867850 | 8.987197 | 10.126631 | 9.928180 |
| ## | [2094] | 10.012342 | 9.487972 | 9.503010 | 8.366370 | 9.457200 | 8.536996 | 8.188689 |
| ## | [2101] | 9.692767 | 9.159047 | 9.384294 | 10.146434 | 9.867860 | 9.574983 | 9.723164 |
| ## | [2108] | 9.126959 | 9.268609 | 8.999619 | 8.716044 | 8.342840 | 9.104980 | 9.752665 |
| ## | [2115] | 9.392662 | 9.560997 | 9.190138 | 9.574983 | 9.137770 | 9.277999 | 9.011889 |
| ## | [2122] | 9.913438 | 10.173515 | 9.287301 | 9.581904 | 10.016816 | 9.220291 | 9.961756 |
| ## | [2129] | 9.384294 | 9.692767 | 9.503010 | 9.190138 | 8.101678 | 9.975808 | 9.775654 |
| ## | [2136] | 9.729134 | 9.126959 | 9.503010 | 8.895630 | 9.908475 | 9.464983 | 9.898475 |
| ## | [2143] | 9.642123 | 10.102338 | 8.748305 | 9.332558 | 10.302264 | 9.495519 | 9.809177 |
| ## | [2150] | 9.220291 | 9.723164 | 8.070906 | 9.609116 | 9.341369 | 9.230143 | 9.667765 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [2157] | 9.661416 | 9.622450 | 9.830917 | 9.836279 | 10.161998 | 9.852194 | 9.277999 |
| ## | [2164] | 9.933046 | 9.648595 | 10.448715 | 9.071078 | 10.030120 | 9.287301 | 9.417355 |
| ## | [2171] | 9.441452 | 9.126959 | 9.071078 | 9.758462 | 8.433812 | 9.769956 | 8.160518 |
| ## | [2178] | 9.539644 | 10.376611 | 8.867850 | 9.093807 | 9.239899 | 10.064756 | 9.409191 |
| ## | [2185] | 9.400961 | 9.137770 | 9.323669 | 10.609057 | 9.574983 | 9.126959 | 9.314700 |
| ## | [2192] | 9.480368 | 9.210340 | 9.093807 | 9.998798 | 9.933046 | 9.503010 | 9.517825 |
| ## | [2199] | 10.043249 | 9.814656 | 10.106428 | 9.692767 | 9.674074 | 9.268609 | 9.384294 |
| ## | [2206] | 9.581904 | 9.059517 | 9.539644 | 9.296518 | 9.296518 | 9.525151 | 10.114559 |
| ## | [2213] | 9.071078 | 9.277999 | 9.883285 | 8.999619 | 9.830917 | 9.350102 | 9.035987 |
| ## | [2220] | 9.104980 | 8.853665 | 9.384294 | 9.985068 | 9.487972 | 9.277999 | 9.425452 |
| ## | [2227] | 8.648221 | 9.190138 | 8.630522 | 9.775654 | 10.292146 | 9.011889 | 9.635608 |
| ## | [2234] | 9.495519 | 9.159047 | 9.674074 | 9.200290 | 9.686575 | 9.169518 | 8.342840 |
| ## | [2241] | 9.200290 | 9.148465 | 10.030120 | 9.358760 | 9.159047 | 9.417355 | 9.104980 |
| ## | [2248] | 9.417355 | 8.732305 | 8.496990 | 9.169518 | 9.169518 | 9.024011 | 9.546813 |
| ## | [2255] | 10.203592 | 9.686575 | 9.441452 | 9.883285 | 9.220291 | 9.705037 | 9.148465 |
| ## | [2262] | 9.568015 | 9.495519 | 9.220291 | 8.648221 | 9.698920 | 9.480368 | 9.532424 |
| ## | [2269] | 9.104980 | 9.287301 | 9.449357 | 9.071078 | 9.200290 | 8.732305 | 8.748305 |
| ## | [2276] | 10.126631 | 10.130623 | 9.230143 | 9.629051 | 9.400961 | 9.148465 | 9.648595 |
| ## | [2283] | 9.803667 | 9.622450 | 8.839277 | 9.220291 | 8.496990 | 8.974618 | 9.449357 |
| ## | [2290] | 9.464983 | 9.104980 | 9.609116 | 9.024011 | 9.588777 | 9.126959 | 10.034516 |
| ## | [2297] | 9.277999 | 9.711116 | 9.104980 | 10.338511 | 9.846917 | 9.093807 | 9.517825 |
| ## | [2304] | 9.169518 | 9.287301 | 9.503010 | 9.903488 | 10.482906 | 9.220291 | 9.723164 |
| ## | [2311] | 10.064756 | 9.998798 | 9.622450 | 9.277999 | 8.594154 | 9.883285 | 10.596635 |
| ## | [2318] | 9.942708 | 9.230143 | 9.350102 | 8.496990 | 9.323669 | 9.093807 | 8.101678 |
| ## | [2325] | 10.308953 | 10.122623 | 10.505068 | 9.126959 | 9.287301 | 10.126631 | 8.948976 |
| ## | [2332] | 9.629051 | 9.449357 | 9.994242 | 9.230143 | 9.220291 | 7.003065 | 9.480368 |
| ## | [2339] | 9.169518 | 9.698920 | 9.464983 | 9.525151 | 10.025705 | 9.268609 | 9.259131 |
| ## | [2346] | 9.059517 | 9.169518 | 9.392662 | 9.560997 | 9.220291 | 7.090077 | 9.798127 |
| ## | [2353] | 8.188689 | 9.287301 | 9.648595 | 9.024011 | 9.495519 | 9.277999 | 9.764225 |
| ## | [2360] | 10.173515 | 9.159047 | 10.069002 | 9.441452 | 9.961756 | 9.487972 | 9.200290 |
| ## | [2367] | 9.862666 | 9.148465 | 9.574983 | 9.392662 | 9.546813 | 9.148465 | 9.686575 |
| ## | [2374] | 9.210340 | 8.294050 | 9.249561 | 9.937889 | 9.200290 | 8.389360 | 9.210340 |
| ## | [2381] | 9.011889 | 10.218298 | 9.705037 | 9.648595 | 9.903488 | 9.190138 | 9.503010 |
| ## | [2388] | 8.935904 | 9.341369 | 9.296518 | 6.907755 | 9.126959 | 9.464983 | 8.974618 |
| ## | [2395] | 10.376611 | 9.332558 | 9.159047 | 9.966462 | 8.517193 | 9.629051 | 9.568015 |
| ## | [2402] | 9.268609 | 9.735069 | 10.376611 | 10.243525 | 9.746834 | 10.102338 | 9.384294 |
| ## | [2409] | 9.024011 | 10.318903 | 9.277999 | 8.411833 | 10.064756 | 8.699515 | 10.130623 |
| ## | [2416] | 10.578980 | 9.568015 | 9.220291 | 10.056209 | 9.937889 | 9.148465 | 9.230143 |
| ## | [2423] | 10.407289 | 9.230143 | 9.375855 | 9.296518 | 9.268609 | 9.560997 | 9.268609 |
| ## | [2430] | 8.935904 | 9.035987 | 10.281924 | 9.137770 | 9.928180 | 9.190138 | 9.259131 |
| ## | [2437] | 8.999619 | 9.277999 | 8.389360 | 9.998798 | 9.059517 | 9.024011 | 9.472705 |
