632 project

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2025-04-26

1) Load Data & Data Cleaning

```
library(stringr)
library(readxl)
```

```
## Warning: package 'readxl' was built under R version 4.4.3
```

```
library(MASS)
library(car)
```

```
## Warning: package 'car' was built under R version 4.4.2
```

```
## Loading required package: carData
```

```
## Warning: package 'carData' was built under R version 4.4.2
```

```
library(gridExtra)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following object is masked from 'package:gridExtra':
##
##     combine
```

```
## The following object is masked from 'package:car':
##
##     recode
```

```
## The following object is masked from 'package:MASS':
##
##     select
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(GGally)
```

```
## Warning: package 'GGally' was built under R version 4.4.3
```

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

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
# load data from all sources and join them

qol_data <- read.csv("QOL(County Level).csv",header= T)
income_data <- read.csv("Income_Urban_VS_Rural.csv",header= T)
covid_data <- read.csv("Provisional_COVID-19_Death_Counts_in_the_United_States_by_County.csv",header= T)
poverty_data <- read_excel("Poverty2023.xlsx")
education_data <- read_excel("Education2023.xlsx")
insurance_data <- read_excel("2024_county_health_release_data_-_v1.xlsx",sheet=2)
```

```
## New names:
## * `Unreliable` -> `Unreliable...4`
## * `95% CI - Low` -> `95% CI - Low...7`
## * `95% CI - High` -> `95% CI - High...8`
## * `National Z-Score` -> `National Z-Score...9`
## * `95% CI - Low` -> `95% CI - Low...39`
## * `95% CI - High` -> `95% CI - High...40`
## * `National Z-Score` -> `National Z-Score...41`
## * `95% CI - Low` -> `95% CI - Low...43`
## * `95% CI - High` -> `95% CI - High...44`
## * `National Z-Score` -> `National Z-Score...45`
## * `95% CI - Low` -> `95% CI - Low...47`
## * `95% CI - High` -> `95% CI - High...48`
## * `National Z-Score` -> `National Z-Score...49`
## * `Unreliable` -> `Unreliable...50`
## * `95% CI - Low` -> `95% CI - Low...52`
## * `95% CI - High` -> `95% CI - High...53`
## * `National Z-Score` -> `National Z-Score...54`
## * `95% CI - Low` -> `95% CI - Low...77`
## * `95% CI - High` -> `95% CI - High...78`
## * `National Z-Score` -> `National Z-Score...79`
## * `95% CI - Low` -> `95% CI - Low...81`
## * `95% CI - High` -> `95% CI - High...82`
## * `National Z-Score` -> `National Z-Score...83`
## * `National Z-Score` -> `National Z-Score...85`
## * `95% CI - Low` -> `95% CI - Low...87`
## * `95% CI - High` -> `95% CI - High...88`
## * `National Z-Score` -> `National Z-Score...89`
## * `National Z-Score` -> `National Z-Score...91`
```

```
## * '95% CI - Low' -> '95% CI - Low...93'
## * '95% CI - High' -> '95% CI - High...94'
## * 'National Z-Score' -> 'National Z-Score...95'
## * '95% CI - Low' -> '95% CI - Low...99'
## * '95% CI - High' -> '95% CI - High...100'
## * 'National Z-Score' -> 'National Z-Score...101'
## * 'National Z-Score' -> 'National Z-Score...104'
## * '95% CI - Low' -> '95% CI - Low...106'
## * '95% CI - High' -> '95% CI - High...107'
## * 'National Z-Score' -> 'National Z-Score...108'
## * '95% CI - Low' -> '95% CI - Low...132'
## * '95% CI - High' -> '95% CI - High...133'
## * 'National Z-Score' -> 'National Z-Score...134'
## * 'National Z-Score' -> 'National Z-Score...138'
## * 'National Z-Score' -> 'National Z-Score...142'
## * 'National Z-Score' -> 'National Z-Score...146'
## * 'National Z-Score' -> 'National Z-Score...148'
## * 'National Z-Score' -> 'National Z-Score...155'
## * 'National Z-Score' -> 'National Z-Score...162'
## * 'Population' -> 'Population...169'
## * '95% CI - Low' -> '95% CI - Low...171'
## * '95% CI - High' -> '95% CI - High...172'
## * 'National Z-Score' -> 'National Z-Score...173'
## * 'Population' -> 'Population...175'
## * '95% CI - Low' -> '95% CI - Low...177'
## * '95% CI - High' -> '95% CI - High...178'
## * 'National Z-Score' -> 'National Z-Score...179'
## * 'National Z-Score' -> 'National Z-Score...183'
## * '95% CI - Low' -> '95% CI - Low...185'
## * '95% CI - High' -> '95% CI - High...186'
## * 'National Z-Score' -> 'National Z-Score...187'
## * 'National Z-Score' -> 'National Z-Score...196'
## * '95% CI - Low' -> '95% CI - Low...200'
## * '95% CI - High' -> '95% CI - High...201'
## * 'National Z-Score' -> 'National Z-Score...202'
## * 'National Z-Score' -> 'National Z-Score...205'
## * '95% CI - Low' -> '95% CI - Low...208'
## * '95% CI - High' -> '95% CI - High...209'
## * 'National Z-Score' -> 'National Z-Score...210'
## * 'National Z-Score' -> 'National Z-Score...233'
## * 'National Z-Score' -> 'National Z-Score...235'
## * '95% CI - Low' -> '95% CI - Low...237'
## * '95% CI - High' -> '95% CI - High...238'
## * 'National Z-Score' -> 'National Z-Score...248'
## * '95% CI - Low' -> '95% CI - Low...250'
## * '95% CI - High' -> '95% CI - High...251'
## * 'National Z-Score' -> 'National Z-Score...252'
## * '95% CI - Low' -> '95% CI - Low...270'
## * '95% CI - High' -> '95% CI - High...271'
## * 'National Z-Score' -> 'National Z-Score...272'
```

```
insurance_data_2 <- read_excel("2024_county_health_release_data_-_v1.xlsx",sheet=4)
```

```
## New names:
```

```
## * '95% CI - Low' -> '95% CI - Low...5'
## * '95% CI - High' -> '95% CI - High...6'
## * '# Deaths' -> '# Deaths...28'
## * '95% CI - Low' -> '95% CI - Low...30'
## * '95% CI - High' -> '95% CI - High...31'
## * '# Deaths' -> '# Deaths...53'
## * '95% CI - Low' -> '95% CI - Low...55'
## * '95% CI - High' -> '95% CI - High...56'
## * '# Deaths' -> '# Deaths...78'
## * '95% CI - Low' -> '95% CI - Low...80'
## * '95% CI - High' -> '95% CI - High...81'
## * '95% CI - Low' -> '95% CI - Low...104'
## * '95% CI - High' -> '95% CI - High...105'
## * '95% CI - Low' -> '95% CI - Low...107'
## * '95% CI - High' -> '95% CI - High...108'
## * '95% CI - Low' -> '95% CI - Low...110'
## * '95% CI - High' -> '95% CI - High...111'
## * '95% CI - Low' -> '95% CI - Low...120'
## * '95% CI - High' -> '95% CI - High...121'
## * '95% CI - Low' -> '95% CI - Low...144'
## * '95% CI - High' -> '95% CI - High...145'
## * '95% CI - Low' -> '95% CI - Low...148'
## * '95% CI - High' -> '95% CI - High...149'
## * '95% CI - Low' -> '95% CI - Low...152'
## * '95% CI - High' -> '95% CI - High...153'
## * '95% CI - Low' -> '95% CI - Low...159'
## * '95% CI - High' -> '95% CI - High...160'
## * 'Average Grade Performance' -> 'Average Grade Performance...161'
## * 'Average Grade Performance (AIAN)' -> 'Average Grade Performance
##   (AIAN)...162'
## * 'Average Grade Performance (Asian)' -> 'Average Grade Performance
##   (Asian)...163'
## * 'Average Grade Performance (Black)' -> 'Average Grade Performance
##   (Black)...164'
## * 'Average Grade Performance (Hispanic)' -> 'Average Grade Performance
##   (Hispanic)...165'
## * 'Average Grade Performance (White)' -> 'Average Grade Performance
##   (White)...166'
## * 'Average Grade Performance' -> 'Average Grade Performance...167'
## * 'Average Grade Performance (AIAN)' -> 'Average Grade Performance
##   (AIAN)...168'
## * 'Average Grade Performance (Asian)' -> 'Average Grade Performance
##   (Asian)...169'
## * 'Average Grade Performance (Black)' -> 'Average Grade Performance
##   (Black)...170'
## * 'Average Grade Performance (Hispanic)' -> 'Average Grade Performance
##   (Hispanic)...171'
## * 'Average Grade Performance (White)' -> 'Average Grade Performance
##   (White)...172'
## * 'Segregation Index' -> 'Segregation Index...173'
## * '95% CI - Low' -> '95% CI - Low...179'
## * '95% CI - High' -> '95% CI - High...180'
## * '95% CI - Low' -> '95% CI - Low...182'
## * '95% CI - High' -> '95% CI - High...183'
```

```
## * `Segregation Index` -> `Segregation Index...200`
## * `95% CI - Low` -> `95% CI - Low...205`
## * `95% CI - High` -> `95% CI - High...206`
## * `# Deaths` -> `# Deaths...228`
## * `95% CI - Low` -> `95% CI - Low...230`
## * `95% CI - High` -> `95% CI - High...231`
## * `95% CI - Low` -> `95% CI - Low...256`
## * `95% CI - High` -> `95% CI - High...257`
## * `95% CI - Low` -> `95% CI - Low...281`
## * `95% CI - High` -> `95% CI - High...282`
## * `95% CI - Low` -> `95% CI - Low...313`
## * `95% CI - High` -> `95% CI - High...314`
## * `95% CI - Low` -> `95% CI - Low...317`
## * `95% CI - High` -> `95% CI - High...318`
## * `95% CI - Low` -> `95% CI - Low...321`
## * `95% CI - High` -> `95% CI - High...322`
## * `95% CI - Low` -> `95% CI - Low...340`
## * `95% CI - High` -> `95% CI - High...341`
```

```r
poverty_data <- poverty_data %>%
  rename(FIPS = FIPS_Code)%>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS,PCTPOVALL_2023) %>%
  mutate(FIPS = as.numeric(FIPS))

insurance_data <- insurance_data %>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS,`% Uninsured`)%>%
  mutate(FIPS = as.numeric(FIPS))

insurance_data_2 <- insurance_data_2 %>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS,`Life Expectancy`)%>%
  mutate(FIPS = as.numeric(FIPS))

education_data <- education_data %>%
  rename(FIPS = `FIPS Code`)%>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS,`Percent of adults with a bachelor's degree or higher, 2019-23`)%>%
  mutate(FIPS = as.numeric(FIPS))


qol_data <- qol_data %>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS, X2016.Crime.Rate, Unemployment, AQI.Good, NtnlPrkCnt,Cost.of.Living, X2022.Median
  mutate(FIPS = as.numeric(FIPS))

income_data <- income_data %>%
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS, Total.Population, Median.Household.Income,Urban.Rural)%>%
  mutate(FIPS = as.numeric(FIPS))

covid_data <- covid_data %>%
  rename(FIPS = FIPS.County.Code) %>%
```

```r
  mutate(FIPS = sprintf("%05s", FIPS))%>%
  dplyr::select(FIPS,  Deaths.from.All.Causes)%>%
  mutate(FIPS = as.numeric(FIPS))

joined_data <- qol_data %>%
  left_join(income_data, by = "FIPS") %>%
  left_join(covid_data, by = "FIPS") %>%
  left_join(poverty_data, by = "FIPS") %>%
  left_join(education_data, by = "FIPS") %>%
  left_join(insurance_data, by = "FIPS") %>%
  left_join(insurance_data_2, by = "FIPS")

# View the result

cols_to_clean <- c("Unemployment", "AQI.Good", "AVG.C2I")
cols_to_clean_2 <- c("X2022.Median.Income","Cost.of.Living")
to_numeric <- c("Unemployment", "AQI.Good", "AVG.C2I","X2022.Median.Income","Cost.of.Living")
joined_data <- joined_data %>%
  mutate(across(all_of(cols_to_clean), ~ str_replace_all(., "%", ""))) %>%
  mutate(across(all_of(cols_to_clean_2), ~ str_replace_all(., "[$,]", ""))) %>%
  mutate(across(all_of(to_numeric), as.numeric)) %>%
  mutate(across(c(Urban.Rural), as.factor)) %>%
  mutate(crime = sapply(X2016.Crime.Rate, function(x) eval(parse(text = x)))) %>%
  rename(
    MedianIncome = Median.Household.Income,
    AQI = AQI.Good,
    C2I=AVG.C2I,
    Gender=Diversity.Rank..Gender.,
    Race=Diversity.Rank..Race.,
    NationalPark=NtnlPrkCnt,
    StudentTeacher=Stu.Tea.Rank,
    Poverty=PCTPOVALL_2023,
    Deaths=Deaths.from.All.Causes,
    Uninsured=`% Uninsured`,
    Bachelors=`Percent of adults with a bachelor's degree or higher, 2019-23`
  )
head(joined_data)
```

```
##    FIPS X2016.Crime.Rate Unemployment   AQI NationalPark Cost.of.Living
## 1 51036           8/1000         3.21 93.76            1       75531.37
## 2 48311          47/1000         1.81 75.33            2       63913.28
## 3 48443          20/1000         3.54 75.33            2       64361.02
## 4  2230          13/1000         7.19 87.86            8       87709.32
## 5 13007        0                 4.19 83.30            0       59389.29
## 6 20061          23/1000         3.91 79.67            0       69401.74
##   X2022.Median.Income    C2I Gender Race StudentTeacher Total.Population
## 1            78038.78  96.79     25    1            135             6686
## 2            67513.81  94.67     87    2              3              623
## 3            55946.62 115.04     47    3             12              851
## 4            85446.30 102.65      9    4             15             1308
## 5            52946.23 112.17     60    5             26             2830
## 6            59946.11 115.77   1590    6           1710            35895
##   MedianIncome Urban.Rural Deaths Poverty Bachelors Uninsured Life Expectancy
```

```
## 1        70339       Rural    109    11.3  16.01065 14.372767        75.22752
## 2        45833       Rural     13    12.4  14.97175 21.365639              NA
## 3        46989       Rural     NA    18.6  32.34043 23.590814              NA
## 4        78594       Rural     NA     5.9  27.74566 15.966387              NA
## 5        44405       Rural     39    26.2  16.87805 17.496375        74.53755
## 6        57344       Urban    339    11.0  24.37841  9.613575        73.17629
##   crime
## 1 0.008
## 2 0.047
## 3 0.020
## 4 0.013
## 5 0.000
## 6 0.023
```

```
summary(joined_data)
```

```
##       FIPS       X2016.Crime.Rate    Unemployment         AQI
##  Min.   : 1001   Length:3134        Min.   :-1.000   Min.   :68.34
##  1st Qu.:18180   Class :character   1st Qu.: 2.810   1st Qu.:80.67
##  Median :29178   Mode  :character   Median : 3.530   Median :84.53
##  Mean   :30393                      Mean   : 3.737   Mean   :84.38
##  3rd Qu.:45081                      3rd Qu.: 4.380   3rd Qu.:88.42
##  Max.   :56045                      Max.   :17.190   Max.   :99.35
##
##   NationalPark   Cost.of.Living   X2022.Median.Income      C2I
##  Min.   :0.000   Min.   : 54431   Min.   : 25530      Min.   : 52.00
##  1st Qu.:0.000   1st Qu.: 64193   1st Qu.: 57276      1st Qu.: 94.44
##  Median :1.000   Median : 68560   Median : 65956      Median :104.57
##  Mean   :1.164   Mean   : 70901   Mean   : 68299      Mean   :107.42
##  3rd Qu.:1.000   3rd Qu.: 74749   3rd Qu.: 76080      3rd Qu.:117.19
##  Max.   :9.000   Max.   :167022   Max.   :177662      Max.   :287.30
##
##      Gender           Race        StudentTeacher   Total.Population
##  Min.   :   1.0   Min.   :   1.0   Min.   :  -1.0   Min.   :     52
##  1st Qu.: 784.2   1st Qu.: 784.2   1st Qu.: 698.2   1st Qu.:  10849
##  Median :1567.5   Median :1567.5   Median :1481.5   Median :  25793
##  Mean   :1567.5   Mean   :1567.5   Mean   :1482.6   Mean   : 105094
##  3rd Qu.:2350.8   3rd Qu.:2350.8   3rd Qu.:2264.8   3rd Qu.:  67916
##  Max.   :3134.0   Max.   :3134.0   Max.   :3048.0   Max.   :9848406
##                                                     NA's   :9
##   MedianIncome        Urban.Rural      Deaths          Poverty
##  Min.   :-666666666   Rural:1570   Min.   :    12   Min.   : 3.30
##  1st Qu.:     54973   Urban:1555   1st Qu.:   210   1st Qu.:10.60
##  Median :     63636   NA's :   9   Median :   488   Median :13.60
##  Mean   :   -360686                Mean   :  2050   Mean   :14.48
##  3rd Qu.:     73436                3rd Qu.:  1448   3rd Qu.:17.40
##  Max.   :    178707                Max.   :152835   Max.   :48.10
##  NA's   :9                         NA's   :102      NA's   :9
##    Bachelors        Uninsured      Life Expectancy     crime
##  Min.   : 5.749   Min.   : 2.390   Min.   :61.17   Min.   :0.00000
##  1st Qu.:17.002   1st Qu.: 7.491   1st Qu.:73.58   1st Qu.:0.01100
##  Median :21.439   Median :10.373   Median :75.84   Median :0.01700
##  Mean   :24.069   Mean   :11.517   Mean   :75.77   Mean   :0.01897
##  3rd Qu.:28.649   3rd Qu.:14.576   3rd Qu.:78.01   3rd Qu.:0.02600
```

```
##  Max.   :79.726   Max.   :46.324   Max.   :98.90   Max.   :0.08900
##  NA's   :9        NA's   :1        NA's   :69
```

```
levels(joined_data$Urban.Rural.Code)
```

```
## NULL
```

```
colnames(joined_data)
```

```
##  [1] "FIPS"                "X2016.Crime.Rate"    "Unemployment"
##  [4] "AQI"                 "NationalPark"        "Cost.of.Living"
##  [7] "X2022.Median.Income" "C2I"                 "Gender"
## [10] "Race"                "StudentTeacher"      "Total.Population"
## [13] "MedianIncome"        "Urban.Rural"         "Deaths"
## [16] "Poverty"             "Bachelors"           "Uninsured"
## [19] "Life Expectancy"     "crime"
```

```
joined_data<-na.omit(joined_data)
```

```
#joined_data <- joined_data %>%
#  dplyr::select(-c( FIPS, X2016.Crime.Rate))
```

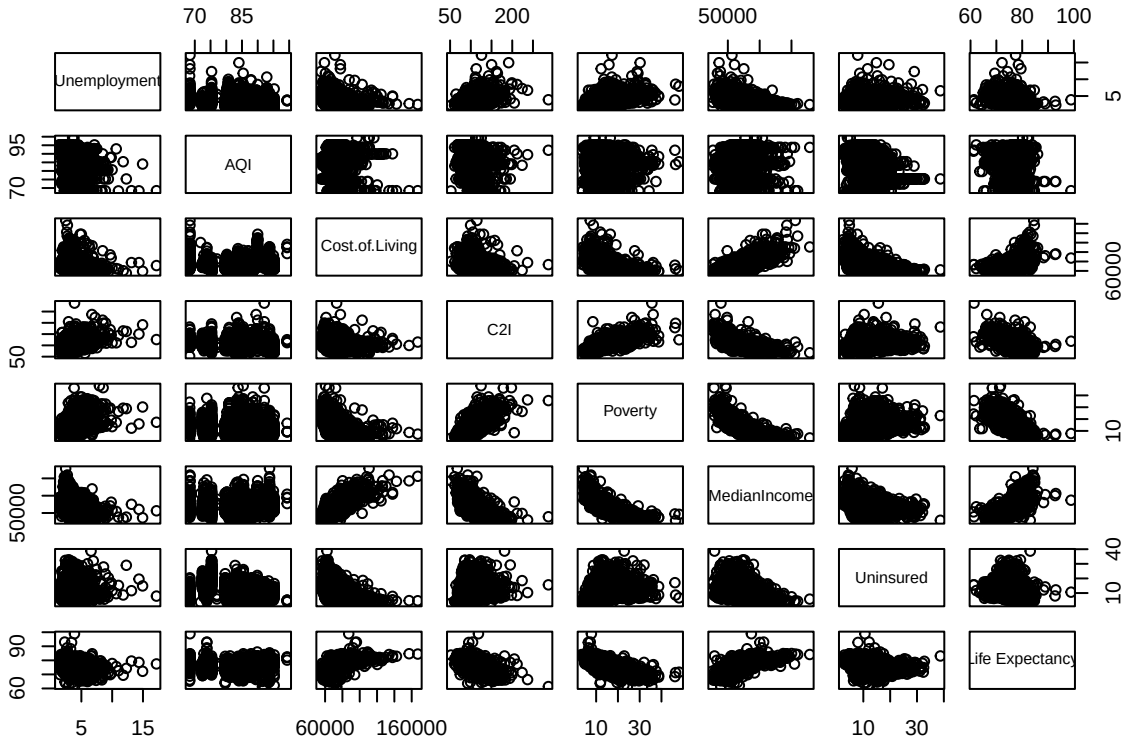
```
sum(joined_data$Unemployment == 0)
```

```
## [1] 0
```

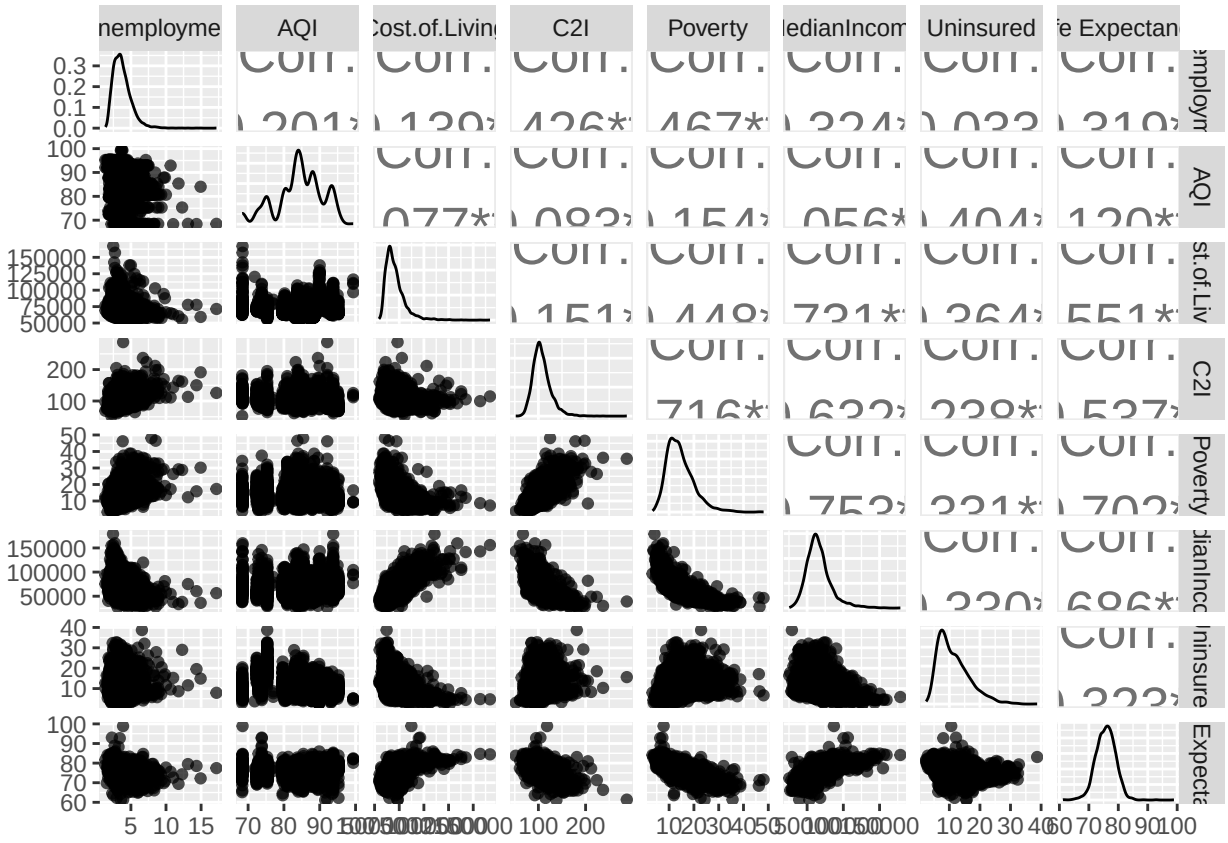
```
joined_data<-joined_data[joined_data$Unemployment > 0, ]
```

2) Data Explatory Analysis

```
pairs(Unemployment ~  AQI + Cost.of.Living + C2I +Poverty+MedianIncome+`Uninsured`+`Life Expectancy`, da
```

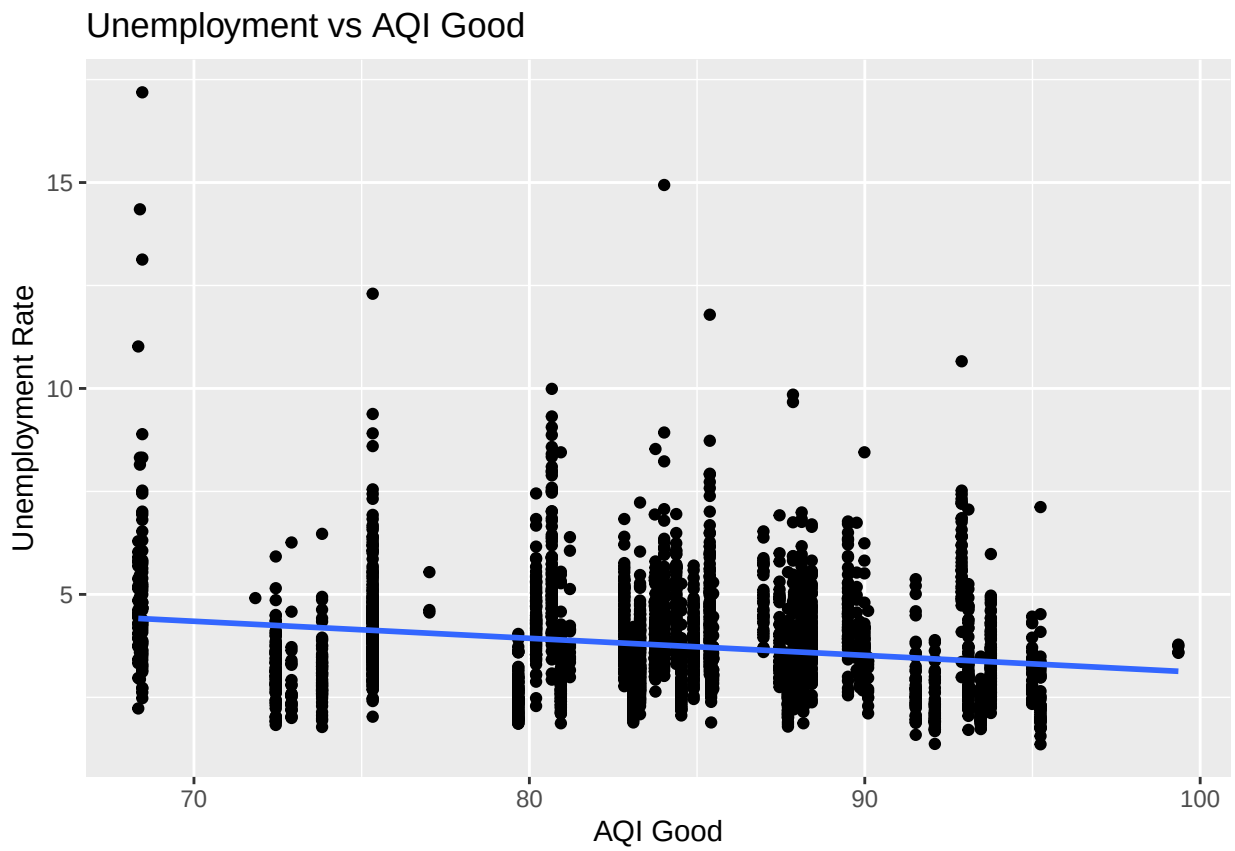



```
ggpairs(
  data = joined_data,
  columns = c("Unemployment", "AQI", "Cost.of.Living", "C2I", "Poverty", "MedianIncome", "Uninsured", "
  upper = list(continuous = wrap("cor", size = 7)),
  lower = list(continuous = wrap("points", alpha = 0.7, size = 1.5)),
  diag = list(continuous = wrap("densityDiag", alpha = 0.5)))
```



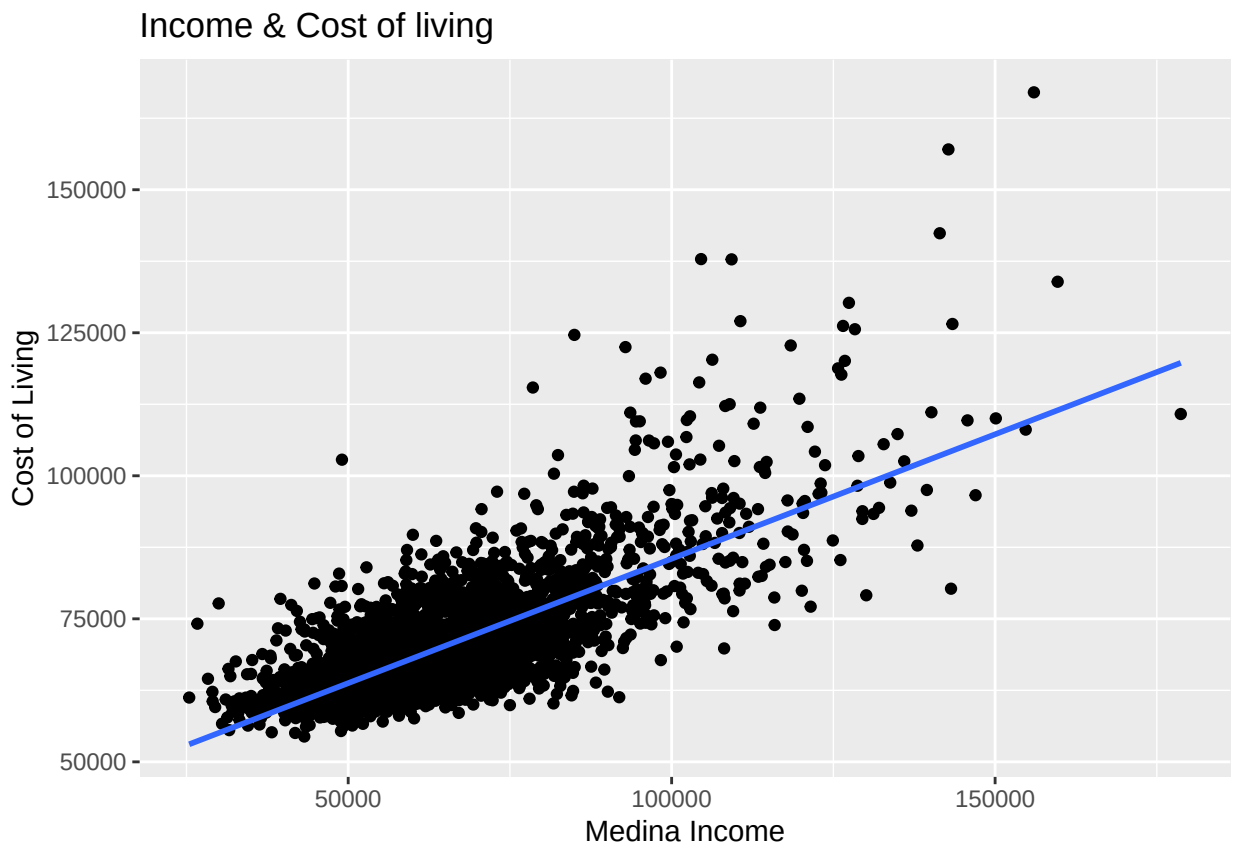

```
ggplot(joined_data, aes(x = AQI, y = Unemployment)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Unemployment vs AQI Good", x = "AQI Good", y = "Unemployment Rate")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```




```
ggplot(joined_data, aes(x = MedianIncome, y = Cost.of.Living)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Income & Cost of living", x = "Medina Income", y = "Cost of Living")
```

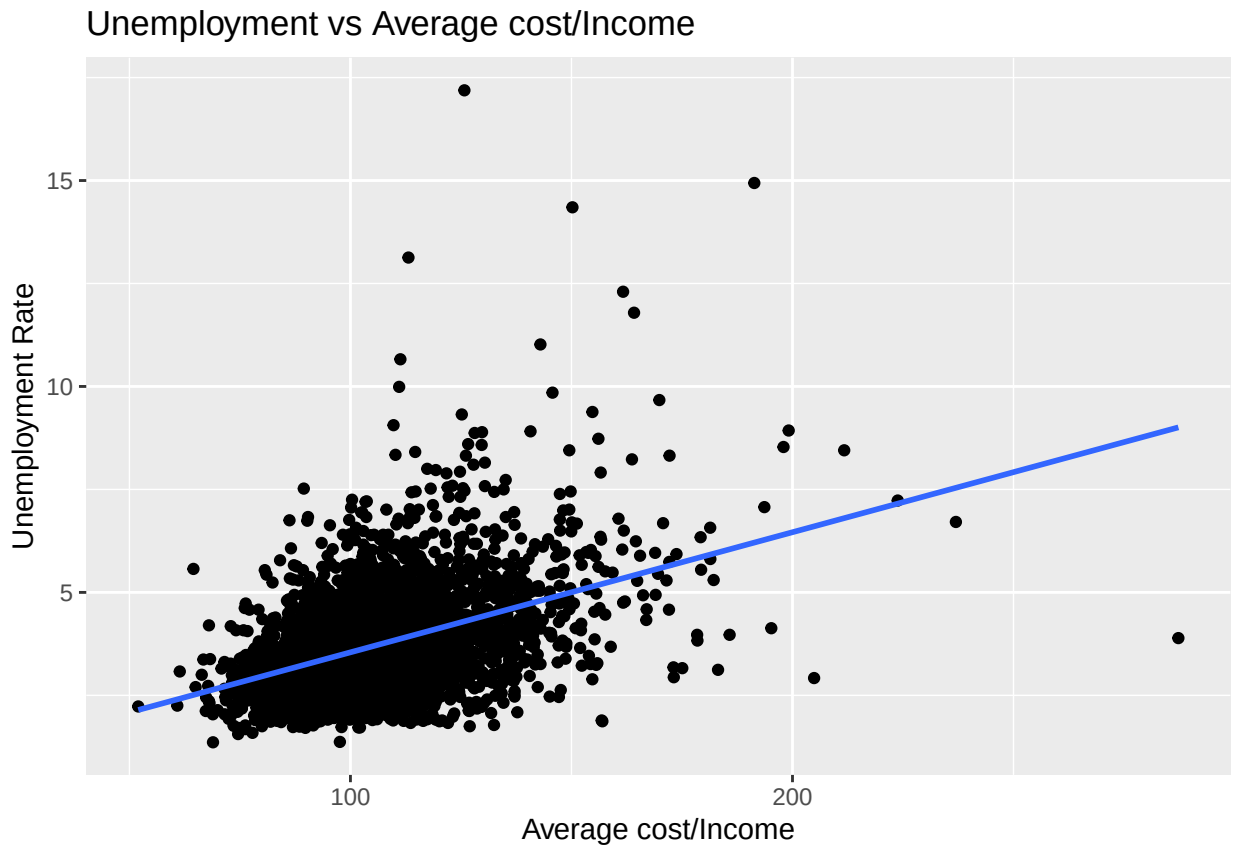
```
## `geom_smooth()` using formula = 'y ~ x'
```



They are correlated and therefore we define the C2I.

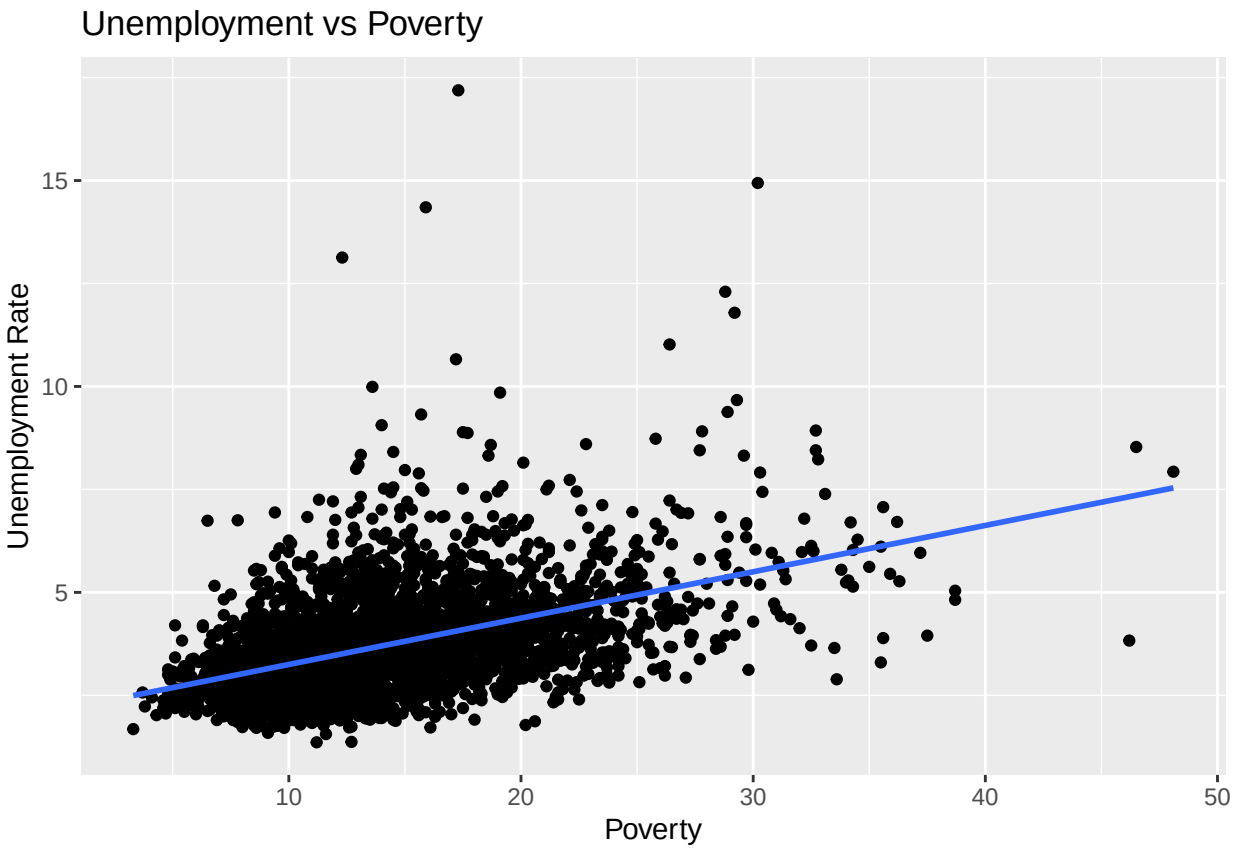
```
ggplot(joined_data, aes(x = C2I, y = Unemployment)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Unemployment vs Average cost/Income", x = "Average cost/Income", y = "Unemployment Rate
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

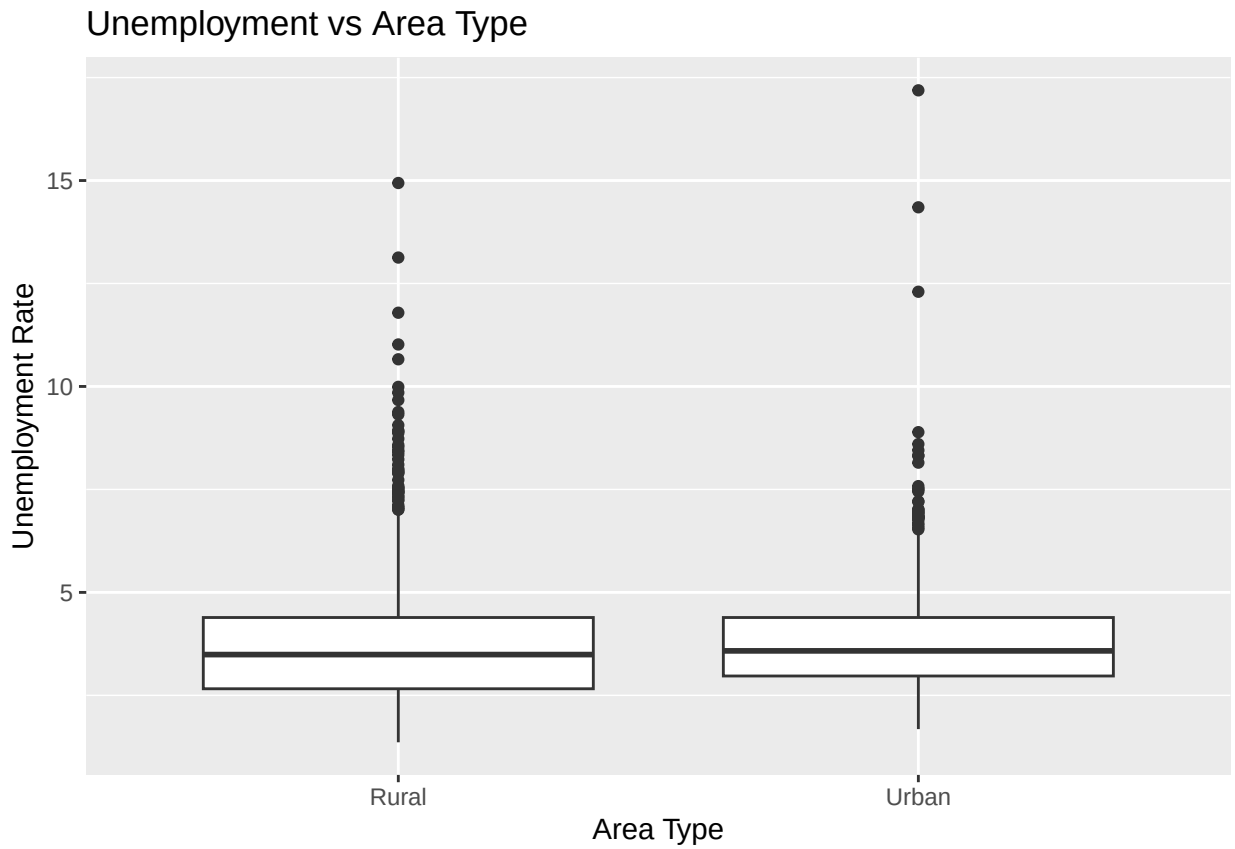



```
ggplot(joined_data, aes(x = Poverty, y = Unemployment)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Unemployment vs Poverty", x = "Poverty", y = "Unemployment Rate")
```

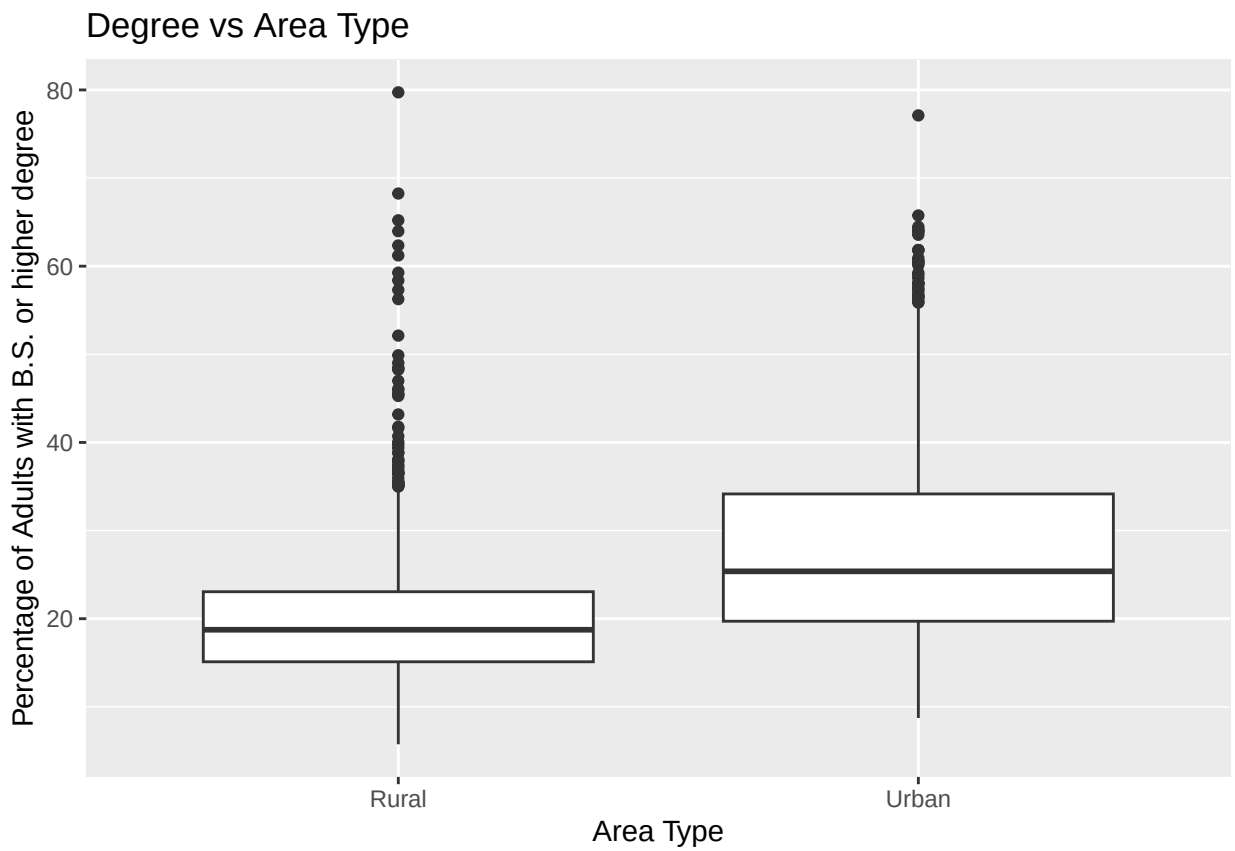
```
## `geom_smooth()` using formula = 'y ~ x'
```



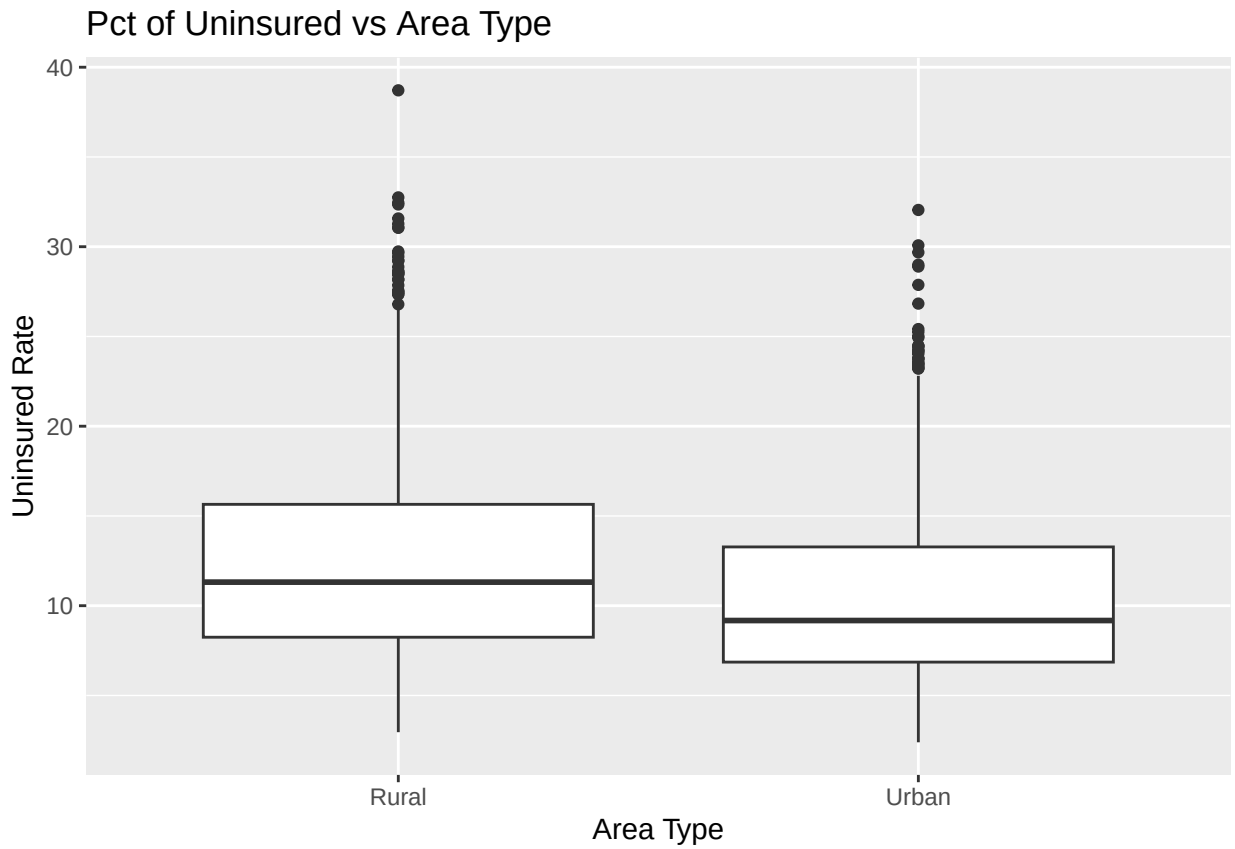