| ## | [2444] | 9.296518 | 8.517193 | 10.398184 | 9.878170 | 9.093807 | 9.769956 | 10.173515 |
| ## | [2451] | 9.035987 | 8.268732 | 9.495519 | 9.648595 | 9.148465 | 9.723164 | 9.775654 |
| ## | [2458] | 9.314700 | 9.296518 | 9.655026 | 9.287301 | 7.495542 | 9.495519 | 9.495519 |
| ## | [2465] | 9.472705 | 9.384294 | 9.259131 | 7.649693 | 9.809177 | 10.085809 | 9.341369 |
| ## | [2472] | 9.588777 | 9.574983 | 5.298317 | 9.764225 | 9.392662 | 9.758462 | 9.487972 |
| ## | [2479] | 9.296518 | 9.341369 | 9.809177 | 9.758462 | 9.400961 | 10.118599 | 9.655026 |
| ## | [2486] | 9.449357 | 9.169518 | 9.867860 | 9.615805 | 9.323669 | 9.674074 | 9.705037 |
| ## | [2493] | 9.723164 | 9.723164 | 6.551080 | 9.059517 | 9.928180 | 9.698920 | 9.655026 |
| ## | [2500] | 9.581904 | 9.441452 | 9.862666 | 9.908475 | 9.723164 | 9.803667 | 8.188689 |
| ## | [2507] | 9.893437 | 8.974618 | 9.609116 | 9.705037 | 9.495519 | 9.546813 | 9.367344 |
| ## | [2514] | 8.242756 | 10.012342 | 9.769956 | 9.525151 | 9.655026 | 9.287301 | 9.873028 |
| ## | [2521] | 8.665613 | 9.798127 | 9.525151 | 8.665613 | 9.517825 | 9.449357 | 10.413313 |
| ## | [2528] | 9.852194 | 9.441452 | 9.517825 | 9.769956 | 9.913438 | 9.574983 | 9.898475 |

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|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [2535] | 9.560997 | 9.878170 | 9.648595 | 9.035987 | 9.961756 | 9.314700 | 10.524064 |
| ## | [2542] | 9.711116 | 9.609116 | 9.622450 | 9.546813 | 9.525151 | 9.852194 | 8.612503 |
| ## | [2549] | 9.517825 | 9.686575 | 9.686575 | 10.196157 | 9.190138 | 9.384294 | 9.862666 |
| ## | [2556] | 9.966462 | 9.011889 | 9.648595 | 9.786954 | 10.395130 | 9.296518 | 9.841612 |
| ## | [2563] | 9.615805 | 9.820106 | 9.867860 | 9.487972 | 9.588777 | 9.277999 | 9.775654 |
| ## | [2570] | 9.487972 | 10.110502 | 9.820106 | 10.081634 | 9.503010 | 5.298317 | 9.898475 |
| ## | [2577] | 9.449357 | 9.503010 | 9.846917 | 10.106428 | 9.503010 | 10.250617 | 9.873028 |
| ## | [2584] | 10.196157 | 9.711116 | 9.433484 | 9.985068 | 9.928180 | 9.472705 | 9.532424 |
| ## | [2591] | 9.686575 | 6.551080 | 9.781320 | 9.480368 | 9.332558 | 9.615805 | 9.998798 |
| ## | [2598] | 9.449357 | 9.692767 | 9.433484 | 10.085809 | 9.277999 | 9.449357 | 9.392662 |
| ## | [2605] | 9.764225 | 9.830917 | 10.043249 | 8.922658 | 9.546813 | 9.781320 | 9.425452 |
| ## | [2612] | 5.298317 | 9.686575 | 9.305651 | 10.003333 | 10.199882 | 9.729134 | 9.495519 |
| ## | [2619] | 9.667765 | 9.883285 | 9.698920 | 9.071078 | 9.841612 | 9.433484 | 9.487972 |
| ## | [2626] | 9.729134 | 10.056209 | 9.581904 | 9.449357 | 9.711116 | 10.110502 | 9.883285 |
| ## | [2633] | 9.268609 | 9.841612 | 9.729134 | 9.464983 | 6.684612 | 9.661416 | 9.893437 |
| ## | [2640] | 10.613983 | 9.723164 | 7.549609 | 9.735069 | 9.375855 | 9.487972 | 8.881836 |
| ## | [2647] | 9.417355 | 9.358760 | 9.985068 | 9.692767 | 10.169691 | 9.622450 | 9.417355 |
| ## | [2654] | 9.798127 | 8.594154 | 9.480368 | 9.629051 | 9.975808 | 9.314700 | 9.648595 |
| ## | [2661] | 9.433484 | 9.574983 | 9.841612 | 9.609116 | 9.268609 | 9.942708 | 9.852194 |
| ## | [2668] | 9.758462 | 10.025705 | 9.971146 | 9.433484 | 9.433484 | 9.873028 | 9.711116 |
| ## | [2675] | 10.510532 | 9.249561 | 9.615805 | 9.769956 | 11.042922 | 9.846917 | 10.705489 |
| ## | [2682] | 9.928180 | 8.648221 | 9.341369 | 9.878170 | 9.903488 | 10.328755 | 9.674074 |
| ## | [2689] | 9.553930 | 10.025705 | 9.480368 | 6.907755 | 10.051908 | 9.581904 | 9.503010 |
| ## | [2696] | 9.764225 | 9.622450 | 9.574983 | 8.630522 | 9.893437 | 9.758462 | 9.809177 |
| ## | [2703] | 9.148465 | 9.994242 | 9.629051 | 8.630522 | 10.434116 | 9.873028 | 10.030120 |
| ## | [2710] | 9.190138 | 9.487972 | 9.480368 | 10.184900 | 8.242756 | 9.277999 | 10.261162 |
| ## | [2717] | 10.173515 | 7.783224 | 9.841612 | 9.622450 | 9.581904 | 9.746834 | 9.568015 |
| ## | [2724] | 10.668955 | 9.487972 | 10.110502 | 9.602382 | 9.268609 | 9.836279 | 9.998798 |
| ## | [2731] | 8.909235 | 9.928180 | 9.392662 | 9.998798 | 10.370361 | 10.025705 | 9.480368 |
| ## | [2738] | 10.236382 | 10.413313 | 6.684612 | 9.803667 | 9.277999 | 10.471638 | 9.367344 |
| ## | [2745] | 9.417355 | 9.830917 | 9.609116 | 9.609116 | 9.913438 | 9.629051 | 9.764225 |
| ## | [2752] | 9.517825 | 10.281924 | 6.551080 | 9.532424 | 9.781320 | 9.975808 | 10.442901 |
| ## | [2759] | 9.449357 | 10.126631 | 9.661416 | 9.667765 | 9.862666 | 9.287301 | 9.546813 |
| ## | [2766] | 9.655026 | 9.574983 | 9.758462 | 9.635608 | 9.539644 | 9.723164 | 7.170120 |
| ## | [2773] | 9.425452 | 8.935904 | 9.928180 | 10.973357 | 9.852194 | 10.295530 | 9.852194 |
| ## | [2780] | 9.888374 | 9.667765 | 9.615805 | 9.268609 | 9.546813 | 9.568015 | 8.131531 |
| ## | [2787] | 10.081634 | 9.384294 | 9.655026 | 9.464983 | 9.661416 | 9.287301 | 9.581904 |
| ## | [2794] | 9.525151 | 10.089967 | 10.218298 | 10.207289 | 9.705037 | 9.729134 | 9.296518 |
| ## | [2801] | 10.357743 | 9.971146 | 9.082507 | 9.867860 | 9.820106 | 9.588777 | 9.588777 |
| ## | [2808] | 9.341369 | 9.296518 | 9.852194 | 9.629051 | 10.016816 | 9.296518 | 9.841612 |
| ## | [2815] | 10.043249 | 9.615805 | 10.106428 | 9.259131 | 9.367344 | 9.553930 | 9.602382 |
| ## | [2822] | 9.480368 | 8.648221 | 9.937889 | 11.061940 | 9.966462 | 9.200290 | 10.609057 |
| ## | [2829] | 9.588777 | 4.605170 | 9.332558 | 9.314700 | 9.539644 | 9.588777 | 9.525151 |
| ## | [2836] | 9.692767 | 9.898475 | 9.104980 | 9.417355 | 10.003333 | 9.786954 | 9.775654 |
| ## | [2843] | 10.292146 | 9.723164 | 9.517825 | 9.918376 | 9.314700 | 9.642123 | 9.341369 |
| ## | [2850] | 9.277999 | 9.903488 | 8.160518 | 9.568015 | 9.417355 | 9.918376 | 10.016816 |
| ## | [2857] | 9.539644 | 10.239960 | 9.532424 | 9.517825 | 9.409191 | 9.546813 | 8.699515 |
| ## | [2864] | 9.539644 | 9.692767 | 9.655026 | 9.249561 | 9.609116 | 9.517825 | 9.908475 |
| ## | [2871] | 8.987197 | 9.546813 | 9.296518 | 9.825526 | 9.729134 | 9.980449 | 9.495519 |
| ## | [2878] | 9.400961 | 9.425452 | 9.764225 | 9.867860 | 9.341369 | 9.137770 | 10.126631 |
| ## | [2885] | 9.268609 | 9.711116 | 9.798127 | 9.942708 | 9.803667 | 9.786954 | 9.249561 |
| ## | [2892] | 9.367344 | 10.085809 | 9.525151 | 9.723164 | 9.367344 | 9.629051 | 10.012342 |
| ## | [2899] | 9.525151 | 9.820106 | 9.998798 | 9.503010 | 9.769956 | 9.729134 | 9.574983 |
| ## | [2906] | 10.021271 | 9.867860 | 9.913438 | 9.495519 | 9.798127 | 9.517825 | 9.425452 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [2913] | 9.546813 | 9.425452 | 9.296518 | 9.957028 | 9.159047 | 9.852194 | 9.609116 |
| ## | [2920] | 9.581904 | 9.449357 | 9.581904 | 9.210340 | 9.903488 | 8.699515 | 9.957028 |
| ## | [2927] | 10.563595 | 9.648595 | 9.517825 | 8.699515 | 10.295530 | 10.308953 | 9.449357 |
| ## | [2934] | 10.288750 | 9.928180 | 8.748305 | 9.867860 | 8.039157 | 11.225243 | 9.433484 |
| ## | [2941] | 10.207289 | 9.820106 | 9.971146 | 9.809177 | 10.843495 | 9.093807 | 10.069002 |
| ## | [2948] | 9.903488 | 8.867850 | 9.287301 | 9.480368 | 9.758462 | 10.218298 | 9.961756 |
| ## | [2955] | 10.118599 | 9.296518 | 9.441452 | 9.998798 | 10.214642 | 8.987197 | 9.341369 |
| ## | [2962] | 9.867860 | 9.417355 | 9.553930 | 9.503010 | 9.296518 | 10.016816 | 8.496990 |
| ## | [2969] | 10.043249 | 9.888374 | 10.239960 | 8.699515 | 9.472705 | 9.220291 | 9.539644 |
| ## | [2976] | 9.809177 | 9.011889 | 10.102338 | 9.928180 | 9.433484 | 8.794825 | 9.862666 |
| ## | [2983] | 9.503010 | 7.863267 | 8.630522 | 9.923290 | 9.803667 | 9.764225 | 10.451609 |
| ## | [2990] | 9.862666 | 9.433484 | 9.159047 | 9.862666 | 9.314700 | 10.154246 | 9.655026 |
| ## | [2997] | 9.622450 | 9.655026 | 10.460242 | 9.480368 | 9.400961 | 9.723164 | 10.214642 |
| ## | [3004] | 9.457200 | 9.560997 | 8.242756 | 9.622450 | 9.642123 | 9.642123 | 9.259131 |
| ## | [3011] | 9.873028 | 10.081634 | 10.261162 | 9.384294 | 9.472705 | 9.918376 | 10.154246 |
| ## | [3018] | 10.243525 | 9.332558 | 9.928180 | 9.472705 | 9.655026 | 10.196157 | 9.781320 |
| ## | [3025] | 8.895630 | 9.517825 | 9.323669 | 9.883285 | 9.433484 | 9.609116 | 9.314700 |
| ## | [3032] | 9.457200 | 9.296518 | 10.126631 | 9.449357 | 9.433484 | 9.487972 | 9.560997 |
| ## | [3039] | 10.060491 | 9.433484 | 9.525151 | 9.913438 | 8.496990 | 9.425452 | 9.449357 |
| ## | [3046] | 10.169691 | 9.873028 | 9.230143 | 9.957028 | 9.400961 | 8.881836 | 10.122623 |
| ## | [3053] | 9.574983 | 7.783224 | 9.148465 | 10.613983 | 10.594132 | 10.085809 | 9.384294 |
| ## | [3060] | 9.159047 | 9.200290 | 9.417355 | 5.991465 | 9.966462 | 8.496990 | 9.341369 |
| ## | [3067] | 9.937889 | 9.609116 | 9.495519 | 11.088278 | 10.328755 | 9.375855 | 9.692767 |
| ## | [3074] | 9.375855 | 9.893437 | 9.655026 | 9.686575 | 9.758462 | 7.244228 | 9.441452 |
| ## | [3081] | 10.081634 | 10.357743 | 9.862666 | 10.515967 | 9.581904 | 10.025705 | 9.230143 |
| ## | [3088] | 9.942708 | 8.536996 | 9.287301 | 8.517193 | 9.517825 | 10.866662 | 9.867860 |
| ## | [3095] | 9.487972 | 10.545341 | 10.192419 | 9.698920 | 9.560997 | 9.425452 | 9.746834 |
| ## | [3102] | 9.464983 | 9.705037 | 9.758462 | 9.249561 | 9.472705 | 9.517825 | 9.723164 |
| ## | [3109] | 10.138560 | 9.942708 | 9.994242 | 9.758462 | 10.207289 | 9.375855 | 9.560997 |
| ## | [3116] | 9.568015 | 10.126631 | 9.705037 | 10.016816 | 10.392068 | 9.480368 | 9.480368 |
| ## | [3123] | 9.933046 | 9.852194 | 10.122623 | 9.642123 | 10.098232 | 9.655026 | 8.809863 |
| ## | [3130] | 10.021271 | 9.200290 | 9.560997 | 9.332558 | 9.942708 | 10.077441 | 8.824678 |
| ## | [3137] | 9.574983 | 9.781320 | 9.809177 | 9.323669 | 9.764225 | 9.200290 | 9.568015 |