```
ggplot(joined_data, aes(x = Urban.Rural, y = Unemployment)) +
  geom_boxplot() +
  labs(title = "Unemployment vs Area Type", x = "Area Type", y = "Unemployment Rate")
```




```
ggplot(joined_data, aes(x = Urban.Rural, y = Bachelors)) +
  geom_boxplot() +
  labs(title = "Degree vs Area Type", x = "Area Type", y = "Percentage of Adults with B.S. or higher deg
```

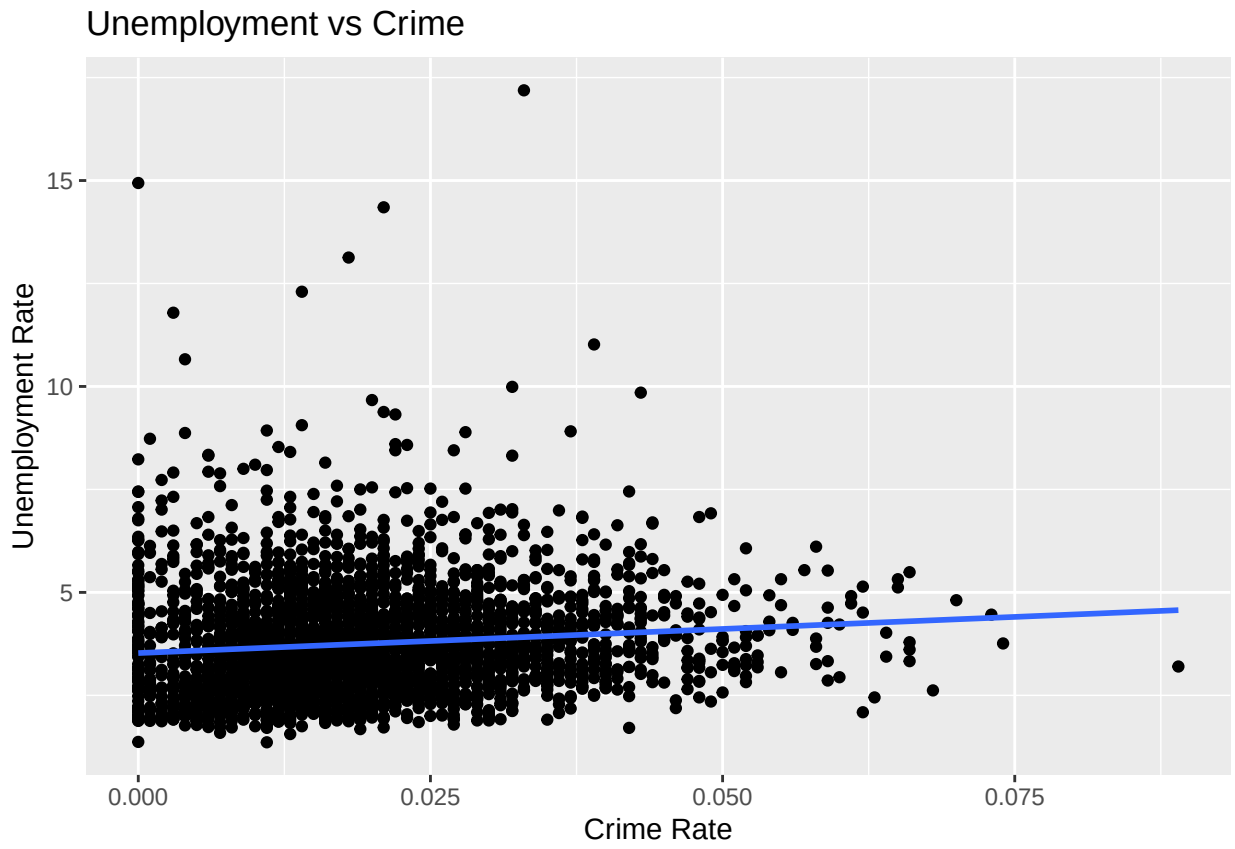



```
ggplot(joined_data, aes(x = Urban.Rural, y = Uninsured)) +
  geom_boxplot() +
  labs(title = "Pct of Uninsured vs Area Type", x = "Area Type", y = "Uninsured Rate")
```




```
ggplot(joined_data, aes(x = crime, y = Unemployment)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Unemployment vs Crime", x = "Crime Rate", y = "Unemployment Rate")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



3) Modeling

```
lm1 <- lm(log(Unemployment) ~ ., data = joined_data)
summary(lm1)
```

```
##
## Call:
## lm(formula = log(Unemployment) ~ ., data = joined_data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.9149 -0.1630 -0.0048  0.1499  1.1537
##
## Coefficients: (1 not defined because of singularities)
##                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)                1.656e+00  2.232e-01   7.417 1.56e-13 ***
## FIPS                       4.364e-06  3.308e-07  13.190  < 2e-16 ***
## X2016.Crime.Rate  2/1000   5.832e-02  6.676e-02   0.874 0.382401
## X2016.Crime.Rate  3/1000   5.861e-02  6.189e-02   0.947 0.343777
## X2016.Crime.Rate  4/1000   7.233e-02  6.125e-02   1.181 0.237745
## X2016.Crime.Rate  5/1000  -2.062e-02  5.715e-02  -0.361 0.718239
## X2016.Crime.Rate  6/1000   1.017e-01  5.585e-02   1.822 0.068581 .
## X2016.Crime.Rate  7/1000   5.268e-02  5.578e-02   0.944 0.345001
```

```
## X2016.Crime.Rate  8/1000   7.738e-02  5.480e-02   1.412 0.158017
## X2016.Crime.Rate  9/1000   8.395e-02  5.400e-02   1.555 0.120148
## X2016.Crime.Rate 10/1000   6.107e-02  5.398e-02   1.131 0.258065
## X2016.Crime.Rate 11/1000   7.362e-02  5.289e-02   1.392 0.164022
## X2016.Crime.Rate 12/1000   9.159e-02  5.267e-02   1.739 0.082171 .
## X2016.Crime.Rate 13/1000   1.130e-01  5.278e-02   2.142 0.032316 *
## X2016.Crime.Rate 14/1000   1.346e-01  5.250e-02   2.564 0.010387 *
## X2016.Crime.Rate 15/1000   7.863e-02  5.307e-02   1.482 0.138572
## X2016.Crime.Rate 16/1000   1.170e-01  5.258e-02   2.225 0.026165 *
## X2016.Crime.Rate 17/1000   9.633e-02  5.351e-02   1.800 0.071955 .
## X2016.Crime.Rate 18/1000   7.193e-02  5.338e-02   1.347 0.177966
## X2016.Crime.Rate 19/1000   6.848e-02  5.332e-02   1.284 0.199167
## X2016.Crime.Rate 20/1000   7.423e-02  5.408e-02   1.373 0.169926
## X2016.Crime.Rate 21/1000   1.139e-01  5.435e-02   2.095 0.036252 *
## X2016.Crime.Rate 22/1000   6.742e-02  5.622e-02   1.199 0.230555
## X2016.Crime.Rate 23/1000   1.008e-01  5.491e-02   1.836 0.066438 .
## X2016.Crime.Rate 24/1000   7.461e-02  5.631e-02   1.325 0.185264
## X2016.Crime.Rate 25/1000   1.004e-01  5.630e-02   1.783 0.074702 .
## X2016.Crime.Rate 26/1000   5.770e-02  5.760e-02   1.002 0.316532
## X2016.Crime.Rate 27/1000   3.164e-02  5.593e-02   0.566 0.571605
## X2016.Crime.Rate 28/1000   1.377e-01  5.918e-02   2.327 0.020044 *
## X2016.Crime.Rate 29/1000   7.254e-02  5.949e-02   1.219 0.222842
## X2016.Crime.Rate 30/1000   1.958e-02  6.110e-02   0.320 0.748635
## X2016.Crime.Rate 31/1000   7.790e-02  5.959e-02   1.307 0.191214
## X2016.Crime.Rate 32/1000   8.524e-02  6.132e-02   1.390 0.164584
## X2016.Crime.Rate 33/1000   1.167e-01  6.324e-02   1.846 0.065016 .
## X2016.Crime.Rate 34/1000   1.480e-01  6.587e-02   2.247 0.024684 *
## X2016.Crime.Rate 35/1000   5.418e-02  6.384e-02   0.849 0.396105
## X2016.Crime.Rate 36/1000   2.034e-02  7.111e-02   0.286 0.774862
## X2016.Crime.Rate 37/1000   6.071e-02  7.097e-02   0.855 0.392412
## X2016.Crime.Rate 38/1000   1.029e-01  6.837e-02   1.505 0.132458
## X2016.Crime.Rate 39/1000   8.100e-02  6.704e-02   1.208 0.227040
## X2016.Crime.Rate 40/1000  -1.133e-02  7.161e-02  -0.158 0.874342
## X2016.Crime.Rate 41/1000   9.447e-02  7.925e-02   1.192 0.233325
## X2016.Crime.Rate 42/1000   6.228e-02  7.334e-02   0.849 0.395805
## X2016.Crime.Rate 43/1000   7.275e-02  7.515e-02   0.968 0.333107
## X2016.Crime.Rate 44/1000   1.021e-01  8.942e-02   1.142 0.253602
## X2016.Crime.Rate 45/1000   1.165e-01  8.955e-02   1.300 0.193587
## X2016.Crime.Rate 46/1000   6.756e-02  1.008e-01   0.670 0.502914
## X2016.Crime.Rate 47/1000  -2.035e-02  9.401e-02  -0.216 0.828675
## X2016.Crime.Rate 48/1000   4.616e-02  8.269e-02   0.558 0.576722
## X2016.Crime.Rate 49/1000  -4.570e-02  1.219e-01  -0.375 0.707813
## X2016.Crime.Rate 50/1000  -3.237e-04  1.069e-01  -0.003 0.997584
## X2016.Crime.Rate 51/1000   9.379e-02  1.068e-01   0.878 0.379776
## X2016.Crime.Rate 52/1000   5.344e-02  9.672e-02   0.553 0.580634
## X2016.Crime.Rate 53/1000  -6.416e-02  1.223e-01  -0.525 0.599959
## X2016.Crime.Rate 54/1000   1.799e-01  1.523e-01   1.181 0.237693
## X2016.Crime.Rate 55/1000   1.490e-01  1.526e-01   0.976 0.329030
## X2016.Crime.Rate 56/1000  -6.969e-03  1.835e-01  -0.038 0.969699
## X2016.Crime.Rate 57/1000   2.260e-01  2.550e-01   0.886 0.375530
## X2016.Crime.Rate 58/1000  -4.894e-02  1.350e-01  -0.363 0.716938
## X2016.Crime.Rate 59/1000  -2.553e-02  1.220e-01  -0.209 0.834219
## X2016.Crime.Rate 60/1000   2.096e-02  1.833e-01   0.114 0.908985
## X2016.Crime.Rate 61/1000   2.867e-01  1.856e-01   1.545 0.122393
```

```
## X2016.Crime.Rate 62/1000  -1.192e-01  1.525e-01  -0.782 0.434511
## X2016.Crime.Rate 63/1000  -3.419e-01  2.543e-01  -1.345 0.178878
## X2016.Crime.Rate 64/1000   8.096e-02  1.837e-01   0.441 0.659430
## X2016.Crime.Rate 65/1000   2.193e-02  1.836e-01   0.119 0.904898
## X2016.Crime.Rate 66/1000   4.464e-02  1.348e-01   0.331 0.740587
## X2016.Crime.Rate 68/1000  -4.474e-01  2.577e-01  -1.736 0.082702 .
## X2016.Crime.Rate 70/1000  -3.468e-02  2.547e-01  -0.136 0.891696
## X2016.Crime.Rate 73/1000   7.337e-02  2.569e-01   0.286 0.775227
## X2016.Crime.Rate 74/1000  -5.944e-02  2.555e-01  -0.233 0.816060
## X2016.Crime.Rate 89/1000  -1.640e-01  2.555e-01  -0.642 0.521049
## X2016.Crime.Rate0          9.270e-02  5.416e-02   1.712 0.087094 .
## AQI                       -1.033e-02  8.915e-04 -11.589  < 2e-16 ***
## NationalPark               3.030e-02  3.521e-03   8.606  < 2e-16 ***
## Cost.of.Living            -2.266e-07  1.367e-06  -0.166 0.868305
## X2022.Median.Income       -2.452e-06  1.485e-06  -1.651 0.098779 .
## C2I                        1.659e-03  8.070e-04   2.055 0.039926 *
## Gender                     2.013e-05  1.636e-05   1.230 0.218726
## Race                       1.215e-05  1.362e-05   0.892 0.372211
## StudentTeacher            -1.836e-05  1.069e-05  -1.717 0.086147 .
## Total.Population          -7.809e-08  7.003e-08  -1.115 0.264850
## MedianIncome               2.825e-06  8.316e-07   3.397 0.000691 ***
## Urban.RuralUrban           8.328e-02  1.544e-02   5.394 7.46e-08 ***
## Deaths                     7.475e-06  4.155e-06   1.799 0.072087 .
## Poverty                    2.700e-02  1.690e-03  15.972  < 2e-16 ***
## Bachelors                 -6.621e-03  8.461e-04  -7.825 7.07e-15 ***
## Uninsured                 -1.810e-02  1.170e-03 -15.477  < 2e-16 ***
## `Life Expectancy`         -5.449e-04  2.368e-03  -0.230 0.818045
## crime                             NA         NA      NA       NA
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2495 on 2910 degrees of freedom
## Multiple R-squared:  0.4177, Adjusted R-squared:  0.4001
## F-statistic: 23.72 on 88 and 2910 DF,  p-value: < 2.2e-16
```

```
lm2 <- lm(log(Unemployment) ~ AQI  + C2I + Total.Population +
    MedianIncome + Urban.Rural + `Uninsured` + `Life Expectancy`, data = joined_data)
summary(lm2)
```

```
##
## Call:
## lm(formula = log(Unemployment) ~ AQI + C2I + Total.Population +
##     MedianIncome + Urban.Rural + Uninsured + `Life Expectancy`,
##     data = joined_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.99531 -0.17757 -0.00438  0.16531  1.23491
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)        3.156e+00  1.821e-01  17.333  < 2e-16 ***
## AQI               -1.135e-02  8.568e-04 -13.252  < 2e-16 ***
## C2I                5.044e-03  3.416e-04  14.765  < 2e-16 ***
```

```
## Total.Population   5.414e-08  1.591e-08   3.403 0.000674 ***
## MedianIncome      -2.763e-06  4.652e-07  -5.938 3.21e-09 ***
## Urban.RuralUrban   9.208e-02  1.097e-02   8.397  < 2e-16 ***
## Uninsured         -1.198e-02  1.129e-03 -10.616  < 2e-16 ***
## `Life Expectancy` -1.589e-02  2.136e-03  -7.440 1.31e-13 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2718 on 2991 degrees of freedom
## Multiple R-squared:  0.2894, Adjusted R-squared:  0.2878
## F-statistic:   174 on 7 and 2991 DF,  p-value: < 2.2e-16
```

```
lm1 <- lm(log(Unemployment) ~ AQI +NationalPark+C2I+StudentTeacher+Total.Population+Urban.Rural+Uninsure
summary(lm1)
```

```
##
## Call:
## lm(formula = log(Unemployment) ~ AQI + NationalPark + C2I + StudentTeacher +
##     Total.Population + Urban.Rural + Uninsured + `Life Expectancy` +
##     crime + Bachelors + Deaths + Poverty, data = joined_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.97954 -0.17399 -0.00536  0.16538  1.12496
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)        1.744e+00  2.030e-01   8.594  < 2e-16 ***
## AQI               -7.872e-03  8.650e-04  -9.101  < 2e-16 ***
## NationalPark       2.929e-02  3.477e-03   8.423  < 2e-16 ***
## C2I                1.996e-03  3.628e-04   5.501 4.10e-08 ***
## StudentTeacher     5.643e-06  8.701e-06   0.648   0.5167
## Total.Population  -1.685e-08  6.683e-08  -0.252   0.8009
## Urban.RuralUrban   1.145e-01  1.466e-02   7.810 7.85e-15 ***
## Uninsured         -1.370e-02  1.077e-03 -12.727  < 2e-16 ***
## `Life Expectancy` -2.087e-03  2.382e-03  -0.876   0.3810
## crime             -9.816e-01  4.824e-01  -2.035   0.0419 *
## Bachelors         -5.752e-03  6.901e-04  -8.336  < 2e-16 ***
## Deaths             3.870e-06  3.956e-06   0.978   0.3280
## Poverty            2.347e-02  1.499e-03  15.661  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.258 on 2986 degrees of freedom
## Multiple R-squared:  0.361,  Adjusted R-squared:  0.3584
## F-statistic: 140.6 on 12 and 2986 DF,  p-value: < 2.2e-16
```

```
library(corrplot)
```

```
## Warning: package 'corrplot' was built under R version 4.4.3
```

```
## corrplot 0.95 loaded
```

```r
stepwise_model <- stepAIC(lm1, direction = "backward", trace = F)
stepwise_model
```

```
##
## Call:
## lm(formula = log(Unemployment) ~ AQI + NationalPark + C2I + Urban.Rural +
##     Uninsured + crime + Bachelors + Deaths + Poverty, data = joined_data)
##
## Coefficients:
##      (Intercept)               AQI      NationalPark               C2I
##        1.584e+00        -7.873e-03         2.891e-02         2.021e-03
## Urban.RuralUrban         Uninsured             crime         Bachelors
##        1.215e-01        -1.367e-02        -8.080e-01        -5.995e-03
##           Deaths            Poverty
##        3.015e-06         2.396e-02
```

```r
lm2 <- lm(sqrt(Unemployment) ~ AQI + NationalPark + C2I + Urban.Rural +
    Uninsured  + Bachelors + Deaths + Poverty, data = joined_data)
summary(lm2)
```

```
##
## Call:
## lm(formula = sqrt(Unemployment) ~ AQI + NationalPark + C2I +
##     Urban.Rural + Uninsured + Bachelors + Deaths + Poverty, data = joined_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.85774 -0.17608 -0.02054  0.14563  1.62390
##
## Coefficients:
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)       2.180e+00  8.666e-02  25.157  < 2e-16 ***
## AQI              -7.492e-03  8.564e-04  -8.748  < 2e-16 ***
## NationalPark      3.089e-02  3.315e-03   9.318  < 2e-16 ***
## C2I               2.281e-03  3.582e-04   6.370 2.19e-10 ***
## Urban.RuralUrban  9.874e-02  1.050e-02   9.406  < 2e-16 ***
## Uninsured        -1.398e-02  1.062e-03 -13.166  < 2e-16 ***
## Bachelors        -5.679e-03  6.077e-04  -9.345  < 2e-16 ***
## Deaths            2.313e-06  8.879e-07   2.605  0.00924 **
## Poverty           2.239e-02  1.312e-03  17.072  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.256 on 2990 degrees of freedom
## Multiple R-squared:  0.3546, Adjusted R-squared:  0.3529
## F-statistic: 205.4 on 8 and 2990 DF,  p-value: < 2.2e-16
```

```r
coefs <- coef(lm2)
formula_string <- paste0(
  "log(Unemployment) = ",
  round(coefs[1], 5), " + ",
  paste(
```

```
    paste0(round(coefs[-1], 5), " * ", names(coefs)[-1]),
    collapse = " + "
  )
)

# Print it
cat(formula_string)
```

```
## log(Unemployment) = 2.18001 + -0.00749 * AQI + 0.03089 * NationalPark + 0.00228 * C2I + 0.09874 * Url
```

```
shapiro.test(rstandard(lm2))
```

```
##
##  Shapiro-Wilk normality test
##
## data:  rstandard(lm2)
## W = 0.96306, p-value < 2.2e-16
```

```
lm3 <- lm(MedianIncome ~ AQI +NationalPark+Cost.of.Living+Unemployment+C2I+Race+Gender+StudentTeacher+To
summary(lm3)
```

```
##
## Call:
## lm(formula = MedianIncome ~ AQI + NationalPark + Cost.of.Living +
##     Unemployment + C2I + Race + Gender + StudentTeacher + Total.Population +
##     Urban.Rural + Uninsured + `Life Expectancy` + crime + Bachelors +
##     Deaths + Poverty, data = joined_data)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -35038  -3685   -269   3306  46008
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)        6.575e+04  5.247e+03  12.530  < 2e-16 ***
## AQI               -6.246e+01  2.268e+01  -2.755 0.005913 **
## NationalPark       1.522e+02  9.278e+01   1.640 0.101009
## Cost.of.Living     7.960e-01  1.959e-02  40.625  < 2e-16 ***
## Unemployment       3.878e+02  1.126e+02   3.445 0.000579 ***
## C2I               -3.072e+02  1.043e+01 -29.448  < 2e-16 ***
## Race               1.548e+00  3.546e-01   4.366 1.31e-05 ***
## Gender            -1.974e+00  4.259e-01  -4.634 3.74e-06 ***
## StudentTeacher     1.751e+00  2.803e-01   6.247 4.78e-10 ***
## Total.Population   2.008e-02  1.754e-03  11.448  < 2e-16 ***
## Urban.RuralUrban   3.788e+02  4.036e+02   0.939 0.348050
## Uninsured          1.749e+02  2.990e+01   5.850 5.45e-09 ***
## `Life Expectancy` -2.284e+02  6.179e+01  -3.697 0.000222 ***
## crime             -7.913e+04  1.255e+04  -6.306 3.29e-10 ***
## Bachelors          2.804e+02  2.053e+01  13.657  < 2e-16 ***
## Deaths            -1.181e+00  1.036e-01 -11.404  < 2e-16 ***
## Poverty           -7.776e+02  4.173e+01 -18.631  < 2e-16 ***
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 6633 on 2982 degrees of freedom
## Multiple R-squared:  0.8556, Adjusted R-squared:  0.8548
## F-statistic:  1104 on 16 and 2982 DF,  p-value: < 2.2e-16
```

```
stepwise_model <- stepAIC(lm3, direction = "backward")
```

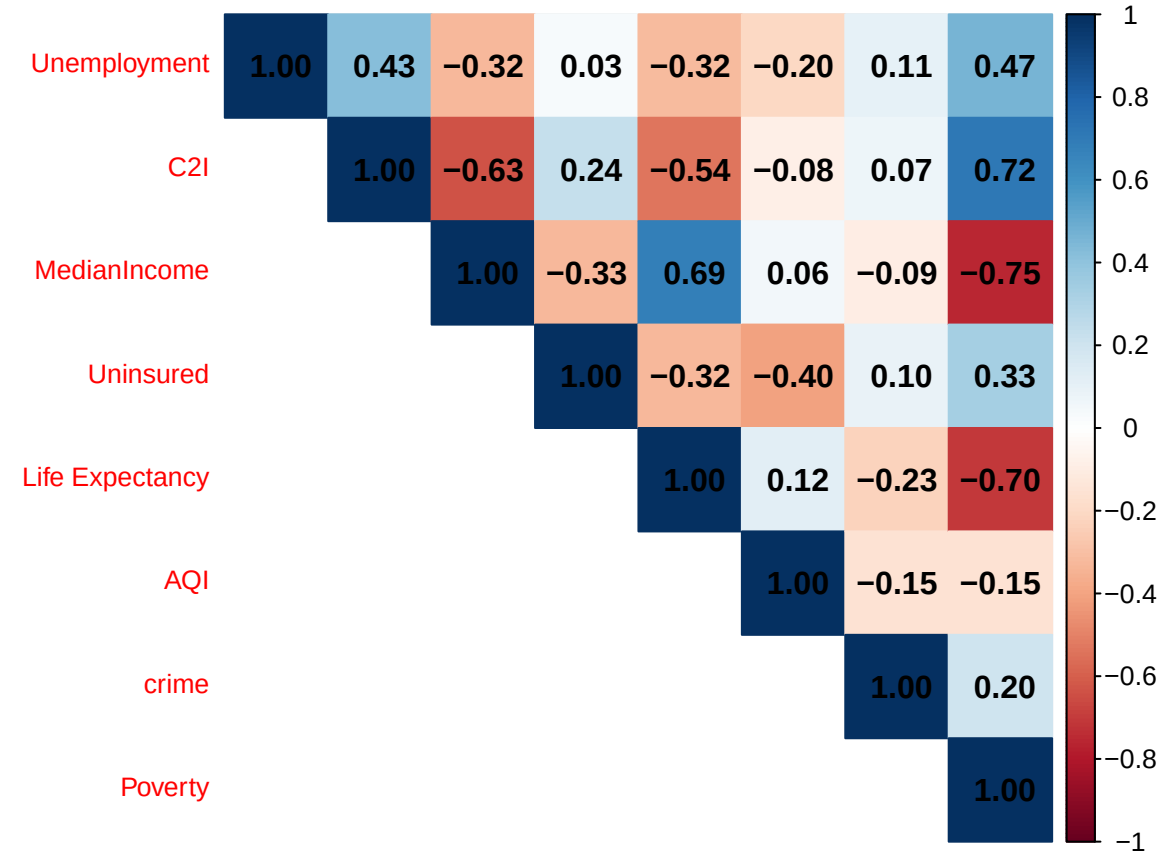
```
## Start:  AIC=52798.67
## MedianIncome ~ AQI + NationalPark + Cost.of.Living + Unemployment +
##     C2I + Race + Gender + StudentTeacher + Total.Population +
##     Urban.Rural + Uninsured + `Life Expectancy` + crime + Bachelors +
##     Deaths + Poverty
##
##                     Df  Sum of Sq        RSS   AIC
## - Urban.Rural        1 3.8759e+07 1.3126e+11 52798
## <none>                            1.3122e+11 52799
## - NationalPark       1 1.1842e+08 1.3134e+11 52799
## - AQI                1 3.3387e+08 1.3155e+11 52804
## - Unemployment       1 5.2223e+08 1.3174e+11 52809
## - `Life Expectancy`  1 6.0147e+08 1.3182e+11 52810
## - Race               1 8.3885e+08 1.3206e+11 52816
## - Gender             1 9.4496e+08 1.3216e+11 52818
## - Uninsured          1 1.5059e+09 1.3272e+11 52831
## - StudentTeacher     1 1.7172e+09 1.3293e+11 52836
## - crime              1 1.7497e+09 1.3297e+11 52836
## - Deaths             1 5.7230e+09 1.3694e+11 52925
## - Total.Population   1 5.7667e+09 1.3698e+11 52926
## - Bachelors          1 8.2070e+09 1.3942e+11 52979
## - Poverty            1 1.5275e+10 1.4649e+11 53127
## - C2I                1 3.8158e+10 1.6938e+11 53562
## - Cost.of.Living     1 7.2622e+10 2.0384e+11 54118
##
## Step:  AIC=52797.56
## MedianIncome ~ AQI + NationalPark + Cost.of.Living + Unemployment +
##     C2I + Race + Gender + StudentTeacher + Total.Population +
##     Uninsured + `Life Expectancy` + crime + Bachelors + Deaths +
##     Poverty
##
##                     Df  Sum of Sq        RSS   AIC
## <none>                            1.3126e+11 52798
## - NationalPark       1 1.0262e+08 1.3136e+11 52798
## - AQI                1 3.4015e+08 1.3160e+11 52803
## - Unemployment       1 5.4789e+08 1.3180e+11 52808
## - `Life Expectancy`  1 6.2111e+08 1.3188e+11 52810
## - Race               1 8.4943e+08 1.3211e+11 52815
## - Gender             1 9.0648e+08 1.3216e+11 52816
## - Uninsured          1 1.4973e+09 1.3275e+11 52830
## - crime              1 1.7119e+09 1.3297e+11 52834
## - StudentTeacher     1 1.9882e+09 1.3324e+11 52841
## - Deaths             1 5.8050e+09 1.3706e+11 52925
## - Total.Population   1 5.8154e+09 1.3707e+11 52926
## - Bachelors          1 8.3398e+09 1.3960e+11 52980
## - Poverty            1 1.5345e+10 1.4660e+11 53127
```

```
## - C2I                1 3.8613e+10 1.6987e+11 53569
## - Cost.of.Living     1 7.2606e+10 2.0386e+11 54116
```

```
lm4<- lm(MedianIncome ~ AQI + NationalPark + Cost.of.Living + Unemployment +
    C2I + Race + Gender + StudentTeacher + Total.Population +
    Uninsured + `Life Expectancy` + crime + Bachelors + Deaths +
    Poverty, data = joined_data)
summary(lm4)
```

```
##
## Call:
## lm(formula = MedianIncome ~ AQI + NationalPark + Cost.of.Living +
##     Unemployment + C2I + Race + Gender + StudentTeacher + Total.Population +
##     Uninsured + `Life Expectancy` + crime + Bachelors + Deaths +
##     Poverty, data = joined_data)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -34953  -3693   -265   3286  45919
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)        6.602e+04  5.239e+03  12.603  < 2e-16 ***
## AQI               -6.302e+01  2.267e+01  -2.780 0.005464 **
## NationalPark       1.404e+02  9.192e+01   1.527 0.126834
## Cost.of.Living     7.959e-01  1.959e-02  40.621  < 2e-16 ***
## Unemployment       3.960e+02  1.122e+02   3.529 0.000424 ***
## C2I               -3.080e+02  1.040e+01 -29.623  < 2e-16 ***
## Race               1.557e+00  3.544e-01   4.394 1.15e-05 ***
## Gender            -1.886e+00  4.155e-01  -4.539 5.88e-06 ***
## StudentTeacher     1.819e+00  2.706e-01   6.722 2.14e-11 ***
## Total.Population   2.014e-02  1.752e-03  11.496  < 2e-16 ***
## Uninsured          1.744e+02  2.990e+01   5.833 6.02e-09 ***
## `Life Expectancy` -2.317e+02  6.168e+01  -3.757 0.000175 ***
## crime             -7.764e+04  1.245e+04  -6.237 5.08e-10 ***
## Bachelors          2.819e+02  2.048e+01  13.767  < 2e-16 ***
## Deaths            -1.187e+00  1.034e-01 -11.486  < 2e-16 ***
## Poverty           -7.789e+02  4.171e+01 -18.674  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 6633 on 2983 degrees of freedom
## Multiple R-squared:  0.8555, Adjusted R-squared:  0.8548
## F-statistic:  1178 on 15 and 2983 DF,  p-value: < 2.2e-16
```

```
#jd$log_unemp<-log(jd$Unemployment)
corrplot(cor(joined_data[c("Unemployment","C2I","MedianIncome", "Uninsured","Life Expectancy","AQI","cri
```




```r
vif(lm2)
```

```
##          AQI NationalPark          C2I  Urban.Rural    Uninsured    Bachelors
##     1.397675     1.220656     2.201289     1.258996     1.388282     1.751677
##       Deaths      Poverty
##     1.221200     2.380743
```

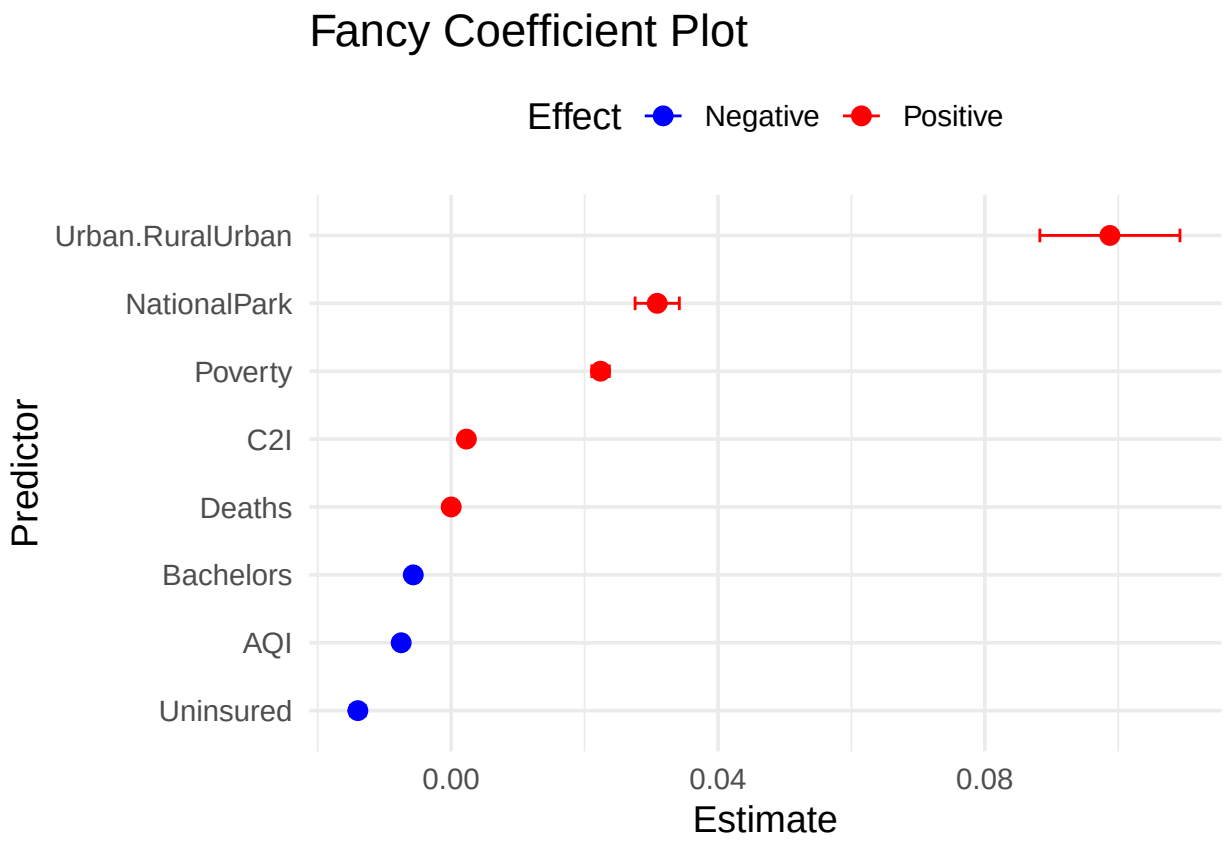
```r
coefs <- summary(lm2)$coefficients
# Make a dataframe
coef_df <- data.frame(
  term = rownames(coefs),
  estimate = coefs[, "Estimate"],
  std_error = coefs[, "Std. Error"]
)

# Exclude intercept for clarity
coef_df <- coef_df[coef_df$term != "(Intercept)", ]

# Add a color column based on sign of estimate
coef_df$color <- ifelse(coef_df$estimate > 0, "Positive", "Negative")

# Plot
ggplot(coef_df, aes(x = estimate, y = reorder(term, estimate), color = color)) +
  geom_point(size = 3) +
  geom_errorbarh(aes(xmin = estimate - std_error, xmax = estimate + std_error), height = 0.2) +
```

```
  scale_color_manual(values = c("Positive" = "red", "Negative" = "blue")) +
  labs(
    title = "Fancy Coefficient Plot",
    x = "Estimate",
    y = "Predictor",
    color = "Effect"
  ) +
  theme_minimal(base_size = 14) +
  theme(legend.position = "top")
```




```
joined_data %>%
  dplyr::select(where(is.numeric)) %>%
  print()
```

```
##       FIPS Unemployment   AQI NationalPark Cost.of.Living X2022.Median.Income
## 1    51036         3.21 93.76            1       75531.37             78038.78
## 5    13007         4.19 83.30            0       59389.29             52946.23
## 6    20061         3.91 79.67            0       69401.74             59946.11
## 8    48079         5.08 75.33            2       61721.15             59858.82
## 9    48011         2.85 75.33            2       73725.97             81611.11
## 10   48119         4.18 75.33            2       62084.03             63549.24
## 13   40057         2.82 72.44            0       69744.14             62484.42
## 15   51115         2.94 93.76            1       77641.60             68953.42
## 18   51830         4.26 93.76            1       82897.39             88563.75
## 19   51125         2.85 93.76            1       74618.57             80136.59
```

```
## 21   48109        2.95 75.33          2       61933.08          45030.43
## 23   31167        2.08 93.46          0       83869.01          81331.81
## 24   24029        3.73 85.48          0       71473.92          86792.47
## 27   13183        3.20 83.30          0       63515.37          60126.82
## 28   51097        2.71 93.76          1       70563.64          75361.84
## 29   26085        7.59 80.67          1       62721.57          50964.46
## 30   20207        3.64 79.67          0       63875.47          55867.55
## 31   48081        3.58 75.33          2       60704.69          66589.67
## 35   48151        3.60 75.33          2       62042.01          63663.21
## 36   25019        6.74 89.76          0      113470.97         125738.95
## 38   51133        4.14 93.76          1       71629.02          73113.09
## 40   51840        2.80 93.76          1       80033.98          71218.60
## 41   55001        5.05 87.89          0       69002.08          59595.96
## 42   48075        2.90 75.33          2       62908.90          64996.04
## 43   51595        4.93 93.76          1       62753.24          37757.42
## 44   51720        3.90 93.76          1       62908.17          46095.25
## 45   30059        2.32 91.52          2       73145.82          54336.55
## 46   29197        3.09 83.10          1       68115.48          53294.32
## 47    8047        2.82 73.82          4       90845.80          96091.41
## 48   40033        3.15 72.44          0       70558.39          60454.38
## 49   31069        2.09 93.46          0       81174.78          58925.44
## 50   37137        3.75 88.12          1       74668.22          62674.38
## 52   51193        3.27 93.76          1       73547.66          75608.28
## 53   37103        3.52 88.12          1       70408.15          52802.48
## 54   51099        2.64 93.76          1       81157.20         103466.07
## 55   30007        3.48 91.52          2       75321.77          75929.68
## 56   51119        2.82 93.76          1       73427.50          70225.66
## 57   38037        2.01 95.24          1       67270.64          74169.70
## 58   48159        3.35 75.33          2       62434.93          66687.22
## 59   51750        3.68 93.76          1       72381.13          67738.69
## 60   13263        3.80 83.30          0       62901.67          49829.81
## 61   51630        3.48 93.76          1       89325.52          87438.34
## 62   13053        4.77 83.30          0       75619.59          51001.42
## 63   51007        3.03 93.76          1       75778.60          84043.66
## 64   37095        5.97 88.12          1       71393.41          48094.48
## 67   38095        2.45 95.24          1       66524.11          77987.44
## 68   51043        2.62 93.76          1       88123.33         105748.71
## 70   51111        3.57 93.76          1       66232.14          54502.90
## 72   40075        3.34 72.44          0       68679.14          55566.69
## 73   21105        4.47 85.38          1       67236.29          63086.14
## 74   32011        2.99 81.21          2       79563.46          87378.79
## 75    2068        6.75 87.86          8       92396.36         107174.97
## 77   20085        2.40 79.67          0       71070.83          68753.20
## 78   42113        5.54 84.38          0       68814.07          63727.91
## 79   53069        7.25 92.89          3       68313.55          68070.35
## 80   20083        2.09 79.67          0       66683.67          81688.12
## 81   48417        2.81 75.33          2       62081.09          56988.84
## 82   51181        3.05 93.76          1       68823.24          74658.47
## 83   48379        3.54 75.33          2       62635.69          71082.03
## 84    5079        4.68 88.42          1       58353.20          59296.13
## 85   21201        5.26 85.38          1       61200.25          57175.73
## 86   13065        2.85 83.30          0       61461.30          44875.38
## 87   13221        2.81 83.30          0       65147.57          61187.54
## 88   48387        5.39 75.33          2       60145.94          53476.07
```

```
## 89   30019        1.96 91.52          2       76870.13          78500.85
## 90   48129        3.68 75.33          2       62753.24          54550.13
## 91   51075        2.80 93.76          1       89748.78         115181.13
## 92   37073        3.59 88.12          1       72678.22          62893.09
## 93   20065        2.41 79.67          0       66325.96          58240.55
## 94   48487        5.13 75.33          2       59902.52          56311.14
## 97   48313        4.52 75.33          2       63503.32          65173.68
## 98   13235        3.43 83.30          0       62510.59          56908.75
## 99   48137        2.91 75.33          2       61592.67          56732.14
## 105  13209        3.99 83.30          0       60826.71          52236.70
## 106  20019        2.88 79.67          0       65476.30          55432.18
## 107  13283        4.10 83.30          0       61182.55          50714.94
## 108  48343        6.68 75.33          2       61257.78          54215.39
## 109  20089        2.68 79.67          0       66891.08          54479.28
## 110  13197        3.67 83.30          0       59920.48          58063.93
## 111  38031        2.14 95.24          1       65906.89          94211.29
## 113  13211        2.76 83.30          0       69235.89          79032.75
## 114  13253        3.66 83.30          0       62374.80          45536.66
## 116  55037        3.68 87.89          0       69740.90          66101.93
## 117  13101        2.57 83.30          0       63326.03          55208.33
## 119   8025        3.95 73.82          4       70220.00          55865.50
## 121  47095        5.24 84.90          1       56659.53          46042.88
## 126  13005        3.02 83.30          0       60081.71          46991.67
## 127  19003        2.01 87.71          0       64865.55          68836.37
## 128  26131        8.10 80.67          1       71013.50          55544.10
## 129  20047        2.35 79.67          0       65520.99          66074.20
## 130  38027        2.99 95.24          1       65672.48          81717.90
## 131  13239        5.16 83.30          0       61656.58          41843.16
## 133  48087        3.61 75.33          2       62358.34          51439.88
## 135  26001        7.47 80.67          1       66331.86          52728.54
## 136  51109        2.79 93.76          1       74410.83          74897.72
## 137  48385        4.86 75.33          2       63837.38          51289.96
## 138  47169        3.08 84.90          1       69027.51          60821.99
## 139  48243        3.57 75.33          2       67554.01          62872.56
## 141  38001        2.25 95.24          1       66507.52          88849.20
## 142  51820        3.08 93.76          1       71578.56          62955.73
## 143   5073        5.03 88.42          1       60115.11          44849.71
## 144  55051        5.38 87.89          0       73991.07          58863.83
## 145  40045        2.35 72.44          0       73652.10          69161.87
## 146  25007        5.53 89.76          0      109743.84          99233.49
## 147  48207        3.05 75.33          2       62009.28          55566.69
## 148  20187        1.95 79.67          0       64340.13          69422.68
## 150  51678        4.32 93.76          1       66127.24          73470.43
## 151  48327        3.91 75.33          2       61066.07          55260.70
## 152  20153        1.87 79.67          0       65522.66          73332.84
## 154   5081        4.02 88.42          1       64358.15          61411.39
## 155  13191        3.20 83.30          0       65950.83          70091.15
## 157  31073        2.01 93.46          0       77941.95          83001.43
## 158  13061        7.23 83.30          0       61159.30          27326.92
## 159  20167        2.33 79.67          0       65343.21          59244.78
## 160  48063        4.67 75.33          2       62615.39          60023.12
## 161  38043        4.09 95.24          1       67271.08          65425.25
## 163  37029        3.95 88.12          1       82143.26          77878.59
## 164  51163        2.96 93.76          1       68849.08          69682.47
```

```
## 166  20171         1.86 79.67          0       63865.52          77953.55
## 167  20039         2.97 79.67          0       68518.92          64818.39
## 168  13125         3.13 83.30          0       61064.36          70410.49
## 169  40151         1.91 72.44          0       70010.47          79055.34
## 171  48197         3.64 75.33          2       61013.52          55147.75
## 172  31135         1.73 93.46          0       81754.81          83429.62
## 173  13133         3.28 83.30          0       61616.21          71113.87
## 175  16061         4.07 88.17          1       67327.83          56689.01
## 177  51033         3.36 93.76          1       84509.53          79105.65
## 178  51610         2.25 93.76          1      108066.32         177662.47
## 179  20011         3.60 79.67          0       62744.10          53834.44
## 180  51011         3.31 93.76          1       69342.13          70459.77
## 181  13319         3.40 83.30          0       59657.67          52721.36
## 183  13237         3.59 83.30          0       63255.56          64494.95
## 184   8027         3.03 73.82          4       69594.86          65132.60
## 185  26135         8.58 80.67          1       65885.88          50802.22
## 186  13165         4.43 83.30          0       60193.62          40697.22
## 187  48275         4.07 75.33          2       61010.35          64025.68
## 188  20017         2.20 79.67          0       64823.96          58377.11
## 189  20195         2.49 79.67          0       64832.06          79065.61
## 190  48023         2.78 75.33          2       62721.07          59775.65
## 193  38039         2.21 95.24          1       66717.59          78971.14
## 194  31017         2.71 93.46          0       80210.67          62786.30
## 195  13075         3.20 83.30          0       60623.03          48908.75
## 196  31105         1.92 93.46          0       79126.29          67385.46
## 197  51047         2.87 93.76          1       80994.51          92167.91
## 198  13079         3.23 83.30          0       63206.87          61324.11
## 200  48315         5.23 75.33          2       61025.15          49888.34
## 202  37041         4.16 88.12          1       70315.67          53508.93
## 203  20203         2.05 79.67          0       64916.50          63992.82
## 204  13159         2.68 83.30          0       69840.47          59882.44
## 205  54021         5.48 89.50          1       73296.65          57611.10
## 206  31045         2.17 93.46          0       77090.39          73674.77
## 207  40029         3.35 72.44          0       70185.09          55742.28
## 209  48295         3.17 75.33          2       65089.82          68540.64
## 210  31161         2.07 93.46          0       80772.06          61271.74
## 211  13281         4.26 83.30          0       62819.97          55090.25
## 212  51103         3.71 93.76          1       73881.24          75045.58
## 213  51183         4.43 93.76          1       74065.85          62739.07
## 214   5099         4.08 88.42          1       62574.12          46569.64
## 215  53023         7.52 92.89          3       64548.80          72163.28
## 217  51113         2.28 93.76          1       73165.56          68312.68
## 219   1105         5.55 80.94          0       65313.37          36420.49
## 220  48211         3.42 75.33          2       67654.05          86510.09
## 221  19151         2.18 87.71          0       64332.18          74414.09
## 223  51685         2.59 93.76          1      103719.43          92252.11
## 224  48435         6.05 75.33          2       59917.00          62422.81
## 225  56017         3.02 89.85          2       82003.74          78295.48
## 226  29199         2.17 83.10          1       69651.00          64132.47
## 228  47127         2.53 84.90          1       62904.66          70907.47
## 229  29103         2.67 83.10          1       65264.46          54705.18
## 230  51091         2.34 93.76          1       67862.44          56876.92
## 231  48405         6.18 75.33          2       62057.20          48517.53
## 232  38063         3.03 95.24          1       66608.99          81034.03
```

```
## 234  20033        2.24 79.67          0       66492.06          76645.38
## 235  19143        1.79 87.71          0       65100.93          71194.98
## 237  20145        2.46 79.67          0       66637.55          64256.72
## 239  20007        2.11 79.67          0       66764.62          63826.48
## 242   1037        2.60 80.94          0       68557.23          49986.92
## 243  31083        1.94 93.46          0       78936.65          71927.11
## 244  13049        3.21 83.30          0       61189.71          50477.74
## 246  28015        4.71 84.02          0       60160.41          67183.17
## 247  42023        6.05 84.38          0       64862.75          57366.72
## 248  13155        4.12 83.30          0       60138.17          57502.26
## 249   8113        3.24 73.82          4       88202.62          96787.59
## 251  32029        4.14 81.21          2       74311.91          76641.27
## 252  48429        3.88 75.33          2       62141.00          54051.10
## 253   5077        4.82 88.42          1       59630.73          51688.37
## 255  51580        4.30 93.76          1       64026.44          59159.55
## 256  26095        6.65 80.67          1       70483.86          63849.07
## 257  38041        1.74 95.24          1       69196.92          78210.26
## 258  21181        4.24 85.38          1       61627.58          50161.48
## 259  51640        3.22 93.76          1       64091.77          42071.12
## 260  20105        2.42 79.67          0       64827.00          64348.11
## 261  13309        5.27 83.30          0       60876.19          51486.09
## 263  20013        2.41 79.67          0       64842.63          62054.18
## 264  48413        3.67 75.33          2       62267.72          68771.67
## 265  51021        2.98 93.76          1       66336.84          56451.82
## 266  51101        2.73 93.76          1       83492.96          77346.70
## 267  13039        3.07 83.30          0       66754.33          64371.73
## 268   5039        4.19 88.42          1       60233.50          53087.93
## 269  46027        2.19 92.09          2       67713.75          90675.93
## 270  31043        2.92 93.46          0       80566.24          69576.70
## 272  21221        4.70 85.38          1       68519.50          63941.48
## 274  13315        3.84 83.30          0       60633.30          50758.07
## 275  31071        2.13 93.46          0       79287.65          62555.27
## 276  21075        4.70 85.38          1       64716.54          44470.81
## 277  16023        3.11 88.17          1       72780.58          54229.77
## 278  51049        3.48 93.76          1       72614.44          61219.37
## 279  20005        3.62 79.67          0       65123.62          63679.64
## 280  56019        3.59 89.85          2       85341.68          78072.66
## 281  17151        4.70 80.20          0       72382.58          65948.93
## 282  51081        3.94 93.76          1       70040.48          58840.21
## 284  41021        4.14 86.98          1       83608.42          64078.05
## 285  37075        5.67 88.12          1       67453.51          50938.79
## 287  48299        3.94 75.33          2       61160.70          64507.27
## 288  13267        3.13 83.30          0       60441.56          53824.17
## 289  54105        6.21 89.50          1       68806.61          56578.11
## 290  13167        2.98 83.30          0       60510.45          52772.70
## 291  48425        3.96 75.33          2       68669.10          66193.31
## 292  40085        2.44 72.44          0       69902.87          62842.78
## 294  51029        4.10 93.76          1       71603.73          60623.81
## 295  46007        3.38 92.09          2       72560.07          52074.46
## 296  37017        4.53 88.12          1       67154.49          48299.84
## 297  47137        3.96 84.90          1       59240.51          47319.23
## 298  48407        5.09 75.33          2       63346.75          55842.91
## 299  31015        2.36 93.46          0       81021.06          68027.23
## 300  35003        5.38 68.34          2       66765.98          55726.88
```