| ## | [3144] | 9.400961 | 9.525151 | 9.341369 | 9.642123 | 9.400961 | 9.480368 | 9.546813 |
| ## | [3151] | 9.332558 | 8.974618 | 9.296518 | 9.867860 | 8.411833 | 10.218298 | 9.758462 |
| ## | [3158] | 9.464983 | 9.667765 | 9.994242 | 10.047588 | 9.820106 | 10.214642 | 9.480368 |
| ## | [3165] | 9.680344 | 9.786954 | 6.802395 | 9.883285 | 9.711116 | 9.798127 | 9.729134 |
| ## | [3172] | 9.581904 | 9.898475 | 8.764053 | 9.472705 | 9.417355 | 9.503010 | 9.350102 |
| ## | [3179] | 9.487972 | 9.648595 | 9.723164 | 9.314700 | 9.758462 | 9.220291 | 9.803667 |
| ## | [3186] | 9.820106 | 8.455318 | 9.568015 | 9.764225 | 9.746834 | 9.615805 | 9.746834 |
| ## | [3193] | 8.411833 | 9.464983 | 9.609116 | 9.629051 | 9.686575 | 9.350102 | 6.214608 |
| ## | [3200] | 9.661416 | 9.648595 | 9.449357 | 10.051908 | 10.047588 | 9.487972 | 9.609116 |
| ## | [3207] | 9.568015 | 9.392662 | 9.803667 | 9.803667 | 9.913438 | 9.674074 | 8.476371 |
| ## | [3214] | 10.576432 | 9.867860 | 9.296518 | 9.350102 | 9.705037 | 9.449357 | 9.928180 |
| ## | [3221] | 9.525151 | 9.588777 | 9.210340 | 9.809177 | 9.729134 | 9.609116 | 9.602382 |
| ## | [3228] | 9.546813 | 8.476371 | 9.989665 | 9.259131 | 9.918376 | 10.376611 | 9.588777 |
| ## | [3235] | 9.367344 | 10.118599 | 9.367344 | 9.409191 | 9.560997 | 9.686575 | 10.496814 |
| ## | [3242] | 10.524064 | 9.928180 | 9.296518 | 9.740969 | 9.711116 | 9.296518 | 9.857444 |
| ## | [3249] | 9.190138 | 9.305651 | 9.629051 | 10.085809 | 9.503010 | 9.698920 | 10.102338 |
| ## | [3256] | 9.928180 | 9.375855 | 9.341369 | 9.546813 | 9.296518 | 9.758462 | 10.407289 |
| ## | [3263] | 9.314700 | 8.853665 | 9.661416 | 9.775654 | 10.207289 | 9.735069 | 9.998798 |
| ## | [3270] | 10.351373 | 8.342840 | 9.532424 | 10.207289 | 10.354563 | 9.961756 | 10.034516 |
| ## | [3277] | 9.942708 | 9.867860 | 9.602382 | 8.794825 | 9.629051 | 9.957028 | 9.809177 |
| ## | [3284] | 9.798127 | 8.948976 | 9.820106 | 6.684612 | 9.539644 | 9.898475 | 9.487972 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [3291] | 9.433484 | 9.942708 | 10.764266 | 9.417355 | 9.903488 | 9.809177 | 10.025705 |
| ## | [3298] | 8.294050 | 9.781320 | 9.615805 | 9.546813 | 9.400961 | 9.667765 | 9.746834 |
| ## | [3305] | 9.425452 | 10.373491 | 9.384294 | 9.933046 | 10.016816 | 9.705037 | 9.933046 |
| ## | [3312] | 9.786954 | 9.425452 | 9.971146 | 9.568015 | 9.803667 | 8.839277 | 9.568015 |
| ## | [3319] | 9.692767 | 9.035987 | 11.131665 | 9.503010 | 9.314700 | 9.622450 | 9.729134 |
| ## | [3326] | 9.873028 | 9.200290 | 9.314700 | 9.472705 | 8.716044 | 9.971146 | 9.480368 |
| ## | [3333] | 9.648595 | 9.425452 | 9.809177 | 9.480368 | 9.392662 | 9.400961 | 9.332558 |
| ## | [3340] | 9.836279 | 9.220291 | 9.723164 | 9.814656 | 9.392662 | 9.581904 | 11.131665 |
| ## | [3347] | 9.622450 | 9.350102 | 9.602382 | 9.729134 | 9.803667 | 9.769956 | 8.909235 |
| ## | [3354] | 9.998798 | 8.389360 | 9.480368 | 9.259131 | 10.199882 | 9.758462 | 9.464983 |
| ## | [3361] | 9.792556 | 9.546813 | 9.323669 | 9.449357 | 9.629051 | 6.551080 | 9.417355 |
| ## | [3368] | 9.883285 | 8.881836 | 9.642123 | 9.259131 | 9.705037 | 9.472705 | 9.384294 |
| ## | [3375] | 9.517825 | 9.190138 | 9.350102 | 9.200290 | 10.173515 | 9.686575 | 6.802395 |
| ## | [3382] | 9.913438 | 10.007848 | 9.568015 | 9.740969 | 9.464983 | 9.971146 | 6.684612 |
| ## | [3389] | 9.667765 | 7.244228 | 9.503010 | 9.314700 | 9.441452 | 9.698920 | 9.913438 |
| ## | [3396] | 9.332558 | 9.622450 | 9.314700 | 10.308953 | 8.496990 | 9.568015 | 9.425452 |
| ## | [3403] | 8.188689 | 9.602382 | 10.338511 | 7.244228 | 9.384294 | 9.525151 | 8.131531 |
| ## | [3410] | 9.472705 | 9.705037 | 9.047821 | 9.503010 | 10.158130 | 9.764225 | 9.539644 |
| ## | [3417] | 9.661416 | 9.220291 | 9.220291 | 9.323669 | 6.802395 | 9.384294 | 10.214642 |
| ## | [3424] | 9.400961 | 10.285343 | 9.409191 | 9.746834 | 9.287301 | 9.495519 | 9.798127 |
| ## | [3431] | 9.433484 | 9.375855 | 8.895630 | 9.532424 | 9.581904 | 9.942708 | 7.003065 |
| ## | [3438] | 8.536996 | 9.692767 | 9.417355 | 9.525151 | 8.665613 | 9.615805 | 9.758462 |
| ## | [3445] | 6.907755 | 9.525151 | 9.867860 | 9.629051 | 9.841612 | 5.991465 | 9.723164 |
| ## | [3452] | 9.249561 | 8.556414 | 9.400961 | 9.464983 | 9.642123 | 9.532424 | 9.367344 |
| ## | [3459] | 8.809863 | 10.146434 | 9.332558 | 9.332558 | 9.609116 | 9.686575 | 9.588777 |
| ## | [3466] | 8.824678 | 9.532424 | 9.487972 | 9.230143 | 9.680344 | 9.867860 | 9.602382 |
| ## | [3473] | 9.433484 | 8.594154 | 10.203592 | 9.230143 | 9.609116 | 9.375855 | 9.487972 |
| ## | [3480] | 9.268609 | 9.239899 | 9.532424 | 9.495519 | 9.862666 | 9.825526 | 9.698920 |
| ## | [3487] | 9.392662 | 9.735069 | 9.148465 | 9.259131 | 9.893437 | 9.729134 | 9.588777 |
| ## | [3494] | 9.686575 | 10.232791 | 9.667765 | 9.384294 | 10.268131 | 9.190138 | 6.907755 |
| ## | [3501] | 9.602382 | 8.476371 | 9.200290 | 9.392662 | 9.425452 | 9.893437 | 9.400961 |
| ## | [3508] | 9.384294 | 9.642123 | 9.825526 | 9.341369 | 9.517825 | 9.883285 | 9.764225 |
| ## | [3515] | 9.059517 | 9.862666 | 9.457200 | 9.758462 | 8.517193 | 9.867860 | 9.769956 |
| ## | [3522] | 8.536996 | 9.798127 | 9.705037 | 9.648595 | 9.852194 | 8.699515 | 9.862666 |
| ## | [3529] | 9.830917 | 9.862666 | 9.629051 | 9.581904 | 8.612503 | 9.667765 | 9.417355 |
| ## | [3536] | 9.249561 | 10.177324 | 9.581904 | 9.642123 | 9.464983 | 9.384294 | 9.375855 |
| ## | [3543] | 9.220291 | 9.568015 | 9.746834 | 9.588777 | 9.441452 | 9.400961 | 9.259131 |
| ## | [3550] | 9.277999 | 8.853665 | 9.539644 | 9.830917 | 8.716044 | 9.588777 | 9.071078 |
| ## | [3557] | 9.692767 | 9.539644 | 8.948976 | 8.612503 | 9.674074 | 9.883285 | 9.449357 |
| ## | [3564] | 9.400961 | 9.495519 | 9.517825 | 9.367344 | 9.392662 | 9.648595 | 9.711116 |
| ## | [3571] | 9.820106 | 9.539644 | 9.268609 | 9.449357 | 9.400961 | 5.991465 | 9.781320 |
| ## | [3578] | 9.082507 | 9.480368 | 9.655026 | 9.648595 | 9.852194 | 10.030120 | 9.602382 |
| ## | [3585] | 9.425452 | 9.323669 | 9.457200 | 9.277999 | 10.849337 | 9.341369 | 9.809177 |
| ## | [3592] | 9.729134 | 9.602382 | 9.384294 | 9.367344 | 11.137504 | 9.758462 | 10.623763 |
| ## | [3599] | 9.532424 | 9.971146 | 9.686575 | 10.635855 | 9.367344 | 9.503010 | 9.441452 |
| ## | [3606] | 10.126631 | 9.798127 | 9.332558 | 9.487972 | 9.441452 | 9.966462 | 9.629051 |
| ## | [3613] | 9.449357 | 9.769956 | 9.350102 | 9.441452 | 9.367344 | 9.495519 | 9.480368 |
| ## | [3620] | 8.648221 | 10.250617 | 9.287301 | 9.723164 | 9.532424 | 9.417355 | 8.948976 |
| ## | [3627] | 8.948976 | 9.126959 | 9.126959 | 8.188689 | 8.536996 | 8.496990 | 7.783224 |
| ## | [3634] | 9.035987 | 8.242756 | 9.341369 | 8.366370 | 9.169518 | 9.568015 | 9.190138 |
| ## | [3641] | 8.935904 | 8.188689 | 9.137770 | 9.723164 | 9.104980 | 9.137770 | 9.667765 |
| ## | [3648] | 9.277999 | 9.985068 | 9.758462 | 9.159047 | 9.104980 | 9.642123 | 9.220291 |
| ## | [3655] | 8.188689 | 9.341369 | 9.148465 | 8.101678 | 9.384294 | 7.244228 | 8.779557 |
| ## | [3662] | 8.867850 | 9.655026 | 8.070906 | 9.148465 | 9.487972 | 9.126959 | 9.367344 |

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|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [3669] | 9.449357 | 9.367344 | 8.853665 | 9.024011 | 9.093807 | 8.294050 | 9.093807 |
| ## | [3676] | 9.024011 | 9.532424 | 9.341369 | 9.277999 | 8.612503 | 8.987197 | 9.525151 |
| ## | [3683] | 9.332558 | 8.974618 | 9.602382 | 9.024011 | 9.047821 | 9.758462 | 9.268609 |
| ## | [3690] | 9.137770 | 10.239960 | 9.200290 | 8.101678 | 9.082507 | 9.417355 | 9.230143 |
| ## | [3697] | 9.375855 | 8.006368 | 9.259131 | 8.556414 | 9.635608 | 8.987197 | 8.101678 |
| ## | [3704] | 8.867850 | 9.425452 | 9.011889 | 8.268732 | 9.190138 | 9.375855 | 9.082507 |
| ## | [3711] | 9.024011 | 9.735069 | 9.472705 | 7.824046 | 9.200290 | 9.296518 | 9.159047 |
| ## | [3718] | 9.126959 | 9.093807 | 8.648221 | 9.071078 | 9.698920 | 8.716044 | 8.294050 |
| ## | [3725] | 9.220291 | 9.200290 | 9.059517 | 9.655026 | 9.190138 | 8.922658 | 9.568015 |
| ## | [3732] | 9.375855 | 7.244228 | 9.169518 | 9.220291 | 9.574983 | 9.323669 | 9.230143 |
| ## | [3739] | 9.126959 | 7.003065 | 9.323669 | 10.757903 | 9.809177 | 9.480368 | 9.480368 |
| ## | [3746] | 9.836279 | 8.188689 | 9.735069 | 9.539644 | 9.159047 | 9.314700 | 9.985068 |
| ## | [3753] | 9.400961 | 9.648595 | 9.375855 | 9.769956 | 10.184900 | 9.913438 | 9.296518 |
| ## | [3760] | 9.375855 | 9.698920 | 10.545341 | 9.392662 | 9.546813 | 8.612503 | 9.367344 |
| ## | [3767] | 10.081634 | 9.803667 | 9.798127 | 9.686575 | 9.384294 | 9.642123 | 9.933046 |
| ## | [3774] | 9.200290 | 10.328755 | 9.814656 | 9.425452 | 6.684612 | 9.705037 | 9.487972 |
| ## | [3781] | 10.177324 | 9.775654 | 9.809177 | 9.480368 | 9.648595 | 10.661954 | 9.635608 |
| ## | [3788] | 10.192419 | 9.867860 | 10.468801 | 9.568015 | 9.137770 | 9.425452 | 9.417355 |
| ## | [3795] | 9.574983 | 9.735069 | 6.684612 | 9.667765 | 6.684612 | 9.464983 | 9.480368 |
| ## | [3802] | 6.684612 | 9.781320 | 9.332558 | 9.553930 | 9.622450 | 9.332558 | 10.229188 |
| ## | [3809] | 10.344963 | 9.746834 | 8.699515 | 9.746834 | 10.218298 | 9.975808 | 10.229188 |
| ## | [3816] | 9.400961 | 9.539644 | 6.396930 | 9.375855 | 9.729134 | 10.089967 | 10.547970 |
| ## | [3823] | 9.480368 | 9.517825 | 10.685103 | 9.674074 | 9.230143 | 9.609116 | 9.867860 |
| ## | [3830] | 11.071315 | 8.216088 | 8.496990 | 9.553930 | 9.341369 | 10.154246 | 9.786954 |
| ## | [3837] | 9.449357 | 9.409191 | 9.975808 | 9.820106 | 9.296518 | 9.942708 | 9.546813 |