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## 301  21039         3.85 85.38          1       66556.93          63143.64
## 303  31147         2.14 93.46          0       74485.50          65255.82
## 304  47175         4.41 84.90          1       60566.68          53722.51
## 305  48169         4.30 75.33          2       62538.12          69988.46
## 306  45017         3.63 87.46          1       60481.58          67075.36
## 307   1027         2.32 80.94          0       66844.73          51316.66
## 308  40055         3.54 72.44          0       69369.70          56957.02
## 309  13001         3.72 83.30          0       59779.96          51470.68
## 310  21189         7.39 85.38          1       60898.64          41319.48
## 311  13147         3.12 83.30          0       60292.25          57610.07
## 312  51600         2.51 93.76          1      105520.51         145809.30
## 313  20179         1.96 79.67          0       67377.76          78419.73
## 314  21057         3.29 85.38          1       60957.40          48004.12
## 315  13099         3.73 83.30          0       60911.01          43364.92
## 316  13257         3.68 83.30          0       60050.91          61492.50
## 317  37093         5.17 88.12          1       70875.23          58082.41
## 318  40149         3.12 72.44          0       73756.66          67818.78
## 319  13179         3.39 83.30          0       69728.44          52965.74
## 322  26119         8.87 80.67          1       66106.92          51604.17
## 323  13251         4.53 83.30          0       60716.00          56501.10
## 324  51057         3.55 93.76          1       71530.69          60043.65
## 325  19063         2.95 87.71          0       66633.82          72551.42
## 326  13229         2.82 83.30          0       60122.50          52182.27
## 327  51620         4.25 93.76          1       67590.75          48552.44
## 328  48351         7.32 75.33          2       63384.38          50766.28
## 329  40095         3.14 72.44          0       71463.26          52915.43
## 330  37033         4.21 88.12          1       61967.22          61276.87
## 332  48281         3.83 75.33          2       64021.87          75031.20
## 334  16003         5.57 88.17          1       68889.04          58539.35
## 335  31021         2.42 93.46          0       70826.32          72519.59
## 336   8049         2.75 73.82          4       78625.21          87745.37
## 337  48175         4.58 75.33          2       63871.58          82787.85
## 338  13181         3.60 83.30          0       63166.29          60183.30
## 339  40053         1.95 72.44          0       74753.77          72187.92
## 340  48111         2.41 75.33          2       60759.33          70869.48
## 341  48267         3.49 75.33          2       60014.96          58644.09
## 342  13287         4.24 83.30          0       59831.86          49312.29
## 343  13105         3.85 83.30          0       59049.44          46372.49
## 344  48191         4.39 75.33          2       62364.88          44923.64
## 346  51735         2.52 93.76          1       85127.81         112442.59
## 347  48271         4.97 75.33          2       60830.80          54885.91
## 348  13241         2.99 83.30          0       60714.05          54292.40
## 349   8019         3.03 73.82          4       82771.12         102842.79
## 350  40067         3.21 72.44          0       69937.99          51554.88
## 351   5127         2.89 88.42          1       59415.56          48105.77
## 352  31049         2.47 93.46          0       80262.32          58529.09
## 353  13161         3.75 83.30          0       59289.00          44287.01
## 354  20183         2.09 79.67          0       67883.49          60424.61
## 355  46117         1.90 92.09          2       70538.52          89900.67
## 356  13201         2.72 83.30          0       61794.52          59042.50
## 357  28131         4.34 84.02          0       61904.34          55191.90
## 358  50013         3.38 90.10          0       94493.75          89015.55
## 359  19009         2.32 87.71          0       64803.46          63626.25
## 360  40141         3.44 72.44          0       69387.32          50699.54
```

```
## 362  40093        2.42 72.44          0       70404.06          64637.67
## 363  38047        2.22 95.24          1       66728.08          71518.44
## 364  13003        2.82 83.30          0       59798.44          47158.01
## 365  40065        2.80 72.44          0       68949.84          61832.38
## 368  20067        2.99 79.67          0       64166.59          76556.04
## 369  51570        3.34 93.76          1       79200.64          75411.13
## 371  13171        3.39 83.30          0       64548.34          66530.11
## 372  51690        4.81 93.76          1       63918.45          45913.50
## 373  37005        4.02 88.12          1       65339.67          45074.58
## 374  51187        2.95 93.76          1       79043.45          86134.27
## 375  40129        2.38 72.44          0       71827.48          63504.06
## 376   5105        3.78 88.42          1       64970.82          61168.03
## 377  30023        2.52 91.52          2       71470.67          52130.93
## 378  20023        2.44 79.67          0       67639.07          65657.31
## 379  31013        2.45 93.46          0       77914.53          74671.82
## 380  37153        5.32 88.12          1       64982.40          47920.95
## 381  31101        1.92 93.46          0       78573.05          68112.45
## 382  48105        4.14 75.33          2       60209.42          58550.65
## 383   5067        5.21 88.42          1       58546.30          45415.49
## 384  48421        2.91 75.33          2       63041.98          64889.25
## 385  13293        3.28 83.30          0       60000.68          54873.58
## 386  20077        2.17 79.67          0       64034.18          56695.17
## 387  13271        6.04 83.30          0       58576.05          36270.58
## 388  48483        4.08 75.33          2       62581.53          57265.06
## 389  56011        3.06 89.85          2       83822.52          82213.85
## 390  31123        2.18 93.46          0       80318.84          62435.13
## 391  47067        4.36 84.90          1       59822.63          44970.88
## 392  48461        2.76 75.33          2       62059.42          73601.87
## 393  48103        5.24 75.33          2       61455.79          74600.97
## 394  21213        3.54 85.38          1       67981.50          60273.66
## 395   8055        6.47 73.82          4       68518.65          52459.52
## 396  19195        2.75 87.71          0       67019.80          75842.40
## 397  40083        2.78 72.44          0       72826.74          80012.34
## 398  37043        4.15 88.12          1       69595.53          53223.47
## 399  47039        4.68 84.90          1       59088.66          54514.20
## 400  26153        8.41 80.67          1       69249.33          60402.02
## 401  56027        2.94 89.85          2       80748.21          46635.36
## 402  31125        2.12 93.46          0       72897.99          64604.81
## 404  45081        2.95 87.46          1       62075.88          56753.70
## 405  47153        4.30 84.90          1       63728.20          60990.39
## 406   8017        1.94 73.82          4       66766.40          83320.77
## 407  54071        2.63 89.50          1       73986.83          50131.70
## 409   2110        2.86 87.86          8       93336.01         111667.34
## 410  48383        3.68 75.33          2       65888.48          81504.32
## 411  31163        2.33 93.46          0       78007.09          72266.99
## 412  13119        3.27 83.30          0       61191.43          55373.65
## 413  19177        2.88 87.71          0       63725.37          62328.34
## 414  13301        3.94 83.30          0       59773.24          45929.93
## 415  13195        2.97 83.30          0       63878.01          64121.18
## 416  20135        2.23 79.67          0       65716.24          65184.97
## 417  13019        3.28 83.30          0       61456.89          51553.86
## 418  51017        2.52 93.76          1       67326.85          67472.74
## 419  13193        4.35 83.30          0       60932.13          44923.64
## 420   8007        3.25 73.82          4       72923.80          63746.39
```

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## 421  29173         2.37 83.10          1       68482.66          70678.49
## 422  40059         2.04 72.44          0       73490.04          69054.05
## 423  47101         3.75 84.90          1       61380.03          53046.86
## 424  13017         4.52 83.30          0       59738.31          41122.33
## 425  13259         3.71 83.30          0       61514.51          41814.41
## 426  29111         2.36 83.10          1       68856.63          58650.25
## 427  24041         3.48 85.48          0       72602.26          93352.86
## 428  31175         2.25 93.46          0       78192.13          76718.28
## 429  18009         3.59 84.53          1       63725.63          54691.84
## 430  40039         2.69 72.44          0       70723.57          66804.27
## 431  13305         3.18 83.30          0       57087.19          56012.33
## 432  19051         2.47 87.71          0       62825.32          82354.53
## 433  51530         3.18 93.76          1       66776.87          38581.96
## 434  13035         2.85 83.30          0       72124.12          55110.78
## 435  13317         4.22 83.30          0       62793.89          58469.53
## 436  27101         3.42 93.09          1       68019.77          78937.25
## 437  18115         2.23 84.53          1       70718.72          75048.66
## 438   5147         3.62 88.42          1       59010.30          54531.65
## 439  31063         2.21 93.46          0       79164.12          68902.08
## 440  13131         3.09 83.30          0       59861.13          54457.72
## 441  29089         2.45 83.10          1       65070.28          66899.77
## 442  13011         2.29 83.30          0       62087.57          57068.94
## 443  29171         2.37 83.10          1       65149.48          56860.49
## 444  27155         2.57 93.09          1       64827.76          70555.27
## 445  41015         5.71 86.98          1       84613.07          63607.77
## 446  20181         2.35 79.67          0       64944.55          58989.10
## 447  27107         3.71 93.09          1       65625.71          72255.70
## 448  38025         1.36 95.24          1       76159.35         110512.16
## 449  48317         3.21 75.33          2       65045.82          83879.37
## 450  18007         2.48 84.53          1       71638.27          58663.60
## 451  21219         3.31 85.38          1       68356.52          57988.97
## 452   5019         4.73 88.42          1       60143.96          60351.70
## 453  38075         2.00 95.24          1       66018.24          90489.05
## 454  38057         3.38 95.24          1       68585.09         100491.36
## 455  30075         2.24 91.52          2       72572.19          63172.39
## 456  54093         3.99 89.50          1       76896.41          59269.43
## 457  26013         7.89 80.67          1       71443.28          58696.46
## 458  19159         2.32 87.71          0       65165.51          66911.06
## 459  48007         5.54 75.33          2       67452.86          59862.93
## 460  20097         2.28 79.67          0       65809.76          67201.66
## 461  55041         4.93 87.89          0       72101.26          56322.43
## 462  45069         6.92 87.46          1       56527.09          44144.28
## 463   5101         3.09 88.42          1       61712.56          53014.00
## 464  28005         5.53 84.02          0       60660.30          47401.37
## 465  13145         2.81 83.30          0       69379.09          94716.48
## 467  51073         2.79 93.76          1       80523.49          86727.78
## 468  46059         1.77 92.09          2       68646.14          74958.30
## 469  37165         6.83 88.12          1       64396.82          47650.89
## 470  21161         5.05 85.38          1       61227.58          64534.99
## 471  32001         3.72 81.21          2       75904.47          68994.49
## 472  13043         2.47 83.30          0       59648.45          41114.11
## 473  13149         3.07 83.30          0       66745.77          65226.04
## 474  16021         3.94 88.17          1       68873.35          62790.41
## 475  35028         2.23 68.34          2       80264.67         154364.81
```

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## 476  29129         2.49 83.10          1       61565.50          67409.08
## 477  37053         3.61 88.12          1       89264.77          82694.41
## 478  13289         4.85 83.30          0       60249.01          54204.09
## 479  20119         1.93 79.67          0       65369.05          73546.41
## 480  46085         2.62 92.09          2       69243.26          60582.74
## 481  24011         3.17 85.48          0       67504.93          71751.52
## 482   5097         5.02 88.42          1       60815.45          48547.31
## 483  51149         3.54 93.76          1       91244.54          88286.50
## 484  40011         2.30 72.44          0       71051.94          56205.38
## 485  48495         4.11 75.33          2       61295.84          64646.91
## 486  20093         1.93 79.67          0       64468.40          59122.59
## 487  30065         2.97 91.52          2       73425.30          53801.58
## 488  40009         2.65 72.44          0       72067.80          61798.50
## 489  48077         4.00 75.33          2       68334.03          71690.94
## 490  51127         2.45 93.76          1       79911.56          99881.42
## 492  55013         4.85 87.89          0       72123.95          63559.50
## 493  22091         5.65 83.76          0       68967.14          53706.08
## 494  40103         2.23 72.44          0       71045.90          68660.77
## 495  35051         6.29 68.34          2       62869.30          43435.77
## 496  42093         3.56 84.38          0       74458.64          79296.64
## 497  28009         5.20 84.02          0       64411.71          47849.07
## 498  13187         2.49 83.30          0       66986.86          66585.56
## 499  20143         2.59 79.67          0       65939.97          73025.81
## 500  28161         4.26 84.02          0       61138.47          51774.62
## 501  51135         3.16 93.76          1       67638.05          58330.91
## 502  37149         3.97 88.12          1       71154.76          61574.65
## 503   8073         2.94 73.82          4       71258.85          71914.79
## 504  20197         2.52 79.67          0       70430.72          74757.05
## 505  31133         2.25 93.46          0       70194.87          60754.21
## 506   5117         3.05 88.42          1       59235.12          57522.80
## 508  28097         4.45 84.02          0       60201.86          48021.57
## 509  48083         4.53 75.33          2       60538.17          60031.33
## 510  40023         4.86 72.44          0       67380.64          50738.55
## 511  48247         5.69 75.33          2       61101.63          45156.73
## 512  13141         5.19 83.30          0       61100.65          46555.27
## 513  48193         3.51 75.33          2       60273.49          67891.69
## 514  17159         3.88 80.20          0       71969.19          67312.55
## 515  21187         3.48 85.38          1       62501.12          65390.34
## 516  51093         2.88 93.76          1       81585.66          96625.36
## 517  31029         1.87 93.46          0       79248.05          65962.28
## 518  38051         2.19 95.24          1       64806.57          66667.71
## 519  31181         2.54 93.46          0       78493.86          65561.81
## 520  17069         5.42 80.20          0       70952.29          69518.18
## 521  48455         5.53 75.33          2       62598.51          52186.38
## 522  55067         3.78 87.89          0       69804.15          63810.05
## 523  20025         2.02 79.67          0       69232.46          66043.40
## 524  37079         3.35 88.12          1       67621.00          56453.87
## 525  27029         7.06 93.09          1       66844.08          66743.70
## 526  38103         3.22 95.24          1       66502.84          79356.20
## 527  21239         3.05 85.38          1       73295.39          80562.72
## 529  47083         4.55 84.90          1       61920.01          56116.04
## 530  13207         2.90 83.30          0       64185.88          81778.48
## 532  48019         3.81 75.33          2       71301.56          69019.14
## 533  29186         2.31 83.10          1       63186.87          79728.94
```

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## 534  13321        3.22 83.30          0       63377.12          54441.29
## 535  48437        4.20 75.33          2       61937.92          48304.98
## 536  21007        5.09 85.38          1       67890.98          58468.50
## 537  19173        2.00 87.71          0       63846.90          68234.64
## 538  13093        4.12 83.30          0       59847.94          53103.34
## 539  19133        2.95 87.71          0       64580.47          68198.70
## 540  26089        4.45 80.67          1       90669.27          82568.11
## 541  51131        3.63 93.76          1       69861.04          61318.97
## 542  13083        2.69 83.30          0       67010.91          60363.00
## 543  36099        3.32 89.99          0       71229.61          72430.26
## 544  13225        3.94 83.30          0       66974.32          61644.48
## 545  29119        2.49 83.10          1       64603.66          48671.55
## 546  40117        3.78 72.44          0       70817.92          57600.83
## 547  48237        3.92 75.33          2       63497.94          64797.86
## 548  46051        2.62 92.09          2       68680.73          75611.36
## 549  13199        3.95 83.30          0       68148.95          49038.13
## 550  20157        2.14 79.67          0       67156.10          67764.36
## 551  47055        3.39 84.90          1       61832.53          63351.06
## 552  13107        4.25 83.30          0       59143.57          45816.98
## 553  18161        2.51 84.53          1       71808.88          62174.32
## 555  48477        4.14 75.33          2       64647.98          72435.39
## 556  20141        2.09 79.67          0       68898.29          72144.80
## 557  51199        2.85 93.76          1       93575.39         108803.52
## 558  51063        2.57 93.76          1       70513.28          64102.70
## 559  37143        4.69 88.12          1       72063.79          64321.41
## 560  21169        4.70 85.38          1       61235.35          45157.75
## 561  53013        5.78 92.89          3       73403.47          87301.77
## 562  20127        2.36 79.67          0       65771.99          73268.15
## 563  42053        6.95 84.38          0       65352.08          47689.91
## 564  32027        3.77 81.21          2       71258.65          64309.09
## 565  17009        2.29 80.20          0       74021.03          82146.09
## 566  20027        2.69 79.67          0       66981.17          69875.52
## 567  27073        2.78 93.09          1       66073.39          70157.89
## 569  46065        1.71 92.09          2       68990.25          92499.57
## 570  48127        3.97 75.33          2       59848.94          32214.61
## 571  19025        2.61 87.71          0       63420.43          69898.10
## 572   5027        4.56 88.42          1       59733.46          49350.29
## 573  46097        1.91 92.09          2       68670.29          68770.65
## 574  48307        4.37 75.33          2       62970.17          60591.98
## 575   8119        3.08 73.82          4       84125.78          81644.99
## 576  47135        5.70 84.90          1       61702.28          52854.84
## 577  56043        4.16 89.85          2       80426.64          70096.28
## 578   8115        2.70 73.82          4       65701.90          64176.63
## 579  40043        2.02 72.44          0       72549.99          67149.29
## 580  46039        3.00 92.09          2       71139.48          73570.03
## 581  20185        2.41 79.67          0       65464.66          66503.41
## 582  47097        4.91 84.90          1       56138.14          46094.22
## 583  13279        3.94 83.30          0       59958.97          55795.67
## 584  13269        5.21 83.30          0       61248.59          45474.02
## 585  19039        3.00 87.71          0       66432.06          65329.75
## 586  21139        5.01 85.38          1       66797.10          59839.32
## 588  22067        5.53 83.76          0       64646.37          43686.31
## 589  46033        2.92 92.09          2       81668.85          71677.59
## 590  56045        2.74 89.85          2       85757.52          80177.66
```

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## 591   5025        4.04 88.42          1       62872.48          57405.74
## 592  17047        4.55 80.20          0       73384.64          72825.59
## 593  13163        4.15 83.30          0       59654.49          44970.88
## 594  20161        2.76 79.67          0       78771.98          76325.01
## 595   1023        3.99 80.94          0       66050.39          48013.36
## 596  17059        5.32 80.20          0       72658.28          57170.59
## 597  29059        2.76 83.10          1       63843.99          57354.39
## 600  22125        2.64 83.76          0       72586.85          88340.92
## 601  48415        4.32 75.33          2       64766.27          69259.41
## 602  22035        8.53 83.76          0       64518.05          32589.40
## 603  48411        3.66 75.33          2       60178.71          60153.52
## 604  13027        3.20 83.30          0       64109.94          50520.87
## 605  49019        3.33 72.91          5       76135.26          65254.80
## 606  19135        2.90 87.71          0       62992.34          74779.63
## 607  20073        2.47 79.67          0       65490.61          59731.50
## 608  38029        4.52 95.24          1       66581.18          74897.72
## 609  21123        4.60 85.38          1       67957.42          59143.13
## 610   5011        5.25 88.42          1       59658.48          54462.85
## 611   5041        5.57 88.42          1       59297.37          42579.39
## 612  47027        4.86 84.90          1       60319.53          44759.35
## 613  13109        3.00 83.30          0       59490.24          52445.14
## 616  20123        2.00 79.67          0       65319.93          59643.19
## 617  46047        2.40 92.09          2       73246.00          64658.21
## 618  19001        2.14 87.71          0       66441.61          75375.20
## 619  31039        1.95 93.46          0       72349.23          75116.43
## 620  20147        2.27 79.67          0       66740.58          64580.17
## 621  20125        3.17 79.67          0       64422.27          57578.24
## 622  26071        6.40 80.67          1       71535.93          58944.95
## 623  51067        3.04 93.76          1       71736.48          68727.52
## 624  13303        4.06 83.30          0       59521.08          49627.53
## 625  40099        3.13 72.44          0       69038.94          63911.71
## 626  38011        1.76 95.24          1       66833.08          90835.09
## 627  30055        1.88 91.52          2       74732.71          64176.63
## 628  28119        5.98 84.02          0       58802.56          39926.08
## 629  24045        4.00 85.48          0       71789.79          71676.56
## 630  48115        4.56 75.33          2       61742.07          56060.59
## 631  51009        3.20 93.76          1       69236.05          72444.63
## 632  46055        1.89 92.09          2       75155.25          47918.89
## 633  45065        3.70 87.46          1       57039.31          62168.16
## 634  20151        2.19 79.67          0       66169.29          67682.21
## 635  19117        2.19 87.71          0       65917.22          71249.41
## 636  28103        6.35 84.02          0       60331.68          48085.24
## 639  20163        2.69 79.67          0       66560.24          64793.75
## 640  51037        3.10 93.76          1       65289.55          58828.92
## 641  47023        3.07 84.90          1       60134.93          61468.89
## 642  26129        7.53 80.67          1       64189.81          51161.61
## 643  13033        5.47 83.30          0       59702.98          48817.36
## 644  27063        2.58 93.09          1       65678.06          74730.34
## 646  51670        4.62 93.76          1       75252.45          48128.36
## 647  38019        2.50 95.24          1       66111.74          83499.44
## 648  19175        2.81 87.71          0       64566.33          73879.11
## 649  21077        3.71 85.38          1       72424.08          57785.66
## 650  41065        4.50 86.98          1       88622.97          65840.09
## 651  48305        3.68 75.33          2       65508.76          57602.89
```

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## 652  37069         3.78 88.12          1       72217.85          68452.33
## 653  51137         3.07 93.76          1       75313.23          85721.49
## 654   2220         2.84 87.86          8       87092.00          94401.25
## 655  38069         2.65 95.24          1       63184.02          70614.83
## 656   2130         3.94 87.86          8       89504.71          93116.70
## 657  48145         4.22 75.33          2       62576.94          53085.88
## 658  20053         2.37 79.67          0       64982.74          74967.54
## 659   8103         3.88 73.82          4       70377.47          77894.00
## 660  47087         4.03 84.90          1       59217.24          50858.70
## 661   1041         2.70 80.94          0       66749.85          59327.96
## 662  18159         2.91 84.53          1       68515.25          77755.38
## 663  21223         4.54 85.38          1       68873.61          62425.89
## 664   8003         3.76 73.82          4       67569.58          49323.59
## 665  19101         2.53 87.71          0       63324.43          61532.55
## 666  48293         4.82 75.33          2       61223.26          55564.64
## 667  47121         4.57 84.90          1       61785.76          58182.02
## 668  54095         6.32 89.50          1       73047.77          58589.67
## 669  55091         3.23 87.89          0       75890.16          72690.04
## 670  19185         2.61 87.71          0       62290.07          61960.74
## 671  27173         2.90 93.09          1       66484.56          73487.88
## 673  19069         2.61 87.71          0       66272.21          65979.73
## 674   5037         3.82 88.42          1       60482.90          62636.39
## 675  22081         3.40 83.76          0       61899.58          48774.24
## 676  13233         3.18 83.30          0       61311.46          58134.79
## 677  13013         2.59 83.30          0       72591.61          72049.30
## 678  48377         6.57 75.33          2       62242.09          34313.45
## 679  48403         7.55 75.33          2       62851.52          51531.27
## 680  20109         1.90 79.67          0       66736.60          63572.86
## 681  31097         2.95 93.46          0       70297.07          67835.21
## 682   5109         3.84 88.42          1       60420.59          53168.03
## 683  18155         2.88 84.53          1       64957.29          63021.45
## 684  22075         3.33 83.76          0       83320.16          68485.19
## 685   5001         3.39 88.42          1       60470.91          58720.07
## 686  13299         3.06 83.30          0       58976.85          50313.45
## 687  40063         4.05 72.44          0       70187.83          52498.54
## 688  20137         1.95 79.67          0       65959.63          68904.13
## 689  46107         2.35 92.09          2       68359.47          68638.19
## 690  48185         4.72 75.33          2       63059.96          61556.17
## 691  31031         1.83 93.46          0       80763.90          66162.51
## 692   5017         6.64 88.42          1       59853.39          43640.11
## 693  29205         2.38 83.10          1       64500.03          60625.86
## 694  46101         2.27 92.09          2       68234.91          79100.52
## 695  21055         4.30 85.38          1       67107.59          60916.46
## 696  21091         4.40 85.38          1       71826.89          69596.22
## 697  26003         8.00 80.67          1       70661.84          60201.79
## 698  51095         2.99 93.76          1       92528.51         106618.43
## 700  29035         3.70 83.10          1       64098.54          56950.85
## 701  48503         3.55 75.33          2       61391.95          68161.74
## 702  48017         4.41 75.33          2       62864.78          64194.08
## 703   1075         2.78 80.94          0       66444.76          54139.40
## 704  48283         2.93 75.33          2       59935.24          55959.96
## 705  20205         3.24 79.67          0       65772.84          60627.92
## 706  55099         3.53 87.89          0       74014.37          61428.84
## 707  51065         2.63 93.76          1       89359.29          93759.48
```

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## 708   1057        2.81 80.94          0       66508.39          52757.30
## 709  48229        4.13 75.33          2       64168.04          32870.75
## 710  47007        5.59 84.90          1       62446.04          54161.99
## 711  13243        4.59 83.30          0       61239.72          36666.93
## 712   8093        2.65 73.82          4       89867.83          90292.92
## 713  28019        3.81 84.02          0       61890.21          54229.77
## 714  21001        4.76 85.38          1       62020.51          48017.46
## 715  28037        5.66 84.02          0       59470.02          52104.23
## 716  46019        1.99 92.09          2       74510.23          63516.38
## 717  18131        2.65 84.53          1       64443.98          59798.24
## 718  22025        4.29 83.76          0       65775.43          61256.34
## 719  13023        4.51 83.30          0       61194.98          57438.59
## 720  13037        3.30 83.30          0       60420.81          41135.68
## 721  42067        4.49 84.38          0       68711.06          71306.91
## 722  13091        3.89 83.30          0       59367.56          50540.38
## 723  27113        3.44 93.09          1       63332.34          76959.59
## 724  22123        5.80 83.76          0       65083.75          51323.85
## 725  48391        4.95 75.33          2       60293.82          62782.20
## 726  48233        4.66 75.33          2       63623.68          64941.61
## 727  36097        3.82 89.99          0       72863.64          72777.32
## 728  17071        4.17 80.20          0       69037.72          61999.76
## 729  27075        5.25 93.09          1       66796.08          73790.80
## 730  13273        4.73 83.30          0       62180.75          42230.27
## 731  46043        2.02 92.09          2       69842.94          72823.53
## 733  48065        3.15 75.33          2       70204.16          99124.65
## 735  37175        3.56 88.12          1       69216.62          63395.21
## 737  38009        3.06 95.24          1       64784.35          80951.88
## 738  32021        4.24 81.21          2       73993.64          52915.43
## 739  30107        3.85 91.52          2       71177.99          50699.54
## 740  22111        3.94 83.76          0       63555.12          62528.57
## 741  54089        3.83 89.50          1       74488.78          50338.09
## 742  46123        1.72 92.09          2       69213.66          67986.16
## 743  54101        4.78 89.50          1       76381.58          47124.13
## 744  51117        3.72 93.76          1       66143.59          59526.13
## 745  27133        1.71 93.09          1       64488.54          71804.92
## 746  20107        4.04 79.67          0       72169.54          64045.20
## 747   5133        4.04 88.42          1       59264.06          56560.66
## 748  27043        3.26 93.09          1       66211.93          71686.84
## 749  46105        2.14 92.09          2       73696.15          72270.07
## 750  13189        4.63 83.30          0       61463.73          51935.84
## 751  24047        5.29 85.48          0       72674.92          82312.43
## 753  21023        4.44 85.38          1       67483.71          69252.23
## 754  39067        5.19 82.83          1       63348.78          59927.62
## 755  19073        2.09 87.71          0       65400.33          71614.95
## 756  31051        2.21 93.46          0       80568.16          74658.47
## 757  40071        3.60 72.44          0       70680.12          59270.45
## 758  36123        3.03 89.99          0       77515.77          75744.85
## 759  20035        3.05 79.67          0       63393.37          63373.65
## 760  18171        2.63 84.53          1       67849.81          73464.27
## 761  48031        2.87 75.33          2       66642.79          72665.40
## 762  40107        4.08 72.44          0       72158.34          47424.99
## 763  21191        3.64 85.38          1       75818.69          71686.84
## 764  48043        3.50 75.33          2       63904.49          67607.25
## 765  28065        5.30 84.02          0       60037.95          48967.28
```

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## 766  13231        2.77 83.30          0       69043.12          82986.02
## 767  39121        6.40 82.83          1       63545.25          58521.90
## 768  48297        4.35 75.33          2       61307.33          71089.22
## 769  19091        2.50 87.71          0       65796.53          73231.18
## 770  19123        2.49 87.71          0       62607.49          70430.00
## 771  29211        2.86 83.10          1       65495.22          55391.11
## 772  21063        8.73 85.38          1       61016.38          39088.19
## 773  20063        2.16 79.67          0       66162.09          65227.07
## 774  37187        5.40 88.12          1       68574.42          50082.41
## 775  19089        3.21 87.71          0       66436.17          70660.01
## 777  20165        2.28 79.67          0       66843.16          68588.90
## 778  13169        3.02 83.30          0       64386.36          66276.48
## 779  21229        3.57 85.38          1       61579.70          66418.19
## 780  21033        3.52 85.38          1       66617.05          63668.35
## 781  32015        3.48 81.21          2       79281.70         101158.80
## 782  21165        5.98 85.38          1       61707.70          51848.55
## 783   5049        3.51 88.42          1       60455.34          47429.09
## 784  20189        2.00 79.67          0       65494.98          64518.56
## 785  51540        2.69 93.76          1       88303.76          92093.98
## 786  31011        1.88 93.46          0       78384.37          69969.98
## 787  40031        3.75 72.44          0       69093.38          66056.75
## 788  28069        6.28 84.02          0       60115.77          38361.20
## 789  39115        5.62 82.83          1       63421.61          51027.09
## 790  37131        5.10 88.12          1       69071.62          46128.11
## 791  35059        2.97 68.34          2       65101.12          46313.96
## 792  48287        3.67 75.33          2       67364.66          65548.47
## 793  41027        3.71 86.98          1       89889.78          79189.85
## 794  48205        2.03 75.33          2       66852.42          69876.54
## 795   5129        4.70 88.42          1       60292.70          44428.71
## 796  31139        2.00 93.46          0       77439.60          79978.45
## 797  38003        2.27 95.24          1       65126.99          88272.13
## 798  27125        3.97 93.09          1       67604.78          78916.72
## 799  27023        2.50 93.09          1       64808.67          73901.70
## 800   5087        2.55 88.42          1       63341.63          58608.15
## 801  51520        3.52 93.76          1       67152.23          55347.98
## 802  18013        3.39 84.53          1       76826.40          78517.28
## 803  29067        2.78 83.10          1       63990.12          47655.00
## 804  51145        2.60 93.76          1       80989.78         102904.40
## 805  46037        3.11 92.09          2       69281.58          62263.65
## 806  26053        5.50 80.67          1       71618.91          57223.99
## 807  47075        4.73 84.90          1       57235.11          52494.43
## 808  48047        6.34 75.33          2       57757.31          32226.94
## 809  37007        4.56 88.12          1       62237.10          52531.39
## 810  48149        3.59 75.33          2       64520.95          74511.63
## 811  28125        6.28 84.02          0       59583.94          44871.27
## 812   8095        2.14 73.82          4       67768.68          63672.46
## 813  19141        2.19 87.71          0       64521.12          74302.16
## 814  30025        1.59 91.52          2       75678.17          97228.10
## 815  18015        2.96 84.53          1       69822.57          66900.80
## 816  22093        4.83 83.76          0       70770.32          67159.55
## 817  29125        2.60 83.10          1       67179.75          65895.53
## 818  51051        4.59 93.76          1       65453.15          43765.38
## 819  20129        2.75 79.67          0       65581.14          59149.29
## 820   8011        3.68 73.82          4       66202.14          41665.52
```

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## 821   1011        2.89 80.94          0       68845.69          44495.45
## 822  13085        2.52 83.30          0       73884.71          80711.61
## 823  48009        3.48 75.33          2       65585.57          85916.59
## 824  51175        2.90 93.76          1       69380.67          74101.93
## 825  16079        4.85 88.17          1       67642.55          53007.84
## 827  22049        3.29 83.76          0       65359.65          52797.34
## 828   5089        3.87 88.42          1       59877.39          47799.78
## 829  20081        1.96 79.67          0       64574.84          61469.91
## 830  29141        3.06 83.10          1       63865.47          50839.18
## 831  18119        3.27 84.53          1       74556.72          64151.98
## 832  21061        5.06 85.38          1       70387.67          53278.92
## 833  31023        1.87 93.46          0       73383.61          78730.86
## 834  13291        2.70 83.30          0       62366.18          62796.57
## 835  48051        3.72 75.33          2       64354.69          74162.51
## 836  45087        4.94 87.46          1       59299.04          50070.09
## 838  46095        3.16 92.09          2       74402.01          42499.30
## 839  16015        3.90 88.17          1       72405.39          72583.25
## 840   2105        5.93 87.86          8       78684.55          69310.76
## 841  48095        3.25 75.33          2       64271.32          65742.54
## 842  28155        4.05 84.02          0       61444.52          58304.21
## 843  40105        2.94 72.44          0       70038.92          53953.55
## 844  20169        2.48 79.67          0       64348.23          73972.55
## 845  19093        2.25 87.71          0       64711.82          77191.65
## 847  47033        3.27 84.90          1       60502.38          57668.61
## 848  17155        4.93 80.20          0       70916.16          79535.89
## 849  38067        3.49 95.24          1       67912.49          83668.87
## 850  51147        4.11 93.76          1       69054.20          64415.88
## 851  21087        3.84 85.38          1       60989.60          50504.44
## 852  38021        1.77 95.24          1       64204.83          84252.10
## 853  51141        3.72 93.76          1       65743.96          61503.80
## 854  45029        3.63 87.46          1       57119.87          45060.21
## 855  28053        8.23 84.02          0       58413.26          35686.31
## 856  54001        4.58 89.50          1       75468.11          53576.70
## 857  20001        2.97 79.67          0       63167.95          60393.80
## 858  45005        6.00 87.46          1       55544.85          49944.82
## 859  19107        3.11 87.71          0       64059.30          70694.92
## 860  17065        3.54 80.20          0       71366.62          64124.26
## 861  28013        4.30 84.02          0       60532.51          46742.15
## 862  51071        3.24 93.76          1       72068.72          63291.50
## 863  16037        3.35 88.17          1       74377.28          54550.13
## 864  28147        5.18 84.02          0       60559.96          45584.91
## 865  56035        4.31 89.85          2       85255.78          83654.49
## 866   5103        4.06 88.42          1       58928.99          49738.43
## 867  54075        4.11 89.50          1       77427.25          57034.03
## 868  13311        2.44 83.30          0       62874.69          63257.62
## 869  21129        5.74 85.38          1       61224.23          35567.20
## 870  51079        2.47 93.76          1       88408.54          78504.96
## 871  21017        3.63 85.38          1       69858.81          64843.04
## 872  21143        4.39 85.38          1       66836.53          64950.86
## 873  23021        3.95 94.99          1       69331.21          53760.50
## 874  18125        3.28 84.53          1       64910.81          64805.05
## 875  37091        5.41 88.12          1       67802.13          49934.55
## 876  29123        2.97 83.10          1       65660.10          58502.39
## 877   5047        3.46 88.42          1       59145.32          53398.04
```

```
## 878   8051        2.53 73.82          4       74792.63          90584.54
## 879  30097        2.07 91.52          2       74049.34          69727.65
## 880   8065        2.65 73.82          4       72246.23          65302.03
## 881   5135        4.30 88.42          1       59046.56          45333.34
## 883  46129        3.63 92.09          2       66805.82          72977.55
## 884  55007        4.99 87.89          0       72419.04          68050.84
## 885  13081        4.41 83.30          0       59756.19          44136.06
## 886  48253        4.50 75.33          2       64763.64          64231.05
## 887   5061        3.45 88.42          1       59368.23          51798.24
## 888  40147        3.39 72.44          0       69343.61          69290.22
## 889  40077        5.92 72.44          0       69740.62          53576.70
## 890  54023        3.83 89.50          1       73125.24          60793.23
## 891  54087        6.77 89.50          1       75114.54          50971.64
## 892  28021        8.93 84.02          0       59430.64          29843.67
## 893  42103        5.98 84.38          0       94174.81          82317.56
## 894  31065        2.03 93.46          0       77724.97          65631.64
## 895  56007        3.85 89.85          2       86607.60          74698.52
## 896  48359        3.07 75.33          2       72533.78          76931.86
## 897  21167        3.85 85.38          1       63145.34          69332.32
## 898  22065        5.29 83.76          0       63872.53          37241.95
## 899  21103        3.71 85.38          1       71258.84          63865.50
## 900  13009        4.15 83.30          0       59036.03          64543.20
## 902  48277        4.46 75.33          2       60271.18          58432.56
## 903   1129        3.78 80.94          0       68282.91          54296.51
## 904  19041        2.75 87.71          0       66408.30          69433.98
## 905  54031        4.21 89.50          1       73400.77          55111.81
## 906  47071        4.18 84.90          1       58896.93          51701.72
## 907  21003        4.00 85.38          1       70058.54          56961.12
## 908  39163        5.24 82.83          1       64664.84          59649.35
## 909  13029        2.66 83.30          0       82005.75          87323.34
## 910  21079        3.97 85.38          1       63354.19          65631.64
## 911  37185        6.76 88.12          1       65100.58          52751.13
## 912  13055        4.38 83.30          0       60794.02          47507.13
## 913  13103        2.62 83.30          0       73484.42          82789.91
## 914  19053        2.54 87.71          0       63752.23          57720.97
## 915  22127        4.17 83.76          0       63650.99          50477.74
## 916  20115        2.49 79.67          0       64659.96          68911.32
## 917  22087        4.15 83.76          0       73713.69          53161.86
## 918   5003        5.82 88.42          1       60000.25          57424.22
## 919  13111        2.73 83.30          0       64557.43          62070.61
## 920  16009        4.41 88.17          1       69587.32          54157.89
## 921  21101        3.92 85.38          1       71775.47          63298.69
## 922   5121        3.51 88.42          1       59171.83          45854.97
## 923  13123        3.17 83.30          0       63335.17          63726.88
## 924  40091        5.15 72.44          0       73890.92          51810.56
## 925  51025        4.77 93.76          1       65838.28          52272.63
## 926  41023        6.53 86.98          1       76522.36          57667.58
## 927  26113        5.32 80.67          1       67198.11          56389.18
## 928  46137        3.83 92.09          2       72168.77          40431.28
## 929  13261        4.26 83.30          0       61050.24          52183.30
## 930  48069        3.20 75.33          2       63152.66          62948.54
## 931  19171        3.39 87.71          0       63997.22          72986.80
## 932  48357        3.52 75.33          2       61566.27          62225.66
## 933  37173        3.35 88.12          1       67538.25          54932.11
```

```
## 934  19067         3.01 87.71          0       66019.71          71436.29
## 935  48333         4.43 75.33          2       60959.28          63834.70
## 936  26039         7.01 80.67          1       66234.71          61251.20
## 937  48395         3.99 75.33          2       63164.02          65170.59
## 938  29219         2.54 83.10          1       69420.43          70652.82
## 939   5053         3.19 88.42          1       67180.86          66795.03
## 941  54085         4.34 89.50          1       71914.51          53126.95
## 942  48153         4.29 75.33          2       62321.35          56169.44
## 943  21225         4.46 85.38          1       67330.94          56810.18
## 944  21215         4.08 85.38          1       67781.66          89407.80
## 945  37121         4.34 88.12          1       67037.14          61206.02
## 946  18123         3.19 84.53          1       63492.01          68537.55
## 947  41037         5.75 86.98          1       72633.17          55104.62
## 948  29045         3.27 83.10          1       69177.19          62854.07
## 949  19129         2.36 87.71          0       73861.82          91690.43
## 950  16077         2.92 88.17          1       68122.21          61492.50
## 951  27167         2.29 93.09          1       65993.67          76825.07
## 952  48475         3.81 75.33          2       62739.79          70328.34
## 953   5137         4.34 88.42          1       59897.81          50814.54
## 954  41057         4.64 86.98          1       81900.15          63652.95
## 955   1067         2.78 80.94          0       69031.75          62311.91
## 956  47171         4.53 84.90          1       60791.05          51131.83
## 957  40073         2.02 72.44          0       72706.36          68692.61
## 958  28077         4.92 84.02          0       61486.22          58840.21
## 959  30061         5.37 91.52          2       72891.28          52701.85
## 960  55077         3.66 87.89          0       67929.82          65851.38
## 961  27069         2.91 93.09          1       65280.48          76782.97
## 962  18111         3.73 84.53          1       71024.10          67603.15
## 963  48003         3.29 75.33          2       68704.06          86046.99
## 964  16013         2.57 88.17          1       87098.20          73218.86
## 965  13069         3.66 83.30          0       58708.79          48596.60
## 966  20003         2.33 79.67          0       66255.89          63011.18
## 967  22021         3.97 83.76          0       65767.03          49863.70
## 968  47177         4.33 84.90          1       59094.70          53728.67
## 969   5141         4.47 88.42          1       60821.36          49406.76
## 970  54073         5.65 89.50          1       72141.76          72961.13
## 971  13227         2.64 83.30          0       71516.07          81843.17
## 972  51790         2.81 93.76          1       72855.38          73091.53
## 973  40007         1.91 72.44          0       69571.81          58312.43
## 974  37105         4.39 88.12          1       63610.59          61267.63
## 975  22043         3.58 83.76          0       65053.29          53466.83
## 976  29179         2.98 83.10          1       65293.38          52138.12
## 977  29185         2.99 83.10          1       61362.40          53007.84
## 978  37009         3.50 88.12          1       67295.79          55303.82
## 979  17153         7.45 80.20          0       73150.70          48829.69
## 980  48365         4.81 75.33          2       62150.23          61009.89
## 981  37061         3.80 88.12          1       63960.47          53993.59
## 982  17169         4.31 80.20          0       68078.38          66636.91
## 983  19187         3.06 87.71          0       62432.33          65214.75
## 984  48289         5.47 75.33          2       61815.62          58706.73
## 985  18025         3.60 84.53          1       62746.49          58426.40
## 986   6091         4.35 68.46          9       89686.63          76583.77
## 987  29005         2.45 83.10          1       66783.75          66203.59
## 988  20193         1.97 79.67          0       66118.74          73732.27
```

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## 989  51159         2.96 93.76          1       71587.45          59457.34
## 990  45071         2.85 87.46          1       60246.14          60022.09
## 991  21171         3.43 85.38          1       64308.73          54117.84
## 992  40069         3.87 72.44          0       68665.45          50994.23
## 993  46135         1.85 92.09          2       67360.04          72908.76
## 994  36105         3.37 89.99          0       78839.12          73279.44
## 995  13277         2.85 83.30          0       59328.41          54993.72
## 996  51775         2.98 93.76          1       77247.74          77268.66
## 997  31121         2.01 93.46          0       80039.66          72250.56
## 998  13087         3.35 83.30          0       59458.46          51325.90
## 999  31093         2.19 93.46          0       80674.17          75884.50
## 1000 20037         2.99 79.67          0       63151.59          61567.46
## 1001 31077         2.12 93.46          0       79650.03          62764.74
## 1002 21053         5.08 85.38          1       64098.70          41697.35
## 1003 29139         2.48 83.10          1       66721.37          58627.66
## 1004 27039         2.73 93.09          1       79359.89          90183.05
## 1005 22077         4.03 83.76          0       73108.38          59523.05
## 1006 19131         2.09 87.71          0       65173.18          71349.01
## 1007 28139         3.53 84.02          0       60180.58          49723.02
## 1008 54063         3.49 89.50          1       74200.64          52116.55
## 1009 48035         3.83 75.33          2       60015.04          62864.34
## 1010 21149         4.61 85.38          1       61565.48          66199.48
## 1011 38097         2.04 95.24          1       63847.92          89251.72
## 1012 29149         3.24 83.10          1       66149.98          42513.68
## 1013 28041         6.14 84.02          0       61110.67          61551.04
## 1014  5029         3.89 88.42          1       60037.19          56524.72
## 1015 48057         3.81 75.33          2       63962.56          72632.54
## 1016 30091         1.96 91.52          2       77410.30          74261.09
## 1017 27129         3.73 93.09          1       66526.79          72783.48
## 1018 13177         2.98 83.30          0       71189.00          81660.40
## 1020 21011         5.45 85.38          1       61517.34          54080.88
## 1021 31129         2.24 93.46          0       74198.23          62348.88
## 1022 20099         3.14 79.67          0       63370.59          59384.43
## 1023 40005         4.01 72.44          0       69977.17          48132.47
## 1024 51083         4.03 93.76          1       64348.65          60766.54
## 1025 19081         2.35 87.71          0       66219.54          74124.52
## 1026  8109         3.55 73.82          4       67695.73          52875.38
## 1027 51089         3.56 93.76          1       63726.61          51319.74
## 1028 28043         3.89 84.02          0       59824.10          51011.69
## 1029 20029         2.76 79.67          0       64961.08          59185.23
## 1030 17175         5.12 80.20          0       73557.64          69745.11
## 1031 37055         4.47 88.12          1       81572.66          72849.20
## 1032  5015         3.04 88.42          1       59869.01          59249.92
## 1033 21045         3.89 85.38          1       61408.64          43613.41
## 1034 29133         3.28 83.10          1       63823.63          40948.80
## 1035 37163         3.84 88.12          1       66162.86          53823.14
## 1036 12133         3.30 85.42          3       63724.38          48283.41
## 1037 41061         4.98 86.98          1       78773.42          64962.15
## 1038 54009         4.76 89.50          1       72862.60          68114.51
## 1039 24035         2.84 85.48          0       94175.08         114408.96
## 1040 51005         3.38 93.76          1       67701.08          60513.94
## 1041 13059         3.42 83.30          0       64832.49          56667.45
## 1042 28045         4.25 84.02          0       66387.13          59719.18
## 1043 20043         2.65 79.67          0       69829.70          66211.80
```