| ## | [3844] | 10.060491 | 10.413313 | 9.942708 | 10.085809 | 8.748305 | 9.862666 | 9.735069 |
| ## | [3851] | 9.358760 | 8.948976 | 10.130623 | 10.664293 | 9.220291 | 9.609116 | 9.893437 |
| ## | [3858] | 9.711116 | 9.059517 | 10.410305 | 9.883285 | 10.012342 | 10.413313 | 9.367344 |
| ## | [3865] | 10.169691 | 9.769956 | 9.692767 | 8.648221 | 9.425452 | 10.281924 | 10.214642 |
| ## | [3872] | 9.957028 | 9.425452 | 9.674074 | 10.199882 | 9.667765 | 9.746834 | 9.249561 |
| ## | [3879] | 10.635855 | 9.341369 | 6.684612 | 9.775654 | 10.428216 | 9.786954 | 9.392662 |
| ## | [3886] | 9.480368 | 9.581904 | 8.824678 | 8.794825 | 10.388995 | 9.126959 | 10.261162 |
| ## | [3893] | 9.798127 | 10.626194 | 10.626194 | 10.566176 | 10.292146 | 10.448715 | 9.367344 |
| ## | [3900] | 9.629051 | 9.384294 | 9.296518 | 9.781320 | 10.247077 | 9.846917 | 8.987197 |
| ## | [3907] | 10.643041 | 10.502324 | 9.857444 | 9.093807 | 9.525151 | 9.798127 | 10.196157 |
| ## | [3914] | 9.384294 | 9.655026 | 10.594132 | 9.400961 | 9.903488 | 10.783114 | 10.325482 |
| ## | [3921] | 9.898475 | 9.220291 | 10.003333 | 9.305651 | 8.496990 | 9.735069 | 9.729134 |
| ## | [3928] | 9.711116 | 10.515967 | 10.232791 | 9.985068 | 10.678215 | 10.434116 | 10.547970 |
| ## | [3935] | 9.433484 | 10.635855 | 9.803667 | 9.296518 | 9.655026 | 6.684612 | 8.853665 |
| ## | [3942] | 9.441452 | 10.524064 | 10.338511 | 9.898475 | 9.259131 | 9.350102 | 9.525151 |
| ## | [3949] | 10.146434 | 9.809177 | 9.384294 | 9.457200 | 9.686575 | 10.367222 | 10.154246 |
| ## | [3956] | 9.480368 | 10.537415 | 10.030120 | 10.691945 | 9.323669 | 9.358760 | 9.883285 |
| ## | [3963] | 9.629051 | 9.287301 | 9.957028 | 9.093807 | 10.106428 | 9.622450 | 9.622450 |
| ## | [3970] | 10.532096 | 10.025705 | 9.503010 | 9.655026 | 10.102338 | 10.532096 | 10.328755 |
| ## | [3977] | 9.384294 | 9.674074 | 9.642123 | 9.560997 | 9.947504 | 10.069002 | 9.615805 |
| ## | [3984] | 9.998798 | 9.525151 | 9.472705 | 10.457373 | 9.375855 | 9.928180 | 10.678215 |
| ## | [3991] | 9.928180 | 9.595603 | 9.758462 | 9.686575 | 8.006368 | 9.314700 | 9.723164 |
| ## | [3998] | 9.752665 | 9.609116 | 10.150348 | 9.602382 | 8.922658 | 9.781320 | 10.025705 |
| ## | [4005] | 9.686575 | 9.873028 | 9.350102 | 9.998798 | 9.786954 | 10.161998 | 10.404263 |
| ## | [4012] | 9.803667 | 10.150348 | 9.629051 | 9.893437 | 10.482906 | 9.230143 | 9.989665 |
| ## | [4019] | 10.862838 | 9.568015 | 9.581904 | 9.893437 | 9.648595 | 10.264652 | 10.315597 |
| ## | [4026] | 9.918376 | 9.740969 | 9.609116 | 10.328755 | 9.568015 | 9.350102 | 9.830917 |
| ## | [4033] | 9.574983 | 9.711116 | 9.314700 | 9.775654 | 9.803667 | 9.341369 | 9.296518 |
| ## | [4040] | 9.867860 | 9.629051 | 10.439981 | 10.357743 | 10.225571 | 9.384294 | 10.675908 |

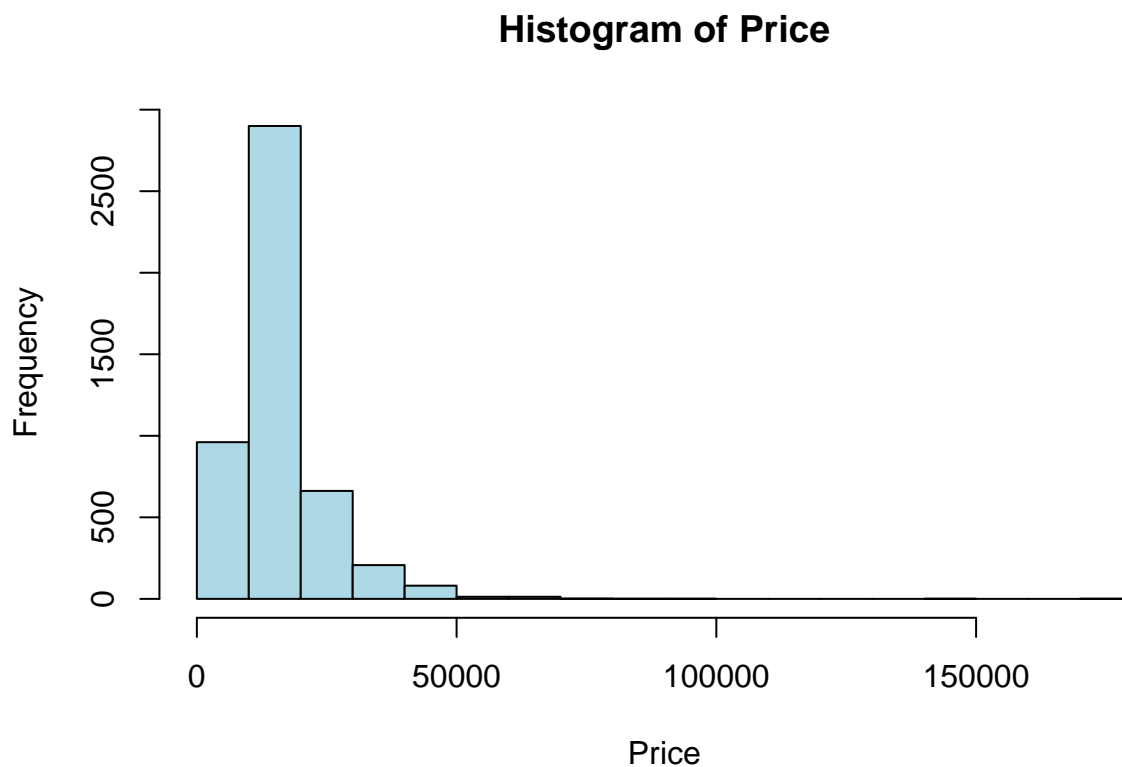
| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [4047] | 10.465956 | 9.989665 | 9.852194 | 9.400961 | 9.629051 | 9.392662 | 9.775654 |
| ## | [4054] | 10.817776 | 9.998798 | 10.596635 | 9.878170 | 9.581904 | 9.472705 | 9.746834 |
| ## | [4061] | 9.928180 | 9.568015 | 10.047588 | 9.814656 | 10.089967 | 9.923290 | 10.813760 |
| ## | [4068] | 9.495519 | 9.495519 | 10.354563 | 10.413313 | 9.908475 | 10.618885 | 9.820106 |
| ## | [4075] | 9.903488 | 10.102338 | 10.413313 | 9.495519 | 10.043249 | 9.655026 | 9.629051 |
| ## | [4082] | 10.016816 | 9.210340 | 9.268609 | 9.384294 | 9.803667 | 9.686575 | 10.207289 |
| ## | [4089] | 9.971146 | 9.674074 | 10.524064 | 9.510445 | 10.766378 | 9.159047 | 10.482906 |
| ## | [4096] | 10.571317 | 9.622450 | 9.686575 | 10.069002 | 9.667765 | 9.667765 | 9.375855 |
| ## | [4103] | 10.757903 | 10.154246 | 10.395130 | 9.746834 | 10.150348 | 10.047588 | 9.503010 |
| ## | [4110] | 10.952559 | 11.052476 | 10.370361 | 10.158130 | 10.645425 | 9.615805 | 10.471638 |
| ## | [4117] | 10.757903 | 10.460242 | 9.769956 | 10.448715 | 9.433484 | 9.588777 | 9.268609 |
| ## | [4124] | 10.540064 | 10.016816 | 9.735069 | 9.775654 | 9.698920 | 9.480368 | 9.615805 |
| ## | [4131] | 10.077441 | 10.924138 | 9.568015 | 8.496990 | 10.051908 | 9.873028 | 10.308953 |
| ## | [4138] | 9.705037 | 9.375855 | 9.629051 | 10.920528 | 9.560997 | 10.325482 | 10.169691 |
| ## | [4145] | 10.650176 | 9.648595 | 11.319341 | 10.388995 | 9.692767 | 9.449357 | 9.629051 |
| ## | [4152] | 10.698740 | 9.409191 | 9.740969 | 10.465956 | 9.937889 | 9.758462 | 9.615805 |
| ## | [4159] | 9.692767 | 9.200290 | 9.985068 | 9.230143 | 10.102338 | 9.985068 | 9.341369 |
| ## | [4166] | 9.830917 | 10.664293 | 9.560997 | 10.025705 | 9.560997 | 9.729134 | 9.686575 |
| ## | [4173] | 9.918376 | 10.312280 | 9.384294 | 9.686575 | 9.686575 | 10.463103 | 10.488493 |
| ## | [4180] | 9.961756 | 9.933046 | 9.503010 | 9.820106 | 9.867860 | 10.038892 | 9.525151 |