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## 1044 54091         3.98 89.50          1       76688.55          63382.89
## 1045 40153         3.03 72.44          0       76429.73          78111.69
## 1046 37139         4.66 88.12          1       71741.68          68019.01
## 1047 41063         5.73 86.98          1       77309.61          67924.54
## 1048 20069         2.01 79.67          0       65015.57          74671.82
## 1049 13025         3.58 83.30          0       60533.45          51319.74
## 1050 39019         4.50 82.83          1       65515.07          69363.13
## 1051 27071         4.19 93.09          1       65529.50          66320.64
## 1052 31095         1.98 93.46          0       73905.03          60008.74
## 1053 21153        11.79 85.38          1       60384.79          36783.99
## 1054 13071         2.92 83.30          0       59519.43          45292.27
## 1055 36073         3.90 89.99          0       75736.76          63292.53
## 1056 16063         3.57 88.17          1       70597.48          55405.48
## 1057 47091         3.51 84.90          1       59541.02          43876.28
## 1058 19165         2.29 87.71          0       65417.50          77959.71
## 1059 51053         3.37 93.76          1       80230.96          76677.21
## 1060  1107         3.36 80.94          0       68146.02          55549.23
## 1061 24039         5.02 85.48          0       64875.33          53694.79
## 1062 54065         2.90 89.50          1       76122.25          65696.33
## 1063 37013         4.11 88.12          1       68394.88          61152.63
## 1064 47041         3.91 84.90          1       60548.39          58954.19
## 1065 42131         5.12 84.38          0       72674.01          72192.03
## 1066 39047         4.01 82.83          1       61034.28          58714.94
## 1067 31159         2.27 93.46          0       74952.63          90022.87
## 1068 45009         5.80 87.46          1       57945.38          53411.38
## 1069 22085         3.37 83.76          0       65704.54          53603.40
## 1070 21233         4.08 85.38          1       62539.59          58539.35
## 1071 20117         2.03 79.67          0       67055.50          68408.18
## 1072 37145         3.93 88.12          1       65665.22          67466.58
## 1073 48457         6.40 75.33          2       61135.10          62189.72
## 1074 48389         3.52 75.33          2       62775.36          63816.21
## 1075 42119         4.03 84.38          0       71804.66          76810.70
## 1076 55103         2.93 87.89          0       69069.97          65574.14
## 1077 29157         2.13 83.10          1       68025.67          68947.26
## 1078 22003         4.35 83.76          0       63845.09          58885.39
## 1079  1063         4.58 80.94          0       66254.91          38505.98
## 1080 19079         2.86 87.71          0       64964.57          77220.40
## 1081  8015         2.78 73.82          4       71551.74          73749.73
## 1082 12067         3.20 85.42          3       65978.93          61979.22
## 1083 48459         4.45 75.33          2       65109.16          65966.38
## 1084 18121         3.14 84.53          1       67454.71          61647.55
## 1085 37019         4.88 88.12          1       74109.61          73784.64
## 1086 29079         2.70 83.10          1       61379.00          65643.96
## 1087 22041         5.02 83.76          0       63655.53          43879.36
## 1088 27149         2.24 93.09          1       65594.36          89385.21
## 1089 17185         3.45 80.20          0       71973.88          72737.27
## 1090 20159         2.36 79.67          0       65984.25          67920.44
## 1091 29223         3.68 83.10          1       65622.05          44098.07
## 1092 48089         3.64 75.33          2       61798.20          64592.49
## 1093 18149         3.92 84.53          1       64647.84          61354.91
## 1094 18101         2.79 84.53          1       62797.56          68044.68
## 1095 27151         3.13 93.09          1       64425.87          66828.92
## 1096 18139         2.53 84.53          1       64431.71          66211.80
## 1097 28157         6.79 84.02          0       59797.74          37222.45
```

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## 1098 21099        4.09 85.38          1       61314.29          49380.07
## 1099 38073        1.75 95.24          1       64922.54          81158.27
## 1100  8097        3.41 73.82          4       94933.28          99759.23
## 1101 47017        4.03 84.90          1       58616.64          59490.20
## 1102 48195        2.46 75.33          2       63253.86          42981.91
## 1103 56015        3.02 89.85          2       81332.52          66705.70
## 1104 20045        2.65 79.67          0       79494.10          90440.78
## 1105 29087        1.89 83.10          1       67039.92          61136.20
## 1106 17171        5.04 80.20          0       68402.18          71833.67
## 1107 37099        3.95 88.12          1       68647.35          64060.60
## 1108 49001        2.79 72.91          5       72729.39          68837.39
## 1109 13205        4.13 83.30          0       59206.19          42112.19
## 1110 35033        5.81 68.34          2       70975.43          39122.07
## 1111 19037        2.57 87.71          0       66531.79          79921.98
## 1112 55107        3.83 87.89          0       75006.38          59720.20
## 1113 31035        2.42 93.46          0       77238.45          73729.19
## 1114  1119        3.65 80.94          0       68561.78          45116.68
## 1116 48225        3.69 75.33          2       59284.65          48901.56
## 1117 40035        3.17 72.44          0       69846.38          50739.58
## 1118 20133        3.73 79.67          0       63740.92          60482.11
## 1119 30089        4.49 91.52          2       73182.80          51598.01
## 1120 45033        4.81 87.46          1       56432.56          42182.02
## 1121 48501        4.22 75.33          2       61869.05          75549.75
## 1122 46015        1.72 92.09          2       70324.05          68837.39
## 1123 12045        2.76 85.42          3       69397.43          56889.24
## 1124 29041        2.11 83.10          1       67562.30          62192.80
## 1125 27051        3.03 93.09          1       65001.66          68155.58
## 1126 19007        2.95 87.71          0       61348.81          54523.44
## 1127 47161        4.01 84.90          1       61943.70          59651.41
## 1128 48165        3.08 75.33          2       63417.29          74404.84
## 1129 19137        2.52 87.71          0       63367.12          63053.28
## 1130 37015        5.12 88.12          1       67165.67          52489.29
## 1131 37199        3.71 88.12          1       67500.12          58108.09
## 1132 45023        4.45 87.46          1       60767.25          56407.66
## 1133 37039        4.19 88.12          1       67771.39          54234.90
## 1134 19033        2.85 87.71          0       65584.16          74177.91
## 1135 26097        9.99 80.67          1       66423.98          59829.05
## 1136 47131        4.01 84.90          1       58531.70          52568.36
## 1137 12013        3.38 85.42          3       65907.49          58760.12
## 1138 54015        6.35 89.50          1       73170.32          46735.99
## 1139 27153        3.30 93.09          1       64525.22          67228.35
## 1140 51683        2.69 93.76          1       95689.42          89286.63
## 1141 21069        4.63 85.38          1       60931.86          54496.74
## 1142 48363        3.92 75.33          2       62124.72          60378.40
## 1143 45037        3.38 87.46          1       58559.25          63797.73
## 1144 51155        3.19 93.76          1       70964.80          65894.51
## 1145 46071        3.12 92.09          2       74149.52          40483.64
## 1146 41041        5.47 86.98          1       86261.09          58964.46
## 1147 13113        2.68 83.30          0       85144.86         110871.54
## 1148 38071        2.31 95.24          1       64780.33          86567.59
## 1149 32017        4.10 81.21          2       74441.30          68114.51
## 1150 21147        5.45 85.38          1       60352.10          35588.77
## 1151 19035        2.32 87.71          0       65882.28          75028.13
## 1152 46053        1.91 92.09          2       70199.72          61219.37
```

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## 1153 41013         5.78 86.98          1       84680.67          65170.59
## 1154 19157         2.82 87.71          0       65630.84          76504.70
## 1155 28079         4.32 84.02          0       59072.48          50814.54
## 1156 19095         2.57 87.71          0       66138.17          74935.71
## 1157 20021         2.69 79.67          0       63582.00          56437.44
## 1158 24019         3.73 85.48          0       66106.81          70795.55
## 1159 29151         1.95 83.10          1       66247.46          75346.45
## 1160  5043         4.61 88.42          1       59208.58          65246.58
## 1161 21207         5.15 85.38          1       61305.91          50761.14
## 1162 28111         5.04 84.02          0       62339.41          52224.37
## 1163 12047         4.19 85.42          3       66521.85          52139.14
## 1164 37111         3.60 88.12          1       65585.48          55671.43
## 1165 26019         5.62 80.67          1       68449.23          73104.88
## 1166 28129         3.81 84.02          0       59889.58          59868.07
## 1167 19071         2.45 87.71          0       65266.49          71989.75
## 1168 51077         2.71 93.76          1       65993.90          51122.59
## 1169 19161         2.47 87.71          0       65798.48          72781.43
## 1170 38093         2.09 95.24          1       64020.96          78251.34
## 1171 47085         3.60 84.90          1       62000.15          57693.25
## 1172 28063        14.94 84.02          0       59266.93          30972.15
## 1173 21027         4.78 85.38          1       61627.50          64677.72
## 1174  8117         2.29 73.82          4       96166.38          92208.98
## 1175 37115         3.54 88.12          1       79201.09          64551.42
## 1176 13127         3.04 83.30          0       68245.27          68852.80
## 1177  8081         3.26 73.82          4       68577.86          73597.76
## 1178 13137         3.18 83.30          0       61401.75          62868.45
## 1179 20009         2.70 79.67          0       63288.33          69408.30
## 1180 22031         3.98 83.76          0       62992.22          57833.92
## 1181 48239         3.61 75.33          2       64444.63          75600.07
## 1182  8009         1.78 73.82          4       65544.65          49474.53
## 1183 36039         3.66 89.99          0       82413.59          73004.25
## 1184 21041         3.25 85.38          1       59859.11          54288.29
## 1185 18049         3.14 84.53          1       64362.03          66452.08
## 1186 29075         2.19 83.10          1       65222.75          61496.61
## 1187 29011         2.39 83.10          1       63997.37          61338.48
## 1188 18045         2.84 84.53          1       64146.47          68117.59
## 1189 20131         1.87 79.67          0       66564.41          82830.98
## 1190 48179         4.67 75.33          2       64107.62          63743.31
## 1191 48285         3.46 75.33          2       61929.70          71773.09
## 1192 30077         2.71 91.52          2       70855.88          69766.67
## 1193 54037         2.55 89.50          1       89991.16         100455.42
## 1194 54041         4.91 89.50          1       74195.30          53668.09
## 1195  5149         3.99 88.42          1       59311.62          52154.55
## 1196 16071         2.59 88.17          1       70019.59          62474.15
## 1197 48337         3.74 75.33          2       64601.80          63473.25
## 1198 18075         2.76 84.53          1       64098.43          61697.87
## 1199  1019         2.40 80.94          0       67048.72          57031.97
## 1200 27143         3.31 93.09          1       77165.81          78501.88
## 1201 31185         2.19 93.46          0       73947.62          77400.09
## 1202 42087         5.01 84.38          0       67227.24          60027.22
## 1203 29137         2.75 83.10          1       65539.32          58863.83
## 1204 30021         2.37 91.52          2       79168.82          71963.05
## 1205  8063         1.98 73.82          4       68184.36          61758.45
## 1206  5083         3.97 88.42          1       59756.82          50642.04
```

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## 1207 37059         3.50 88.12          1        67034.31          74546.55
## 1208 32005         4.16 81.21          2        81659.25          79882.96
## 1209 19097         3.31 87.71          0        64391.06          77272.77
## 1210 21137         4.97 85.38          1        60683.19          52735.73
## 1211 29073         2.32 83.10          1        66967.14          68488.27
## 1212 12065         3.31 85.42          3        68454.73          62681.57
## 1213 55053         3.95 87.89          0        72123.46          71051.23
## 1214 48107         4.30 75.33          2        62050.63          52159.68
## 1215 20031         3.59 79.67          0        66673.13          78354.02
## 1216 18103         4.27 84.53          1        63757.09          62647.68
## 1217 21197         4.30 85.38          1        61882.29          54669.25
## 1218 27087         5.13 93.09          1        64916.48          55191.90
## 1219 31145         2.04 93.46          0        77133.21          65066.89
## 1220 12035         3.49 85.42          3        73698.98          64718.79
## 1221 26031         9.06 80.67          1        64658.21          58916.20
## 1222 40127         3.98 72.44          0        69739.16          49416.00
## 1223  5057         3.38 88.42          1        58857.60          54875.64
## 1224  6049         5.79 68.46          9        73146.30          58742.66
## 1225 45025         3.70 87.46          1        57528.82          51074.33
## 1226  5021         4.15 88.42          1        58492.90          52046.73
## 1227 47079         4.15 84.90          1        59105.30          54156.86
## 1228 51660         3.57 93.76          1        74005.52          65111.04
## 1229 20201         2.00 79.67          0        67399.00          65174.70
## 1230 28159         4.56 84.02          0        60959.55          45697.87
## 1231 48099         4.68 75.33          2        63822.50          61234.77
## 1232 46089         2.73 92.09          2        69838.30          70641.52
## 1233 48093         3.60 75.33          2        62152.04          62512.14
## 1234 31137         2.03 93.46          0        79527.23          78763.72
## 1235 27065         4.92 93.09          1        66910.86          71166.23
## 1236 32510         4.13 81.21          2        77534.24          73747.67
## 1237 16035         5.42 88.17          1        70601.42          60097.05
## 1238 29093         4.16 83.10          1        65399.93          49782.58
## 1239 21127         5.62 85.38          1        61529.73          45022.21
## 1240 40061         4.50 72.44          0        70449.49          57357.48
## 1241 47143         4.44 84.90          1        61144.67          58506.50
## 1242 31179         2.21 93.46          0        76069.08          76640.24
## 1243 28141         3.80 84.02          0        59655.88          50229.25
## 1244 46081         1.95 92.09          2        75077.94          73622.40
## 1245 41007         4.48 86.98          1        82656.15          73672.72
## 1246 47047         3.63 84.90          1        62399.53          74873.08
## 1247 48445         4.33 75.33          2        61997.58          50651.27
## 1248 19197         2.63 87.71          0        64478.53          65311.27
## 1249 48353         3.89 75.33          2        61262.30          59261.21
## 1250 21065         5.04 85.38          1        60643.07          42633.82
## 1251 19189         2.75 87.71          0        65633.26          70112.71
## 1252 48419         4.40 75.33          2        61582.89          51232.46
## 1253 48335         4.62 75.33          2        61170.58          80383.02
## 1254 55047         3.44 87.89          0        68048.17          71123.11
## 1255 31131         2.35 93.46          0        70672.00          78870.51
## 1256 37123         3.86 88.12          1        63644.96          57531.01
## 1257  5113         3.80 88.42          1        59816.87          45495.58
## 1258 47103         3.33 84.90          1        62453.50          61822.12
## 1259 21237         5.89 85.38          1        60578.11          36599.16
## 1260 55113         4.15 87.89          0        71816.85          62231.82
```

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## 1261 53051        7.43 92.89          3       70299.28          61762.56
## 1262 27001        4.73 93.09          1       64216.79          62395.09
## 1263 37113        3.60 88.12          1       68517.07          58704.67
## 1264 18001        2.25 84.53          1       66734.61          67369.03
## 1265 16081        2.15 88.17          1       76077.25          92334.25
## 1266 18165        3.75 84.53          1       71080.24          62009.00
## 1267 29057        2.22 83.10          1       60046.68          46313.96
## 1268 48471        4.92 75.33          2       64887.71          66666.68
## 1269 21049        3.68 85.38          1       69195.76          69671.17
## 1270 48223        3.65 75.33          2       62698.30          64818.39
## 1271 20121        2.62 79.67          0       78257.11          88548.34
## 1272  1131        8.45 80.94          0       65149.25          43576.45
## 1273 47005        4.29 84.90          1       59005.08          52284.96
## 1274 19115        3.18 87.71          0       63347.34          73571.06
## 1275 47015        3.13 84.90          1       63407.23          67060.98
## 1276 31099        1.92 93.46          0       73700.43          80353.24
## 1277 17139        3.30 80.20          0       69166.41          73574.14
## 1278 18031        2.63 84.53          1       66546.11          68130.94
## 1279 47185        3.62 84.90          1       59858.73          52295.22
## 1280 38053        1.93 95.24          1       75038.71          89614.19
## 1281 48241        6.83 75.33          2       62788.61          60614.57
## 1282 31169        1.94 93.46          0       70536.45          69632.16
## 1283 37003        3.30 88.12          1       64712.94          61949.44
## 1284 19111        4.65 87.71          0       61329.01          65340.02
## 1285  8043        4.94 73.82          4       70059.85          62948.54
## 1286 16049        3.93 88.17          1       70614.96          52979.09
## 1287  1013        3.54 80.94          0       64680.53          51857.80
## 1288 47139        3.88 84.90          1       63817.29          56055.46
## 1289 29065        3.22 83.10          1       65067.46          54957.79
## 1290 28039        5.27 84.02          0       60702.44          58202.55
## 1291 40019        3.61 72.44          0       69815.75          64578.12
## 1292 17003        6.67 80.20          0       70380.36          46540.89
## 1293 46109        3.42 92.09          2       68381.01          60754.21
## 1294 18117        3.52 84.53          1       63449.09          59899.90
## 1295 48505        7.44 75.33          2       57694.80          43533.32
## 1296 26051        6.45 80.67          1       66192.64          55774.11
## 1297  5033        3.32 88.42          1       65401.29          56559.63
## 1298 48161        5.64 75.33          2       61802.16          65152.11
## 1299 48015        4.08 75.33          2       70092.91          80292.66
## 1300 55115        3.00 87.89          0       67909.46          70563.48
## 1301 40133        4.34 72.44          0       71457.54          50853.56
## 1302 29145        2.48 83.10          1       62852.85          64006.18
## 1303 47117        3.41 84.90          1       62976.59          63866.53
## 1304 13255        3.44 83.30          0       68276.91          56829.69
## 1305  1029        2.47 80.94          0       66706.26          58880.26
## 1306 28123        3.67 84.02          0       57632.45          51778.73
## 1307 29039        2.79 83.10          1       58875.03          47784.38
## 1308 13143        3.12 83.30          0       70045.86          61775.91
## 1309 27121        2.51 93.09          1       65053.79          81069.97
## 1310 13157        2.09 83.30          0       66562.47          76399.97
## 1311 53059        5.58 92.89          3       78099.81          76645.38
## 1312 42127        5.33 84.38          0       72046.36          71990.77
## 1313 48373        5.86 75.33          2       61804.84          59630.87
## 1314  1005        4.24 80.94          0       65185.13          42822.75
```

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## 1315 41049        4.30 86.98          1       78030.14          62878.72
## 1316 22089        3.44 83.76          0       77000.45          85728.68
## 1317 17039        4.14 80.20          0       73608.10          71244.27
## 1318 12077        3.26 85.42          3       66620.49          43172.90
## 1319 45049        2.98 87.46          1       60740.86          45242.98
## 1320 55125        4.04 87.89          0       74552.60          61062.27
## 1321 37047        4.44 88.12          1       64032.32          49960.22
## 1322 31081        2.15 93.46          0       76652.62          79762.82
## 1323 47003        3.52 84.90          1       63417.98          58489.04
## 1324 28061        5.31 84.02          0       59391.42          48201.27
## 1325 20079        2.59 79.67          0       69658.25          71479.41
## 1326 17101        5.88 80.20          0       71670.45          61949.44
## 1327 40017        2.60 72.44          0       78028.22          86975.25
## 1328 26137        5.73 80.67          1       67591.40          64766.03
## 1329 26143        9.32 80.67          1       65176.57          52063.16
## 1330 12125        3.01 85.42          3       67433.92          55160.07
## 1331 22011        3.47 83.76          0       67239.95          66995.27
## 1332 21131        7.01 85.38          1       61420.79          41081.26
## 1333 26079        6.36 80.67          1       64906.37          55518.43
## 1334  5075        3.70 88.42          1       59135.29          52272.63
## 1335 21005        3.26 85.38          1       65742.25          69496.62
## 1336 21097        3.37 85.38          1       62520.40          65497.13
## 1337 16085        3.88 88.17          1       71144.72          79061.50
## 1338 55003        4.08 87.89          0       71784.54          61142.36
## 1339 45053        3.15 87.46          1       67072.72          55262.75
## 1340 38035        1.92 95.24          1       83376.21          84511.89
## 1341 19077        2.90 87.71          0       68875.20          74696.46
## 1342  8105        4.42 73.82          4       67502.49          59639.08
## 1343 22027        3.97 83.76          0       64967.73          36411.25
## 1344 47111        3.16 84.90          1       62121.82          54110.65
## 1345 29163        2.56 83.10          1       65907.88          60606.36
## 1346 21159        7.93 85.38          1       60522.07          48504.18
## 1347 47159        3.06 84.90          1       62791.01          62071.63
## 1348 21217        3.83 85.38          1       60037.77          58209.74
## 1349 53003        4.09 92.89          3       69429.38          69590.05
## 1350 29169        3.04 83.10          1       70162.74          66286.76
## 1351 21155        3.46 85.38          1       60800.73          58760.12
## 1352 28145        3.03 84.02          0       59678.58          58446.94
## 1353 48163        3.53 75.33          2       61266.69          55562.59
## 1354 28029        4.61 84.02          0       64796.13          53943.28
## 1355 37085        4.27 88.12          1       71335.84          66125.55
## 1356 48001        3.55 75.33          2       62626.51          54954.70
## 1357 20191        3.07 79.67          0       71399.50          71246.33
## 1358 26011        7.97 80.67          1       65153.99          54604.55
## 1359 18129        2.42 84.53          1       72911.87          80211.55
## 1360  8121        2.38 73.82          4       69263.66          64864.60
## 1361 42057        4.31 84.38          0       69600.93          65917.10
## 1362 29001        3.08 83.10          1       64306.03          64729.06
## 1363 35041        3.93 68.34          2       67338.66          55202.17
## 1364 20059        2.50 79.67          0       68127.05          70128.11
## 1365 46049        2.07 92.09          2       68376.33          84826.10
## 1366 28135        4.42 84.02          0       59701.63          40236.18
## 1367 29049        2.90 83.10          1       76068.40          75907.09
## 1368 49017        6.26 72.91          5       73653.43          68101.16
```

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## 1369 44001         2.67 89.94           0       84910.11          115787.98
## 1370 40145         3.10 72.44           0       75936.47           76038.52
## 1371 16059         3.87 88.17           1       73233.54           58828.92
## 1372 56001         3.22 89.85           2       82816.63           82162.52
## 1373  2150         4.54 87.86           8       93167.61          100100.14
## 1374 22013         4.33 83.76           0       65367.89           45544.87
## 1375  5065         5.46 88.42           1       59564.49           55833.67
## 1376 29117         2.02 83.10           1       61211.15           62113.73
## 1377 12037         2.83 85.42           3       65409.31           57063.80
## 1378 48053         3.05 75.33           2       65543.66           72705.45
## 1379 41031         5.83 86.98           1       80687.54           66140.95
## 1380 46035         1.91 92.09           2       68532.03           72234.13
## 1381 38045         1.88 95.24           1       67031.83           80258.78
## 1382 40137         3.32 72.44           0       70243.90           62027.48
## 1383 40027         2.62 72.44           0       76862.44           79266.87
## 1384 19145         2.50 87.71           0       64548.81           66574.27
## 1385 51031         3.21 93.76           1       70038.32           66010.54
## 1386 30057         2.27 91.52           2       78448.68           67103.09
## 1387 26141         8.34 80.67           1       65957.20           59858.82
## 1388 27033         2.89 93.09           1       65775.62           68255.18
## 1389 45011         4.89 87.46           1       55049.87           52139.14
## 1390 19027         2.01 87.71           0       64252.14           82152.24
## 1391 42089         6.07 84.38           0       82043.00           79168.29
## 1392 26127         7.02 80.67           1       66049.63           58234.39
## 1393 22095         5.25 83.76           0       74718.69           65974.60
## 1394 20111         2.59 79.67           0       63507.79           67197.55
## 1395 47077         3.78 84.90           1       58983.54           58426.40
## 1396 51171         2.89 93.76           1       71245.71           70681.57
## 1397 19005         3.92 87.71           0       65182.80           70652.82
## 1398 48341         2.69 75.33           2       61434.39           60703.90
## 1399 45039         4.94 87.46           1       65358.08           49046.35
## 1400 31059         1.94 93.46           0       70154.52           83400.87
## 1401 28143         4.73 84.02           0       64310.59           42712.88
## 1402 46073         1.37 92.09           2       69221.38           70915.69
## 1403 13247         3.60 83.30           0       74967.41           70876.66
## 1404 13219         2.36 83.30           0       73917.36          108720.34
## 1405 40013         2.81 72.44           0       73443.10           58012.59
## 1406 21203         4.83 85.38           1       61054.02           52586.84
## 1407 21025         7.91 85.38           1       60451.35           38597.36
## 1408 20095         2.50 79.67           0       71244.20           77058.16
## 1409 51139         3.51 93.76           1       66655.41           64656.16
## 1410 29203         3.78 83.10           1       64873.14           45796.44
## 1411 37031         3.58 88.12           1       75490.86           73341.05
## 1412 48059         3.70 75.33           2       65381.67           65228.10
## 1413 21211         3.53 85.38           1       72621.15           80898.49
## 1414 21031         4.28 85.38           1       68359.62           55699.15
## 1415 40087         2.73 72.44           0       74136.61           80288.55
## 1416 30101         2.04 91.52           2       69685.84           65387.25
## 1417 20103         2.99 79.67           0       80385.86           88034.93
## 1418  1035         3.67 80.94           0       66418.39           49227.07
## 1419 19087         2.99 87.71           0       63481.12           69092.05
## 1420 27057         4.38 93.09           1       65204.64           69952.52
## 1421 17061         4.28 80.20           0       69121.71           60582.74
## 1422 55119         3.48 87.89           0       74529.17           67585.69
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## 1423 56039         2.80 89.85          2      109103.36          113635.76
## 1424 12041         3.12 85.42          3       66767.92           51923.51
## 1425 38061         1.56 95.24          1       65826.43           88253.65
## 1426 31143         2.06 93.46          0       79329.23           79611.88
## 1427  8125         2.06 73.82          4       67536.52           54692.86
## 1428 28057         3.54 84.02          0       59766.46           54612.77
## 1429 28025         4.30 84.02          0       60755.30           43734.57
## 1430 20051         2.02 79.67          0       64121.50           80334.77
## 1431  6063         6.94 68.46          9       78186.73           76149.42
## 1432 17017         4.38 80.20          0       67991.31           63010.15
## 1433 48449         4.51 75.33          2       59825.87           56186.89
## 1434 45067         5.12 87.46          1       56336.44           42462.34
## 1435 22121         3.37 83.76          0       74066.63           78227.72
## 1436  1087         3.95 80.94          0       66677.84           50030.05
## 1437 45001         4.03 87.46          1       59187.77           53251.20
## 1438 30043         2.60 91.52          2       78657.35           83649.36
## 1439 35053         4.49 68.34          2       66091.13           50720.07
## 1440 29055         2.90 83.10          1       65735.79           54524.46
## 1441 51061         2.63 93.76          1       93809.17          124632.04
## 1442 47049         3.92 84.90          1       59650.60           45324.10
## 1443 18047         2.73 84.53          1       66247.02           73186.00
## 1444 47069         4.39 84.90          1       57850.62           49873.97
## 1445 31127         2.42 93.46          0       71806.23           74488.02
## 1446 12059         3.17 85.42          3       65813.18           52453.36
## 1447 18151         2.20 84.53          1       66949.51           72807.10
## 1448 18073         3.43 84.53          1       78099.65           75953.30
## 1449 37077         3.28 88.12          1       68164.23           69095.13
## 1450 19109         2.34 87.71          0       66742.37           69462.73
## 1451 19105         3.29 87.71          0       66868.79           76999.63
## 1452 16029         2.86 88.17          1       67895.55           67128.75
## 1453 16007         2.65 88.17          1       68051.43           68784.00
## 1454 21135         7.73 85.38          1       61842.05           45768.72
## 1455 36021         2.81 89.99          0       81667.20           81915.05
## 1456 19139         3.05 87.71          0       66459.57           73474.54
## 1457 42109         4.47 84.38          0       69192.81           69933.02
## 1458 21081         3.89 85.38          1       71716.76           59255.05
## 1459 35019         5.90 68.34          2       66167.16           43576.45
## 1460 27161         3.61 93.09          1       66852.47           73051.48
## 1461  2240         5.48 87.86          8       86676.13           87256.59
## 1462 12043         3.32 85.42          3       71220.10           50057.77
## 1463 48331         4.44 75.33          2       62290.95           61966.90
## 1464 40111         4.37 72.44          0       68769.92           54947.52
## 1465 29015         3.75 83.10          1       65666.45           53584.92
## 1466 19149         2.13 87.71          0       69562.27           82945.98
## 1467 40119         2.86 72.44          0       71900.04           65170.59
## 1468 54007         6.50 89.50          1       74943.54           50830.97
## 1470 51730         5.98 93.76          1       73880.27           48183.81
## 1471 20177         2.82 79.67          0       71257.27           76753.20
## 1472 45059         3.49 87.46          1       58956.21           53679.39
## 1473 19059         2.87 87.71          0       66982.01           81017.60
## 1474 55137         3.53 87.89          0       70582.80           66457.21
## 1475 40081         3.14 72.44          0       70529.68           65343.10
## 1476 27079         3.71 93.09          1       87207.66           90169.70
## 1477 13031         3.51 83.30          0       61950.17           58768.34
```

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## 1478 28105        4.27 84.02          0       63104.46          67771.55
## 1479 37133        4.46 88.12          1       73489.25          58307.29
## 1480 46003        1.91 92.09          2       68946.74          75728.42
## 1481 17015        4.00 80.20          0       66921.17          70213.34
## 1482 27089        4.18 93.09          1       66233.40          78225.66
## 1483 17129        3.75 80.20          0       76243.57          93451.44
## 1484 56031        3.60 89.85          2       80567.74          69560.27
## 1485 19057        4.36 87.71          0       65297.47          68691.58
## 1486 30093        2.97 91.52          2       73825.39          67459.39
## 1487 18027        2.36 84.53          1       63362.70          67837.27
## 1488  1065        4.05 80.94          0       65660.72          55991.80
## 1489 56003        4.30 89.85          2       79883.33          66120.41
## 1490 21021        4.08 85.38          1       63047.22          64558.61
## 1491 39111        6.83 82.83          1       64757.37          57083.31
## 1492 47081        2.98 84.90          1       65735.02          54046.99
## 1493 48499        4.70 75.33          2       63379.03          65908.88
## 1494 54103        5.90 89.50          1       73706.79          53818.01
## 1495 37011        3.36 88.12          1       69272.80          50981.91
## 1496  5059        3.64 88.42          1       60535.07          55575.93
## 1497 53031        5.88 92.89          3       76396.95          68263.40
## 1498 18079        3.37 84.53          1       65260.55          66128.63
## 1499 48117        3.06 75.33          2       63620.89          57188.05
## 1500  5111        3.50 88.42          1       60196.78          50856.64
## 1501 21173        4.68 85.38          1       62380.17          59857.80
## 1502  2090        3.82 87.86          8       93375.73          92407.16
## 1503  8071        4.87 73.82          4       68590.88          56722.90
## 1504 17087        5.67 80.20          0       71533.90          65122.34
## 1505 21085        4.78 85.38          1       64325.37          47106.67
## 1506 39105        6.21 82.83          1       64388.31          56090.37
## 1507 27165        2.60 93.09          1       66857.99          71126.19
## 1508 31033        2.60 93.46          0       79288.28          76082.68
## 1509 35057        5.69 68.34          2       66469.14          51122.59
## 1510 18175        2.73 84.53          1       68168.24          62726.75
## 1511 37125        3.81 88.12          1       72079.52          78614.83
## 1512 48507        9.38 75.33          2       57638.79          37248.11
## 1513 22053        3.62 83.76          0       65964.18          61899.13
## 1514 20175        2.63 79.67          0       64758.16          52010.79
## 1515 28153        5.12 84.02          0       60172.98          55572.85
## 1516 18041        4.61 84.53          1       63477.56          55706.34
## 1517 37189        3.36 88.12          1       73774.62          75930.70
## 1518 21113        3.34 85.38          1       71876.73          71029.66
## 1519 47057        3.99 84.90          1       60398.42          53532.55
## 1520 54043        5.28 89.50          1       82901.07          50281.62
## 1521 35027        4.19 68.34          2       67999.94          61200.89
## 1522 32033        3.16 81.21          2       73816.02          74175.86
## 1523 12003        2.83 85.42          3       64611.61          74980.89
## 1524 45035        2.99 87.46          1       73678.06          80913.89
## 1525 28099        4.58 84.02          0       59404.13          49441.68
## 1526 48371        4.20 75.33          2       65863.75          62824.30
## 1527 29063        2.65 83.10          1       65200.34          72451.82
## 1528 31027        1.94 93.46          0       78701.84          77367.23
## 1529 27135        2.62 93.09          1       62995.87          77623.95
## 1530 28031        3.64 84.02          0       60364.96          45023.24
## 1531 17035        3.53 80.20          0       67970.59          72935.45
```

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## 1532 46091         2.86 92.09          2       69725.76          76835.34
## 1533 16087         3.40 88.17          1       65345.41          50075.23
## 1534 49029         2.02 72.91          5       85272.12          99294.08
## 1535  5023         4.43 88.42          1       62320.84          56549.36
## 1536 47129         3.96 84.90          1       61882.65          50814.54
## 1537 37117         4.64 88.12          1       67546.00          48493.91
## 1538 47109         4.80 84.90          1       59140.87          51199.60
## 1539 55069         3.15 87.89          0       71146.33          75255.05
## 1540 19147         2.58 87.71          0       64786.47          73005.28
## 1541 19191         3.22 87.71          0       66788.16          84009.77
## 1542 47063         3.78 84.90          1       61427.38          56017.47
## 1543 37157         4.32 88.12          1       62400.62          56187.92
## 1544 37161         4.96 88.12          1       64234.12          55196.01
## 1545 40123         2.84 72.44          0       67599.73          65150.06
## 1546 55029         3.23 87.89          0       74157.74          76052.90
## 1547 19179         3.35 87.71          0       61782.43          60364.02
## 1548 48133         4.77 75.33          2       59867.74          51283.80
## 1549 13015         2.96 83.30          0       70937.07          67339.25
## 1550 13129         2.92 83.30          0       60785.44          53085.88
## 1551 36109         2.85 89.99          0       97221.49          88545.27
## 1552 21141         3.61 85.38          1       62133.58          58706.73
## 1553 32019         5.13 81.21          2       73663.31          69385.72
## 1554 45013         3.24 87.46          1       79360.96          81559.77
## 1555 16041         2.26 88.17          1       67615.78          66514.71
## 1556 55011         4.00 87.89          0       73361.10          71205.25
## 1557 48171         2.69 75.33          2       67189.70          75452.20
## 1558 17053         4.18 80.20          0       71954.63          68558.09
## 1559  6015         5.39 68.46          9       77919.53          58723.16
## 1560 16073         3.35 88.17          1       68076.32          53424.73
## 1561 19021         2.39 87.71          0       64226.83          71630.36
## 1562 55061         2.56 87.89          0       74519.00          83004.51
## 1563 39073         4.27 82.83          1       66788.32          68064.19
## 1564 48067         4.89 75.33          2       61893.97          55982.55
## 1565 29177         3.45 83.10          1       74722.08          78859.21
## 1566 21073         3.48 85.38          1       65951.77          73144.93
## 1567 51590         4.87 93.76          1       61227.46          48837.90
## 1568 17079         3.80 80.20          0       73604.83          69335.40
## 1569 20149         2.48 79.67          0       75312.32          80885.14
## 1570 13047         2.76 83.30          0       67192.71          69681.45
## 1571 40049         2.94 72.44          0       70043.59          59706.86
## 1572 54069         4.15 89.50          1       75768.06          73702.49
## 1573 47045         3.70 84.90          1       59572.16          57273.28
## 1574 22007         4.81 83.76          0       66504.98          61636.26
## 1575 18147         2.70 84.53          1       65351.91          76396.88
## 1576 48399         3.41 75.33          2       60679.93          56510.34
## 1577 31177         2.21 93.46          0       77196.82          88770.14
## 1578 54047         6.71 89.50          1       77692.63          32785.53
## 1579  8099         2.91 73.82          4       64609.17          50958.30
## 1580 39069         4.76 82.83          1       63969.98          73837.01
## 1581 31067         2.62 93.46          0       73732.06          74818.66
## 1582 47125         3.87 84.90          1       69500.00          69197.80
## 1583  5123         5.14 88.42          1       58775.34          44257.23
## 1584 19047         4.21 87.71          0       63528.35          73275.34
## 1585 19055         2.35 87.71          0       65180.79          78040.84
```

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## 1586 21119        6.48 85.38          1       61684.34          41134.65
## 1587 47183        3.59 84.90          1       57683.70          55245.29
## 1588 22037        3.25 83.76          0       68655.70          62858.18
## 1589 42035        5.65 84.38          0       68684.44          66246.71
## 1590  8083        3.91 73.82          4       68480.82          59350.55
## 1591 45061        4.88 87.46          1       58192.55          48466.19
## 1592 51027        4.97 93.76          1       65311.36          41970.49
## 1593 38049        3.34 95.24          1       67277.49          88443.61
## 1594 45055        3.38 87.46          1       64050.13          63838.80
## 1595 47181        4.73 84.90          1       61384.01          53306.65
## 1596 19183        2.66 87.71          0       69160.91          77571.57
## 1597  4011        2.94 68.39          3       66659.82          66232.34
## 1598 21231        5.22 85.38          1       62169.39          50186.12
## 1599 42047        5.14 84.38          0       66904.70          72066.76
## 1600 19085        2.73 87.71          0       70155.15          78711.35
## 1601 38099        3.25 95.24          1       64606.78          72667.45
## 1602 45073        3.18 87.46          1       57596.04          64164.30
## 1603 27117        2.60 93.09          1       65982.45          71229.90
## 1604 18181        2.56 84.53          1       66614.26          67183.17
## 1606 12119        4.23 85.42          3       68472.52          72456.95
## 1607 44005        2.88 89.94          0       94907.34         106276.49
## 1608 16053        2.54 88.17          1       68683.55          62488.53
## 1609 53019       10.66 92.89          3       64973.87          58375.06
## 1610 37049        3.82 88.12          1       78780.99          66244.66
## 1611 40047        3.00 72.44          0       71408.08          68599.16
## 1612 31173        3.49 93.46          0       73800.05          58738.56
## 1613 28023        4.94 84.02          0       59438.28          59783.87
## 1614 46025        2.36 92.09          2       69021.26          67201.66
## 1615 36095        3.74 89.99          0       83482.54          73198.32
## 1616 19043        3.98 87.71          0       63357.80          69784.13
## 1618 48221        3.90 75.33          2       72810.38          81502.27
## 1619 51069        2.49 93.76          1       83817.21          90785.80
## 1620 29153        3.86 83.10          1       65485.80          42182.02
## 1621 39001        5.68 82.83          1       60510.05          50041.34
## 1622 21205        4.80 85.38          1       61923.02          54871.53
## 1623 31089        1.92 93.46          0       79702.35          75178.04
## 1624 19119        1.85 87.71          0       65129.52          77244.02
## 1625 16047        2.42 88.17          1       67079.54          61329.24
## 1626 37087        3.30 88.12          1       72576.65          67951.24
## 1627 13077        2.74 83.30          0       77074.49          88840.99
## 1628 13275        3.66 83.30          0       64568.16          57419.09
## 1629 29143        3.07 83.10          1       64419.64          48116.04
## 1630 55129        3.84 87.89          0       71891.28          67513.81
## 1631 19121        3.22 87.71          0       71278.32          83066.12
## 1632 31107        2.35 93.46          0       78259.25          67426.53
## 1633 46127        2.26 92.09          2       73757.09          98015.68
## 1634  5063        3.47 88.42          1       58757.07          55982.55
## 1635 29007        3.06 83.10          1       65362.26          55012.21
## 1636 47061        4.74 84.90          1       61285.48          51765.38
## 1637 42065        5.11 84.38          0       63589.66          61822.12
## 1638  8021        3.30 73.82          4       66940.36          48022.60
## 1639  6043        4.68 68.46          9       76571.78          61921.72
## 1640 29161        2.53 83.10          1       64744.06          63649.87
## 1641 18179        2.36 84.53          1       69974.57          73693.25
```

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## 1642 17131         4.31 80.20          0       70170.59          76254.16
## 1643 30067         2.80 91.52          2       80568.69          76416.39
## 1644 26047         5.89 80.67          1       68885.69          72631.52
## 1645  1099         4.27 80.94          0       64845.01          50684.13
## 1646 30087         3.57 91.52          2       70811.81          71449.64
## 1647 12027         3.39 85.42          3       63982.87          43037.36
## 1648 28127         3.92 84.02          0       64059.53          52857.93
## 1649 12029         3.37 85.42          3       65215.91          46576.83
## 1650 54029         5.15 89.50          1       73794.74          60793.23
## 1651 47107         4.22 84.90          1       61643.85          56400.47
## 1652 18021         3.46 84.53          1       70054.46          68246.97
## 1653  6005         4.62 68.46          9       87006.24          79965.10
## 1654 18069         2.72 84.53          1       64653.15          67793.11
## 1655 37141         3.58 88.12          1       75342.41          74360.69
## 1656 53043         5.69 92.89          3       64042.12          64026.71
## 1657 27011         3.36 93.09          1       68396.66          72433.34
## 1658 31151         2.65 93.46          0       71688.31          65438.60
## 1659 29013         2.78 83.10          1       69834.62          64823.53
## 1660 17189         2.48 80.20          0       72164.04          80728.04
## 1661 48147         3.61 75.33          2       62997.26          70378.66
## 1662 19127         5.54 87.71          0       63370.90          70988.59
## 1663 29085         2.82 83.10          1       58600.36          49351.31
## 1664 19031         2.72 87.71          0       65969.92          86226.69
## 1665  5107         6.70 88.42          1       59767.75          39826.48
## 1666 19075         2.57 87.71          0       66629.03          82851.52
## 1667  8089         4.34 73.82          4       65761.72          54674.38
## 1668 30071         3.80 91.52          2       70596.40          60883.60
## 1669 29181         3.26 83.10          1       63715.39          44557.06
## 1670 37197         3.45 88.12          1       63958.65          57173.68
## 1671 49025         2.56 72.91          5       79487.16          72120.16
## 1672 45047         3.82 87.46          1       56350.59          55565.66
## 1673 18093         3.46 84.53          1       64832.42          67335.15
## 1674 17127         5.03 80.20          0       72125.07          62665.14
## 1675 56023         3.55 89.85          2       82786.30          83945.09
## 1676  2070         5.92 87.86          8       84669.68          57301.00
## 1677 37051         5.39 88.12          1       73230.39          57466.32
## 1678 27127         2.72 93.09          1       66914.73          70873.59
## 1679 47133         3.51 84.90          1       61337.85          54550.13
## 1680 20087         2.75 79.67          0       73739.20          81440.66
## 1681  5055         3.37 88.42          1       60795.04          58221.04
## 1682 18143         3.49 84.53          1       71080.90          61704.03
## 1683 39175         2.98 82.83          1       60891.77          69534.61
## 1684 26007         5.27 80.67          1       65175.67          57685.04
## 1685 41011         5.56 86.98          1       78281.43          60305.49
## 1686 18051         2.30 84.53          1       65405.58          73248.63
## 1687 42105         6.24 84.38          0       67070.34          59642.16
## 1688 17005         3.94 80.20          0       74333.39          78328.34
## 1689 29105         2.59 83.10          1       58447.75          57723.03
## 1690  1109         2.81 80.94          0       67633.43          58535.25
## 1691 19045         3.59 87.71          0       62849.34          69975.12
## 1692 17025         4.92 80.20          0       71358.92          58815.57
## 1693  5091         4.06 88.42          1       67189.71          57831.87
## 1694 36037         3.22 89.99          0       71480.37          80000.02
## 1695 28137         4.08 84.02          0       63440.95          62690.81
```

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## 1696 21109         5.99 85.38          1       61900.14          43832.13
## 1697 56041         3.98 89.85          2       79467.68          79810.05
## 1698 19029         2.53 87.71          0       63564.80          68206.92
## 1699 28007         4.44 84.02          0       60567.44          47172.39
## 1700 16043         2.52 88.17          1       70692.30          64309.09
## 1701 30083         2.70 91.52          2       78872.91          88563.75
## 1702 48227         5.32 75.33          2       66347.10          66959.33
## 1703 26069         6.85 80.67          1       65652.11          52030.30
## 1704 21175         5.56 85.38          1       61431.60          48605.84
## 1705 22047         4.61 83.76          0       70223.87          58761.15
## 1706  5071         4.31 88.42          1       59632.05          47222.70
## 1707 21047         5.03 85.38          1       68638.86          51776.68
## 1708 29159         2.63 83.10          1       64454.03          58281.62
## 1709 17145         5.19 80.20          0       72933.55          66306.27
## 1710  8075         2.85 73.82          4       68401.96          68296.26
## 1711 13073         2.90 83.30          0       75609.99          94539.88
## 1712 29061         2.48 83.10          1       63101.40          62312.94
## 1713 18077         2.87 84.53          1       63877.17          63435.26
## 1714 18183         2.48 84.53          1       70225.71          76611.49
## 1715  1061         2.46 80.94          0       64943.29          52019.01
## 1716 42123         4.90 84.38          0       64156.55          64592.49
## 1717 28091         3.97 84.02          0       59486.62          48156.09
## 1718 26029         4.97 80.67          1       71382.61          72828.66
## 1719 38077         1.95 95.24          1       65088.62          80515.48
## 1720 21177         6.03 85.38          1       60072.88          57218.86
## 1721 13295         3.11 83.30          0       67027.65          59007.59
## 1722 35037         4.54 68.34          2       63334.07          47490.70
## 1723 26101         6.29 80.67          1       66893.01          62706.21
## 1724 40115         2.88 72.44          0       68459.92          50228.22
## 1726 39079         5.23 82.83          1       64535.82          54617.90
## 1727 31003         1.96 93.46          0       77819.78          65682.98
## 1728  5005         3.71 88.42          1       61902.95          52002.58
## 1729 13297         2.86 83.30          0       74831.62          73772.32
## 1730 30053         5.01 91.52          2       72998.63          51845.47
## 1731 47051         3.66 84.90          1       61003.72          61938.15
## 1732 22039         4.28 83.76          0       64450.09          43795.16
## 1733 53049         7.32 92.89          3       77055.33          63035.82
## 1734 55031         4.25 87.89          0       74806.19          70475.18
## 1735 48473         4.49 75.33          2       71875.75          75866.02
## 1736  1113         2.67 80.94          0       71282.96          55667.32
## 1738 37037         3.19 88.12          1       74828.97          86215.40
## 1739 39125         3.63 82.83          1       63565.73          68396.88
## 1740 40097         3.23 72.44          0       74031.42          61563.36
## 1741 51023         2.62 93.76          1       80979.53          88140.70
## 1742 49007         3.64 72.91          5       71185.12          65240.42
## 1743 47173         3.93 84.90          1       63274.07          54028.51
## 1744 47151         5.13 84.90          1       58991.93          46039.80
## 1745 26105         5.60 80.67          1       63866.05          66038.27
## 1746 48131         4.66 75.33          2       60513.90          53322.05
## 1747 27157         2.67 93.09          1       79962.83          82619.45
## 1748 47043         3.05 84.90          1       67701.22          65629.59
## 1749 41009         5.05 86.98          1       88189.02          80321.41
## 1750 38055         3.15 95.24          1       65026.44          84142.23
## 1751 36057         4.19 89.99          0       71880.80          62247.22
```

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## 1752 39091         3.60 82.83          1       63160.08          73515.61
## 1753 28163         4.73 84.02          0       63341.87          46371.46
## 1754 16075         3.14 88.17          1       72153.78          63818.27
## 1755 55023         3.94 87.89          0       67016.26          67569.26
## 1756 37089         3.27 88.12          1       84891.87          73835.98
## 1757 47105         3.36 84.90          1       65364.69          70669.25
## 1758  1123         2.94 80.94          0       66921.89          57904.77
## 1759 27093         3.03 93.09          1       66577.86          80453.88
## 1760 48203         4.67 75.33          2       62074.72          66862.80
## 1761 19011         3.09 87.71          0       69086.08          83178.05
## 1762 46045         1.94 92.09          2       70950.17          83119.52
## 1763 22115         4.22 83.76          0       69990.19          60951.37
## 1764 13175         3.99 83.30          0       60118.93          46934.16
## 1765 29195         2.53 83.10          1       63132.04          58864.86
## 1766 27105         2.31 93.09          1       64579.25          68443.09
## 1767 41053         4.41 86.98          1       83712.17          78809.93
## 1768 28003         3.73 84.02          0       57904.50          54691.84
## 1769 28017         4.73 84.02          0       59333.90          47624.19
## 1770  1025         5.27 80.94          0       65798.00          54376.60
## 1771 24009         3.04 85.48          0       94395.58         126809.94
## 1772 56009         3.17 89.85          2       82025.31          84359.92
## 1773 47167         3.75 84.90          1       64303.72          71070.73
## 1774 18023         2.61 84.53          1       63424.02          66573.24
## 1775 12123         3.45 85.42          3       63426.95          51512.78
## 1776 29127         2.42 83.10          1       69029.66          63723.80
## 1777 51510         2.42 93.76          1      101532.09         133892.98
## 1778 36035         4.11 89.99          0       71535.45          62792.46
## 1779 40051         2.82 72.44          0       70442.03          74812.49
## 1780 51105         3.93 93.76          1       65283.28          48310.11
## 1781 16045         2.96 88.17          1       71974.60          57425.25
## 1782 18153         3.91 84.53          1       74413.79          63291.50
## 1783 46087         1.73 92.09          2       68187.20          78375.58
## 1784 13213         4.14 83.30          0       63439.58          56741.38
## 1785 46057         1.99 92.09          2       69943.87          73678.88
## 1786 21035         4.14 85.38          1       71612.19          60022.09
## 1787 31025         2.52 93.46          0       81495.35          90595.84
## 1788 28115         3.57 84.02          0       59423.59          55368.52
## 1789 46023         2.33 92.09          2       68371.66          62155.84
## 1790 54059         5.93 89.50          1       78491.04          45171.11
## 1791 36121         3.62 89.99          0       71069.23          72881.03
## 1792 22029         4.85 83.76          0       64238.73          47373.64
## 1793 19083         3.04 87.71          0       65072.38          71949.70
## 1794 54027         2.72 89.50          1       75585.30          56612.00
## 1795 18087         2.20 84.53          1       67864.31          74135.81
## 1796 48143         3.60 75.33          2       63636.11          76072.41
## 1797 48401         4.33 75.33          2       61995.65          65786.69
## 1798 27169         2.23 93.09          1       69847.40          80798.89
## 1799 47021         2.73 84.90          1       75150.10          73929.42
## 1800 48397         3.42 75.33          2       88697.47         115777.72
## 1801 29017         2.68 83.10          1       71995.18          58146.08
## 1802 36049         4.17 89.99          0       73348.76          64184.84
## 1803 21083         4.73 85.38          1       66198.73          61967.93
## 1804 16057         2.52 88.17          1       68345.54          72920.05
## 1805  1111         2.52 80.94          0       65459.64          56018.50
```

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## 1806 46125         1.90 92.09          2       70896.86          77056.11
## 1808 28071         3.28 84.02          0       70171.21          73548.47
## 1809  5139         5.03 88.42          1       61151.72          57669.63
## 1810 29003         2.16 83.10          1       75660.49          75624.71
## 1811 29033         2.69 83.10          1       61469.13          61203.96
## 1812  6009         3.78 68.46          9       88418.60          83174.96
## 1813 48369         2.48 75.33          2       61318.34          66743.70
## 1814 42099         3.77 84.38          0       74384.27          77354.91
## 1816 22109         4.03 83.76          0       70639.10          61998.73
## 1817 20139         2.88 79.67          0       70552.54          67287.91
## 1818 30001         2.38 91.52          2       72005.05          72938.53
## 1819 26009         6.19 80.67          1       68119.05          68512.91
## 1820 50005         3.22 90.10          0       76120.54          66743.70
## 1821 27159         4.31 93.09          1       62631.13          59177.01
## 1822 32013         3.43 81.21          2       77072.16          85489.43
## 1823 48279         4.11 75.33          2       61320.35          58590.70
## 1824 29009         2.82 83.10          1       60055.84          55388.02
## 1825 48071         5.57 75.33          2       69823.82         108279.84
## 1826 29135         2.31 83.10          1       68118.07          72617.14
## 1827 46009         1.94 92.09          2       69569.63          73161.36
## 1828 48321         6.27 75.33          2       62331.97          61672.20
## 1829 16039         2.98 88.17          1       68176.14          55778.22
## 1830  1085         5.48 80.94          0       67796.70          42555.78
## 1831  4012         4.94 68.39          3       77100.05          45610.59
## 1832 17125         4.73 80.20          0       68148.48          63292.53
## 1833 29115         3.03 83.10          1       59728.97          53599.29
## 1834 13217         3.54 83.30          0       73578.17          64460.03
## 1835  2170         4.83 87.86          8       87553.59          93137.23
## 1836 28051         7.07 84.02          0       59577.83          30767.82
## 1837 29025         2.83 83.10          1       67168.20          61110.52
## 1838 29213         4.19 83.10          1       66655.29          55411.64
## 1839 19015         2.32 87.71          0       66596.51          79540.00
## 1840 28101         4.47 84.02          0       58660.93          46842.78
## 1841 19023         2.87 87.71          0       65852.06          72553.48
## 1842 38089         1.93 95.24          1       71480.40          98664.63
## 1843 17023         4.33 80.20          0       68385.95          68402.02
## 1844  8014         2.67 73.82          4      108546.29         122209.76
## 1845 29029         3.24 83.10          1       66585.65          68965.74
## 1846 48177         3.35 75.33          2       61921.93          64081.13
## 1847 16067         2.44 88.17          1       65914.65          58761.15
## 1848 54077         4.19 89.50          1       82368.77          67385.46
## 1849 47031         3.49 84.90          1       61996.85          63448.61
## 1850 29107         2.70 83.10          1       70863.57          71816.21
## 1851 51001         3.38 93.76          1       65524.01          59259.16
## 1852  2185         5.28 87.86          8       88079.84          85656.80
## 1853 30105         2.56 91.52          2       73905.46          70141.46
## 1854 29175         2.62 83.10          1       64932.42          62251.33
## 1855 53039         6.19 92.89          3       80041.25          68787.08
## 1856 36077         3.57 89.99          0       75459.32          71243.24
## 1857 28085         3.85 84.02          0       59796.12          59593.90
## 1858 29023         3.02 83.10          1       64396.47          48673.61
## 1859  1021         2.32 80.94          0       71547.71          56401.50
## 1860 40041         3.02 72.44          0       68787.15          52887.70
## 1861 30017         2.49 91.52          2       74809.22          75209.88
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## 1862 46093         2.12 92.09          2       78833.00          75748.96
## 1863 54053         4.47 89.50          1       76915.29          56772.18
## 1864 30015         2.34 91.52          2       70883.00          55164.18
## 1865  1091         3.54 80.94          0       66380.65          60636.13
## 1866 17187         4.08 80.20          0       68756.61          63321.28
## 1867 19065         3.25 87.71          0       64214.56          64324.49
## 1868 18163         3.12 84.53          1       73281.09          68162.77
## 1869 55049         2.66 87.89          0       75629.94          83614.45
## 1870 29101         2.72 83.10          1       63779.48          71152.88
## 1871 40125         3.56 72.44          0       69059.45          61997.70
## 1872  8107         2.60 73.82          4       88074.91          97519.73
## 1873 55085         3.42 87.89          0       71623.00          74454.13
## 1874 55083         3.21 87.89          0       71342.70          74126.57
## 1875 48259         3.22 75.33          2       79947.27         104523.70
## 1876 47089         3.78 84.90          1       62106.94          61194.73
## 1877 36079         3.02 89.99          0      130231.34         125987.45
## 1878 21183         5.15 85.38          1       61022.35          52645.37
## 1879  8067         3.09 73.82          4       81391.73          93535.64
## 1880 22057         3.52 83.76          0       69868.36          68668.99
## 1881 49051         2.37 72.91          5       84458.68          99946.11
## 1882 39031         5.13 82.83          1       62488.78          57700.44
## 1883 49027         2.32 72.91          5       74001.94          69964.84
## 1884 28093         4.24 84.02          0       60647.40          51422.42
## 1885 36023         3.92 89.99          0       72620.69          72074.98
## 1886 48073         4.62 75.33          2       61188.10          59055.85
## 1887 37181         6.17 88.12          1       63292.80          50689.27
## 1888 49015         3.40 72.91          5       72325.25          71919.92
## 1889 12049         4.01 85.42          3       69105.33          50667.70
## 1890 21209         3.12 85.38          1       76757.99          83633.95
## 1891 48255         3.42 75.33          2       62278.05          74725.21
## 1892 31001         2.28 93.46          0       77192.59          72584.28
## 1893 48097         3.47 75.33          2       64721.59          74995.27
## 1894 51680         4.07 93.76          1       70634.64          63529.73
## 1895 35035         4.29 68.34          2       65450.55          54801.71
## 1896 36011         3.54 89.99          0       73149.80          73835.98
## 1897 35029        11.02 68.34          2       63546.60          44444.11
## 1898 37107         3.81 88.12          1       66863.91          51762.30
## 1899 18083         2.72 84.53          1       63810.49          65372.88
## 1900 41001         4.98 86.98          1       75865.42          59848.55
## 1901 17033         4.28 80.20          0       71407.01          65640.88
## 1902 27083         2.56 93.09          1       64968.16          76807.62
## 1903 26035         7.50 80.67          1       67267.46          49955.09
## 1904 39161         3.46 82.83          1       61668.49          67089.73
## 1905 46005         1.98 92.09          2       67465.24          67270.45
## 1906 13285         3.07 83.30          0       62398.13          60429.74
## 1907 37169         3.45 88.12          1       65058.02          60609.43
## 1908 40015         3.34 72.44          0       71560.55          59067.14
## 1909 29217         2.57 83.10          1       62899.54          55176.50
## 1910 13185         3.38 83.30          0       66010.07          57585.43
## 1911 47029         5.40 84.90          1       59112.81          45188.56
## 1912 29053         2.45 83.10          1       64912.73          67056.88
## 1913 48123         3.55 75.33          2       62502.60          72567.85
## 1914 42061         5.97 84.38          0       67325.19          65400.61
## 1915 28001         5.44 84.02          0       58994.61          40565.79
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## 1916 31041        1.75 93.46          0       77395.38          60944.18
## 1917 21051        5.96 85.38          1       61590.66          36459.51
## 1918 48481        3.95 75.33          2       60823.08          63081.00
## 1919 24015        3.44 85.48          0       77471.59          94147.63
## 1920 49023        2.00 72.91          5       71901.88          70976.27
## 1921 45021        4.28 87.46          1       56864.46          52962.66
## 1922 47115        4.04 84.90          1       63402.24          59524.08
## 1923 45027        4.26 87.46          1       55388.16          55169.31
## 1924 19167        1.90 87.71          0       65559.12          83217.06
## 1925 27119        3.05 93.09          1       76818.63          84836.37
## 1926 21163        4.63 85.38          1       69732.10          74237.47
## 1927 18135        3.08 84.53          1       63096.47          61432.95
## 1928 38005        2.98 95.24          1       64986.17          56436.41
## 1929 54097        5.06 89.50          1       77187.90          56748.57
## 1930 46077        1.93 92.09          2       70137.51          73825.71
## 1931 13115        3.23 83.30          0       65614.87          61637.29
## 1932 41025        5.11 86.98          1       74685.40          53965.87
## 1933 53045        6.76 92.89          3       70878.28          71083.06
## 1934 20041        2.87 79.67          0       65542.03          65084.34
## 1935 17041        3.39 80.20          0       69888.51          70870.51
## 1936 45031        3.68 87.46          1       59225.03          54182.53
## 1937 29221        3.30 83.10          1       59846.31          51260.18
## 1938 20113        1.96 79.67          0       66012.26          73652.18
## 1939 42121        5.29 84.38          0       61654.51          63474.28
## 1940 29121        2.59 83.10          1       65194.57          57967.41
## 1941 49013        3.29 72.91          5       76743.76          72346.05
## 1942  1007        2.57 80.94          0       73362.21          59443.99
## 1943 17083        3.62 80.20          0       73456.26          86755.51
## 1944 39171        3.53 82.83          1       62048.51          65876.02
## 1945 51165        2.62 93.76          1       76965.35          74238.50
## 1946 28073        3.15 84.02          0       70177.58          80898.49
## 1947 24037        3.17 85.48          0       84087.87         110684.66
## 1948  1045        2.69 80.94          0       67089.65          58943.92
## 1949 13223        2.68 83.30          0       79005.83          78397.14
## 1950 48219        3.79 75.33          2       61744.52          58125.54
## 1951 36015        3.79 89.99          0       81684.38          71830.59
## 1952  8039        2.48 73.82          4       92457.65         114597.89
## 1953 46011        2.12 92.09          2       71049.89          89316.41
## 1954 19013        3.00 87.71          0       69219.29          74342.20
## 1955 26073        5.12 80.67          1       65116.15          65256.85
## 1956 56029        3.71 89.85          2       84760.92          76556.04
## 1957 39039        4.11 82.83          1       62097.74          72507.27
## 1958 37167        3.41 88.12          1       63871.53          66397.66
## 1959 31037        2.01 93.46          0       71419.92          69273.79
## 1960 51035        3.66 93.76          1       67294.32          57871.91
## 1961 39053        4.93 82.83          1       62894.23          62229.77
## 1962 30073        2.65 91.52          2       71390.87          66244.66
## 1963 27047        2.76 93.09          1       67120.83          66021.84
## 1964 12007        3.23 85.42          3       65001.62          56017.47
## 1965 53009        6.40 92.89          3       74550.62          70764.74
## 1966 29155        3.95 83.10          1       64301.08          45501.74
## 1967 12129        2.58 85.42          3       68361.26          72819.42
## 1968 19099        3.10 87.71          0       66058.66          72510.35
## 1969  1079        2.47 80.94          0       66946.92          56912.86
```

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## 1970 51019         2.95 93.76          1       74589.11          78589.16
## 1971  6105         4.81 68.46          9       75684.23          51458.36
## 1972  1059         2.40 80.94          0       64483.50          52598.14
## 1973 27115         4.65 93.09          1       65888.10          68106.29
## 1974 51179         2.96 93.76          1       98815.13         123842.41
## 1975  5085         2.92 88.42          1       69577.94          72089.35
## 1976 36031         3.71 89.99          0       74782.33          70327.31
## 1977 42115         4.42 84.38          0       70430.94          68341.44
## 1978 17123         4.86 80.20          0       73265.04          74521.90
## 1979 30099         2.74 91.52          2       73281.71          66199.48
## 1980 21157         4.24 85.38          1       69812.48          76260.32
## 1981 37127         5.24 88.12          1       66520.09          65243.50
## 1982 54051         5.27 89.50          1       74516.40          61965.87
## 1983 24023         3.57 85.48          0       62791.03          67678.10
## 1984 22069         4.09 83.76          0       66189.40          49921.20
## 1985 46029         2.04 92.09          2       68282.82          76524.21
## 1986 19061         2.92 87.71          0       68501.71          81791.83
## 1987 47035         4.45 84.90          1       60987.55          58248.76
## 1988 22061         3.63 83.76          0       68089.35          56342.97
## 1989 28107         4.90 84.02          0       60076.05          46794.52
## 1990 16069         2.64 88.17          1       70091.88          75763.34
## 1991  6051         3.88 68.46          9       87315.58          73730.22
## 1992 40021         3.65 72.44          0       69557.52          57644.99
## 1993 42059         5.63 84.38          0       64092.60          72958.05
## 1994 24017         3.44 85.48          0       95591.77         114600.98
## 1995 22009         4.35 83.76          0       64819.82          50716.99
## 1996 51003         2.73 93.76          1       90203.19         105842.15
## 1997 51800         3.22 93.76          1       84120.54          89384.18
## 1998 36113         3.56 89.99          0       88615.04          82548.60
## 1999 27091         2.78 93.09          1       65788.74          70716.48
## 2000 26041         5.90 80.67          1       69515.33          61237.85
## 2001 30095         2.30 91.52          2       74130.89          82390.47
## 2002 51185         4.42 93.76          1       63585.68          54892.07
## 2003 26133         4.96 80.67          1       61664.14          54039.80
## 2004 30009         2.71 91.52          2       75255.12          75985.13
## 2005 28117         3.44 84.02          0       58907.49          51666.80
## 2006 27009         3.56 93.09          1       74238.91          73718.92
## 2007 42117         5.18 84.38          0       68170.79          62788.36
## 2008 48055         3.58 75.33          2       72779.97          63771.03
## 2009 55033         3.21 87.89          0       75443.89          75828.02
## 2010 40131         2.99 72.44          0       76087.38          79598.53
## 2011 29091         3.03 83.10          1       57224.79          48416.90
## 2012  1133         2.50 80.94          0       65623.74          49169.57
## 2013 37135         3.13 88.12          1       84151.01         107797.23
## 2014 55081         2.74 87.89          0       72608.07          73596.73
## 2015  1031         2.60 80.94          0       71050.18          69363.13
## 2016 18043         2.54 84.53          1       72937.69          84220.27
## 2017 45089         5.01 87.46          1       56143.30          48268.01
## 2018 29209         3.91 83.10          1       61399.78          58447.96
## 2019 18169         2.80 84.53          1       65236.86          65706.60
## 2020 36111         3.26 89.99          0      100366.26          85049.95
## 2021 18029         2.68 84.53          1       71827.18          80670.53
## 2022 37065         6.99 88.12          1       68458.89          46212.30
## 2023 37045         4.00 88.12          1       62472.65          53794.39
```

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## 2024 26107         5.87 80.67          1       62262.64           60605.33
## 2025 31155         2.12 93.46          0       78308.06           85891.95
## 2026 15007         3.74 99.35          2      111040.89           95085.12
## 2027 48025         6.18 75.33          2       65963.13           51292.02
## 2028 13045         3.16 83.30          0       76970.65           66174.83
## 2029 41033         5.88 86.98          1       87035.28           55987.69
## 2030 13153         3.20 83.30          0       69209.86           73949.96
## 2031 30047         3.13 91.52          2       72730.38           59389.57
## 2032 49037         4.58 72.91          5       73292.56           54156.86
## 2033 39117         4.04 82.83          1       68998.02           72042.12
## 2034 54061         3.53 89.50          1       84498.89           81618.30
## 2035 26165         5.15 80.67          1       63295.27           57393.41
## 2036 51121         2.84 93.76          1       81665.56           84702.88
## 2037  1093         2.55 80.94          0       66540.11           49576.19
## 2038 21145         4.18 85.38          1       68785.56           66763.20
## 2039 47113         3.55 84.90          1       64534.52           59989.23
## 2040 40089         4.12 72.44          0       69868.46           48842.01
## 2041 42025         5.36 84.38          0       72172.09           72493.92
## 2042 46013         2.30 92.09          2       65493.32           82747.80
## 2043 40135         3.56 72.44          0       69191.86           50230.28
## 2044 29081         2.47 83.10          1       66137.00           54925.95
## 2045 27055         2.33 93.09          1       78615.21           79818.27
## 2046 29229         2.81 83.10          1       57950.86           43880.38
## 2047 29215         3.06 83.10          1       59790.49           47655.00
## 2048 12023         3.32 85.42          3       66676.75           62543.97
## 2049 12079         3.39 85.42          3       65062.84           49411.89
## 2050 40037         3.63 72.44          0       72015.40           64549.37
## 2051 18107         2.57 84.53          1       65064.34           68813.77
## 2052 46121         3.89 92.09          2       73348.34           25529.98
## 2053 22117         4.35 83.76          0       66545.45           48156.09
## 2054 49039         2.81 72.91          5       71397.14           63564.64
## 2055  2122         4.72 87.86          8       85686.17           90893.62
## 2056 31111         2.28 93.46          0       77893.18           76941.10
## 2057 27081         2.99 93.09          1       67694.67           72712.63
## 2058 19193         2.81 87.71          0       68399.74           72391.23
## 2059 47145         3.80 84.90          1       63475.64           71680.67
## 2060 23023         2.44 94.99          1       80371.77           80725.98
## 2061 29083         2.67 83.10          1       61522.96           60539.61
## 2062 45057         3.73 87.46          1       65374.30           73085.37
## 2063 53037         6.20 92.89          3       74133.39           79299.72
## 2064 48349         4.03 75.33          2       62018.12           59408.05
## 2065 18017         3.35 84.53          1       62462.48           65498.15
## 2066 36003         4.20 89.99          0       69914.07           61645.50
## 2067 18137         3.13 84.53          1       63763.20           72915.95
## 2068  5051         3.96 88.42          1       66832.84           60081.64
## 2069 42083         5.67 84.38          0       64090.92           64212.57
## 2070  6035         4.67 68.46          9       79986.83           68068.30
## 2071 31047         2.52 93.46          0       76840.07           64129.39
## 2072 22119         4.33 83.76          0       65923.69           39493.79
## 2073 37027         3.70 88.12          1       63317.22           56791.70
## 2074 51177         3.04 93.76          1       96121.16          102601.48
## 2075 28095         4.14 84.02          0       59104.17           57513.55
## 2076  8029         3.75 73.82          4       70550.39           63045.07
## 2077 27035         3.36 93.09          1       64551.53           72080.11
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## 2078  1039         2.70 80.94          0       65739.99          55480.44
## 2080 39021         3.88 82.83          1       64507.02          72476.46
## 2081 54019         4.90 89.50          1       77185.45          53137.22
## 2082 24001         4.20 85.48          0       61487.12          62822.25
## 2083 39065         4.41 82.83          1       61890.48          64491.86
## 2084 41003         3.69 86.98          1       90421.70          88029.80
## 2085 18067         5.26 84.53          1       69758.45          66264.16
## 2086 26043         4.55 80.67          1       72082.54          68626.89
## 2087 46033         2.92 92.09          2       70724.88          34518.81
## 2088 12121         3.35 85.42          3       63603.44          54550.13
## 2089 54109         4.53 89.50          1       80650.14          51970.75
## 2090 21133         6.50 85.38          1       61242.46          37841.62
## 2091 51167         3.70 93.76          1       65102.96          49938.66
## 2092 51197         3.15 93.76          1       64776.57          63653.97
## 2093 18033         2.72 84.53          1       64872.02          70514.20
## 2094 18099         2.63 84.53          1       65306.80          65753.84
## 2095 48049         4.53 75.33          2       62022.96          63549.24
## 2096 48497         3.64 75.33          2       74112.71          77097.18
## 2097 28133         6.13 84.02          0       57263.66          39091.27
## 2098 25001         4.98 89.76          0      106175.32          95838.81
## 2099 12075         3.61 85.42          3       63764.63          47944.56
## 2100 30081         2.92 91.52          2       78726.76          68012.85
## 2101 37109         3.25 88.12          1       70664.26          72602.77
## 2102 29225         2.24 83.10          1       63825.69          60057.00
## 2103 21043         7.58 85.38          1       61925.15          47483.52
## 2104 27103         2.05 93.09          1       84883.40          86135.30
## 2105  1053         3.21 80.94          0       64845.88          50277.51
## 2106 21107         4.55 85.38          1       62580.36          60177.14
## 2107 41035         6.38 86.98          1       75848.91          56430.25
## 2108 28109         4.04 84.02          0       62969.66          58753.96
## 2109 29027         2.35 83.10          1       70897.71          70760.63
## 2110 35017         4.29 68.34          2       67129.55          52941.10
## 2111 19125         2.10 87.71          0       66403.84          77707.12
## 2112 23007         3.71 94.99          1       68238.15          65329.75
## 2113 55045         2.49 87.89          0       71634.35          82011.57
## 2114 48183         4.44 75.33          2       63555.93          62751.39
## 2115 51161         2.63 93.76          1       80078.61          87174.45
## 2116 54035         4.52 89.50          1       72745.46          64825.58
## 2117 29069         4.21 83.10          1       64008.29          46550.13
## 2118 56033         3.45 89.85          2       84669.94          84028.26
## 2119 29147         2.24 83.10          1       66600.73          64310.11
## 2120 21093         4.26 85.38          1       70734.58          69983.33
## 2121 12055         4.35 85.42          3       64323.44          51050.71
## 2122 48361         6.07 75.33          2       65578.44          75767.44
## 2123 17165         5.30 80.20          0       70106.57          55953.80
## 2124  8087         3.34 73.82          4       68651.29          65011.44
## 2125 22099         3.80 83.76          0       66959.99          59555.91
## 2126 12131         2.62 85.42          3       73032.82          73703.52
## 2127 39123         5.54 82.83          1       64179.45          79600.58
## 2128 21095         6.68 85.38          1       61611.53          36086.77
## 2129 34033         4.83 83.74          0       81946.68          89635.75
## 2130  6027         3.85 68.46          9       78531.42          76379.43
## 2131 30049         2.43 91.52          2       78263.14          88288.55
## 2132 48485         4.07 75.33          2       67509.85          65570.03
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## 2133 50015         3.47 90.10          0       81830.77          78993.73
## 2134 54057         3.92 89.50          1       76974.68          63423.96
## 2135 18071         2.81 84.53          1       64614.72          63763.84
## 2136 37193         3.98 88.12          1       61040.64          57572.08
## 2137 28035         3.90 84.02          0       65893.84          52137.09
## 2138 12015         3.55 85.42          3       71948.61          64146.85
## 2139 29131         2.60 83.10          1       66288.48          60588.90
## 2140 16017         3.77 88.17          1       71345.50          67040.45
## 2141 18061         2.56 84.53          1       71112.70          75322.83
## 2142 35007         4.05 68.34          2       66009.55          52522.15
## 2143 54025         3.93 89.50          1       76639.90          52678.23
## 2144 37001         3.85 88.12          1       68124.34          66801.20
## 2145 48273         5.02 75.33          2       63939.71          53730.73
## 2146 18055         3.94 84.53          1       62881.32          63830.59
## 2147 12053         3.71 85.42          3       73006.80          58703.64
## 2148 27015         2.79 93.09          1       63839.97          80638.70
## 2149 18177         3.21 84.53          1       63550.23          59937.89
## 2150 40001         3.46 72.44          0       69181.08          44935.96
## 2151 29201         2.44 83.10          1       65881.25          55231.95
## 2152 21115         6.27 85.38          1       60717.01          48332.70
## 2153 27061         4.71 93.09          1       65697.82          70709.30
## 2154 12093         3.16 85.42          3       63437.94          49806.20
## 2155 17191         4.04 80.20          0       71456.77          63086.14
## 2156 51195         4.31 93.76          1       64806.50          51651.40
## 2157 49047         3.72 72.91          5       77783.98          75603.15
## 2158 12089         2.61 85.42          3       75523.92          83862.94
## 2159 21009         4.26 85.38          1       62145.27          49419.08
## 2160  5009         2.97 88.42          1       58791.26          54432.05
## 2161 12039         3.96 85.42          3       65978.52          52053.92
## 2162 46083         1.68 92.09          2       74553.76          97712.77
## 2163 32023         6.06 81.21          2       65526.69          58187.15
## 2164 51770         3.29 93.76          1       71434.14          56098.59
## 2165 47025         3.98 84.90          1       57974.18          50453.10
## 2166 56025         4.19 89.85          2       82881.04          79533.84
## 2167  5115         4.02 88.42          1       60985.01          56290.61
## 2168 55065         2.51 87.89          0       68255.79          72199.22
## 2169 38101         2.31 95.24          1       70363.89          89469.41
## 2170 36045         4.18 89.99          0       84814.99          64186.89
## 2171 47123         3.57 84.90          1       59328.91          55300.74
## 2172 27005         3.04 93.09          1       66040.57          73830.84
## 2173 36025         3.80 89.99          0       77203.34          66421.27
## 2174 38059         2.53 95.24          1       84016.23          95589.29
## 2175 20057         2.13 79.67          0       65952.80          60398.93
## 2176 47011         3.74 84.90          1       65551.86          63931.21
## 2177  2188         9.85 87.86          8       87789.31          60250.05
## 2178 22083         4.23 83.76          0       64715.85          45799.52
## 2179 27067         2.95 93.09          1       65490.46          74805.30
## 2180 47119         3.14 84.90          1       70998.97          69890.91
## 2181 27085         2.97 93.09          1       66047.91          82053.67
## 2182 42031         5.47 84.38          0       63560.07          62458.75
## 2183 53029         5.20 92.89          3       79068.40          79322.31
## 2184 18011         2.06 84.53          1       82818.15         105166.50
## 2185 12063         3.35 85.42          3       63651.63          53542.82
## 2186 55057         3.33 87.89          0       69908.73          66105.01
```

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## 2187 48467         3.60 75.33          2       64559.52          65720.98
## 2188 36107         3.32 89.99          0       82289.13          79990.77
## 2189 36117         3.30 89.99          0       79905.48          73069.97
## 2190 36053         3.48 89.99          0       78364.52          81244.53
## 2191 26109         4.46 80.67          1       71063.05          59551.80
## 2192 36017         3.38 89.99          0       68836.50          64342.97
## 2193 44009         2.84 89.94          0       83194.20         110523.45
## 2194 22101         4.44 83.76          0       67584.05          52235.67
## 2195 12051         4.97 85.42          3       64843.40          46288.29
## 2196 26027         4.66 80.67          1       72091.99          69113.61
## 2197 51173         3.28 93.76          1       64915.81          53997.70
## 2198 18085         2.58 84.53          1       66799.19          72224.89
## 2199 27147         2.92 93.09          1       68401.65          83825.97
## 2200  5131         3.20 88.42          1       64133.75          56582.22
## 2201 51143         3.24 93.76          1       67092.17          58802.22
## 2202  1083         2.14 80.94          0       72348.54          77252.23
## 2203 17007         6.83 80.20          0       73293.65          81081.27
## 2204 37159         3.75 88.12          1       68103.20          62372.50
## 2205 17149         4.34 80.20          0       68058.40          64211.54
## 2206 40113         3.73 72.44          0       72064.07          61957.66
## 2207 28067         4.31 84.02          0       59957.34          54430.00
## 2208 13097         3.36 83.30          0       75438.99          75780.79
## 2209 51740         4.02 93.76          1       76450.39          63014.26
## 2210 42037         4.70 84.38          0       73059.86          66716.99
## 2211 54005         4.75 89.50          1       81405.02          50345.28
## 2212 48463         4.57 75.33          2       58061.36          53047.89
## 2213 20155         2.91 79.67          0       64271.06          64453.87
## 2214 27021         4.39 93.09          1       64815.51          63809.02
## 2215 45043         3.88 87.46          1       63417.92          64465.16
## 2216 18065         3.26 84.53          1       64164.19          62038.78
## 2217 47099         3.60 84.90          1       60770.09          54853.05
## 2218 55071         2.87 87.89          0       67540.95          74558.87
## 2219 33001         2.59 94.99          0       72997.64          87885.02
## 2220  5093         5.54 88.42          1       57971.07          50307.29
## 2221 56021         3.66 89.85          2       81932.74          82057.77
## 2222 48265         3.72 75.33          2       63563.34          67776.68
## 2223 18173         2.65 84.53          1       78267.57          90004.38
## 2224 50019         4.60 90.10          0       73814.02          60752.16
## 2225 28027         5.96 84.02          0       57801.76          37576.70
## 2226 46079         2.10 92.09          2       69192.50          83139.02
## 2227 53075         4.90 92.89          3       68633.85          73667.58
## 2228 49041         2.92 72.91          5       71274.53          62783.23
## 2229  8085         3.47 73.82          4       70902.58          64660.26
## 2230 42005         5.55 84.38          0       67420.75          66452.08
## 2231 19181         2.49 87.71          0       71634.11          95191.91
## 2232 34041         3.58 83.74          0       84593.86         103354.15
## 2233 21121         5.62 85.38          1       60181.23          38549.10
## 2234 30005         3.25 91.52          2       71107.48          50137.86
## 2235 56005         3.69 89.85          2       88419.41          91476.85
## 2236 34009         6.94 83.74          0       88056.83          85940.20
## 2237 37023         3.56 88.12          1       63518.88          57314.35
## 2238 50003         3.30 90.10          0       76552.89          76159.69
## 2239 30085         3.58 91.52          2       73364.99          53043.78
## 2240 21179         3.92 85.38          1       64963.49          74260.06
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## 2241 27045         2.70 93.09          1       78082.28          80158.15
## 2242 36093         3.42 89.99          0       87444.75          87621.12
## 2243 55121         3.20 87.89          0       72496.11          73892.45
## 2244 12061         3.51 85.42          3       73471.35          71933.27
## 2245  1077         2.71 80.94          0       68246.74          67573.37
## 2246 55019         2.71 87.89          0       74818.93          66303.19
## 2247 56037         4.34 89.85          2       83748.88          90264.17
## 2248 47189         2.71 84.90          1       77361.93          89768.21
## 2249 51015         2.67 93.76          1       78003.55          75494.30
## 2250  1017         2.64 80.94          0       67647.72          55003.99
## 2251 50011         2.70 90.10          0       94847.45          83020.94
## 2252 21193         5.28 85.38          1       61176.53          45596.21
## 2253 54003         3.00 89.50          1       86372.23          74707.76
## 2254 29113         2.69 83.10          1       71320.57          76142.23
## 2255 33007         3.46 94.99          0       64681.81          64788.62
## 2256 39131         5.35 82.83          1       62829.56          59042.50
## 2257 20055         2.12 79.67          0       65199.46          71053.28
## 2258 31119         2.17 93.46          0       76347.99          71428.07
## 2259 18113         2.92 84.53          1       66545.10          68568.36
## 2260 18091         3.83 84.53          1       69601.94          69115.66
## 2261 54067         4.86 89.50          1       74917.63          50178.93
## 2262 36069         3.15 89.99          0       84462.46          85477.11
## 2263 39147         4.36 82.83          1       59515.87          65643.96
## 2264  1001         2.32 80.94          0       79873.47          73010.41
## 2265 48213         3.96 75.33          2       62489.18          59996.42
## 2266 47147         2.92 84.90          1       71222.44          73308.20
## 2267 39059         5.17 82.83          1       62836.07          56817.37
## 2268 51169         3.32 93.76          1       64010.33          53985.38
## 2269 26103         5.24 80.67          1       73232.03          70559.38
## 2270 39135         3.48 82.83          1       63553.62          73015.55
## 2271 55015         2.38 87.89          0       71886.51          93110.53
## 2272 18133         3.18 84.53          1       71404.63          75473.77
## 2273 37195         5.39 88.12          1       66996.82          60298.30
## 2274 36033         3.71 89.99          0       69541.50          65277.39
## 2275 47013         4.31 84.90          1       60026.06          49423.19
## 2276 18005         2.42 84.53          1       75883.49          79837.78
## 2277 19017         2.36 87.71          0       70212.12          88338.88
## 2278 48347         4.47 75.33          2       63434.66          59785.92
## 2279 47053         3.67 84.90          1       59412.62          56409.71
## 2280 54083         4.90 89.50          1       75876.99          58107.06
## 2281 28149         4.38 84.02          0       61718.15          57817.49
## 2282 22045         4.39 83.76          0       66359.39          56205.38
## 2283 27041         2.41 93.09          1       64135.32          81914.02
## 2285 45077         3.20 87.46          1       64828.88          66821.73
## 2286 35006         5.79 68.34          2       62948.58          52266.47
## 2287 30041         2.52 91.52          2       71828.36          63673.48
## 2288 21013         5.30 85.38          1       60581.59          33254.79
## 2289 18053         3.37 84.53          1       62950.46          57214.75
## 2290 30035         5.21 91.52          2       68899.28          49266.09
## 2291 27027         2.20 93.09          1       78810.45          87245.30
## 2292 48231         4.07 75.33          2       71640.73          68009.77
## 2293 21151         3.73 85.38          1       63303.62          68402.02
## 2294 29031         2.28 83.10          1       75107.64          71568.75
## 2295 53001         5.42 92.89          3       65154.26          57949.95
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## 2296 48489        8.91 75.33          2       57755.19          41038.13
## 2297 26033        6.79 80.67          1       65202.58          58791.95
## 2298 36051        3.40 89.99          0       80840.09          77126.96
## 2299  5145        3.63 88.42          1       61246.81          58649.22
## 2300  2198        5.82 87.86          8       77047.04          66447.97
## 2301 40121        4.48 72.44          0       70493.65          61718.41
## 2302 17107        4.37 80.20          0       66440.25          76454.39
## 2303 30003        4.59 91.52          2       74303.55          56685.93
## 2304 37083        5.87 88.12          1       67311.04          45918.63
## 2305 36009        4.20 89.99          0       67817.68          62638.44
## 2306 31141        2.15 93.46          0       79345.38          80117.08
## 2307 21185        3.37 85.38          1       77123.42         115581.59
## 2308 31053        2.22 93.46          0       71347.32          68556.04
## 2309 17147        3.54 80.20          0       77777.81          84909.27
## 2310 27059        3.47 93.09          1       89223.81          86892.07
## 2311 16065        1.87 88.17          1       68377.33          43553.86
## 2312 28083        5.67 84.02          0       57309.13          37621.88
## 2313 29051        2.00 83.10          1       67753.58          80024.66
## 2314 42097        5.21 84.38          0       66736.99          65194.21
## 2315 35055        5.14 68.34          2       73066.59          51373.13
## 2316  1049        2.40 80.94          0       66211.56          50571.18
## 2317 21071        6.17 85.38          1       61177.45          43162.63
## 2318  8037        2.69 73.82          4       92233.85          96674.65
## 2319 28011        5.04 84.02          0       58602.01          41026.84
## 2320 12107        4.22 85.42          3       62484.01          47676.56
## 2321 17173        4.24 80.20          0       70707.44          67285.86
## 2322 19103        2.31 87.71          0       78323.42          97596.73
## 2323  1033        3.12 80.94          0       69065.21          62369.41
## 2324 17133        2.88 80.20          0       79334.99         104011.32
## 2325 22113        3.66 83.76          0       67223.37          65086.39
## 2326 39009        5.04 82.83          1       64828.28          64532.94
## 2327 37191        4.22 88.12          1       71054.24          56049.30
## 2328 29109        2.50 83.10          1       60125.18          54567.59
## 2329 10005        4.62 77.02          0       78874.95          76750.11
## 2330 35047        5.20 68.34          2       65446.31          42677.97
## 2331 13313        3.94 83.30          0       64150.04          57704.54
## 2332 29167        2.49 83.10          1       61947.44          53915.55
## 2333 39101        4.60 82.83          1       65908.04          61247.09
## 2334 51191        3.01 93.76          1       70686.87          64928.27
## 2335 39027        4.58 82.83          1       60860.96          65227.07
## 2336 26061        5.09 80.67          1       70862.40          65154.17
## 2337 21089        6.16 85.38          1       69649.19          63218.60
## 2338 51650        4.00 93.76          1       79625.94          71542.05
## 2339 18037        2.29 84.53          1       64080.14          76467.73
## 2340 48199        5.43 75.33          2       63337.72          78188.70
## 2341 48325        3.95 75.33          2       66796.31          80678.75
## 2342 55111        2.89 87.89          0       69529.73          75948.16
## 2343 12087        1.89 85.42          3      103620.27          85818.02
## 2344 29021        2.45 83.10          1       72332.94          65332.83
## 2345 38015        1.97 95.24          1       81074.60          97655.27
## 2346 29165        2.23 83.10          1       80285.36         100689.54
## 2347 39075        2.92 82.83          1       63586.33          73228.10
## 2348 18167        3.68 84.53          1       72564.23          62397.14
## 2349 27017        3.74 93.09          1       79635.27          79121.05
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## 2350 19019         2.85 87.71          0       65013.73          79779.25
## 2351 17193         4.02 80.20          0       71813.54          62773.98
## 2352  1009         2.28 80.94          0       71970.74          63966.13
## 2353 26023         4.30 80.67          1       65689.96          63060.47
## 2354 39011         3.19 82.83          1       62889.56          81172.66
## 2355 46067         2.32 92.09          2       68448.32          77053.02
## 2356 17103         4.12 80.20          0       66392.88          77645.51
## 2357 13057         2.41 83.30          0       81605.31          98966.52
## 2358 55035         2.58 87.89          0       78754.20          81198.32
## 2359 39159         3.11 82.83          1       76337.61         102126.06
## 2360 42033         5.66 84.38          0       65324.66          62194.86
## 2361 27013         2.31 93.09          1       82456.66          81290.73
## 2362 47141         3.48 84.90          1       60159.24          58930.57
## 2363 42001         3.44 84.38          0       84387.84          83362.88
## 2364 21199         4.75 85.38          1       60694.17          54804.79
## 2365 46115         2.46 92.09          2       67559.57          72177.66
## 2366 42039         5.03 84.38          0       65005.52          63750.50
## 2367 18145         2.54 84.53          1       74061.86          76154.55
## 2368 49021         2.51 72.91          5       69890.94          65554.63
## 2369  6115         5.83 68.46          9       77589.82          69110.52
## 2370 39071         5.17 82.83          1       63331.55          58335.02
## 2371 31079         2.50 93.46          0       74342.02          71297.66
## 2372 50001         2.49 90.10          0       84676.86          86721.62
## 2373 25011         3.49 89.76          0       84174.85          83243.76
## 2374  6109         4.67 68.46          9       85072.16          77912.48
## 2375 39127         4.60 82.83          1       64535.79          61076.64
## 2376 40101         3.58 72.44          0       67749.05          56736.25
## 2377 39051         4.19 82.83          1       66995.37          75081.52
## 2378 16051         2.26 88.17          1       72273.58          70943.41
## 2379 39097         3.32 82.83          1       71056.22          79225.79
## 2380 47073         4.05 84.90          1       61500.62          53327.18
## 2381 55055         2.77 87.89          0       75308.02          81202.43
## 2382 27131         2.66 93.09          1       70934.45          86470.05
## 2383 26123         4.98 80.67          1       64382.98          60555.01
## 2384 47001         3.44 84.90          1       64063.24          63724.82
## 2385 39143         4.94 82.83          1       60023.13          68746.00
## 2386 19169         2.06 87.71          0       74376.38          90880.27
## 2387 42063         5.64 84.38          0       66402.41          67111.30
## 2388 17157         3.71 80.20          0       68391.19          71013.23
## 2390  5035         4.22 88.42          1       64507.77          52440.01
## 2391 17051         4.49 80.20          0       70684.26          59387.51
## 2392 51085         2.51 93.76          1       85680.64         107879.38
## 2393 33003         2.70 94.99          0       74812.51          78752.42
## 2394 10001         5.54 77.02          0       80183.76          72821.48
## 2395 42015         4.42 84.38          0       67009.95          66081.39
## 2396 48037         4.82 75.33          2       63541.56          63736.12
## 2398 55135         3.07 87.89          0       68886.81          74928.52
## 2399 39015         4.72 82.83          1       63128.45          66598.91
## 2400 55075         3.93 87.89          0       66861.32          62542.95
## 2401 45003         3.26 87.46          1       61225.61          64666.43
## 2402 40139         1.83 72.44          0       70469.27          62025.43
## 2403 42009         4.71 84.38          0       65187.91          63651.92
## 2404 33019         2.43 94.99          0       71213.93          80700.31
## 2405 23013         3.09 94.99          1       73498.83          73327.70
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## 2406 36115         3.34 89.99          0       89181.20          70658.98
## 2407 47019         3.77 84.90          1       61200.10          51702.75
## 2408 55095         3.97 87.89          0       75476.81          73691.20
## 2409 53017         5.60 92.89          3       77286.81          72097.56
## 2410 18105         2.88 84.53          1       77917.74          79141.59
## 2411 45051         4.05 87.46          1       64484.49          62654.87
## 2412 21019         5.40 85.38          1       66614.05          61963.82
## 2413 37025         3.50 88.12          1       74287.91          84125.80
## 2414 12017         4.31 85.42          3       68253.03          56364.54
## 2415 54045         4.46 89.50          1       77796.98          49352.34
## 2416 21015         3.23 85.38          1       82305.51          95481.48
## 2417 37147         4.25 88.12          1       74118.88          65777.45
## 2418 30027         2.91 91.52          2       74015.51          61074.59
## 2420 41071         4.02 86.98          1       91955.66          77960.74
## 2421 51550         3.03 93.76          1       85500.34          92981.15
## 2422 34011         5.34 83.74          0       84818.79          67857.80
## 2423 35015         3.42 68.34          2       74903.01          76509.84
## 2424 39033         5.01 82.83          1       61429.22          58314.48
## 2425 18059         2.64 84.53          1       77525.18          90046.48
## 2426 29097         2.38 83.10          1       65426.07          59521.00
## 2427 36043         4.07 89.99          0       73347.83          71906.58
## 2428 36083         3.15 89.99          0       89607.80          89855.49
## 2429 17067         4.06 80.20          0       69535.70          67415.23
## 2430 48189         5.17 75.33          2       60750.11          56754.73
## 2431 50017         2.64 90.10          0       81665.36          76865.12
## 2432 39149         3.64 82.83          1       62191.61          79387.00
## 2433 37151         3.78 88.12          1       63323.23          58720.07
## 2434 50023         2.50 90.10          0       83570.32          84438.98
## 2435 39043         5.12 82.83          1       62337.92          68958.55
## 2436 17181         5.33 80.20          0       72816.78          62663.09
## 2437 39055         4.20 82.83          1       70131.83         103149.81
## 2438 27095         4.71 93.09          1       79334.06          66148.13
## 2439 37101         3.42 88.12          1       74022.96          71270.97
## 2440 17109         4.30 80.20          0       67720.17          72367.62
## 2441 47059         4.14 84.90          1       59121.38          54307.80
## 2442 15009         3.60 99.35          2      109523.28          92012.85
## 2443 18157         2.91 84.53          1       74132.98          76715.20
## 2444 17049         3.06 80.20          0       72984.93          75177.02
## 2445 39005         4.00 82.83          1       61668.48          66593.77
## 2446 37171         3.56 88.12          1       63137.48          61083.83
## 2447 26059         4.81 80.67          1       64478.91          61828.28
## 2448 47179         3.34 84.90          1       63464.58          67423.45
## 2449 31019         2.03 93.46          0       76943.16          81899.65
## 2450  6011        13.13 68.46          9       77717.54          68704.93
## 2451 37155         5.81 88.12          1       63527.47          45283.03
## 2452 54099         4.13 89.50          1       81209.95          53795.42
## 2453 12113         2.76 85.42          3       75590.92          79213.47
## 2454 55141         3.45 87.89          0       69523.85          71662.19
## 2455 35009         3.33 68.34          2       69606.11          52388.66
## 2456 26015         4.01 80.67          1       70994.75          77261.47
## 2457 31157         2.71 93.46          0       78666.18          65342.07
## 2458 28113         5.08 84.02          0       58844.95          44587.87
## 2459 25003         4.56 89.76          0       86527.33          81352.34
## 2460  1127         2.83 80.94          0       68068.87          59071.25
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## 2461 16031         2.29 88.17          1       67857.36          60098.07
## 2462 48381         2.92 75.33          2       71508.88          86615.86
## 2463 22015         3.10 83.76          0       69284.46          69842.66
## 2464 50025         2.97 90.10          0       76625.64          74287.78
## 2465 55089         2.53 87.89          0       79370.51         106687.23
## 2466 48021         3.46 75.33          2       77830.21          78419.73
## 2467 26037         4.06 80.67          1       71911.47          88495.98
## 2468 23009         3.61 94.99          1       78226.02          74590.70
## 2469 46103         2.07 92.09          2       79387.94          74985.00
## 2470  1071         2.58 80.94          0       67544.41          54206.15
## 2471 55059         3.40 87.89          0       80184.28          81019.66
## 2472 54049         4.53 89.50          1       77086.06          64717.77
## 2473 22001         3.79 83.76          0       66328.31          58169.70
## 2474 55093         3.37 87.89          0       89162.89          92352.73
## 2475 55063         2.54 87.89          0       77765.15          81392.39
## 2476 26151         5.54 80.67          1       64006.57          58764.23
## 2477 37035         3.56 88.12          1       67134.01          65755.88
## 2478 39107         2.77 82.83          1       61036.31          74358.63
## 2479 17029         4.39 80.20          0       67222.57          62852.02
## 2480 55123         2.76 87.89          0       68797.80          67875.26
## 2481 48249         6.07 75.33          2       62172.24          56662.32
## 2482 39083         3.62 82.83          1       64375.54          70408.44
## 2483 12019         2.71 85.42          3       72919.52          76809.67
## 2484 45085         3.98 87.46          1       62665.48          54690.81
## 2485 23027         3.26 94.99          1       73761.90          66621.50
## 2486 54055         4.67 89.50          1       72389.52          52988.33
## 2487 21029         4.20 85.38          1       72743.14          75442.96
## 2488 53035         4.73 92.89          3       88040.71          91497.39
## 2489 18019         2.79 84.53          1       73941.19          71864.48
## 2490 20209         3.60 79.67          0       75127.92          56866.65
## 2491 42073         5.70 84.38          0       63232.21          66164.56
## 2492 21037         3.44 85.38          1       77418.88          85672.20
## 2493 38079         7.12 95.24          1       64926.39          54714.43
## 2494 27099         2.61 93.09          1       66815.07          72581.20
## 2495 17027         3.04 80.20          0       77375.12          82805.30
## 2496 28087         4.29 84.02          0       61754.43          64446.68
## 2498  6021         5.63 68.46          9       73847.44          59508.68
## 2499 56013         4.17 89.85          2       84305.31          71054.31
## 2500 19155         2.83 87.71          0       72156.79          75942.00
## 2501 22005         3.04 83.76          0       76990.89          95380.84
## 2502 39167         4.95 82.83          1       63451.84          65178.81
## 2503 27097         4.62 93.09          1       62714.10          72479.55
## 2504 45015         3.16 87.46          1       74048.77          74448.99
## 2505 39129         3.84 82.83          1       68157.17          78336.56
## 2506 36007         3.92 89.99          0       80305.63          70619.96
## 2507 29207         2.99 83.10          1       65614.52          53114.63
## 2508 39013         5.43 82.83          1       63776.80          67819.80
## 2509 28075         4.22 84.02          0       59639.25          53560.27
## 2510 39077         5.37 82.83          1       59929.53          66001.30
## 2511 37129         3.39 88.12          1       80082.36          78794.52
## 2512  5125         2.83 88.42          1       71239.66          80344.01
## 2513 48465         4.70 75.33          2       58726.70          51954.32
## 2514 42081         4.98 84.38          0       72200.68          68613.55
## 2515 28151         6.11 84.02          0       58521.44          40774.23
```

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## 2516 39081         5.76 82.83          1       64496.92          61654.74
## 2517 12005         2.76 85.42          3       72379.42          69290.22
## 2518 18109         2.85 84.53          1       77053.32          75874.23
## 2519 54081         3.83 89.50          1       77549.36          57283.54
## 2520 17045         3.53 80.20          0       67918.43          66861.78
## 2521 40079         3.83 72.44          0       69358.70          51260.18
## 2522 29043         2.08 83.10          1       68696.25          72407.66
## 2523 41059         4.83 86.98          1       77262.22          66698.52
## 2524 26057         4.87 80.67          1       63346.63          60368.13
## 2525 53027         7.20 92.89          3       69463.43          67163.66
## 2526 21059         4.02 85.38          1       74081.11          67418.32
## 2527 26111         4.54 80.67          1       71363.73          79358.25
## 2528 21235         4.58 85.38          1       59991.86          50891.55
## 2529 25015         3.50 89.76          0       93593.24          98470.56
## 2530 13095         4.51 83.30          0       63297.11          48077.02
## 2531 27025         3.18 93.09          1       91297.91          98094.74
## 2532 21125         4.34 85.38          1       59820.41          51713.01
## 2533 54011         3.67 89.50          1       83995.85          59372.11
## 2534 55097         3.01 87.89          0       71404.46          81541.28
## 2535 19163         3.30 87.71          0       68243.12          81872.95
## 2536 17177         4.71 80.20          0       66975.59          64018.50
## 2537 26017         5.47 80.67          1       66787.19          62841.75
## 2539 48375         3.31 75.33          2       65517.05          54113.73
## 2540 23017         3.42 94.99          1       68416.19          62239.01
## 2541 54079         3.42 89.50          1       88457.15          75859.85
## 2542 30013         2.70 91.52          2       73824.92          66136.84
## 2543 41045         4.59 86.98          1       71367.85          51497.38
## 2544 17135         4.78 80.20          0       68137.97          68615.59
## 2545 48041         3.18 75.33          2       67040.75          74160.46
## 2546 24043         3.44 85.48          0       66773.34          78509.06
## 2547 38105         2.31 95.24          1       70404.37         103350.04
## 2548  5069         5.49 88.42          1       63783.15          53527.41
## 2549 22105         4.52 83.76          0       70189.07          62035.70
## 2550 55005         3.46 87.89          0       73995.32          68349.65
## 2551 47009         3.22 84.90          1       65879.91          72639.73
## 2552 44003         2.97 89.94          0       79876.27          95529.73
## 2553 39141         3.99 82.83          1       63477.22          64898.49
## 2554 39137         3.12 82.83          1       63247.74          82929.55
## 2555 37021         3.06 88.12          1       90183.56          69427.81
## 2556 33005         2.77 94.99          0       72966.77          86163.02
## 2557 53015         6.02 92.89          3       75271.21          70254.41
## 2558 17085         3.83 80.20          0       69187.09          76945.21
## 2559  1115         2.25 80.94          0       78505.41          70827.38
## 2560 36101         3.76 89.99          0       71096.03          67739.71
## 2561 24025         3.06 85.48          0       81142.32         109701.98
## 2562 41019         5.56 86.98          1       85264.16          57524.85
## 2563 55101         3.64 87.89          0       75106.41          79186.77
## 2564 17021         4.83 80.20          0       67579.15          66614.31
## 2565 18035         3.66 84.53          1       68124.27          61300.49
## 2566 48005         4.80 75.33          2       63306.17          59067.14
## 2567 36019         3.45 89.99          0       74205.88          72953.94
## 2568 51710         3.66 93.76          1       77374.09          63679.64
## 2569  5045         3.02 88.42          1       69253.98          72333.73
## 2570 17095         5.46 80.20          0       67293.24          65005.28
```