| ## | [4187] | 10.545341 | 10.628618 | 10.594132 | 9.746834 | 9.971146 | 10.196157 | 9.480368 |
| ## | [4194] | 9.686575 | 10.694215 | 9.692767 | 10.499573 | 10.623763 | 10.578980 | 10.678215 |
| ## | [4201] | 9.898475 | 9.729134 | 9.836279 | 10.034516 | 8.999619 | 9.210340 | 9.803667 |
| ## | [4208] | 9.740969 | 10.051908 | 10.448715 | 9.764225 | 9.441452 | 9.568015 | 9.740969 |
| ## | [4215] | 10.742897 | 10.012342 | 9.786954 | 9.503010 | 9.792556 | 10.698740 | 9.137770 |
| ## | [4222] | 9.798127 | 9.609116 | 9.667765 | 9.268609 | 9.392662 | 9.532424 | 9.883285 |
| ## | [4229] | 9.883285 | 9.517825 | 9.975808 | 10.064756 | 9.375855 | 10.747208 | 9.230143 |
| ## | [4236] | 10.990365 | 9.792556 | 9.830917 | 9.729134 | 10.192419 | 9.609116 | 10.480101 |
| ## | [4243] | 9.781320 | 9.723164 | 10.038892 | 10.094108 | 8.794825 | 10.338511 | 10.471638 |
| ## | [4250] | 9.287301 | 10.056209 | 9.480368 | 10.413313 | 10.012342 | 9.852194 | 10.395130 |
| ## | [4257] | 9.729134 | 10.578980 | 10.077441 | 9.878170 | 10.654904 | 9.957028 | 10.422281 |
| ## | [4264] | 10.448715 | 9.893437 | 10.687389 | 9.841612 | 10.325482 | 9.495519 | 9.200290 |
| ## | [4271] | 9.296518 | 10.707729 | 10.184900 | 9.588777 | 10.477288 | 10.661954 | 9.898475 |
| ## | [4278] | 9.384294 | 9.024011 | 10.239960 | 9.947504 | 10.073230 | 10.795486 | 10.056209 |
| ## | [4285] | 10.628618 | 10.173515 | 10.419301 | 9.367344 | 9.775654 | 10.413313 | 8.999619 |
| ## | [4292] | 9.560997 | 9.852194 | 8.575462 | 9.323669 | 10.494048 | 9.985068 | 9.525151 |
| ## | [4299] | 9.873028 | 9.546813 | 10.468801 | 9.400961 | 9.602382 | 10.192419 | 9.867860 |
| ## | [4306] | 10.181119 | 10.214642 | 9.867860 | 9.425452 | 9.480368 | 10.034516 | 9.667765 |
| ## | [4313] | 9.985068 | 10.318903 | 9.928180 | 10.488493 | 9.169518 | 10.819778 | 9.711116 |
| ## | [4320] | 9.560997 | 10.379722 | 9.723164 | 10.474467 | 9.629051 | 10.043249 | 9.259131 |
| ## | [4327] | 9.560997 | 9.517825 | 10.030120 | 9.568015 | 9.433484 | 10.635855 | 9.758462 |
| ## | [4334] | 9.686575 | 9.961756 | 9.667765 | 8.612503 | 9.661416 | 10.581521 | 10.817776 |
| ## | [4341] | 9.568015 | 10.081634 | 10.379722 | 8.748305 | 9.692767 | 8.824678 | 10.555813 |
| ## | [4348] | 9.764225 | 9.503010 | 10.494048 | 10.485703 | 9.433484 | 10.003333 | 10.795486 |
| ## | [4355] | 9.711116 | 8.665613 | 4.605170 | 9.971146 | 10.439981 | 9.457200 | 9.913438 |
| ## | [4362] | 9.746834 | 10.529426 | 9.989665 | 9.692767 | 8.556414 | 10.376611 | 9.472705 |
| ## | [4369] | 9.581904 | 9.517825 | 9.998798 | 9.705037 | 10.801614 | 8.160518 | 10.146434 |
| ## | [4376] | 9.758462 | 10.169691 | 9.933046 | 10.094108 | 9.830917 | 10.623763 | 10.016816 |
| ## | [4383] | 10.434116 | 10.647803 | 9.705037 | 9.648595 | 9.729134 | 9.642123 | 9.546813 |
| ## | [4390] | 9.937889 | 9.836279 | 9.758462 | 10.278493 | 9.692767 | 9.913438 | 9.609116 |
| ## | [4397] | 9.464983 | 9.341369 | 9.814656 | 9.277999 | 9.786954 | 8.160518 | 8.853665 |
| ## | [4404] | 9.400961 | 9.729134 | 10.051908 | 10.030120 | 9.400961 | 9.740969 | 9.723164 |
| ## | [4411] | 10.275051 | 10.169691 | 9.220291 | 9.560997 | 10.102338 | 10.094108 | 10.077441 |
| ## | [4418] | 9.846917 | 9.758462 | 9.729134 | 9.735069 | 9.341369 | 9.740969 | 8.922658 |

| | | | | | | | | |
|----|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ## | [4425] | 10.047588 | 9.942708 | 9.268609 | 9.798127 | 10.003333 | 10.404263 | 9.814656 |
| ## | [4432] | 9.758462 | 10.214642 | 10.545341 | 10.626194 | 9.433484 | 9.746834 | 10.344963 |
| ## | [4439] | 9.781320 | 10.738568 | 9.441452 | 9.525151 | 9.581904 | 9.686575 | 9.574983 |
| ## | [4446] | 10.398184 | 10.819778 | 10.609057 | 9.314700 | 8.536996 | 10.431170 | 9.903488 |
| ## | [4453] | 9.384294 | 10.261162 | 9.595603 | 9.425452 | 9.581904 | 10.721062 | 9.642123 |
| ## | [4460] | 9.602382 | 9.609116 | 9.893437 | 9.841612 | 9.836279 | 9.525151 | 10.515967 |
| ## | [4467] | 9.503010 | 9.503010 | 10.338511 | 9.210340 | 9.908475 | 8.556414 | 9.093807 |
| ## | [4474] | 10.043249 | 9.655026 | 10.192419 | 10.540064 | 10.395130 | 9.503010 | 9.667765 |
| ## | [4481] | 10.705489 | 9.642123 | 8.961879 | 9.867860 | 8.612503 | 9.723164 | 9.449357 |
| ## | [4488] | 9.384294 | 9.581904 | 9.648595 | 9.933046 | 9.648595 | 8.974618 | 8.895630 |
| ## | [4495] | 9.588777 | 10.578980 | 9.480368 | 8.909235 | 8.867850 | 10.239960 | 9.723164 |
| ## | [4502] | 9.735069 | 9.609116 | 9.942708 | 9.655026 | 10.448715 | 10.214642 | 9.588777 |
| ## | [4509] | 10.749356 | 9.546813 | 9.846917 | 10.264652 | 9.560997 | 11.042922 | 10.025705 |
| ## | [4516] | 9.503010 | 9.622450 | 9.903488 | 9.268609 | 10.030120 | 10.578980 | 10.158130 |
| ## | [4523] | 9.350102 | 9.546813 | 9.655026 | 10.161998 | 10.502324 | 9.966462 | 10.364072 |