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## 2571 36063         3.97 89.99          0       75788.08          76247.99
## 2572 50021         3.38 90.10          0       76814.82          76331.16
## 2573 27111         3.11 93.09          1       62382.33          75377.25
## 2574 51700         3.78 93.76          1       77033.11          66614.31
## 2575 18095         3.43 84.53          1       71319.11          63282.26
## 2576 26055         3.91 80.67          1       72656.36          81677.85
## 2577 49043         2.19 72.91          5       93901.13         124459.53
## 2578 20015         2.86 79.67          0       76500.08          82936.74
## 2579 39087         4.86 82.83          1       66520.46          60185.36
## 2580 16005         2.80 88.17          1       68346.90          66481.85
## 2581 29037         2.45 83.10          1       77823.34          83084.60
## 2582 35061         4.48 68.34          2       68706.28          56368.64
## 2583 17001         3.43 80.20          0       69538.98          70670.27
## 2584 48367         3.38 75.33          2       77769.80          92519.08
## 2585 55021         2.70 87.89          0       77185.77          85408.31
## 2586 39003         4.41 82.83          1       63075.41          66157.38
## 2587 53065         7.21 92.89          3       68198.90          65764.10
## 2588 17077         4.36 80.20          0       75249.85          61075.61
## 2589 23029         4.46 94.99          1       71584.80          54523.44
## 2590 23025         4.30 94.99          1       67806.80          56635.62
## 2591 12091         2.50 85.42          3       76581.05          78856.13
## 2592 36013         4.02 89.99          0       67463.92          63125.16
## 2593 55017         3.41 87.89          0       78554.89          74477.75
## 2594  5031         2.83 88.42          1       66333.98          62386.87
## 2595 37097         3.50 88.12          1       75808.28          75772.58
## 2596 45063         2.75 87.46          1       69201.39          76528.32
## 2597  6033         5.21 68.46          9       82909.16          60824.04
## 2598  2020         3.44 87.86          8       90532.51         104803.00
## 2599 49003         2.30 72.91          5       69418.63          71243.24
## 2600  8045         3.10 73.82          4       79693.63          87048.15
## 2601 48291         6.21 75.33          2       67468.51          62586.07
## 2602 28121         3.02 84.02          0       72347.02          79464.02
## 2603 23001         3.08 94.99          1       72406.12          69864.22
## 2604 48181         3.83 75.33          2       69581.60          71036.85
## 2605 42051         6.49 84.38          0       66344.51          64465.16
## 2606  1051         2.24 80.94          0       77280.36          74491.09
## 2607 55027         2.65 87.89          0       72459.30          77053.02
## 2608 45041         3.35 87.46          1       61332.93          59380.32
## 2609 34037         3.83 83.74          0      101070.91         112331.69
## 2610 28081         3.45 84.02          0       60783.00          64792.72
## 2611 55039         2.62 87.89          0       70840.36          80297.80
## 2612 45091         3.24 87.46          1       73590.34          84222.33
## 2613 53067         4.89 92.89          3       81936.65          88173.55
## 2614 54033         3.74 89.50          1       78018.26          71795.68
## 2615 21195         5.43 85.38          1       62024.51          45432.95
## 2616 48423         3.86 75.33          2       70709.28          71438.34
## 2617 55131         2.50 87.89          0       77780.82          97011.45
## 2618 50027         2.29 90.10          0       84412.36          83256.09
## 2619 17199         4.45 80.20          0       76462.93          68744.98
## 2620 30063         2.71 91.52          2       79366.87          75618.55
## 2621 42027         3.74 84.38          0       82482.80          89726.12
## 2622 42055         3.84 84.38          0       76311.84          77407.28
## 2623 42041         3.54 84.38          0       79226.08          91473.77
## 2624 26087         4.48 80.67          1       69807.28          75180.09
```

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## 2625 21227         3.69 85.38          1       72804.40          65770.27
## 2626 48441         3.45 75.33          2       68739.90          66940.84
## 2627 17011         4.66 80.20          0       70308.48          72504.19
## 2628 37057         3.62 88.12          1       62696.88          62547.05
## 2629  1003         2.41 80.94          0       79155.41          77884.76
## 2630 41043         4.83 86.98          1       84247.68          68382.51
## 2631 39057         3.72 82.83          1       70887.45          89634.73
## 2632 48187         3.50 75.33          2       74961.42          87043.02
## 2633 53047         6.85 92.89          3       67028.78          56133.50
## 2634 48469         4.36 75.33          2       69556.47          70408.44
## 2635 39037         3.67 82.83          1       61798.47          69615.73
## 2636 42069         4.95 84.38          0       70219.21          71388.02
## 2637 54107         4.27 89.50          1       76098.31          62016.19
## 2638 24013         2.73 85.48          0       78724.36         116096.03
## 2639  6093         6.06 68.46          9       76749.19          57889.37
## 2640 30111         2.49 91.52          2       76139.33          79544.11
## 2641 27049         2.64 93.09          1       68842.58          89452.98
## 2642 13151         3.25 83.30          0       78422.32          82134.79
## 2643 42085         5.26 84.38          0       63272.40          67790.03
## 2644 53071         4.84 92.89          3       76808.77          74423.33
## 2645 28033         3.35 84.02          0       72087.19          81191.13
## 2646 32007         3.35 81.21          2       81605.41          93736.90
## 2647 33017         2.37 94.99          0       78484.22          93520.23
## 2648 21117         3.43 85.38          1       75285.59          84686.45
## 2649 17055         5.43 80.20          0       71476.85          55995.91
## 2650 42013         4.68 84.38          0       66355.51          66065.98
## 2651 17105         4.12 80.20          0       68509.77          72939.56
## 2652 35039         4.54 68.34          2       64201.13          52616.62
## 2653 48217         4.02 75.33          2       61366.79          64654.10
## 2654  1047         5.32 80.94          0       64536.79          46549.11
## 2655 37071         3.81 88.12          1       70993.90          66341.18
## 2656 16011         2.67 88.17          1       66251.53          66386.36
## 2657 29019         2.01 83.10          1       74433.64          80198.20
## 2658 19049         2.04 87.71          0       78592.62         114112.20
## 2659 49045         2.59 72.91          5       74388.19          82638.96
## 2660 53041         6.41 92.89          3       68533.59          68618.68
## 2661 17075         4.70 80.20          0       69486.31          68963.69
## 2662 34015         3.81 83.74          0       86015.12         108492.38
## 2663 17073         4.41 80.20          0       69665.26          78149.68
## 2664 12085         2.77 85.42          3       75884.99          81306.14
## 2665 13051         3.12 83.30          0       74343.97          71958.95
## 2666 39119         4.50 82.83          1       62605.13          62189.72
## 2667 26025         5.07 80.67          1       69816.78          62650.77
## 2668 55043         2.82 87.89          0       67431.94          71567.72
## 2669 48139         3.60 75.33          2       77376.87          88461.06
## 2670 42075         3.87 84.38          0       75877.13          75450.15
## 2671 42111         5.73 84.38          0       65423.16          63475.30
## 2672 55109         3.15 87.89          0       86719.90         101356.97
## 2673 48323         8.60 75.33          2       57945.70          45758.45
## 2674 39023         4.27 82.83          1       64205.54          64998.09
## 2675 36027         3.16 89.99          0      105669.60         104990.91
## 2676  6069         5.26 68.46          9      112197.68          97108.99
## 2677 26149         4.45 80.67          1       64578.54          61258.39
## 2678 13117         2.38 83.30          0       87814.02         122238.51
```

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## 2679  5007         2.44 88.42          1       70684.03          79190.88
## 2680 26063         4.94 80.67          1       63543.72          62492.63
## 2681 17057         5.08 80.20          0       68892.97          65025.81
## 2682 36071         3.30 89.99          0      106162.89          99611.37
## 2683 35043         3.94 68.34          2       78179.20          76715.20
## 2684 48409         6.40 75.33          2       69848.16          65036.08
## 2685 47155         3.26 84.90          1       63346.66          59792.08
## 2686  4009         3.73 68.39          3       72665.83          61065.34
## 2687 12033         3.13 85.42          3       68669.41          66620.48
## 2688 12115         2.96 85.42          3       80502.80          80030.82
## 2689 47165         2.82 84.90          1       75699.70          82757.05
## 2690 29187         3.36 83.10          1       59482.86          60007.71
## 2691 15001         3.78 99.35          2       96858.49          77351.84
## 2692 17121         4.82 80.20          0       71598.39          62271.87
## 2693 39007         4.61 82.83          1       61441.97          59115.40
## 2694 48493         3.37 75.33          2       69888.31          91145.19
## 2695 26159         5.37 80.67          1       69087.67          68771.67
## 2696 28059         4.45 84.02          0       67973.79          67562.07
## 2697 12083         3.57 85.42          3       66177.74          56045.19
## 2698 31153         2.32 93.46          0       84576.30          99497.39
## 2699 42107         5.21 84.38          0       68101.93          66584.53
## 2700 13215         4.29 83.30          0       66898.06          61685.55
## 2701 24021         3.04 85.48          0       87056.13         116016.97
## 2702 18081         2.44 84.53          1       78665.27          89296.90
## 2703 45007         3.09 87.46          1       65074.27          66383.27
## 2704 17063         5.16 80.20          0       84703.93          90140.95
## 2705 18141         3.52 84.53          1       73174.85          70076.77
## 2706 17137         4.18 80.20          0       66956.42          64631.51
## 2707  6101         7.01 68.46          9       77419.46          67039.42
## 2708 26157         5.74 80.67          1       64382.72          61785.15
## 2709 39145         5.34 82.83          1       62906.15          57112.07
## 2710 16083         2.71 88.17          1       70944.01          64150.96
## 2711 26067         4.06 80.67          1       65372.78          67562.07
## 2712 42095         4.42 84.38          0       84041.19          86159.95
## 2713 27007         3.39 93.09          1       64581.11          64250.56
## 2714 39063         3.39 82.83          1       64552.45          78334.51
## 2715 29071         2.37 83.10          1       68016.39          73038.13
## 2716 36075         4.21 89.99          0       77142.51          69073.56
## 2717  1117         1.87 80.94          0       85691.03          98419.23
## 2718 38017         1.79 95.24          1       79386.30          90020.81
## 2719 12069         3.12 85.42          3       75418.51          67487.12
## 2720 17141         5.04 80.20          0       69982.16          76971.91
## 2721  1081         2.41 80.94          0       75171.82          74677.98
## 2722 17081         4.86 80.20          0       71700.22          63730.98
## 2723 47149         2.79 84.90          1       76270.69          81716.87
## 2724 50007         2.11 90.10          0      104536.56         101076.65
## 2725 26155         5.01 80.67          1       63562.74          68652.56
## 2726  1043         2.11 80.94          0       67198.99          58005.40
## 2727 36087         2.93 89.99          0      127029.13         113247.62
## 2729  1095         2.10 80.94          0       65775.91          58335.02
## 2730  6103         5.10 68.46          9       75686.55          56289.58
## 2731 55117         2.51 87.89          0       70673.26          77918.64
## 2732 36001         3.12 89.99          0       90639.21          97041.22
## 2733 18039         2.57 84.53          1       71092.78          69381.61
```

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## 2734 24027         2.70 85.48          0       96604.43          148691.59
## 2735 55139         2.61 87.89          0       70103.93           79314.09
## 2736 27139         2.32 93.09          1       95157.52          119937.39
## 2737 45075         5.31 87.46          1       54431.02           49882.18
## 2738 21067         3.17 85.38          1       74767.81           79075.88
## 2739 34019         3.00 83.74          0       97518.62          146943.94
## 2740 55127         2.97 87.89          0       72191.38           81818.52
## 2741 39173         3.64 82.83          1       68044.08           85241.96
## 2742 13139         2.45 83.30          0       70991.45           74210.77
## 2743 23003         4.32 94.99          1       70706.39           57900.67
## 2744 28047         3.94 84.02          0       66114.61           59113.35
## 2745 30029         3.17 91.52          2       78821.26           72235.16
## 2746 48257         3.88 75.33          2       77675.38           81456.05
## 2747 39109         3.69 82.83          1       67763.10           80126.32
## 2748 17117         3.87 80.20          0       75018.33           69202.94
## 2749 37179         3.25 88.12          1       79778.87           93832.39
## 2750 18063         2.46 84.53          1       84968.81           96064.71
## 2751 55105         3.56 87.89          0       70590.65           71949.70
## 2752 47163         3.64 84.90          1       61577.16           61239.91
## 2753 36089         4.29 89.99          0       71193.28           64409.72
## 2754 42043         4.16 84.38          0       76842.82           78421.79
## 2755 48013         4.19 75.33          2       65127.51           62603.53
## 2756 12111         3.53 85.42          3       75872.88           63395.21
## 2757 28089         3.23 84.02          0       72137.40           92596.09
## 2758 34001         5.41 83.74          0       88433.46           80943.67
## 2759 42021         5.68 84.38          0       66388.06           65347.21
## 2760 42007         5.66 84.38          0       66716.31           76502.65
## 2761 51041         2.88 93.76          1       87552.34           98285.73
## 2762 40143         3.12 72.44          0       72756.91           72560.66
## 2763 48427        12.30 75.33          2       55168.38           34122.46
## 2764 34035         3.21 83.74          0      102535.22          141682.48
## 2765 22103         3.04 83.76          0       79533.96           86531.66
## 2766 35005         4.44 68.34          2       67340.03           53194.72
## 2767 42019         4.35 84.38          0       74371.30           92905.16
## 2768 26045         4.64 80.67          1       70518.30           80828.66
## 2769 26117         4.73 80.67          1       68246.84           58634.85
## 2770  5143         2.38 88.42          1       66482.75           65428.33
## 2771 45083         3.25 87.46          1       62812.59           65855.49
## 2773 53057         5.57 92.89          3       82337.08           80249.54
## 2774  1015         3.13 80.94          0       67521.60           60733.68
## 2775 18127         3.38 84.53          1       77557.85           88405.62
## 2776 48091         3.58 75.33          2       75113.81           96273.16
## 2777 30031         1.90 91.52          2       84836.57           91274.57
## 2778 13021         3.88 83.30          0       63704.99           57824.68
## 2779 48329         3.01 75.33          2       79653.55           96750.63
## 2780 35025         4.62 68.34          2       72762.58           68769.62
## 2781 22097         4.65 83.76          0       63977.10           46306.77
## 2782 36091         2.72 89.99          0       97493.63          105657.32
## 2783 53073         5.15 92.89          3       83566.61           83326.93
## 2784 17203         3.55 80.20          0       81148.29           87131.32
## 2785 55009         2.68 87.89          0       75041.49           83146.21
## 2786  1121         3.19 80.94          0       67326.76           56166.36
## 2787  1103         2.14 80.94          0       69001.51           65752.80
## 2788 39029         4.84 82.83          1       60828.24           64046.22
```

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## 2789  1069        2.66 80.94          0       69067.87          62393.03
## 2790 37063        3.28 88.12          1       78649.39          83442.97
## 2791 35049        3.73 68.34          2       73724.87          75058.93
## 2792 47065        3.55 84.90          1       67642.90          77019.14
## 2793 27141        2.97 93.09          1       88532.42         100043.66
## 2794 27019        2.20 93.09          1       97038.83         123232.48
## 2795 36085        5.82 89.99          0      118032.58         103213.48
## 2796 17091        5.55 80.20          0       76251.04          75231.44
## 2797  6055        3.31 68.46          9      112511.80         104746.52
## 2798  4023        8.15 68.39          3       62586.26          47991.80
## 2799 41029        4.91 86.98          1       84548.87          68256.21
## 2800  6057        3.55 68.46          9       97212.27          87976.40
## 2801 48209        3.11 75.33          2       78663.53          88195.12
## 2802 55073        2.58 87.89          0       71811.74          78719.56
## 2803 29047        2.55 83.10          1       77022.66          87918.90
## 2804 23031        2.79 94.99          1       83185.63          85629.08
## 2805 51013        2.12 93.76          1      111099.49         165123.89
## 2806 39085        4.49 82.83          1       70593.90          82200.51
## 2807 53021        6.57 92.89          3       70853.75          69978.20
## 2808 41017        4.34 86.98          1       92798.02          79471.20
## 2809  4007        4.35 68.39          3       73570.06          52807.61
## 2810 51107        2.45 93.76          1      110799.43         164479.05
## 2811 47187        2.46 84.90          1       93335.83         130174.84
## 2812 33009        2.38 94.99          0       73295.66          86340.67
## 2813 12127        3.25 85.42          3       71513.83          64295.74
## 2814 39139        4.73 82.83          1       63661.85          63726.88
## 2815 39045        3.60 82.83          1       70921.10          83422.43
## 2816 39133        4.00 82.83          1       68259.73          77102.31
## 2817 49005        2.04 72.91          5       69758.87          69871.41
## 2818  8077        3.52 73.82          4       76988.35          71167.26
## 2819 53007        5.07 92.89          3       78986.69          70571.70
## 2820  1055        3.12 80.94          0       67812.73          58943.92
## 2821 17037        4.43 80.20          0       84111.27          83200.63
## 2822 26091        4.90 80.67          1       67261.95          69302.55
## 2823  1089        2.18 80.94          0       76140.59          87831.62
## 2824 19113        3.15 87.71          0       69591.68          87810.05
## 2825 51810        2.88 93.76          1       88305.94          90928.52
## 2826 16055        3.33 88.17          1       75227.12          69526.39
## 2827 12073        3.06 85.42          3       71957.01          79507.14
## 2828 26021        4.78 80.67          1       70032.04          66206.66
## 2829 33013        2.34 94.99          0       76343.52          95265.84
## 2830 22019        3.63 83.76          0       68069.27          67001.43
## 2831  6045        4.29 68.46          9       85930.16          65311.27
## 2832 12009        2.93 85.42          3       73141.42          73043.27
## 2833 17183        5.26 80.20          0       72921.01          60739.84
## 2834 22055        3.26 83.76          0       71995.50          75862.94
## 2835 22063        2.93 83.76          0       74559.88          78699.03
## 2836 12001        2.89 85.42          3       73451.16          77956.63
## 2837 12109        2.39 85.42          3       80792.69         101984.36
## 2838 39103        4.18 82.83          1       70998.27          97350.30
## 2839 17115        5.86 80.20          0       73326.27          70810.95
## 2840 42125        4.80 84.38          0       71700.47          83720.21
## 2841 42077        4.57 84.38          0       82341.29          78469.02
## 2842 48135        4.03 75.33          2       72897.69          75431.67
```

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## 2843 24003         2.92 85.48          0       93507.39          119051.24
## 2844 26121         5.37 80.67          1       67131.36           62467.99
## 2845 13245         4.39 83.30          0       66195.14           52819.93
## 2846 48251         3.61 75.33          2       75261.61           75992.31
## 2847 39169         3.27 82.83          1       65616.88           72468.25
## 2848 51153         2.81 93.76          1      103448.98          121311.28
## 2849 22079         3.33 83.76          0       65518.10           59113.35
## 2850 51760         3.52 93.76          1       76501.36           66234.39
## 2851 42079         5.62 84.38          0       69615.22           70272.89
## 2852 18003         2.95 84.53          1       72079.28           70590.18
## 2853 39025         3.68 82.83          1       70568.06           84905.16
## 2854 17093         4.20 80.20          0       90001.81          108138.13
## 2855 37067         3.85 88.12          1       67151.36           69169.05
## 2856 23011         2.91 94.99          1       68519.37           73432.44
## 2857 29183         2.10 83.10          1       76693.53          103011.19
## 2858 23019         3.19 94.99          1       73735.89           69286.12
## 2859 12101         3.15 85.42          3       75633.60           67147.23
## 2860 27109         2.23 93.09          1       87077.31           99777.71
## 2861 42049         5.21 84.38          0       66996.78           68354.78
## 2862 26147         4.06 80.67          1       71034.89           74409.98
## 2863 12117         2.73 85.42          3       79721.32           83471.72
## 2864 12081         2.94 85.42          3       75717.41           73525.88
## 2865  6023         4.15 68.46          9       80352.25           66528.06
## 2866 26115         5.07 80.67          1       72189.70           79335.66
## 2867 53005         5.31 92.89          3       72571.13           83393.68
## 2868 46099         1.89 92.09          2       68602.35           82364.80
## 2869 39165         3.39 82.83          1       79311.00          105786.70
## 2870 26093         2.93 80.67          1       80452.85          102787.34
## 2871 26005         3.86 80.67          1       69633.01           75065.09
## 2872 29077         2.09 83.10          1       65626.59           63136.45
## 2873 13067         2.65 83.30          0       79399.99           98035.19
## 2874 48027         4.62 75.33          2       62708.93           66235.41
## 2875 39041         3.08 82.83          1       79114.93          128867.70
## 2876  6089         4.80 68.46          9       84073.94           68399.96
## 2877 39157         3.97 82.83          1       65881.52           66737.53
## 2878 40109         3.03 72.44          0       73135.65           70635.37
## 2879 17161         4.49 80.20          0       70726.39           72146.85
## 2880  6095         4.39 68.46          9       95069.76           94936.23
## 2881 36065         3.68 89.99          0       76503.14           73478.65
## 2882 47093         2.95 84.90          1       68106.31           78446.43
## 2883 41051         4.08 86.98          1       96937.56           89302.03
## 2884 36067         3.40 89.99          0       81556.12           83348.50
## 2885 16019         2.40 88.17          1       69900.09           73170.59
## 2886 29099         2.41 83.10          1       72425.03           76963.70
## 2887  6017         3.49 68.46          9       96977.02          105534.10
## 2888 55087         2.58 87.89          0       72803.72           84400.99
## 2889 39099         5.04 82.83          1       63494.00           63328.47
## 2890  8101         4.63 73.82          4       69194.95           61752.29
## 2891  6007         4.67 68.46          9       83456.60           69683.49
## 2892 35045         4.85 68.34          2       63542.42           58600.96
## 2893  6113         4.22 68.46          9       91093.09           92573.50
## 2894 18057         2.18 84.53          1       90262.27          119707.38
## 2895 41039         4.78 86.98          1       87029.61           70643.58
## 2896 26075         4.68 80.67          1       70094.76           67281.75
```

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## 2897 20173         3.23 79.67          0       71425.82          74704.67
## 2898  2050          9.67 87.86          8       94170.88          55433.20
## 2899 48167         4.58 75.33          2       72605.19          91664.76
## 2900 22071         4.69 83.76          0       74320.90          62954.70
## 2901 39093         5.34 82.83          1       65577.10          75990.26
## 2902 39089         3.53 82.83          1       70377.56          81467.35
## 2903 12021         2.85 85.42          3       81649.08          84294.20
## 2904 17113         3.67 80.20          0       77768.61          95238.12
## 2905 45045         2.88 87.46          1       67982.82          77889.89
## 2906 54039         3.91 89.50          1       83286.73          63683.75
## 2907 26065         4.65 80.67          1       70359.98          75015.80
## 2908 31109         2.26 93.46          0       76867.90          83297.16
## 2909  1125          2.59 80.94          0       73247.67          70579.91
## 2910  6041          2.73 68.46          9      157044.03         157777.98
## 2911 27145         2.79 93.09          1       74164.22          80760.90
## 2912  6031          7.52 68.46          9       73178.67          61931.98
## 2913 49053         2.58 72.91          5       77517.78          71597.50
## 2914 13063         4.08 83.30          0       69680.21          54749.34
## 2915 10003         4.56 77.02          0       85457.85          94024.41
## 2916 26077         4.11 80.67          1       72649.45          79515.35
## 2917 19153         2.76 87.71          0       72633.23          85704.04
## 2918 17019         3.90 80.20          0       76261.40          84634.09
## 2919 42133         3.94 84.38          0       79446.63          80899.52
## 2920 17195         4.21 80.20          0       68201.58          69989.49
## 2921 34005         3.44 83.74          0       89436.03         108317.83
## 2922 42071         3.65 84.38          0       80190.68          80750.63
## 2923  8035          2.57 73.82          4      109684.21         138550.67
## 2924 39155         5.19 82.83          1       62237.62          61474.02
## 2925 41067         3.60 86.98          1      102833.28          99803.38
## 2926 45019         2.84 87.46          1       76756.43          86572.73
## 2927 23005         2.46 94.99          1       92789.90          97356.46
## 2928 35031         6.03 68.34          2       62525.68          40496.99
## 2929 12097         3.51 85.42          3       78509.34          58911.06
## 2930 53025         6.41 92.89          3       65741.47          65351.32
## 2931 34021         3.29 83.74          0       89373.45         108134.02
## 2932 27137         3.38 93.09          1       77577.75          78970.11
## 2933 22073         3.79 83.76          0       67831.41          54595.31
## 2934  8069          2.79 73.82          4       91469.75          94303.70
## 2935 27163         2.33 93.09          1      100498.74         117614.71
## 2936 26161         3.77 80.67          1       84563.21         104837.91
## 2937 53011         4.95 92.89          3       90961.30          89161.36
## 2938 34029         3.85 83.74          0       98270.48          92438.98
## 2939 27171         2.66 93.09          1       88267.03         101386.75
## 2940 39017         3.68 82.83          1       72168.12          84620.73
## 2941  8013          2.59 73.82          4      101991.82         115841.38
## 2942 17179         4.25 80.20          0       75485.05          80979.61
## 2943  8005          3.18 73.82          4       94585.88          96874.88
## 2944 26145         5.90 80.67          1       67367.24          62738.04
## 2945 22017         4.26 83.76          0       63454.75          57509.45
## 2946 51087         2.91 93.76          1       83507.88          93673.23
## 2947 33015         2.66 94.99          0       82497.55         115377.26
## 2948 25005         4.87 89.76          0       83311.54          89473.52
## 2949 42011         4.51 84.38          0       77582.51          79812.11
## 2950 32031         3.59 81.21          2       81642.81          81416.01
```

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## 2951  4015        4.74 68.39          3       78219.05          55873.71
## 2952 48039        4.73 75.33          2       74165.91          97189.09
## 2953 25025        3.76 89.76          0      122494.88          82291.89
## 2954 34007        4.18 83.74          0       80346.28          90951.12
## 2955  6079        3.12 68.46          9       99948.51          95203.20
## 2956 33011        2.65 94.99          0       80731.35         103199.10
## 2957 27003        2.71 93.09          1       91445.61          97988.98
## 2958 16027        3.00 88.17          1       73151.85          61812.88
## 2959 42029        3.31 84.38          0       98654.15         125995.66
## 2960 48451        3.55 75.33          2       69834.00          70791.44
## 2961 48245        6.63 75.33          2       61601.18          64599.68
## 2962 42091        3.61 84.38          0       93358.20         116070.36
## 2963 37081        4.27 88.12          1       68674.43          69161.87
## 2964 45079        3.38 87.46          1       70478.52          75142.10
## 2965 41005        3.95 86.98          1      101513.74          99735.62
## 2966 26139        3.42 80.67          1       74946.27          85767.70
## 2967  1101        3.17 80.94          0       74899.78          64886.16
## 2968 27037        2.45 93.09          1       94676.34         107341.31
## 2969 42045        4.32 84.38          0       85030.12          99224.26
## 2970 22051        3.70 83.76          0       73389.28          69595.19
## 2971  6039        6.53 68.46          9       80317.88          63043.01
## 2972 12103        2.72 85.42          3       76608.95          74353.50
## 2973  6061        3.16 68.46          9      102424.41         111357.23
## 2974  4001        8.32 68.39          3       72947.77          42365.82
## 2975 42017        3.96 84.38          0       91086.17         112165.34
## 2976 42129        4.77 84.38          0       69113.53          80424.09
## 2977 17201        6.16 80.20          0       70741.38          68735.73
## 2978 17167        4.28 80.20          0       75622.15          85524.34
## 2979 39095        4.63 82.83          1       65064.56          66438.73
## 2980 13135        2.77 83.30          0       80083.05          81718.92
## 2981 39151        4.20 82.83          1       63226.09          70077.80
## 2982  4005        4.53 68.39          3       90830.28          77820.06
## 2983  4003        4.61 68.39          3       73179.13          61257.36
## 2984 41047        4.46 86.98          1       81754.13          71803.89
## 2985 48479        4.29 75.33          2       61256.79          51308.45
## 2986  6087        5.00 68.46          9      137829.51         105463.25
## 2987  5119        3.61 88.42          1       69854.46          69916.59
## 2988 36055        3.56 89.99          0       84268.77          82107.06
## 2989 20091        2.35 79.67          0       85497.99         112372.77
## 2990 48303        3.47 75.33          2       67056.88          71320.26
## 2991 17143        5.29 80.20          0       77129.06          75040.45
## 2992 55025        2.21 87.89          0       84673.33         102734.98
## 2993 44007        3.61 89.94          0       74675.93          77648.59
## 2994 17119        3.89 80.20          0       73256.82          79689.91
## 2995 24031        2.99 85.48          0       98258.18         134261.61
## 2996 48339        4.06 75.33          2       75601.91          98536.28
## 2997  8041        3.36 73.82          4       81770.59          84155.59
## 2998 25013        5.18 89.76          0       81111.54          74012.59
## 2999 25023        4.14 89.76          0      102565.44         112621.25
## 3000 53063        5.05 92.89          3       71167.13          75818.78
## 3001 55133        2.56 87.89          0       83046.59         111023.52
## 3002 48309        3.71 75.33          2       65655.03          64409.72
## 3003  6075        2.62 68.46          9      142391.32         135125.17
## 3004 18089        4.79 84.53          1       73875.60          71694.02
```

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## 3005  6025        17.19 68.46          9       71366.89          56738.30
## 3006 49057         2.52 72.91          5       71960.92          79465.04
## 3007 34017         3.76 83.74          0       94387.86          78058.29
## 3008 53053         5.43 92.89          3       87294.83          86636.39
## 3009  4025         3.59 68.39          3       83223.32          66341.18
## 3010  8031         3.19 73.82          4       91534.85          90000.27
## 3011  4027        14.35 68.39          3       77645.14          51688.37
## 3012 12071         3.21 85.42          3       76865.37          71360.30
## 3013 34027         3.13 83.74          0      107287.33         145432.45
## 3014  8123         3.34 73.82          4       85381.90          86818.14
## 3015 28049         4.10 84.02          0       68369.94          58186.13
## 3016 17111         4.16 80.20          0       92146.37         102984.49
## 3017 17163         4.49 80.20          0       74381.17          77036.59
## 3018 53061         3.36 92.89          3       97752.84         104188.96
## 3020  4017         5.47 68.39          3       74406.16          50256.97
## 3021  1097         3.35 80.94          0       71947.38          62409.46
## 3022 16001         2.36 88.17          1       78164.83          87161.10
## 3024 24005         3.42 85.48          0       79874.62          97940.72
## 3025 34025         3.42 83.74          0       96851.86         128125.30
## 3026  4021         4.02 68.39          3       83113.89          68271.61
## 3027 34039         4.03 83.74          0       94236.27          97479.68
## 3028 12105         3.61 85.42          3       69574.90          60077.54
## 3029 39153         4.28 82.83          1       66742.07          77673.23
## 3030 29510         3.20 83.10          1       66954.41          59185.23
## 3031 48121         3.31 75.33          2       78565.91         109886.81
## 3032 13089         3.24 83.30          0       76966.27          79286.38
## 3033 31055         2.73 93.46          0       81031.30          86290.35
## 3034 48491         3.01 75.33          2       84835.89         103549.24
## 3035 34031         4.80 83.74          0       91901.81          84069.33
## 3036 39113         4.27 82.83          1       66191.59          68874.36
## 3037 26049         5.92 80.67          1       64738.54          62796.57
## 3038 29095         2.94 83.10          1       73555.42          73465.30
## 3039 51059         2.53 93.76          1      110032.50         148568.38
## 3040 49011         2.21 72.91          5       79403.07          94278.03
## 3041 48355         4.91 75.33          2       69446.24          70002.84
## 3042 53077         6.84 92.89          3       72629.22          60888.73
## 3043 25021         3.45 89.76          0      126195.67         132538.59
## 3044 47037         2.89 84.90          1       76713.77          74837.13
## 3045 48157         4.08 75.33          2       82355.13         111113.88
## 3046  6047         8.32 68.46          9       76237.20          60450.28
## 3048 22033         3.58 83.76          0       74028.10          76136.07
## 3049  8059         2.86 73.82          4       96123.15         106977.82
## 3050  8001         3.48 73.82          4       93063.48          82814.55
## 3051 15003         3.58 99.35          2      116321.46         103898.37
## 3052  6083         3.63 68.46          9      116973.30          87471.20
## 3053 36029         3.72 89.99          0       80310.56          80262.88
## 3054 18097         3.26 84.53          1       75675.02          64359.40
## 3055 24510         4.46 85.48          0       70955.47          64801.96
## 3056 12031         3.12 85.42          3       70196.46          69769.75
## 3057 37183         3.16 88.12          1       82908.07         103236.06
## 3058 34023         3.46 83.74          0       94346.09         110023.38
## 3059 12099         2.99 85.42          3       84015.42          80472.36
## 3060  6097         3.23 68.46          9      110396.13          99810.57
## 3061 37119         3.63 88.12          1       82007.23          85798.50
```

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## 3062 36119         3.22 89.99          0      122778.32          128014.41
## 3063 13121         3.28 83.30          0       79612.86           98122.47
## 3064  6099         5.74 68.46          9       79599.24           69057.13
## 3065 25009         4.09 89.76          0      105947.07          102221.56
## 3066 35001         3.76 68.34          2       67375.24           69691.71
## 3067 21111         3.92 85.38          1       72346.97           75863.96
## 3068 39061         3.73 82.83          1       68470.83           79901.45
## 3069 26081         3.62 80.67          1       74072.10           79253.52
## 3070  6081         2.48 68.46          9      167022.47          145687.11
## 3071 34013         4.72 83.74          0       90801.25           82683.12
## 3072 24033         3.66 85.48          0       86111.53          100715.20
## 3073 12057         2.85 85.42          3       76886.61           74058.80
## 3074  6053         6.31 68.46          9      109496.18           79007.08
## 3075 25027         4.07 89.76          0       91083.44           98978.84
## 3076 27123         2.77 93.09          1       85936.73           88227.98
## 3077 11001         4.91 71.83          0      120289.64          116607.39
## 3078  6077         5.54 68.46          9       80838.49           74828.92
## 3079 48085         3.27 75.33          2       84922.45          116514.98
## 3080 17089         4.72 80.20          0       88141.28           97553.61
## 3081 42003         4.39 84.38          0       72874.88           87770.01
## 3082 34003         3.47 83.74          0      101852.34          126280.09
## 3083 12095         2.96 85.42          3       78305.69           69132.09
## 3084 55079         3.82 87.89          0       72420.60           66745.75
## 3085 36103         3.22 89.99          0      125617.46          121846.26
## 3086  6067         4.08 68.46          9       87804.62           80903.63
## 3087 29189         2.50 83.10          1       74576.04           90980.90
## 3088  6013         3.65 68.46          9      118776.18          117607.52
## 3089  1073         2.65 80.94          0       78158.24           72559.63
## 3090 49049         2.19 72.91          5       74034.13           83108.22
## 3091 26099         3.84 80.67          1       74762.01           79365.44
## 3092 36059         2.96 89.99          0      126531.71          139281.77
## 3093 17097         4.37 80.20          0       91857.75          111388.04
## 3094 36005         8.45 89.99          0      102815.48           48566.82
## 3095 25017         3.17 89.76          0      120086.94          131434.77
## 3096  6107         8.89 68.46          9       71063.40           54760.63
## 3097 17197         4.83 80.20          0       89982.39          104613.04
## 3098 42101         5.71 84.38          0       78477.67           56599.68
## 3099 48453         2.90 75.33          2       79991.74           99445.02
## 3100 36061         4.80 89.99          0      137874.70          112986.80
## 3101 36081         5.51 89.99          0      124627.90           79063.55
## 3102 32003         6.39 81.21          2       75364.63           71994.88
## 3103 48061         6.00 75.33          2       57080.31           45789.25
## 3104 47157         4.73 84.90          1       65028.53           67305.37
## 3105  6111         3.82 68.46          9      105247.24          102284.20
## 3106 48141         4.44 75.33          2       60444.22           53818.01
## 3107  6029         7.45 68.46          9       70064.07           61059.18
## 3108 39049         3.54 82.83          1       72589.03           78474.16
## 3109  4019         3.95 68.39          3       70794.96           68517.02
## 3110 12011         2.95 85.42          3       84998.59           73116.17
## 3111 49035         2.35 72.91          5       80188.94           89468.38
## 3112 53033         2.99 92.89          3      104223.12          121465.30
## 3113 36047         6.24 89.99          0      115425.65           70138.38
## 3114  6001         3.41 68.46          9      117679.02          122820.72
## 3115 17043         3.77 80.20          0       95134.66          117059.20
```

```
## 3116 27053         2.54 93.09            1       92792.94           108344.52
## 3117 39035         5.14 82.83            1       66327.70            70358.12
## 3118 26125         3.08 80.67            1       79596.87           105708.66
## 3119  6019         6.81 68.46            9       71319.43            62295.48
## 3120 48439         3.74 75.33            2       72592.42            82001.30
## 3121  6085         2.72 68.46            9      133914.75           144424.11
## 3122  6065         4.35 68.46            9       83185.10            79001.95
## 3123 48029         3.84 75.33            2       66248.04            69862.16
## 3124 48215         6.93 75.33            2       56645.44            45446.29
## 3125 48113         3.85 75.33            2       72227.78            68960.61
## 3126  6071         4.27 68.46            9       79731.27            72070.87
## 3127 26163         4.86 80.67            1       70843.33            62254.41
## 3128  6073         3.57 68.46            9      106769.00            93476.09
## 3129 12086         2.70 85.42            3       84609.15            59423.45
## 3130  6059         3.27 68.46            9      111909.21           104789.65
## 3131  4013         3.46 68.39            3       82847.38            78828.41
## 3132 48201         4.41 75.33            2       68223.99            73169.57
## 3133 17031         5.30 80.20            0       81548.25            82910.04
## 3134  6037         5.17 68.46            9       97766.39            78729.84
##         C2I Gender Race StudentTeacher Total.Population MedianIncome Deaths
## 1     96.79     25    1            135             6686        70339    109
## 5    112.17     60    5             26             2830        44405     39
## 6    115.77   1590    6           1710            35895        57344    339
## 8    103.11    135    8             41             2520        42137     35
## 9     90.34     28    9             16             1883        68462     59
## 10    97.69    454   10            349             5345        62855     91
## 13   111.62    219   13            441             2452        54286     56
## 15   112.60    267   15            121             8517        75487    192
## 18    93.60    239   18            477            15564        70206    138
## 19    93.11    366   19            305            14777        68525    203
## 21   137.54     92   21            128             2181        42672     61
## 23   103.12    247   23            146             5835        78275     79
## 24    82.35    416   24            363            19265        74402    529
## 27   105.64    407   27            909            17512        64747    173
## 28    93.63    189   28            426             6676        72851     95
## 29   123.07    176   29            359            12393        49680    241
## 30   114.33     49   30            104             3118        48152     74
## 31    91.16    369   31             21             3315        46431     94
## 35    97.45     32   35             34             3661        64700     59
## 36    90.24    290   36            210            14299       119750    134
## 38    97.97    248   38            137            12085        69500    198
## 40   112.38    816   40           1047            27981        64648   2375
## 41   115.78    166   41            131            20928        59153    349
## 42    96.79    321   42            170             6772        60333    164
## 43   166.20     10   43             45             5633        49375    223
## 44   136.47    156   44            207             3620        38497    342
## 45   134.62    329   45             90             1979        56215     28
## 46   127.81     39   46             52             4044        56023     67
## 47    94.54     77   47            202             5877        88654     64
## 48   116.71    691   48            738             5475        60313     87
## 49   137.76    131   49             58             1620        44777     54
## 50   119.14    380   50            563            12315        61624    198
## 52    97.27    851   52            779            18683        59766    266
## 53   133.34    766   53            450             9245        55659    157
```

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## 54    78.44    526   54          863          27468       110517    233
## 55    99.20    100   55          269           7310        63636     87
## 56   104.56     76   56          262          10774        74154    289
## 57    90.70    513   57           80           2276        56750     54
## 58    93.62     37   58          232          10522        66800    134
## 59   106.85    203   59          633          16505        52791    224
## 60   126.23     17   60           27           5753        45098     71
## 61   102.16    312   61          831          28383        85368   1822
## 62   148.27    128   62          567           9181        59221     40
## 63    90.17    191   63          418          13342        66339    284
## 64   148.44    549   64           87           4625        47338     46
## 67    85.30     63   67          110           2113        63017     53
## 68    83.33    413   68          427          15060       114185    231
## 70   121.52    344   70          605          11990        54460    145
## 72   123.60    802   72         1437           8458        42063    218
## 73   106.58     59   73          120           4470        63750    137
## 74    91.06    168   74           70           1660        73095     31
## 75    86.21    619   75          358           2029        88935     12
## 77   103.37    884   77          564          13277        72703    193
## 78   107.98     69   78          109           5849        64758    148
## 79   100.36     93   79          435           4573        57091     52
## 80    81.63     89   80          100           1676        63125     27
## 81   108.94     57   81          154           3169        64659     39
## 82    92.18    193   82          237           6552        71458     97
## 83    88.12    487   83          562          12505        64874    173
## 84    98.41    414   84          265          12966        51667    168
## 85   107.04     33   85          157           2239        52337     66
## 86   136.96     38   86          386           6722        55549    166
## 87   106.47    223   87          478          15221        69784    178
## 88   112.47   1360   88          719          11621        46912    279
## 89    97.92     46   89          336           1524        58000     39
## 90   115.04    561   90          171           3276        56648     63
## 91    77.92    603   91          519          25613       118695    235
## 92   115.56    801   92          403          10437        61612    155
## 93   113.88    320   93          102           2406        52909     47
## 94   106.38   1197   94          788          12712        51626    301
## 97    97.44    649   97          603          13574        67128    248
## 98   109.84     81   98          546           9893        47688    292
## 99   108.57    356   99           32           1392        38500     32
## 105  116.44    125  105          439           8675        51188     65
## 106  118.12    734  106          489           3370        54592     75
## 107  120.64    144  107          220           6387        43750    112
## 108  112.99    848  108          683          12014        55082    177
## 109  122.78    149  109          133           2909        52344     51
## 110  103.20    256  110          354           7474        50484    111
## 111   69.96    292  111          410           3372        83412     84
## 113   87.60    160  113          578          20614        85692    282
## 114  136.98    132  114          187           9117        49559    196
## 116  105.51     16  116          114           4617        62786     99
## 117  114.70     98  117          346           3705        61723     43
## 119  125.69     55  119          281           5734        47563     81
## 121  123.06      8  121          219           6691        30500    136
## 126  127.86    381  126          498          11129        50310    307
## 127   94.23      6  127           64           3641        68828     77
```

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## 128  127.85    207  128           67           5870        51844    128
## 129   99.16    338  129           74           2817        53792     63
## 130   80.36     40  130          129           2319        55389     67
## 131  147.35     11  131          174           2092        36838     31
## 133  121.23     23  133          113           2733        60165     62
## 135  125.80    174  135          143          10310        53568    232
## 136   99.35    780  136          836          39012        80343    451
## 137  124.46    327  137          125           2821        45417     65
## 138  113.49    340  138          539          11805        63190    175
## 139  107.45    107  139           10           1740        32625     24
## 141   74.85     52  141          103           2179        55417     93
## 142  113.70   1168  142         1321          22574        56364    344
## 143  134.04    594  143          159           6211        37237    109
## 144  125.70     53  144          127           6164        59058    157
## 145  106.49    578  145          344           3717        56992     70
## 146  110.59    849  146          560          20751       102348    258
## 147  111.59    530  147          163           5390        54044    128
## 148   92.68     24  148          112           2018        70361     31
## 150   90.01    250  150          416           7420        89598    262
## 151  110.51    122  151           77           1964        48191     54
## 152   89.35     85  152           57           2533        65000     48
## 154  104.80    459  154          506          11959        52241    270
## 155   94.09    110  155          415          11187        50348    197
## 157   93.90     68  157           43           1929        79145     50
## 158  223.81     42  158           71           2853        48715     61
## 159  110.29    972  159          373           6717        53902    154
## 160  104.32    560  160          648          12652        55061    282
## 161  102.82      7  161          333           2374        61850     16
## 163  105.48    228  163          524          10743        87781     91
## 164   98.80    169  164          328          22578        63975    329
## 166   81.93    141  166          335           5071        67788    104
## 167  105.71     14  167          155           2746        52030     56
## 168   86.73    126  168          263           2913        55250     61
## 169   88.56    819  169          857           8619        50512    146
## 171  110.64    707  171          105           3529        61179     54
## 172   97.99     21  172           73           2835        67500     84
## 173   86.64    368  173          473          19586        84530    384
## 175  118.77   1025  175          518           3649        49643     64
## 177  106.83    310  177         1313          31541        86267    404
## 178   60.83    161  178          618          14593       154734    132
## 179  116.55    538  179          541          14384        67555    261
## 180   98.41    268  180          691          16424        62337    233
## 181  113.16    242  181          581           8795        46673    152
## 183   98.08    602  183          591          22524        64163    395
## 184  106.85     90  184          323           5073        72700     68
## 185  129.69    419  185          453           8338        50581    214
## 186  147.91    393  186          229           8674        36906    183
## 187   95.29    347  187          122           3322        56304     99
## 188  111.04    330  188           96           2579        54518     42
## 189   82.00    227  189           92           2778        73375     77
## 190  104.93    230  190          341           3464        42313    109
## 193   84.48     79  193          182           2340        64737     47
## 194  127.75    784  194          117           2739        51538     68
## 195  123.95    251  195          624          17363        50133    218
```

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## 196  117.42     99  196          138          3348        59438     85
## 197   87.88   1192  197         1589         53563        96098    839
## 198  103.07    237  198          492         12183        60905    174
## 200  122.32    187  200          553          9631        47447    199
## 202  131.41    179  202          596         13814        56982    363
## 203  101.44    138  203           93          2115        71282     36
## 204  116.63    483  204          656         15345        59574    219
## 205  127.23    194  205           65          7376        50991    109
## 206  104.64    899  206          951          8212        54381    184
## 207  125.91    633  207          529          5275        48162    132
## 209   94.97    300  209          404          2964        71442     30
## 210  131.83    494  210          598          5058        56900    134
## 211  114.03    236  211          147         12739        58400    327
## 212   98.45    117  212          362         10876        67169    357
## 213  118.05    102  213          194         10793        62821    179
## 214  134.37    797  214          377          8228        41761    140
## 215   89.45    376  215          303          2326        62411     40
## 217  107.10     56  217          670         13931        82972    202
## 219  179.33    640  219           75          8231        34368    153
## 220   78.20    234  220          226          3311        72052     51
## 221   86.45    475  221          222          7040        63423    154
## 223  112.43    201  223          665         16923       100668     31
## 224   95.99     34  224           66          3306        75000     50
## 225  104.74    387  225          161          4618        64375    131
## 226  108.60    140  226           46          4698        67568    119
## 228   88.71    155  228          275          6611        66687    112
## 229  119.30     91  229          242          3760        53333     53
## 230  119.31    289  230          106          2265        62946     31
## 231  127.91    442  231          296          7889        46338    238
## 232   82.20    167  232          236          3015        68051     96
## 234   86.75     12  234          331          1685        49417     50
## 235   91.44    177  235          342          6114        69138    138
## 237  103.71    170  237          322          6220        63625    135
## 239  104.60    557  239          743          4153        57615     84
## 242  137.15    233  242          397         10323        57063    164
## 243  109.75    273  243           53          3006        70536     67
## 244  121.22    497  244          718         12711        48534    155
## 246   89.55     18  246          330          9828        55275    152
## 247  113.07    183  247          208          4475        47681     72
## 248  104.58    114  248          350          9385        53915    197
## 249   91.13    528  249          201          8026        80117     49
## 251   96.96    209  251          476          4139        96000     70
## 252  114.97    397  252          690          9278        54695    154
## 253  115.37     64  253          233          8511        36860    171
## 255  108.23     19  255          646          5671        42724     98
## 256  110.39    302  256           13          6325        54338    134
## 257   88.48    275  257          412          2453        70827     43
## 258  122.86     45  258          409          7655        53616    123
## 259  152.34    527  259          295          6698        41438    407
## 260  100.74    495  260          165          2924        53546     49
## 261  118.24    309  261          351          7434        45262     73
## 263  104.49   1048  263          666          9415        58886    223
## 264   90.54    148  264          196          2426        90141     57
## 265  117.51    243  265          437          6211        61375    125
```

```
## 266  107.95   1183  266          729          18232        85212    195
## 267  103.70   1190  267         1750          56036        72399    578
## 268  113.46    285  268          340           6351        44694    177
## 269   74.68    448  269          785          15133        58794    142
## 270  115.79   1587  270         1296          21331        71655    198
## 272  107.16    601  272          826          14211        54630    256
## 274  119.46    130  274          521           8784        48036    155
## 275  126.75    175  275          152           1797        68611     64
## 276  145.53    384  276          545           6440        36834    101
## 277  134.21    190  277          292           2654        43281     51
## 278  118.61    612  278          213           9745        57057    111
## 279  102.27    698  279          494          16211        62164    257
## 280  109.31    794  280          681           8602        63905    174
## 281  109.76    206  281           -1           3757        62500     55
## 282  119.04    109  282          488          11304        56759    158
## 284  130.48    222  284          258           2002        64219     26
## 285  132.42    394  285          253           8041        49038    128
## 287   94.81    270  287          461          22011        65636    516
## 288  112.29    477  288          851          24215        52351    364
## 289  121.61    440  289          225           5131        54688     57
## 290  114.66    214  290          387           9192        54183    188
## 291  103.74    399  291          565           9510        83382    228
## 292  111.23    808  292         1387          10196        62940    212
## 294  118.11    770  294          897          16914        59199    219
## 295  139.34    537  295          212           3354        44569     63
## 296  139.04   1942  296         1870          29591        44528    522
## 297  125.19    213  297          167           5062        44591     90
## 298  113.44    921  298         1229          27983        59526    421
## 299  119.10    357  299          446           1704        58984     48
## 300  119.81    582  300          215           3685        46439     63
## 301  105.41    202  301          372           4763        62019    123
## 303  114.14    600  303          652           7797        55578    205
## 304  112.74    124  304          164           6293        60281    117
## 305   89.35    715  305          352           5435        50545     61
## 306   90.17     74  306          310          14150        56690    250
## 307  130.26    375  307          859          14188        51852    364
## 308  121.79    787  308          544           5498        60183    110
## 309  116.14    807  309          819          18426        43728    298
## 310  147.38    129  310          224           4021        31064    101
## 311  104.66    151  311          904          26484        57241    399
## 312   72.37    716  312          566          24478       132774    382
## 313   85.92     51  313          271           2442        70000     61
## 314  126.98     26  314          497           5948        39662    179
## 315  140.46    287  315          191          10683        53750    248
## 316   97.66    605  316         1175          26842        52264    626
## 317  122.03   1899  317         1716          53102        60095    488
## 318  108.76   1241  318         1021          10857        61980    195
## 319  131.65   1412  319         1915          66826        59013    601
## 322  128.10    709  322          431           9372        47803    254
## 323  107.46    232  323          286          14057        53017    237
## 324  119.13    581  324          186          10604        56481    286
## 325   91.84    118  325          380           9316        65181    224
## 326  115.22    541  326          833          19996        56691    258
## 327  139.21    333  327          300           8212        65125    333
```

```
## 328  124.86    374  328          343          12193        41044    210
## 329  135.05    533  329         1049          15628        56495    284
## 330  101.13    809  330          968          22689        59407    314
## 332   85.33    945  332          808          22267        76919    365
## 334  117.68    503  334          444           4599        59286     54
## 335   97.67    319  335          443           6730        57303     96
## 336   89.61    587  336          516          15794        84558    135
## 337   77.15    159  337          660           7096        59556     82
## 338  104.96     58  338          313           7773        50688     94
## 339  103.55   1189  339          664           4137        61824     78
## 340   85.73    377  340          198           7180        72332     57
## 341  102.34    431  341          124           4355        65703     76
## 342  121.33    208  342          299           8915        39565    130
## 343  127.34    249  343          838          19725        49727    455
## 344  138.82    204  344          288           2827        46728     59
## 346   75.71    323  346          673          12556       120919    168
## 347  110.83    153  347           81           3140        66341     58
## 348  111.83    212  348          438          17107        61466    370
## 349   80.48    670  349          599           9358        96667     93
## 350  135.66    845  350         1115           5377        48750    104
## 351  123.51    569  351          535           9839        45955    234
## 352  137.13    514  352          315           1865        61438     22
## 353  133.87    238  353          893          14838        40879    306
## 354  112.34    590  354          255           3579        57024     78
## 355   78.46    653  355          317           3012        77000     21
## 356  104.66     29  356          411           5873        58407    301
## 357  112.16    355  356          597          18515        59307    285
## 358  106.15    328  358          132           7393        90625     74
## 359  101.85     71  359          527           5622        54152    127
## 360  136.86   1186  360         1169           6967        47445    118
## 362  108.92    437  362          820           7656        69229    162
## 363   93.30    350  363          126           1848        61339     30
## 364  126.80    427  364          593           8261        38438     98
## 365  111.51   1690  365         1947          24730        61497    476
## 368   83.82    307  368          776           7284        72484     60
## 369  105.03    568  369          834          18210        76250    424
## 371   97.02    283  371          813          19098        68457    273
## 372  139.21    403  372          911          13584        42434    966
## 373  144.96    315  373          298          11075        44272    204
## 374   91.77   1156  374         1406          41104        84331    661
## 375  113.11    823  375          282           3378        62721     62
## 376  106.22    254  376          406          10073        60078    140
## 377  137.10    409  377          500           9512        49533    243
## 378  103.02    474  378          166           2628        55765     70
## 379  104.34   1163  379          984          10754        68778    188
## 380  135.60   1617  380         1776          42818        43626    940
## 381  115.36     96  381          241           8239        58132    147
## 382  102.83    178  382          173           2881        81739     69
## 383  128.91    804  383          434          16775        41215    322
## 384   97.15    471  384          291           2434        74167     31
## 385  109.34    620  385          755          27856        50904   1189
## 386  112.94    379  386          368           5446        55417    133
## 387  161.50    563  387          778          12174        44948    230
## 388  109.28   1251  388          658           4902        67964    117
```

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## 389  101.96    836  389          240          7339        71209    140
## 390  128.64   1002  390          382          4544        59773    135
## 391  133.03     72  391          419          6790        31995    137
## 392   84.32    523  392          384          3227        52321     57
## 393   82.38     35  393          247          4623        59915     90
## 394  112.79    857  394         1274         19786        57392    274
## 395  130.61   1116  395          811          6946        52139    225
## 396   88.37    546  396          509          7380        76875     94
## 397   91.02   1523  397         1951         50905        82735    526
## 398  130.76    346  398          741         11391        53645    204
## 399  108.39    517  399          421         11499        46190    277
## 400  114.65    185  400          549          8093        57708    193
## 401  173.15    636  401          584          2415        48987     47
## 402  112.84    272  402          259          3342        65438    112
## 404  109.38    463  404         1013         18958        52957    316
## 405  104.49    152  405          534         16409        52260    281
## 406   80.13    385  406          227          1732        67768     38
## 407  147.58    261  407          178          6111        61738    117
## 409   83.58   1484  409         1857         31969       100513    323
## 410   80.84    121  410           94          3259        70288     40
## 411  107.94    478  411          151          2974        61935     54
## 412  110.51    544  412          980         23840        52264    520
## 413  102.24    199  413          293          7236        60183    139
## 414  130.14     62  414          312          5175        46776    108
## 415   99.62    588  415         1054         30914        58784    347
## 416  100.82    449  416          200          2659        66107     76
## 417  119.21    681  417         1062         18257        50414    318
## 418   99.78    324  418          274          4123        61709    128
## 419  135.63    360  419          621         11953        37177    181
## 420  114.40    700  420          969         13730        76524    190
## 421   96.89    424  421          334         10394        62054    111
## 422  106.42    158  422          413          3231        59191     59
## 423  115.71    550  423          576         12784        49477    229
## 424  145.27    735  424          610         17138        39081    426
## 425  147.11     73  425          144          4978        35000     79
## 426  117.40    120  426          376          9945        52340    173
## 427   77.77    751  427         1091         37707        84378   1215
## 428  101.92    260  428          203          4094        58902     85
## 429  116.52    648  429          428         12007        47560    229
## 430  105.87   1517  430         1901         28332        57562    571
## 431  101.92   1017  431         1157         30519        49562    782
## 432   76.29    181  432          458          9127        79505    114
## 433  173.08    522  433          829          6612        54458    124
## 434  130.87    695  434          981         26074        59221    464
## 435  107.40    596  435          708          9553        52542    235
## 436   86.17     65  436          655          8119        74475    130
## 437   94.23    410  437          177          5993        67942     67
## 438  108.21    644  438          239          6157        49982    124
## 439  114.89    458  439          267          2562        68207     17
## 440  109.92    737  440         1111         26056        54312    411
## 441   97.27   1177  441          782         10141        62628    151
## 442  108.79    354  442          667         18757        68830    201
## 443  114.58    502  443          261          4675        56875    109
## 444   91.88    112  444          525          3279        65931     79
```

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## 445  133.02    965  445          1454          23463         64769    692
## 446  110.10     22  446           520           5919         64444     95
## 447   90.82   1194  447           197           6411         69833    120
## 448   68.91    924  448           206           4043         94688     61
## 449   77.55    405  449           192           5230         77083     65
## 450  122.12    747  450           394           8708         61811    110
## 451  117.88    531  451           962          12330         57759    149
## 452   99.66    479  452           927          21378         50985    406
## 453   72.96    912  453           709           2277         76311     41
## 454   68.25    900  454           899           8341         79405    105
## 455  114.88    623  455           136           1762         68009     27
## 456  129.74    298  456           193           6698         53475    134
## 457  121.72    450  457           314           8249         55117    180
## 458   97.39    188  458           278           4664         69821    183
## 459  112.68    480  459           522          24449         61754    494
## 460   97.93    395  460           482           2422         73214     31
## 461  128.02    859  461           550           9261         59727    149
## 462  128.05   1026  462          1336          26285         36293    411
## 463  116.41    301  463           168           7175         47395    159
## 464  127.97    186  464           250          12611         35385    248
## 465   73.25    929  465          1323          35509         89184    269
## 467   92.85   1344  467          1130          39228         83689    994
## 468   91.58    306  468           228           3045         72054     84
## 469  135.14   1289  469          1185          34353         43500   1049
## 470   94.88    894  470           827          16995         51473    665
## 471  110.02   1310  471          1570          25614         73268    563
## 472  145.08    441  472          1178          10972         50431    324
## 473  102.33    585  473           757          11616         62907    142
## 474  109.69    573  474          1093          12695         62438    221
## 475   52.00   1143  475          1163          19374        143188    222
## 476   91.33    303  476           118           3501         60357     72
## 477  107.95   1505  477          1445          29612         91548    306
## 478  111.15    157  478           451           7869         55439    176
## 479   88.88    504  479           285           3949         74868     82
## 480  114.30     95  480           139           3717         61169     36
## 481   94.08   1530  481          1232          33406         66368    449
## 482  125.27    767  482           280           8571         49015    177
## 483  103.35   1435  483          1291          42873         88225    316
## 484  126.41   1662  484          1418           8603         59304    190
## 485   94.82    192  485           572           7540         91898    103
## 486  109.04    654  486           485           3910         74135     80
## 487  136.47    720  487           463           5068         59010    111
## 488  116.62   1403  488          1673          22202         52323    486
## 489   95.32    927  489           470          10402         77355    149
## 490   80.01    924  490           604          24139        120125    220
## 492  113.47   1365  492          1196          16741         61664    247
## 493  128.42    363  493           623          10849         50193    191
## 494  103.47    837  494          1237          10909         70071    209
## 495  144.74    728  495           805          11511         37840    412
## 496   93.90    565  496           401          18079         72926   2744
## 497  134.61    342  497           460           7592         42139    125
## 498  100.60    512  498           864          33931         72388    463
## 499   90.30    617  499           501           5782         76755    109
## 500  118.09    215  500           616          12439         49171    245
```

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## 501  115.96   1225  501           657          15597        62161    325
## 502  115.56   1155  502           775          19689        61005    346
## 503   99.09    651  503           347           5561        54257    115
## 504   94.21    259  504           668           6961        70536     84
## 505  115.54    162  505           235           2539        54926     67
## 506  102.98    465  506           590           8162        51094    164
## 508  125.36    365  508           320           9708        45057    257
## 509  100.84    294  509           510           7765        52364    252
## 510  132.80   1078  510          1435          14299        45456    359
## 511  135.31     61  511           396           4797        42230     56
## 512  131.24    133  512           405           8630        33182    152
## 513   88.78    890  513           365           8320        55339    211
## 514  106.92    286  514            -1          15675        60404    456
## 515   95.58    278  515           636          11270        59706    168
## 516   84.44   1035  516          1539          39444        96118    502
## 517  120.14    359  517           496           3639        62782     91
## 518   97.21    997  518           471           2512        64236     82
## 519  119.72    904  519           246           3385        65197     90
## 520  102.06     20  520            -1           3623        57155    104
## 521  119.95   1046  521           807          13850        51663    293
## 522  109.39   1406  522           799          19473        57258    443
## 523  104.83    481  523           763           1987        65515     73
## 524  119.78    775  524           873          20421        50904    225
## 525  100.15    252  525           701           8579        64934    149
## 526   83.80    668  526           183           3942        61346     97
## 527   90.98   1068  527          1260          27017        80006    339
## 529  110.34    624  529           659           8293        54475    234
## 530   78.49   1139  530           888          28919        82863    513
## 532  103.31    534  532           758          21589        69703    333
## 533   79.25    258  533           348          18551        61310    302
## 534  116.41    439  534           933          20575        57201    310
## 535  128.22    869  535           484           6981        39031    116
## 536  116.12    647  536           748           7678        64740    121
## 537   93.57    595  537           256           5901        67279     91
## 538  112.70    226  538           680          11026        56545    156
## 539   94.69    882  539           759           8619        62944    272
## 540  109.81   1024  540          1099          22607        91943    364
## 541  113.93   1172  541           319          12115        55933    281
## 542  111.01     36  542           580          16196        58936    273
## 543   98.34   1271  543           631          33125        66007    421
## 544  108.65    598  544          1179          28269        68365    395
## 545  132.73   1571  545          1264          23492        48145    321
## 546  122.95    724  546          1380          15689        57551    296
## 547   97.99    908  547           447           8623        65693    137
## 548   90.83   1075  548           589           7544        73818    175
## 549  138.97   1034  549           830          20757        56458    356
## 550   99.10    401  550           245           4662        53611    132
## 551   97.60    841  551          1171          30442        61476    720
## 552  129.09    732  552           925          22961        50053    533
## 553  115.50    111  553           678           7028        79500     93
## 555   89.25   1670  555          1107          36156        75085    675
## 556   95.50    452  556           442           3473        59408    110
## 557   86.00   2112  557          2164          70590       108326   1078
## 558  110.00    614  558           867          15560        61401    263
```

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## 559  112.04    608  559          650          13146        61224    195
## 560  135.60    246  560          714          10372        48572    156
## 561   84.08    119  561          430           3996        71528     98
## 562   89.77    464  562          526           5388        56716    134
## 563  137.04    402  563          383           6785        50061    140
## 564  110.81    616  564          345           6505        72007     98
## 565   90.11     94  565           -1           6320        72288     72
## 566   95.86    240  566          613           8071        63136    185
## 567   94.18    710  567          882           6694        71639    174
## 569   74.58    588  569         1136          17732        78981    366
## 570  185.78     75  570          324           8507        33409    186
## 571   90.73    297  571          635           9858        66875    183
## 572  121.04   1245  572         1011          22527        47363    506
## 573   99.85    211  573          455           2299        72589     63
## 574  103.92    762  574          230           7565        51919    175
## 575  103.04    664  575          976          24774        80666    297
## 576  116.74    489  576          711           8561        50489    148
## 577  114.74    731  577          750           7708        62648    154
## 578  102.38    295  578          307           2346        52833     53
## 579  108.04    697  579          588           4433        60550    126
## 580   96.70    255  580          554           4318        79556     57
## 581   98.44    979  581          663           4004        63786     94
## 582  121.79    567  582         1137          24933        49205    417
## 583  107.46    994  583         1409          26943        54130   1118
## 584  134.69    265  584          561           7786        41743    140
## 585  101.69    484  585          504           9690        66821    204
## 586  111.63    506  586          818           8941        59713    215
## 588  147.98    317  588         1014          24967        36981    630
## 589  113.94    705  589          611           8686        81958    134
## 590  106.96    885  590          370           6835        87545    128
## 591  109.52    205  591          537           7491        50509    135
## 592  100.77    113  592           -1           6118        59386     63
## 593  132.65    584  593          493          15468        46561    359
## 594  103.21   1392  594         1737          71710        59560    860
## 595  137.57     82  595          499          12525        44483    235
## 596  127.09    137  596           -1           4857        54626     87
## 597  111.31    378  597          454          17344        53177    385
## 600   82.17    509  600          385          15381        74277    216
## 601   93.51   1208  601          685          16633        62689    275
## 602  197.97    430  602          642           7195        28321     99
## 603  100.04    462  603          540           5802        54855    111
## 604  126.90    586  604          810          16285        47656    349
## 605  116.67    505  605           14           9697        62521    150
## 606   84.24    332  606          846           7546        72518    170
## 607  109.64    719  607          475           5956        58276    153
## 608   88.90    889  608          308           3269        67368     61
## 609  114.90    241  609          965          15028        67770    229
## 610  109.54    844  610          871          10354        39565    197
## 611  139.26    577  611          890          11041        36064    214
## 612  134.76    257  612          378           7621        44712    161
## 613  113.43    768  613         1209          10740        53908    200
## 616  109.52    313  616          311           5767        58233    172
## 617  113.28   1213  617          688           7179        61056    216
## 618   88.15    855  618          417           7471        66176    169
```

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## 619   96.32    931  619          574          8976        70708    180
## 620  103.35    535  620          503          4874        61235    106
## 621  111.89   1193  621         1518         31143        53242    754
## 622  121.36    638  622          585         11650        53614    339
## 623  104.38   1550  623         1551         54958        68348   1009
## 624  119.94    370  624          766         19893        44009    417
## 625  108.02   1489  625         1219         13807        61904    342
## 626   73.58   1153  626          218          2935        83773     46
## 627  116.45    745  627          713          1818        71842     30
## 628  147.28    834  628          276          5908        32131    117
## 629  100.16   2164  629         2110        104117        72861   2999
## 630  110.13    746  630          651         12311        55789    199
## 631   95.57   1072  631         1826         31385        67298    403
## 632  156.84    485  632          625          1708        59231     64
## 633   91.75    371  633          390          9701        55344    166
## 634   97.76    578  634          929          9120        64348    226
## 635   92.52    631  635          557          8685        67921    178
## 636  125.47    850  636          321         10136        38814    164
## 639  102.73    971  639          647          4869        61596     91
## 640  110.98    785  640          761         11475        48892    208
## 641   97.83    163  641         1016         17452        60543    271
## 642  125.46    171  642          954         20853        51983    588
## 643  122.30    334  643          710         24427        50739    378
## 644   87.89   1062  644         1124          9964        69955    129
## 646  156.36    881  646          970         22944        48681    816
## 647   79.18    108  647          301          3663        67064     67
## 648   87.39    676  648          653         12038        56813    301
## 649  125.33    217  649          821          8749        62247    146
## 650  134.60   1150  650         1640         26603        63602    649
## 651  113.72    872  651          583          5667        57411     75
## 652  105.50   1800  652         2079         71962        71386    747
## 653   87.86   1266  653         1463         37208        94175    532
## 654   92.26    814  654          982          8393       101207    106
## 655   89.48    739  655          204          3961        63214    106
## 656   96.12    968  656         1146         13870        89155    184
## 657  117.88   1090  657          847         17063        55372    204
## 658   86.68    400  658          569          6366        66792    143
## 659   90.35    525  659         1037          6518        72620    101
## 660  116.43    532  660          671         11882        41475    173
## 661  112.51    472  661          556         13144        49040    351
## 662   88.12    225  662          749         15329        78309    312
## 663  110.33    461  663          514          8531        67813    112
## 664  136.99    551  664         1035         16515        51445    309
## 665  102.91    358  665         1029         15676        56824    302
## 666  110.18   1113  666         1246         22185        58109    514
## 667  106.19    288  667          676         13076        58395    244
## 668  124.68    469  668          290          8181        58293    145
## 669  104.40    134  669          422          7372        74536     87
## 670  100.53    314  670          381          6518        59118    147
## 671   90.47    964  671         1050          9509        71573    172
## 673  100.44    610  673          508          9977        63648    208
## 674   96.56    304  674          700         16681        47012    341
## 675  126.91    725  675          921          7529        44539    213
## 676  105.46   1203  676         1621         43365        55308    646
```

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## 677  100.75   1635  677          1889          86982        77477    866
## 678  181.39    221  678           445           6043        29014     54
## 679  121.97    493  679           959           9998        59924    276
## 680  104.98    545  680           392           2720        71389     70
## 681  103.63    772  681           374           5263        59457     69
## 682  113.64   1281  682           979          10182        51000    169
## 683  103.07    136  683           573           9914        65148    101
## 684  121.66   1073  684          1842          23070        82874    264
## 685  102.98   1138  685           745          16773        60831    425
## 686  117.22   1249  686          1444          35958        44833   1333
## 687  133.69   1378  687          1304          13411        47923    296
## 688   95.73    408  688           289           5392        50305    115
## 689   99.59    583  689           287           2430        71726     54
## 690  102.44   1641  690          1028          30385        67080    407
## 691  122.07    933  691           407           5468        63750     96
## 692  137.15   1137  692           395           9997        39683    227
## 693  106.39    662  693           592           6011        52127    121
## 694   86.26   1311  694           960           6371        77500     99
## 695  110.16    345  695           587           8972        47003    156
## 696  103.21    476  696           809           9032        66836    109
## 697  117.37    470  697           364           8813        59406    157
## 698   86.78   1831  698          1912          80046       107046   1475
## 700  112.55    263  700           469           5269        45083    113
## 701   90.07   1200  701          1017          17963        63723    501
## 702   97.93    457  702           429           7044        70625     77
## 703  122.73    688  703           662          13809        47447    221
## 704  107.10    349  704           244           6946        55469     79
## 705  108.49    730  705           931           8559        57056    197
## 706  120.49   1335  706           735          14077        58720    271
## 707   95.31    878  707           793          27764        91959    306
## 708  126.06    184  708          1119          16173        50733    327
## 709  195.21    703  709           302           3331        39336     63
## 710  115.29    558  710           698          14905        49655    229
## 711  167.02    353  711           816           6270        25425    126
## 712   99.53   1061  712          1058          17739        95450    133
## 713  114.13    910  713           190           8172        48321    149
## 714  129.16    760  714           825          19016        50316    307
## 715  114.14    593  715           189           7655        45618    178
## 716  117.31   1507  716          1145          10538        67692    148
## 717  107.77    669  717           586          12441        59956    263
## 718  107.38    863  718           895           8738        47753    144
## 719  106.54    706  719          1038          12414        53005    222
## 720  146.88     31  720           594           5528        55714     69
## 721   96.36    172  721           622          23419        63923    437
## 722  117.47    832  722           645          19909        50152    478
## 723   82.29   1243  723          1067          13877        72561    218
## 724  126.81    447  724          1100           9622        48514    210
## 725   96.04    789  725           399           6693        58016    126
## 726   97.97   1256  726          1377          20413        65470    365
## 727  100.12    915  727           459          17749        65625    319
## 728  111.35    352  728            36           6284        65651    118
## 729   90.52    764  729           472          10911        75621    231
## 730  147.24    446  730           944           8941        43812    128
## 731   95.91    554  731           367           2823        78125     80
```

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## 733   70.82    840  733          511          5802        84583     89
## 735  109.18    982  735         1184         33243        64523    614
## 737   80.03    674  737          734          6390        83460     80
## 738  139.83   1226  738         1004          4557        50584    104
## 739  140.39    434  739          205          2049        47054     42
## 740  101.64    618  740          945         20914        45743    465
## 741  147.98    373  741          669         11833        42544    221
## 742  101.81    920  742          661          5607        58854    107
## 743  162.09    101  743          316          8253        42061    116
## 744  111.12   1247  744          855         30431        51691    930
## 745   89.81    976  745         1001          9628        70698    232
## 746  112.69   1174  746          721          9723        59200    150
## 747  104.78   1136  747         1089         15797        51641    207
## 748   92.36    903  748         1147         13909        64391    292
## 749  101.97    830  749          474          3058        65455     48
## 750  118.35    539  750          950         21687        54058    343
## 751   88.29   1914  751         1279         53279        81455   1324
## 753   97.45    443  753          832          8427        59521     91
## 754  105.71    796  754          697         14408        53851    312
## 755   91.32    555  755          780          8722        59159    166
## 756  107.92    998  756          270          5561        69156     82
## 757  119.25   2210  757         2239         43731        56673    998
## 758  102.34    992  758          211         24637        67521    479
## 759  100.03   1966  759         2080         34487        58263    711
## 760   92.36    147  760          752          8469        74635    162
## 761   91.71    956  761          512         12008        87564    167
## 762  152.15   1551  762         1501         11304        45441    244
## 763  105.76    529  763          866         14683        66601    213
## 764   94.52    501  764          559          9464        52612    139
## 765  122.61    367  765          156         11183        37183    212
## 766   83.20    658  766          956         19540        84184    155
## 767  108.58    406  767          481         14252        55360    200
## 768   86.24    758  768          639         11444        53869    186
## 769   89.85    173  769          943          9573        66994    148
## 770   88.89    907  770          861         22045        69019    437
## 771  118.24    901  771          391          5903        55500     89
## 772  156.10    576  772          608          7336        40074    106
## 773  101.43    417  773          251          2796        63203     79
## 774  136.92    733  774          912         10905        41750    252
## 775   94.02    570  775          490          9459        67336    216
## 777   97.45    754  777          185          2957        60288     75
## 778   97.15    684  778         1201         28526        68259    356
## 779   92.72    883  779          886         12091        59762    173
## 780  104.63    611  780          894         12631        57618    268
## 781   78.37    386  781          769          5745        84474     85
## 782  119.02    229  782          277          6203        44672    108
## 783  127.46   1010  783          571         12239        38941    339
## 784  101.51   1108  784          643          5212        61909     83
## 785   95.88   1885  785         1113         45863        69829   2279
## 786  112.03    518  786          466          5366        71367    141
## 787  104.60   2635  787         2628        121699        59000   2392
## 788  156.71    412  788          199          8855        43595    136
## 789  124.29    989  789          771         13758        55971    304
## 790  149.74    827  790          999         17212        47935    318
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## 791  140.56    936  791          491          4039        45319     79
## 792  102.77   1009  792         1053         17758        66000    227
## 793  113.51   1229  793         1397         23958        82095    344
## 794   95.67    507  794          644          5307        82122    111
## 795  135.71    864  795          254          7861        41978    165
## 796   96.83    822  796          570          7312        75938    121
## 797   73.78    536  797          739         10794        70230    248
## 798   85.67    922  798          400          3922        77500     37
## 799   87.70   1581  799         1151         12388        69192    263
## 800  108.08    938  800         1023         17032        53888    216
## 801  121.33   1382  801          926         17024        44706    414
## 802   97.85    351  802          862         15543        72644    269
## 803  134.28    482  803          640         11850        49828    267
## 804   78.70    876  804          641         31074       110667    299
## 805  111.27   1104  805          751          5460        62270    141
## 806  125.16    641  806          706         14348        49672    321
## 807  109.03    511  807          767         17672        43513    292
## 808  179.22    337  808          854          6987        31310    147
## 809  118.48   1293  809         1103         21903        44245    362
## 810   86.59   1447  810         1123         24783        76541    569
## 811  132.79    604  811          326          3848        35741    108
## 812  106.43    778  812          860          4491        60372    117
## 813   86.84   1005  813         1051         14103        68216    332
## 814   77.84   1019  814          464          2817        72284     63
## 815  104.37    540  815          823         20443        64003    231
## 816  105.38    282  816          329         19797        64536    282
## 817  101.95    606  817          423          8435        61359    141
## 818  149.55    621  818          357         13920        43831    250
## 819  110.87   1031  819          989          2647        65625     70
## 820  158.89   1147  820          939          5524        49194    109
## 821  154.73    383  821          725         10157        36723    187
## 822   91.54    743  822         1155         28704        88986    262
## 823   76.34    761  823         1031          8734        71958     76
## 824   93.63    543  824          913         17988        68465    262
## 825  127.61    805  825          952         13580        49975    268
## 827  123.79    200  827          916         14939        43345    275
## 828  125.27    783  828          881         17076        46953    362
## 829  105.05    486  829          468          3695        69138     41
## 830  125.62    923  830          547         21430        49663    411
## 831  116.22    500  831          715         21434        59586    246
## 832  132.11    468  832         1082         12243        54512    171
## 833   93.21    713  833          273          8413        82603    140
## 834   99.31    609  834          848         25598        65697    700
## 835   86.78   1407  835         1197         18327        72888    306
## 836  118.43    940  836         1217         26990        41200    566
## 838  175.07    335  838          297          2043        51364     28
## 839   99.75    607  839          637          8045        77349    121
## 840  113.52    548  840          148          2313        62500     27
## 841   97.76    753  841          108          3301        59632     64
## 842  105.39    637  842          712          9942        59964    304
## 843  129.81    877  843         1442          9392        52679    174
## 844   86.99   1716  844         1772         53801        63316   1444
## 845   83.83    274  845          880          6944        62841    187
## 847  104.91    935  847         1083         13937        59049    325
```

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## 848   89.16    542  848           -1          5600        77526     51
## 849   81.17   1207  849          858          6787        66884    112
## 850  107.20    642  850          695         21932        55082    540
## 851  120.76    438  851          723         11278        41087    205
## 852   76.21    460  852          502          4959        63125    133
## 853  106.89    678  853         1215         17606        50938    371
## 854  126.76   1322  854         1408         38623        48779   1148
## 855  163.69    435  855          558          7570        32976    114
## 856  140.86    572  856          898         15454        48347    278
## 857  104.59    975  857         1520         12491        57618    226
## 858  111.21    372  858          420          7738        31603    154
## 859   90.61    491  859          674          9964        60856    207
## 860  111.29    325  860           -1          7972        61520    204
## 861  129.50   1085  861          507         13029        43942    316
## 862  113.87    742  862          786         16610        64819    398
## 863  136.35    991  863          433          4411        56957     73
## 864  132.85   1001  864          629         13864        45444    256
## 865  101.91    632  865          740          8806        82791    103
## 866  118.48    946  866         1174         22317        49838    566
## 867  135.76     48  867          284          7855        41200    141
## 868   99.39    717  868         1234         28454        69747    451
## 869  172.14    791  869          379          7375        34182    175
## 870  112.62    959  870         1224         20850        85268    283
## 871  107.74   1601  871         1611         20174        56322    357
## 872  102.90   1082  872          737          8831        64464    171
## 873  128.96   1450  873          901         17125        55234    415
## 874  100.16    281  874          704         12187        66250    231
## 875  135.78   1164  875         1057         20492        47472    540
## 876  112.23    685  876          747         12665        58435    275
## 877  110.76   1004  877         1065         17220        51919    342
## 878   82.57    930  878         1153         17158        77358    170
## 879  106.20    218  879          532          3713        69426     76
## 880  110.63    524  880         1096          7411        93655     62
## 881  130.25    692  881          733         17597        42950    389
## 883   91.54    736  883          928          5298        62722    142
## 884  106.42   1797  884          798         16410        69609    229
## 885  135.39   1032  885         1271         19995        42745    712
## 886  100.83   1292  886         1041         19968        63472    247
## 887  114.61    951  887          356         12701        44492    281
## 888  100.08   2116  888         2345         52895        61205   1557
## 889  130.17   1277  889         1358          9495        41048    194
## 890  120.29    771  890          619         10972        61530    271
## 891  147.37    776  891          533         13921        45194    226
## 892  199.14    630  892          686          8908        34371    151
## 893  114.40   1741  893         1416         59691        79318    616
## 894  118.43    812  894          575          4605        60625    105
## 895  115.94   1722  895          887         14549        66721    224
## 896   94.28    874  896          517          2097        76402     25
## 897   91.08   1076  897         1317         22824        63115    440
## 898  171.51    634  898         1086          9757        37267    160
## 899  111.58    824  899         1281         15774        60736    152
## 900   91.47    575  900         1170         43669        55413   1010
## 902  103.15   2214  902         1854         50421        61122   1649
## 903  125.76   1276  903         1267         15270        60503    258
```

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## 904   95.64   1000  904          922          16446        64082    307
## 905  133.19    665  905         1118          14236        49302    171
## 906  113.92    786  906         1032          26939        49149    680
## 907  122.99    663  907          654          21029        59029    281
## 908  108.41    421  908          692          12686        53813    210
## 909   93.91   1260  909         1799          46681        94234    332
## 910   96.53    752  910          777          17346        62572    263
## 911  123.41   1258  911         1439          18751        45279    288
## 912  127.97    521  912         1401          24975        47785    380
## 913   88.76   1397  913         1924          67265        85465    585
## 914  110.45    943  914          879           7669        57146    133
## 915  126.10    702  915         1276          13506        46368    311
## 916   93.83   1440  916          963          11795        63438    247
## 917  138.66   1362  917         1929          44172        57638    540
## 918  104.49    905  918         1225          18722        44481    376
## 919  104.01    276  919          850          25605        58073    617
## 920  128.49    914  920         1226           9913        56553    171
## 921  113.39   1449  921         1878          44493        58239    949
## 922  129.04    961  922          649          18733        52838    323
## 923   99.39    364  923          998          31976        72542    531
## 924  142.62   1283  924         1515          19237        46203    390
## 925  125.95    599  925          627          15868        52978    229
## 926  132.70    941  926          703           7238        59800    158
## 927  119.17    455  927         1469          15156        61868    275
## 928  178.50    139  928          327           2410        47333     70
## 929  116.99   1149  929         1292          29174        41877    768
## 930  100.32    423  930          162           7328        63485    107
## 931   87.68   1575  931         1059          16982        67955    249
## 932   98.94    774  932          687           9852        64988    122
## 933  122.95    781  933         1261          14065        55429    335
## 934   92.42    722  934         1364          15502        64500    284
## 935   95.50   1105  935          398           4499        64494    118
## 936  108.14    657  936          918          13271        58614    468
## 937   96.92   1433  937         1331          16973        66250    272
## 938   98.26   1352  938         1547          36467        77989    438
## 939  100.58    675  939         1094          18111        72512    268
## 941  135.36    831  941          612           8372        50256    109
## 942  110.95   1093  942          615           5294        55461    123
## 943  118.52   1533  943         1063          13379        60989    190
## 944   75.81    704  944         1265          19875        98333    193
## 945  109.53    597  945          707          14973        58089    404
## 946   92.64    906  946         1208          19218        61099    339
## 947  131.81   1389  947         1351           8254        61222    194
## 948  110.06    473  948          774           6680        51458    104
## 949   80.56    432  949         1069          14563        87810    150
## 950  110.78    952  950         1506           8018        59760    122
## 951   85.90    970  951         1270           6413        69635    157
## 952   89.21   1007  952         1371          11255        71719    152
## 953  117.88    887  953         1060          12474        38531    304
## 954  128.67   1850  954         1890          27471        66551    611
## 955  110.78    763  955          817          17450        60135    283
## 956  118.89   1239  956         1088          17779        50381    501
## 957  105.84   1302  957         1708          15288        70617    246
## 958  104.50    962  958          731          11883        43368    238
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## 959  138.31   1106  959           783           4796        61117    103
## 960  103.16   1467  960          1183          15706        63471    293
## 961   85.02    788  961           543           4163        69615    102
## 962  105.06    987  962           908          13859        68596    251
## 963   79.84    696  963           934          18518        76902    205
## 964  118.96   1288  964           914          24579        84470    222
## 965  120.81   1612  965          1707          43161        50175    909
## 966  105.15    426  966           601           7819        64925    123
## 967  131.89   1013  967           705           9563        44957    202
## 968  109.99   1477  968          1451          41587        54088    834
## 969  123.10    810  969           742          15936        47266    357
## 970   98.88    750  970           452           7572        61038    137
## 971   87.38    451  971          1008          34197        75293    853
## 972   99.68   1294  972          1087          25765        62586    541
## 973  119.31    415  973           538           5041        64266     77
## 974  103.82   2114  974          1952          64565        63060   1005
## 975  121.67    627  975          1472          22123        61112    349
## 976  125.23   1065  976           730           6058        44357    118
## 977  115.76    622  977           917           9451        46731    212
## 978  121.68    749  978           972          26831        50827    526
## 979  149.81    592  979            -1           5074        43227     66
## 980  101.87   1286  980          1223          22624        62593    480
## 981  118.46   1323  981          1973          49053        51880    839
## 982  102.16    779  982            -1           6826        66059    190
## 983   95.73   1515  983          1722          36848        68054   1085
## 984  105.30   1762  984          1227          16067        59975    254
## 985  107.39    180  985           953          10494        48993    152
## 986  117.11    948  986           844           2731        60000     39
## 987  100.88    686  987           243           5216        59260    164
## 988   89.67   1119  988           762           7913        73575    110
## 989  120.40   1097  989           188           9047        64184    185
## 990  100.37   1516  990          1696          38121        59670    791
## 991  118.83    790  991           870          11318        49430    199
## 992  134.65   1480  992          1486          10334        50911    163
## 993   92.39   1336  993          1675          23379        73855    591
## 994  107.59   2286  994          1597          79147        69826   1238
## 995  107.88    879  995          1648          41322        53165   1381
## 996   99.97   1141  996           997          25477        66716   1806
## 997  110.78   1166  997           768           7696        62849    125
## 998  115.84   1169  998          1466          29118        50485    574
## 999  106.31    711  999           577           6492        74508    135
## 1000 102.57   1812 1000          2036          38963        50311    963
## 1001 126.90    680 1001           781           2211        58894     33
## 1002 153.72    854 1002           677           9240        42168    187
## 1003 113.81    937 1003           693          11422        61042    260
## 1004  88.00    897 1004          1277          20962        92943    191
## 1005 122.82    392 1005          1347          20438        59351    407
## 1006  91.34    492 1006          1066          10548        68704    261
## 1007 121.03   1198 1007          1128          21621        51141    396
## 1008 142.37    741 1008           318          12401        54508    181
## 1009  95.47   1303 1009           806          18546        69339    413
## 1010  93.00    571 1010           702           9127        70549    141
## 1011  71.54   1383 1011           967           7980        88289    185
## 1012 155.60   1067 1012           467           8704        44259    196
```