| ## | [4530] | 9.878170 | 9.341369 | 10.439981 | 9.259131 | 9.409191 | 9.200290 | 10.584056 |
| ## | [4537] | 9.609116 | 9.449357 | 9.966462 | 10.069002 | 9.740969 | 9.775654 | 9.568015 |
| ## | [4544] | 8.665613 | 9.775654 | 9.786954 | 9.674074 | 10.609057 | 9.667765 | 9.862666 |
| ## | [4551] | 9.752665 | 10.819778 | 9.786954 | 9.758462 | 10.250617 | 9.503010 | 9.449357 |
| ## | [4558] | 10.563595 | 10.448715 | 9.629051 | 10.499573 | 9.803667 | 9.723164 | 9.425452 |
| ## | [4565] | 9.082507 | 9.781320 | 9.464983 | 9.674074 | 9.928180 | 9.532424 | 10.181119 |
| ## | [4572] | 10.499573 | 10.410305 | 10.413313 | 9.220291 | 9.560997 | 10.578980 | 9.711116 |
| ## | [4579] | 9.740969 | 10.047588 | 9.609116 | 10.302264 | 9.629051 | 10.184900 | 9.503010 |
| ## | [4586] | 10.555813 | 9.384294 | 9.210340 | 9.480368 | 10.678215 | 9.137770 | 9.642123 |
| ## | [4593] | 8.699515 | 9.913438 | 9.913438 | 9.210340 | 9.539644 | 9.553930 | 10.725468 |
| ## | [4600] | 9.384294 | 9.998798 | 9.525151 | 9.942708 | 9.622450 | 9.942708 | 10.471638 |
| ## | [4607] | 9.723164 | 9.667765 | 8.867850 | 9.546813 | 9.487972 | 9.332558 | 9.836279 |
| ## | [4614] | 9.717158 | 10.927735 | 9.384294 | 10.524064 | 9.903488 | 9.998798 | 8.974618 |
| ## | [4621] | 9.532424 | 11.021902 | 10.431170 | 9.971146 | 8.612503 | 9.740969 | 9.642123 |
| ## | [4628] | 9.820106 | 9.417355 | 9.287301 | 10.292146 | 10.705489 | 10.150348 | 8.433812 |
| ## | [4635] | 9.287301 | 10.451609 | 9.568015 | 9.568015 | 10.515967 | 9.655026 | 9.686575 |
| ## | [4642] | 10.682812 | 10.146434 | 9.998798 | 10.448715 | 9.686575 | 10.077441 | 9.480368 |
| ## | [4649] | 10.077441 | 9.568015 | 9.472705 | 10.271597 | 9.532424 | 9.883285 | 9.104980 |
| ## | [4656] | 9.862666 | 10.392068 | 10.451609 | 9.602382 | 10.007848 | 10.388995 | 10.594132 |
| ## | [4663] | 10.448715 | 9.609116 | 9.495519 | 10.745055 | 10.725468 | 9.588777 | 9.464983 |
| ## | [4670] | 10.012342 | 9.764225 | 10.831707 | 10.480101 | 9.928180 | 9.711116 | 9.814656 |
| ## | [4677] | 10.482906 | 10.047588 | 9.648595 | 9.942708 | 9.457200 | 9.746834 | 10.668955 |
| ## | [4684] | 9.655026 | 11.869200 | 9.332558 | 9.820106 | 9.622450 | 10.388995 | 9.159047 |
| ## | [4691] | 10.494048 | 10.077441 | 9.648595 | 9.786954 | 10.196157 | 9.609116 | 9.159047 |
| ## | [4698] | 9.609116 | 9.786954 | 9.942708 | 10.482906 | 10.678215 | 10.457373 | 10.308953 |
| ## | [4705] | 8.188689 | 9.686575 | 8.732305 | 9.893437 | 10.529426 | 9.908475 | 9.998798 |
| ## | [4712] | 9.384294 | 10.573878 | 8.188689 | 10.218298 | 10.302264 | 10.678215 | 9.332558 |
| ## | [4719] | 10.482906 | 8.794825 | 9.998798 | 10.439981 | 10.596635 | 10.305614 | 9.332558 |
| ## | [4726] | 8.748305 | 10.594132 | 9.525151 | 10.742897 | 9.574983 | 9.667765 | 11.199584 |
| ## | [4733] | 9.642123 | 10.184900 | 10.130623 | 10.474467 | 10.623763 | 9.503010 | 9.758462 |
| ## | [4740] | 9.758462 | 9.532424 | 9.723164 | 9.629051 | 11.013699 | 9.786954 | 9.648595 |
| ## | [4747] | 10.344963 | 9.525151 | 9.615805 | 11.106460 | 9.047821 | 10.192419 | 9.852194 |
| ## | [4754] | 12.092344 | 10.158130 | 10.398184 | 9.433484 | 10.261162 | 9.384294 | 9.277999 |
| ## | [4761] | 9.803667 | 9.323669 | 10.034516 | 9.878170 | 8.682708 | 10.647803 | 9.609116 |
| ## | [4768] | 9.472705 | 9.883285 | 10.422281 | 9.878170 | 8.974618 | 9.893437 | 9.820106 |
| ## | [4775] | 9.852194 | 9.539644 | 10.106428 | 9.137770 | 9.277999 | 10.404263 | 9.148465 |
| ## | [4782] | 9.464983 | 10.716638 | 9.961756 | 9.314700 | 10.261162 | 10.664293 | 9.705037 |
| ## | [4789] | 9.846917 | 8.594154 | 9.947504 | 10.451609 | 9.735069 | 10.661954 | 8.476371 |
| ## | [4796] | 10.707729 | 10.184900 | 10.532096 | 9.648595 | 9.692767 | 9.661416 | 9.314700 |


```
## [4803]  6.684612  8.476371  9.367344  9.480368  6.684612  9.480368  9.971146
## [4810]  9.883285  9.093807  9.878170  8.699515  9.417355  9.655026  9.830917
## [4817]  9.546813 10.034516  7.170120  9.517825  9.852194  9.568015  9.487972
## [4824]  9.375855  9.686575  9.862666  9.786954  9.758462  9.433484  9.686575
## [4831]  9.655026  9.746834  9.913438  9.735069  9.609116  9.517825  9.560997
## [4838]  9.503010  9.588777  9.769956  9.740969 10.030120  9.648595
```

Plot at least one quantitative variable, and one scatterplot - Histogram of the price variable

```
hist(data$price,
main = "Histogram of Price",
xlab = "Price",
ylab = "Frequency",
col = "lightblue",
border = "black")
```



Plot at least one quantitative variable, and one scatterplot - Scatterplot of mileage to price

```
plot(data$mileage, data$price,  
      main = "Scatterplot of Mileage vs. Price",  
      xlab = "Mileage",  
      ylab = "Price",  
      col = "blue",           # Color of points  
      cex = .5)              # Size of points
```

Scatterplot of Mileage vs. Price