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## 1013  99.28    687 1013           797          13595        55838    204
## 1014 106.21   1521 1014           957          20872        51212    361
## 1015  88.06    661 1015           906          19921        71870    342
## 1016 104.24   1418 1016           456           3677        63654     67
## 1017  91.40    892 1017           878          14587        69086    311
## 1018  87.18   1033 1018          1393          33337        88024    283
## 1020 113.75    689 1020           773          12812        54128    203
## 1021 119.00    714 1021           548           4089        70201    106
## 1022 106.71   2121 1022          1756          19949        55439    471
## 1023 145.38   1167 1023          1624          14255        52034    243
## 1024 105.89   1337 1024           932          33811        49244    951
## 1025  89.34    656 1025          1212          10718        70212    207
## 1026 128.03   1415 1026          1332           6511        54283     84
## 1027 124.18   1870 1027          1840          50365        48445    801
## 1028 117.28    728 1028           606          21342        47998    605
## 1029 109.76   1134 1029           551           8973        57333    228
## 1030 105.47    444 1030            -1           5324        62284    128
## 1031 111.97   1434 1031          1382          37534        81214    534
## 1032 101.04    995 1032          1142          28526        55187    426
## 1033 140.80    828 1033           876          15951        41689    277
## 1034 155.86   1127 1034           279          12079        46258    230
## 1035 122.93   2282 1035          2293          59245        53159    818
## 1036 131.98   1257 1036          1456          25259        52723    549
## 1037 121.26   1633 1037          1612          26192        64212    520
## 1038 106.97    950 1038           530          22053        52116    835
## 1039  82.31   1661 1039          1917          50951       113347    652
## 1040 111.88   1101 1040           579          14962        55160    486
## 1041 114.41   2151 1041          1761         129267        52267   3608
## 1042 111.17   1524 1042          1500          46057        67728    741
## 1043 105.46   1385 1043          1078           7492        72833    125
## 1044 120.99    348 1044           770          16543        56807    283
## 1045  97.85   1597 1045          1670          20260        65060    372
## 1046 105.47   1682 1046          1795          40830        63912   1065
## 1047 113.82    422 1047           675           7532        65559    136
## 1048  87.07    988 1048           505           5696        77885     71
## 1049 117.95    792 1049          1249          18171        47801    239
## 1050  94.45   1040 1050          1259          26731        64675    367
## 1051  98.81   1453 1051           837          11950        69115    229
## 1052 123.16    825 1052           746           7155        60568    186
## 1053 164.16    498 1053           975          11495        33632    164
## 1054 131.41   1235 1054          1766          45907        49691   1121
## 1055 119.66   1944 1055          1404          39686        63838    586
## 1056 127.42    861 1056           483           5276        66038     55
## 1057 135.70    277 1057           824          18073        52152    304
## 1058  83.91    389 1058          1117          11757        67690    270
## 1059 104.63   1388 1059          1218          28083        83898    318
## 1060 122.68    858 1060          1199          18843        47014    323
## 1061 120.82   1487 1061          1340          24685        52462    363
## 1062 115.87    645 1062          1081          17327        63805    287
## 1063 111.84   1833 1063          1904          44597        57997    898
## 1064 102.70    628 1064           937          20551        48484    424
## 1065 100.67    626 1065           924          26075        70268    363
## 1066 103.95    875 1066          1554          28880        60047    571
## 1067  83.26    361 1067          1002          17636        81122    247
```

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## 1068 108.49    870 1068          883          13164        43206    298
## 1069 122.58   1012 1069         1959          22085        52047    447
## 1070 106.83   1084 1070         1299          12873        58786    205
## 1071  98.02   1045 1071          839          10001        70828    178
## 1072  97.33   1819 1072         1817          39275        64927    640
## 1073  98.30   1745 1073         1499          20084        50647    441
## 1074  98.37    508 1074          910          13219        56056    222
## 1075  93.48   1099 1075         1190          42570        72894    989
## 1076 105.33   1348 1076          955          17229        62649    331
## 1077  98.66    655 1077          617          18947        63356    346
## 1078 108.42   1312 1078         1477          22552        51138    464
## 1079 172.06    803 1079          440           7589        31495    145
## 1080  84.13    682 1080         1141          14893        71750    282
## 1081  97.02   1637 1081         1383          19876        70909    326
## 1082 106.45   1205 1082          252           8035        60692    115
## 1083  98.70   2150 1083         1900          41864        62794    612
## 1084 109.42    564 1084          841          16346        66776    169
## 1085 100.44   1932 1085         2357         145889        74034   2302
## 1086  93.50   1109 1086          682           9822        53839    218
## 1087 145.07    723 1087         1193          19590        44103    411
## 1088  73.38    245 1088         1297           9686        71060    129
## 1089  98.95    615 1089           -1          11199        53650    228
## 1090  97.15   1540 1090          935           9389        63947    171
## 1091 148.81    488 1091          732          10942        43393    270
## 1092  95.67   1830 1092         1489          20736        68554    445
## 1093 105.37   1053 1093         1152          23300        62933    387
## 1094  92.29    629 1094          875           9854        65345    130
## 1095  96.40   1160 1095          992           9787        62601    175
## 1096  97.31    666 1096         1132          16734        64393    291
## 1097 160.65    793 1097          679           8376        35930    164
## 1098 124.17   1036 1098         1268          19470        49653    316
## 1099  79.99    993 1099          853           5662        74521    133
## 1100  95.16   1206 1100          973          17119       100318    114
## 1101  98.53   1513 1101         1705          28461        50391    743
## 1102 147.16    755 1102          436           5182        68299     74
## 1103 121.93   1460 1103          907          12587        64882    284
## 1104  87.90   2450 1104         2422         119547        68756   1487
## 1105 109.66   1370 1105          638           4254        58516     83
## 1106  95.22    898 1106           -1           4847        73013     76
## 1107 107.16   1401 1107         1488          43089        53479    697
## 1108 105.65   1419 1108          626           7172        85603    112
## 1109 140.59    843 1109          966          21441        51908    351
## 1110 181.42    556 1110          465           4176        50178     57
## 1111  83.25    813 1111         1101          11868        73421    215
## 1112 125.60    893 1112          872          14146        58322    288
## 1113 104.76    699 1113          736           6084        75938     91
## 1114 151.97    873 1114         1027          12020        37981    218
## 1116 121.23   1676 1116         1548          22042        54563    454
## 1117 137.66   1634 1117         1532          14215        50182    298
## 1118 105.39   1545 1118         1345          15715        55704    384
## 1119 141.83   1939 1119         1453          12936        54035    272
## 1120 133.78   1054 1120         1881          28031        44038    657
## 1121  81.89    429 1121          889           7589        82261    119
## 1122 102.16   1493 1122          915           5261        74043    115
```

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## 1123 121.99    838 1123           947          14772        67361    291
## 1124 108.63    909 1124           393           7406        63307    205
## 1125  95.37    880 1125           856           6108        72957     88
## 1126 112.52   1047 1126           938          12242        51146    294
## 1127 103.84    911 1127           902          13859        62052    176
## 1128  85.23    896 1128          1039          21904        76605    191
## 1129 100.50   1274 1129           852          10254        63190    297
## 1130 127.96    667 1130          1231          17482        45931    346
## 1131 116.16    960 1131           986          18676        54961    280
## 1132 107.73   1862 1132          1535          32177        51216    634
## 1133 124.96   1773 1133          1422          29197        51496    618
## 1134  88.41   1554 1134          1879          42785        65537   1502
## 1135 111.02   1142 1135          1188          10865        58598    235
## 1136 111.34   1291 1136          1452          30570        53102    766
## 1137 112.16   1263 1137           964          13593        46901    349
## 1138 156.56    625 1138           283           7946        42790    139
## 1139  95.98   1261 1139          1502          25402        63039    337
## 1140 107.17   1448 1140          1669          42674       117919   1011
## 1141 111.81    777 1141          1143          15221        49663    209
## 1142 102.89   1609 1142           865          28920        64972    645
## 1143  91.79   1424 1143          1285          26508        67092    381
## 1144 107.69   1210 1144          1216          33771        60767    777
## 1145 183.16    391 1145           480           2826        26686     52
## 1146 146.29   2181 1146          2240          50632        61314   1065
## 1147  76.80   2212 1147          2248         120689       108986   2367
## 1148  74.83   1185 1148           814          11563        61319    227
## 1149 109.29   1474 1149           874           4452        69496     86
## 1150 169.58    679 1150          1105          16905        37355    196
## 1151  87.81    926 1151          1495          11587        64478    294
## 1152 114.67   1003 1152           696           3993        52432    123
## 1153 129.94   1707 1153          1905          25651        81675    415
## 1154  85.79   1538 1154          1293          18582        64837    401
## 1155 116.25   1018 1155          1112          21288        48418    369
## 1156  88.26   1202 1156          1159          16547        72185    326
## 1157 112.66   1579 1157          1937          19236        58274    333
## 1158  93.38   1801 1158          1436          32612        60495    597
## 1159  87.92   1083 1159           542          13379        75355    177
## 1160  90.75   1228 1160          1036          17143        41071    392
## 1161 120.77    591 1161          1084          18117        50520    415
## 1162 119.37    953 1162           885          11459        50435    216
## 1163 127.59   1110 1163           595          13445        47696    168
## 1164 117.81   1697 1164          1727          44679        55527    637
## 1165  93.63    195 1165          1430          18177        72603    291
## 1166 100.04   1094 1166           790          14193        51396    231
## 1167  90.66    721 1167           842           6570        73750    104
## 1168 129.09   1324 1168           801          15323        42864    272
## 1169  90.41    942 1169          1164           9759        70991    204
## 1170  81.81   1811 1170          1423          21525        60172    425
## 1171 107.47    985 1171          1162          19074        59333    413
## 1172 191.36    817 1172           726           7127        36207    101
## 1173  95.28   1250 1173          1381          20722        53673    350
## 1174 104.29   1103 1174          1180          30857       106255    151
## 1175 122.69   1124 1175           486          21640        58628    314
## 1176  99.12   2013 1176          2021          84987        68546   2477
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## 1177  93.18    799 1177          1407          13258        70975    235
## 1178  97.67   1120 1178          1627          46948        65622    790
## 1179  91.18   1592 1179          1677          25275        56733    485
## 1180 108.92    871 1180          1652          26897        46077    336
## 1181  85.24   1472 1181          1192          15081        61752    202
## 1182 132.48   1308 1182           828           3460        40380    122
## 1183 112.89   1912 1183          1075          47554        74011    671
## 1184 110.26   1232 1184          1095          10878        57753    189
## 1185  96.85    748 1185          1400          20411        62878    375
## 1186 106.06   1042 1186           568           6224        57458    145
## 1187 104.33   1475 1187           753          11685        49503    212
## 1188  94.17    966 1188          1186          16546        62526    292
## 1189  80.36   1539 1189           991          10213        77375    286
## 1190 100.57   1446 1190          1348          21131        56082    457
## 1191  86.29   1860 1191          1080          20479        61768    423
## 1192 101.56   1178 1192           620           7029        63432    132
## 1193  89.58   1896 1193          2019          58546        95523   1079
## 1194 138.25    467 1194           971          16808        52279    374
## 1195 113.72   1049 1195          1533          20195        58870    334
## 1196 112.08    963 1196          1250           4681        72563     79
## 1197 101.78   1704 1197          1244          20599        62818    440
## 1198 103.89    456 1198          1320          20281        54114    286
## 1199 117.56    891 1199          1443          25224        50769    545
## 1200  98.30    712 1200          1433          14933        76082    196
## 1201  95.54   1394 1201          1238          14231        74058    212
## 1202 111.99   1714 1202          1026          46074        61415   1237
## 1203 111.34   1044 1203           672           8672        48299    152
## 1204 110.01   1342 1204           849           8874        70953    202
## 1205 110.40   1372 1205           987           7015        59810    129
## 1206 118.00   1723 1206          1492          21240        54237    434
## 1207  89.92   1777 1207          1700          43526        73234    503
## 1208 102.22   1927 1208          1514          49624        88018    813
## 1209  83.33   1098 1209           961          19429        71605    376
## 1210 115.07   1214 1210          1034          24415        50862    470
## 1211  97.78    919 1211           996          14774        65096    385
## 1212 109.21    643 1212           684          14713        56984    234
## 1213 101.51   1650 1213          1129          20971        65508    346
## 1214 118.96    958 1214           353           5072        52197    110
## 1215  85.09   1511 1215          1079           8304        67377    166
## 1216 101.77   1264 1216          1851          35772        61130    625
## 1217 113.19    553 1217          1110          13057        39811    216
## 1218 117.62   1117 1218           978           5371        53925    105
## 1219 118.54   1199 1219           787          10611        60000    235
## 1220 113.88   1719 1220          1987         121710        72923   3050
## 1221 109.75   1561 1221          1483          25778        61619    523
## 1222 141.13   1856 1222          1346          10787        44634    251
## 1223 107.26   1645 1223          1540          19778        47654    343
## 1224 124.52   1718 1224          1541           8646        56648    182
## 1225 112.64   1852 1225          1962          43575        47620    873
## 1226 112.39   1027 1226          1003          14399        48500    348
## 1227 109.14   1195 1227          1625          32345        48540    899
## 1228 113.66   1620 1228          1572          51492        59752    584
## 1229 103.41   1079 1229           919           5519        62452    101
## 1230 133.40    510 1230          1030          17609        49071    413
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## 1231 104.23   2346 1231          2307          83772        68904    777
## 1232  98.86    326 1232           369           2278        62024     40
## 1233  99.42   1037 1233           941          13786        59946    327
## 1234 100.97    980 1234          1194           8983        65988    222
## 1235  94.02   1064 1235          1120          16261        71915    301
## 1236 105.13   1536 1236          1897          58364        71809   2253
## 1237 117.48   1008 1237          1275           8921        57961    212
## 1238 131.37   1268 1238          1072           9482        51161    228
## 1239 136.67    821 1239           896          16171        45584    343
## 1240 122.83   1441 1240          1446          11667        49930    210
## 1241 104.51    895 1241          1203          33299        58133    757
## 1242  99.25   1334 1242          1158           9786        67687    129
## 1243 118.77   1220 1243           868          18738        46257    515
## 1244 101.98   1569 1244          1253          26574        66766    438
## 1245 112.19   1608 1245          1988          41343        68705    757
## 1246  83.34    800 1246          1396          42653        84764    508
## 1247 122.40   1309 1247           940          11699        45905    208
## 1248  98.72   1092 1248          1247          12817        64033    273
## 1249 103.38   1666 1249          1689          14565        50160    360
## 1250 142.24    853 1250          1076          14079        43905    291
## 1251  93.61   1089 1251          1350          10648        63719    177
## 1252 120.20   1430 1252          1637          24108        50436    370
## 1253  76.10   1640 1253           699           8989        56033    125
## 1254  95.68   1306 1254          1085          19165        66917    435
## 1255  89.61   1297 1255          1005          16075        81430    257
## 1256 110.63   1792 1256          1770          25874        55849    367
## 1257 131.48   1552 1257          1182          19348        49252    475
## 1258 101.02    773 1258          1559          35617        63115    747
## 1259 165.52    659 1259           795           6484        29052    127
## 1260 115.40   1931 1260          1389          18243        59055    388
## 1261 113.82   1596 1261          1070          13811        63750    290
## 1262 102.92    677 1262          1505          15930        59498    420
## 1263 116.71   1537 1263          1459          37533        53298    752
## 1264  99.06   1321 1264          1198          35995        63128    490
## 1265  82.39    769 1265          1341          12101        90740     68
## 1266 114.63   1006 1266          1019          15452        59363    299
## 1267 129.65   1130 1267           694           7627        49899    157
## 1268  97.33   1887 1268          1936          78292        49862   1006
## 1269  99.32   1463 1269          1549          37004        67824    788
## 1270  96.73   1953 1270          1680          37351        64725    950
## 1271  88.38   1751 1271          1678          34625        88000    444
## 1272 149.51   1063 1272           903          10347        42236    183
## 1273 112.85   1244 1273           756          15948        50435    357
## 1274  86.10   1350 1274          1104          10710        80223    134
## 1275  94.55    795 1275          1262          14661        58092    261
## 1276  91.72   1112 1276           936           6697        79167     82
## 1277  94.01    672 1277            -1          14469        71676    287
## 1278  97.67    404 1278          1235          26411        74228    543
## 1279 114.46    839 1279          1476          27764        52206    566
## 1280  83.74   1368 1280          1214          14280        88289    112
## 1281 103.59   1351 1281          1560          32807        49919    746
## 1282 101.30   1259 1282           432           4938        63095    130
## 1283 104.46   1481 1283          1764          36440        65268    509
## 1284  93.86   1464 1284          1769          33175        59803    717
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## 1285 111.30   1903 1285          1785           49394        61027    964
## 1286 133.29    398 1286          1429           17120        60975    319
## 1287 124.73   1121 1287          1360           18807        44881    466
## 1288 113.85    445 1288          1334           17702        60227    360
## 1289 118.40    917 1289          1048           14506        54306    380
## 1290 104.30   1152 1290          1344           24870        54822    485
## 1291 108.11   2219 1291          2473           48255        58856   1244
## 1292 151.22    740 1292            -1            5042        43523     82
## 1293 112.55   1267 1293          1318           10219        63691    179
## 1294 105.93   1215 1294           995           19746        64758    357
## 1295 132.53    388 1295          1138           13855        36527    105
## 1296 118.68    833 1296          1565           25543        55576    567
## 1297 115.63   2030 1297          2151           60792        60362    919
## 1298  94.86   1689 1298          1487           19813        58460    336
## 1299  87.30   1740 1299          1356           30712        75994    412
## 1300  96.24   1921 1300          1883           40927        67032    777
## 1301 140.52   2379 1301          2252           23550        46191    477
## 1302  98.20   2320 1302          2137           59490        64583   3387
## 1303  98.61   1159 1303          1626           35276        70829    549
## 1304 120.14   1795 1304          2027           68215        60217   2521
## 1305 113.29   1118 1305          1187           15254        53319    276
## 1306 111.31   1611 1306          1834           27754        48492    450
## 1307 123.21   1455 1307           802           14440        45577    275
## 1308 113.39   1525 1308          1517           30720        65016    522
## 1309  80.24   1331 1309          1210           11363        72205    206
## 1310  87.12   1712 1310          2118           80640        85012    778
## 1311 101.90   1621 1311          1617           12276        90085    141
## 1312 100.08   1436 1312          1061           51189        62182   1137
## 1313 103.65   2123 1313          1922           51780        59066   1132
## 1314 152.22   1473 1314          1338           24757        44290    519
## 1315 124.10   1217 1315          1480           12249        70217    108
## 1316  89.82   1534 1316          1920           51863        82172    662
## 1317 103.32    957 1317            -1           15461        64802    291
## 1318 154.31   1179 1318           600            7650        53824     77
## 1319 134.25   1405 1319          1339           18555        43059    381
## 1320 122.09   1595 1320          1399           23410        67132    368
## 1321 128.17   2011 1321          2250           50453        48184   1250
## 1322  96.10   1201 1322           877            9438        79884    159
## 1323 108.43   1355 1323          1978           51291        62197    760
## 1324 123.22    818 1324          1022           16211        47157    273
## 1325  97.45   2075 1325          2010           33823        73269    845
## 1326 115.69    339 1326            -1           15137        53438    228
## 1327  89.71   2707 1327          2713          162621        85427   1485
## 1328 104.36   1014 1328          1604           25352        67285    537
## 1329 125.19   1222 1329          1428           23639        54106    507
## 1330 122.25   1363 1330           722           15551        64922    232
## 1331 100.37   1578 1331          1791           36646        64995    590
## 1332 149.51    694 1332          1098           10261        40176    129
## 1333 116.91   1354 1333          1475           18116        60365    324
## 1334 113.13    990 1334          1333           16265        44164    274
## 1335  94.60   1248 1335          1375           24098        71747    256
## 1336  95.46   1326 1336          1392           18971        63205    468
## 1337  89.99    865 1337          1368           12136        76125    157
## 1338 117.41   1699 1338           977           16050        57645    331
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## 1339 121.37    916 1339          1530          30658         63503    649
## 1340  98.66   2495 1340          2033          72764         68450   1339
## 1341  92.21   1039 1341          1106          10646         79981    190
## 1342 113.18    902 1342          1301          11394         62166    229
## 1343 178.43   1091 1343          1468          14019         31784    312
## 1344 114.81   1107 1344          1569          25793         56269    371
## 1345 108.75   1071 1345          1248          17623         57572    268
## 1346 124.78    744 1346          1263          11181         46185    148
## 1347 101.16   1122 1347          1522          20196         62799    368
## 1348 103.14   1345 1348          1752          26205         61871    559
## 1349  99.77   1724 1349          1849          22424         69107    431
## 1350 105.85   2037 1350          1992          53850         66435    454
## 1351 103.47   1233 1351          1580          19680         55404    365
## 1352 102.11   1377 1352          1365          28009         56807    520
## 1353 110.27    466 1353          1009          18019         60098    257
## 1354 120.12    671 1354          1484          27994         47994    474
## 1355 107.88   2474 1355          2500         136503         69012   1742
## 1356 113.96   2243 1356          2011          57825         58846   1209
## 1357 100.21   2022 1357          1909          22386         60348    426
## 1358 119.32    708 1358          1449          15054         56989    334
## 1359  90.90    860 1359          1300          25163         79124    278
## 1360 106.78   1140 1360           812           4839         65164     78
## 1361 105.59    983 1361           900          14545         64798    266
## 1362  99.35   1102 1362           717          25224         56583    445
## 1363 121.99   1386 1363          1474          19002         52445    235
## 1364  97.15   1720 1364          1509          25994         72142    427
## 1365  80.61    490 1365           930           2137         58000     51
## 1366 148.38    798 1366           891          12363         37383    211
## 1367 100.21   1132 1367          1403          21259         70625    587
## 1368 108.15   1145 1368          1056           5170         61688    104
## 1369  73.33   1599 1369          1706          50568        110926    675
## 1370  99.87   2248 1370          2365          84339         78520    774
## 1371 124.49   1011 1371           784           8166         52057    187
## 1372 100.80   1548 1372          1126          37713         59881    419
## 1373  93.07   1668 1373          1294          12878         83716    135
## 1374 143.52   1387 1374           689          12769         34992    303
## 1375 106.68   1016 1375           840          13866         47728    314
## 1376  98.55   1586 1376          1073          14330         60148    318
## 1377 114.62   1057 1377           764          12418         62734    196
## 1378  90.15   1610 1378          1644          51064         77158    986
## 1379 121.99   1808 1379          1801          24973         73051    408
## 1380  94.87   1272 1380          1775          19936         61401    437
## 1381  83.52   1041 1381           582           4107         70263     62
## 1382 113.25   2409 1382          2437          43314         60236   1082
## 1383  96.97   2832 1383          2831         297545         74446   4279
## 1384  96.96   1212 1384          1369          15168         57752    336
## 1385 106.10   1644 1385          2005          55398         62608    787
## 1386 116.91   1237 1386           923           8975         67420    164
## 1387 110.19    954 1387          1525          13142         56713    254
## 1388  96.37   1606 1388          1257          11458         68239    272
## 1389 105.58   1636 1389          1311          20565         41800    321
## 1390  78.21   1452 1390          1440          20677         68528    477
## 1391 103.63   2289 1391          2143         167784         82374   2904
## 1392 113.42    846 1392          1531          26788         63624    400
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## 1393 113.25   1562 1393          1537          41342         67418    533
## 1394  94.51   1688 1394          1405          32145         59078    507
## 1395 100.95   1056 1395          1725          27906         53471    579
## 1396 100.80   1695 1396          1343          44630         64437    894
## 1397  92.26   1051 1397          1280          14038         66000    324
## 1398 101.20   1468 1398          1379          21234         61325    248
## 1399 133.26   1429 1399           536          20741         46972    451
## 1400  84.12   1332 1400           528           5551         76354    129
## 1401 150.56   1319 1401           760           9586         38402    166
## 1402  97.61    835 1402          1256           1845         75417     45
## 1403 105.77   2099 1403          2035          94293         72349   1746
## 1404  67.99   1273 1404          1658          42788        115925    732
## 1405 126.60   2157 1405          2310          47237         54280   1060
## 1406 116.10   1015 1406           990          16144         48367    478
## 1407 156.62   1391 1407          1166          13438         41101    298
## 1408  92.46    967 1408          1012           7284         59819    155
## 1409 103.09   1373 1409          1236          23750         59396    488
## 1410 141.66   1315 1410          1000           7137         59000    140
## 1411 102.93   1999 1411          1990          68652         70235   1635
## 1412 100.24   1087 1412          1140          14017         68455    233
## 1413  89.77   1902 1413          1956          48599         82671    529
## 1414 122.73   1158 1414          1042          12373         52003    216
## 1415  92.34   2074 1415          2351          43779         84778    522
## 1416 106.57   1495 1416          1020           5028         53693     74
## 1417  91.31   2288 1417          2294          82493         86906    931
## 1418 134.92    806 1418          1007          11411         42266    264
## 1419  91.88   1133 1419          1481          20228         64604    388
## 1420  93.21   1802 1420          1479          21700         70622    364
## 1421 114.09    652 1421           209          11837         60976    228
## 1422 110.27   1284 1422          1200          19972         63142    319
## 1423  96.01   1358 1423           772          23358        112681    173
## 1424 128.59   1395 1424          1372          18494         61070    268
## 1425  74.59   1123 1425          1251           9567         81292    113
## 1426  99.64    862 1426           884           5209         71771    125
## 1427 123.48   1255 1427          1243           9921         60051    170
## 1428 109.44   1050 1428           794          23942         59508    369
## 1429 138.92   1241 1429           843          18462         39904    367
## 1430  79.82   1151 1430          1553          28870         59889    748
## 1431 102.68   1764 1431          1874          19607         64946    311
## 1432 107.91    811 1432            -1          12826         64907    165
## 1433 106.48   1176 1433          1622          31284         59220    704
## 1434 132.67   1357 1434          1470          28900         34501    668
## 1435  94.68   1126 1435          1288          27666         87320    277
## 1436 133.28   1074 1436          1172          18951         45951    295
## 1437 111.15   1488 1437          1139          24352         52112    419
## 1438  94.03   1649 1438          1782          12501         76576    190
## 1439 130.31   1384 1439          1241          16308         47556    275
## 1440 120.56    852 1440          1307          22890         56345    586
## 1441  75.27   2045 1441          1867          73935        129495   1006
## 1442 131.61   1161 1442           958          18948         50865    354
## 1443  90.52   1022 1443          1273          22929         79702    252
## 1444 115.99    977 1444          1286          25477         46173    446
## 1445  96.40   1162 1445          1131           7035         60132    137
## 1446 125.47   1789 1446           815          19626         48236    515
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## 1447  91.95    934 1447          1592           34648        71483    508
## 1448 102.83    738 1448          1681           33198        79634    492
## 1449  98.65   2192 1449          2195           61439        70975    851
## 1450  96.08    955 1450          1378           14610        65656    294
## 1451  86.84    999 1451          1284           20799        73071    337
## 1452 101.14    690 1452          1308            7118        66653    118
## 1453  98.93   1165 1453          1412            6552        67304    124
## 1454 135.12    757 1454          1134           13028        41632    185
## 1455  99.70   1656 1455           905           61245        83619   1250
## 1456  90.45   1968 1456          1792           42735        69512    687
## 1457  98.94    826 1457          1376           39711        68435    442
## 1458 121.03   1703 1458          1607           25238        67940    324
## 1459 151.84   1445 1459           602            4379        40149     95
## 1460  91.51   1655 1460          1521           18958        75052    270
## 1461  99.33   1431 1461          1645            6936        74223     67
## 1462 142.28   1304 1462           523           12324        38905    126
## 1463 100.52   1967 1463          1713           25268        59076    381
## 1464 125.16   2321 1464          2304           36922        53123    708
## 1465 122.55   1221 1465          1363           19887        52200    463
## 1466  83.86   1945 1466          1980           25699        81600    404
## 1467 110.33   2465 1467          2387           82290        48937   1148
## 1468 147.44   1135 1468          1090           12345        44449    206
## 1470 153.33   1029 1470           974           33365        50741   1710
## 1471  92.84   2776 1471          2555          178315        66043   4798
## 1472 109.83   1866 1472          2029           67904        55517   1515
## 1473  82.68   1088 1473          1485           17844        74570    352
## 1474 106.21   1564 1474          1097           24752        64968    408
## 1475 107.94   2221 1474          2295           33917        59425    532
## 1476  96.72   1672 1476          1660           28936        90218    333
## 1477 105.41   1911 1477          2106           81372        56832   1461
## 1478  93.11   1420 1478          1161           51473        43482    698
## 1479 126.04   2651 1479          2615          208537        64568   1889
## 1480  91.04    913 1480           835            2573        74130     56
## 1481  95.31   1069 1481            -1           15621        60871    238
## 1482  84.67   1553 1482          1228            8961        71701    103
## 1483  81.59    693 1483            -1           12169        81334    167
## 1484 115.82   2060 1484           754            8606        66299    181
## 1485  95.06   1737 1485          1994           38597        60662   1045
## 1486 109.44   1426 1486          1691           35589        57504    886
## 1487  93.40   1282 1487          1699           33442        68561    580
## 1488 117.27   1030 1488          1434           14749        41325    282
## 1489 120.81   1549 1489          1593           11737        60547    255
## 1490  97.66   1926 1490          1623           30708        61635   1198
## 1491 113.44    918 1491           983           13308        58962    237
## 1492 121.63    973 1492          1578           25229        57223    402
## 1493  96.16   1879 1493          1749           46094        62524    919
## 1494 136.96   1343 1494           424           14233        53341    307
## 1495 135.88   1588 1495          1189           17643        57657    298
## 1496 108.92   1706 1496          1579           33142        52644    570
## 1497 111.91   1874 1497          1846           33313        71143    630
## 1498  98.69    673 1498          1650           27584        68476    390
## 1499 111.25   1128 1499          1290           18487        54114    227
## 1500 118.37   1869 1500          1641           22740        47188    318
## 1501 104.21   1080 1501          1432           28271        57468    560
```

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## 1502 101.05   2703 1502          2614           95555        84722   1064
## 1503 120.92   1705 1503          1523           14392        50408    281
## 1504 109.85    683 1504            -1           13350        65203    148
## 1505 136.55   1077 1505          1116           26586        49893    536
## 1506 114.79    978 1506          1546           22072        46701    437
## 1507  94.00   1253 1507          1150           11169        70593    192
## 1508 104.21   1499 1508          1266            9478        57594    181
## 1509 130.02   1632 1509          1653           15290        46250    225
## 1510 108.67    986 1510          1534           28167        61358    433
## 1511  91.69   2460 1511          2370          102840        82837   2948
## 1512 154.74    566 1512          1242            9532        41887     92
## 1513 106.57   1528 1513          2129           32083        56500    803
## 1514 124.51    842 1514          1508           21640        62269    301
## 1515 108.28    765 1515          1052           19699        36791    407
## 1516 113.95   1520 1516          1417           23390        56659    419
## 1517  97.16   1411 1517          1207           54607        51367    786
## 1518 101.19   1816 1518          1828           53792        74886    628
## 1519 112.83   1157 1519          1312           23929        51351    415
## 1520 164.87    856 1520           988           20170        48593    256
## 1521 111.11   1728 1521          1390           20227        51643    355
## 1522  99.51   1794 1522          1819            8856        72294    132
## 1523  86.17   1346 1523          1366           28186        70833    352
## 1524  91.06   2447 1524          2440          164322        76896   1903
## 1525 120.15   1224 1525          1254           28927        53087    627
## 1526 104.84   1144 1526          1102           14983        67689    242
## 1527  89.99   1298 1527           495           11176        69093    144
## 1528 101.73   1628 1528           822            8344        73977    134
## 1529  81.16   1320 1529          1330           15301        73611    271
## 1530 134.08   1502 1530          1490           18226        47001    369
## 1531  93.19   1314 1531            -1           10378        69826    173
## 1532  90.75    974 1532          1394            4355        72500     69
## 1533 130.49   1240 1533          1616           10866        53608    241
## 1534  85.88   1021 1534            47           12585       126092     99
## 1535 110.21    949 1535          1046           25048        55979    546
## 1536 121.78   1058 1536          1513           21193        57408    317
## 1537 139.29   1814 1537          1557           21773        46793    390
## 1538 115.51   1052 1538           994           25933        50714    502
## 1539  94.54   1769 1539          1410           28403        67726    604
## 1540  88.74   1043 1540          1605            8902        68963    231
## 1541  79.50   1390 1541          1303           19972        75652    301
## 1542 109.66   1977 1542          2073           64930        52794   1953
## 1543 111.06   2323 1543          2349           91585        55796   2096
## 1544 116.37   2144 1544          2193           64850        49771   1519
## 1545 103.76   2168 1545          2179           38158        62564    915
## 1546  97.51   1824 1546          1328           30279        71785    567
## 1547 102.35   1785 1547          1970           35265        60034    702
## 1548 116.74   1836 1548          1077           17846        51741    425
## 1549 105.34   2027 1549          2336          111153        79431   2186
## 1550 114.50   1295 1550          1913           58336        61997   1192
## 1551 109.80   2488 1551          1809          102879        73012   1379
## 1552 105.84   1486 1552          1567           27731        61535    404
## 1553 106.16   2128 1553          2360           60630        73460    901
## 1554  97.30   2525 1554          2334          192123        84819   3280
## 1555 101.66   1236 1555          1760           14715        65991    182
```

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## 1556 103.03   1254 1556          1025           13341        68722    159
## 1557  89.05   1280 1557          1306           27202        67799    701
## 1558 104.95    886 1558            -1           13396        60782    416
## 1559 132.69   2092 1559          2246           27293        66780    581
## 1560 127.42   1181 1560          1695           12284        59773    208
## 1561  89.66   1648 1561          1765           20684        66564    290
## 1562  89.78   1299 1562          1202           20621        80085    251
## 1563  98.13    947 1563          1566           27938        61366    418
## 1564 110.56   1956 1564          1601           28582        54328    682
## 1565  94.75   1171 1565          1595           23149        72152    387
## 1566  90.17   2370 1566          2075           51563        66470   1239
## 1567 125.37   2163 1567          1581           42239        42778   1743
## 1568 106.16   1400 1568            -1            9233        71094    108
## 1569  93.11   1028 1569          1427           25808        87694    252
## 1570  96.43   1729 1570          1856           68356        72425   1129
## 1571 117.31   2124 1571          2177           25779        57127    494
## 1572 102.80   1600 1572          1556           41904        57867   2113
## 1573 104.01    639 1573          1887           36681        54973   1047
## 1574 107.90   1230 1574          1882           20720        52546    294
## 1575  85.54   1330 1575          1524           19871        70890    266
## 1576 107.38   1471 1576           800            9880        63490    251
## 1577  86.96   1175 1577          1602           20989        90188    270
## 1578 236.97   1547 1578          1230           18413        29980    386
## 1579 126.79   1262 1579          1721           11931        57601    224
## 1580  86.64   1278 1580          1493           27581        79267    359
## 1581  98.55   1458 1581          1491           21646        64426    458
## 1582 100.44   2551 1582          2653          227957        72365   3059
## 1583 132.80   1238 1583          1302           22740        41784    363
## 1584  86.70   1329 1584          1536           16289        65039    274
## 1585  83.52   1529 1585          1598           17549        76205    296
## 1586 149.96    984 1586          1024           14046        37736    190
## 1587 104.41   1396 1587          1425           32959        49502    695
## 1588 109.22   1557 1588          1195           19378        72899    320
## 1589 103.68   1427 1589          1220           37707        58842    540
## 1590 115.38   1855 1590          2043           26204        63005    497
## 1591 120.07   1535 1591          1239           16330        44145    245
## 1592 155.61   1482 1592          1316           19857        42216    414
## 1593  76.07   1576 1593           628            5264        80614    101
## 1594 100.33   2015 1594          2234           66924        64343   1311
## 1595 115.15   1444 1595           892           16251        52824    308
## 1596  89.16   1863 1596          1438           22539        71339    412
## 1597 100.65   1219 1597          1205            9452        75239     86
## 1598 123.88    888 1598          1575           19592        41933    345
## 1599  92.84   1246 1599          1282           30703        64103    580
## 1600  89.13   1227 1600          1519           14645        77027    333
## 1601  88.91   1952 1601           630           10488        69976    206
## 1602  89.76   1665 1602          1767           79566        60193   1947
## 1603  92.63   1732 1603          1127            9352        66073    196
## 1604  99.15   1209 1604          1694           24709        66143    533
## 1606  94.50   1828 1606          1664          137536        73297   4847
## 1607  89.30   2133 1607          1808           85095       100859   1216
## 1608 109.91   1060 1608          1668           24788        69338    277
## 1609 111.30   1114 1609          1325            7326        54650    141
## 1610 118.92   2130 1610          2431          101074        64635   2322
```

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## 1611 104.09   2544 1611          2537          62322        67302   1549
## 1612 125.64   1503 1612           607           6666        64838    131
## 1613  99.42   1371 1613          1121          15424        46054    283
## 1614 102.71   1442 1614          1206           3876        62885     39
## 1615 114.05   1709 1615           985          29979        71188    366
## 1616  90.79   1522 1616          1587          17069        62326    351
## 1618  89.34   1838 1618          1963          64198        86802   1408
## 1619  92.32   2082 1619          2004          93355        95603    870
## 1620 155.25   1055 1620          1010           8773        42329    179
## 1621 120.92    996 1621          1562          27510        49521    602
## 1622 112.85   1409 1622          1632          24525        53657    693
## 1623 106.02   1417 1623          1064          10093        67225    193
## 1624  84.32   1416 1624          1568          12087        72881    141
## 1625 109.38   1414 1625          1748          15740        62395    279
## 1626 106.81   1711 1626          1868          62432        61001   1280
## 1627  86.76   2439 1627          2433         150071        94142   2419
## 1628 112.45   1753 1628          1723          45696        60140   1547
## 1629 133.88   1907 1629          1068          16041        49237    406
## 1630 106.48   1948 1630          1527          16749        61270    354
## 1631  85.81   1086 1631          1473          16760        89542    204
## 1632 116.07   1669 1632          1071           8362        64821    164
## 1633  75.25   1425 1633          1802          16916        84137    140
## 1634 104.96   1715 1634          1295          38120        56009   1245
## 1635 118.81   1877 1635          1108          24688        56232    508
## 1636 118.39    944 1636          1006          13665        45573    248
## 1637 102.86   1510 1637          1204          44099        56898    908
## 1638 139.39   1374 1638          1424           7536        47209    149
## 1639 123.66   1898 1639          1999          17060        65378    254
## 1640 101.72   1702 1640          1697          44948        55427   1221
## 1641  94.95   1100 1641          1712          28261        69741    529
## 1642  92.02    701 1642            -1          15619        71710    286
## 1643 105.43   1490 1643          1181          17484        66607    336
## 1644  94.84   1892 1644          1899          34159        73724   1216
## 1645 127.94   1461 1645          1322          19580        40225    481
## 1646  99.11   1767 1646          1222           8236        56430    125
## 1647 148.67   1726 1647          1431          34719        50868    637
## 1648 121.19   1270 1648          1191          25817        54111    550
## 1649 140.02   1605 1649          1148          16952        47655    225
## 1650 121.39   1496 1650          1211          28658        61017    438
## 1651 109.30   1629 1651          2096          54135        59674   1357
## 1652 102.65    928 1652          1398          26431        67676    429
## 1653 108.81   2083 1653          2181          41029        81526    801
## 1654  95.37   1182 1654          1738          36757        62734    649
## 1655 101.32   1691 1655          2185          63475        76838    667
## 1656 100.02   2186 1656          1679          11271        71227    179
## 1657  94.43    782 1657           555           5152        65475    124
## 1658 109.55   1742 1658          1599          14642        77027    172
## 1659 107.73   1901 1659          1043          16121        57914    337
## 1660  89.39   1422 1660            -1          13682        75652    211
## 1661  89.51   2313 1661          2139          36525        68377    655
## 1662  89.27   1743 1662          1971          39971        72785    884
## 1663 118.74   1191 1663          1154           8501        35084    211
## 1664  76.51   1023 1664          1591          18427        79080    263
## 1665 150.07   1081 1665          1415          15910        38874    364
```

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## 1666  80.42   1857 1666          1461           12352        83617    273
## 1667 120.28   1627 1667          1631           18460        54897    378
## 1668 115.95   1111 1668           728            4224        58156     75
## 1669 143.00   1285 1669          1033           10755        43898    194
## 1670 111.87   1663 1670          1923           37419        60321    617
## 1671 110.21   1585 1671           946            7996        75000    165
## 1672 101.41   2206 1672          2180           69329        50635   2284
## 1673  96.28   1497 1673          1165           45077        65551    905
## 1674 115.10    866 1674            -1           13958        62584    367
## 1675  98.62   1339 1675          1272           20158        86092    266
## 1676 147.76   1211 1676           920            4780        74250     48
## 1677 127.43   2898 1677          2812          336749        58780   5710
## 1678  94.41   1565 1678          1258           15383        67024    273
## 1679 112.44   1491 1679          1160           22807        46159    546
## 1680  90.54   1567 1680          1845           18391        77393    244
## 1681 104.42   1647 1681          1921           46182        56793    798
## 1682 115.20   1148 1682          1813           24468        54583    544
## 1683  87.57   1265 1683          1757           21699        71878    425
## 1684 112.99   1402 1684          1841           28908        51909    838
## 1685 129.81   2384 1685          2475           64832        60313   1705
## 1686  89.29   1566 1686          1726           32986        67763    436
## 1687 112.45   1451 1687          1055           16276        59840    378
## 1688  94.90   1269 1688            -1           16627        61603    265
## 1689 101.26   1701 1689          1385           36245        50825    732
## 1690 115.54   1333 1690          1545           32953        47961    621
## 1691  89.82   2033 1691          1741           46383        65177    936
## 1692 121.33    932 1692            -1           13173        57266    254
## 1693 116.18   1708 1693          1555           42588        49983    616
## 1694  89.35   2391 1694          1516           57943        72055   1149
## 1695 101.20   1066 1695          1315           28135        63995    453
## 1696 141.22   1307 1696           804           13003        41410    193
## 1697  99.57   1936 1697          1388           20605        82672    269
## 1698  93.19   1456 1698          1891           13115        61657    335
## 1699 128.40   1713 1699          1314           17685        48098    451
## 1700 109.93    969 1700          1717           13701        72767    183
## 1701  89.06   1754 1701          1327           11329        69578    166
## 1702  99.09   1664 1702          1803           33127        71457    698
## 1703 126.18   1462 1703          1768           25333        47777    704
## 1704 126.39   1393 1704          1176           13938        47493    204
## 1705 119.51   1759 1705          1510           29950        57459    489
## 1706 126.28   1421 1706          1482           25932        44808    422
## 1707 132.57   2149 1707          2199           72599        54190   1122
## 1708 110.59   2140 1708          1739           43205        60232    936
## 1709 109.99   1096 1709            -1           20810        59286    401
## 1710 100.15   1766 1710          1590           21067        55074    416
## 1711  79.98   2448 1711          2557          159638        96122   1347
## 1712 101.27   1437 1712           724            8449        60665    111
## 1713 100.70   1317 1713          1751           33074        59987    692
## 1714  91.66   1196 1714          1639           34388        75790    521
## 1715 124.85   1234 1715          1991           26726        50951    677
## 1716  99.33   1204 1716          1362           38174        59013    913
## 1717 123.53   1658 1717          1324           24303        42320    478
## 1718  98.01   1681 1718          1850           26143        76495    435
## 1719  80.84   1223 1719          1745           16550        72524    164
```

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## 1720 104.99   1607 1720          1586           30712        52672    517
## 1721 113.59   2004 1721          1871           68449        55887   1089
## 1722 133.36   1492 1722          1319            8616        43698    186
## 1723 106.68   1770 1723          2108           25247        60879    516
## 1724 136.30   1782 1724          2228           30360        48656    666
## 1726 118.16   1252 1726          1255           32588        58409    693
## 1727 118.48   1438 1727           479            6302        63750    122
## 1728 119.04   1187 1728          1283           42150        48427   1894
## 1729 101.44   1861 1729          2273          100361        82381   1896
## 1730 140.80   1410 1730          1588           20656        47018    444
## 1731  98.49   1146 1731          1861           43478        61553   1028
## 1732 147.16   1568 1732          2003           32162        42273    692
## 1733 122.24   1940 1733          2131           23750        62350    482
## 1734 106.15   1826 1734          1810           44197        72579    606
## 1735  94.74   1842 1735          1663           59455        76135    464
## 1736 128.05   2012 1736          2188           58858        50046    812
## 1738  86.79   2234 1738          2135           78319        88534   1485
## 1739  92.94   1231 1739          1628           18800        68167    242
## 1740 120.25   1924 1739          2062           39406        57279    672
## 1741  91.88   1775 1741          1577           33875        80467    518
## 1742 109.11   1216 1742           169           20446        53673    453
## 1743 117.11   1305 1743          1411           20141        61858    362
## 1744 128.13   1301 1744          1309           21969        42679    424
## 1745  96.71   1603 1745          2059           29177        62296    647
## 1746 113.49    726 1746          1233            9824        50081    139
## 1747  96.78   1638 1747          1728           21519        80133    310
## 1748 103.16   2063 1748          1884           55197        73223   1357
## 1749 109.80   2396 1749          2352           53178        86359    539
## 1750  77.28   1971 1750          1467            9807        81847    200
## 1751 115.48   1734 1751          1753           49461        62923   1236
## 1752  85.91   1500 1752          2015           46140        69183    784
## 1753 136.60   1375 1753          1413           26837        40974    466
## 1754 113.06   1340 1754          2098           26190        65723    406
## 1755  99.18   1784 1755          1018           16064        63496    282
## 1756 114.97   2334 1756          2363          117387        67623   2855
## 1757  92.49   1020 1757          1793           56996        80296    989
## 1758 115.57   1660 1758          1740           41070        57185   1103
## 1759  82.75   1652 1759          1771           23422        75037    370
## 1760  92.84   2404 1760          2175           69584        66040    924
## 1761  83.06   1854 1761          1618           25698        84742    324
## 1762  85.36   1361 1762          1044            4033        77266     90
## 1763 114.83   1543 1763          2281           47764        58281    666
## 1764 128.09   1933 1764          1873           49619        49705   1730
## 1765 107.25   1757 1765          1361           23177        56566    430
## 1766  94.35   1744 1766          1687           22067        65509    303
## 1767 106.22   2477 1767          2516           88553        81318   1092
## 1768 105.87   1677 1768          1614           34500        49404   1238
## 1769 124.59   1341 1769          1040           16994        43041    241
## 1770 121.00    867 1770          1800           22802        49167    540
## 1771  74.44   2271 1771          2410           93791       132059   1254
## 1772  97.23   1408 1772          1114           13759        79164    213
## 1773  90.48   1616 1773          2126           61339        71736    847
## 1774  95.27   1070 1774          1804           32967        63690    605
## 1775 123.13   1290 1775          1610           21422        44985    365
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## 1776 108.33   1829 1776          1507          28493        63908    832
## 1777  75.83   2119 1777          2124         156788       113638   1810
## 1778 113.92   1313 1778          1665          52787        62615   1071
## 1779  94.16   2335 1779          2549          55868        75730    913
## 1780 135.13   1379 1780          1638          22042        42269    389
## 1781 125.34   1630 1781          1789          19854        66245    440
## 1782 117.57   1532 1782          1620          20766        54985    354
## 1783  87.00   1685 1783          1471           5732        80847    116
## 1784 111.80   1188 1784          1837          40282        67880    578
## 1785  94.93   1300 1785          1662           6288        83194    136
## 1786 119.31   1469 1786          1974          37882        51854    774
## 1787  89.95   1526 1787          1600          26963        88255    297
## 1788 107.32   1834 1788          1812          31312        52741    459
## 1789 110.00   2017 1789          1133           9281        64850    197
## 1790 173.76   1555 1790          1335          22979        39527    272
## 1791  97.51   1733 1791           765          39980        68913    650
## 1792 135.60   1131 1792          1746          18325        37349    403
## 1793  90.44   1657 1793          1796          16729        64906    344
## 1794 133.51   1325 1794          1168          23340        60299    377
## 1795  91.54   1582 1795          1836          40596        83741    427
## 1796  83.65   1983 1796          1497          43244        65351    592
## 1797  94.24   2423 1797          2222          52613        67506    842
## 1798  86.45   2067 1798          2040          49705        70198    673
## 1799 101.65   1584 1799          1982          41500        82015    586
## 1800  76.61   2463 1800          2531         116931       124917   1899
## 1801 123.82   1439 1801          1167          10591        57286    195
## 1802 114.28   1934 1802          1374          26618        68329    356
## 1803 106.83   1739 1803          1934          36612        50576    870
## 1804  93.73   2145 1804          2016          40315        65179    431
## 1805 116.85   1626 1805          1693          22310        51551    414
## 1806  92.01   1369 1806          1564           8772        75283    194
## 1808  95.41   1696 1808          1690          56920        64334   1659
## 1809 106.04   1683 1809          1829          38368        50221   1092
## 1810 100.05   1518 1810          1359          18086        74007    234
## 1811 100.43   1327 1811          1074           8459        61712    175
## 1812 106.30   2255 1812          2434          45995        79877    764
## 1813  91.87   1184 1813           869           9752        68164    145
## 1814  96.16   1613 1814          1732          45988        78824    625
## 1816 113.94   2445 1816          2627         107362        64819   2208
## 1817 104.85   1735 1817          1615          15780        70216    287
## 1818  98.72   1349 1818           993           9590        58072    210
## 1819  99.43   1786 1819          1911          23876        71421    362
## 1820 114.05   1624 1820           744          30425        66075    565
## 1821 105.84   1919 1821          1814          14135        56882    380
## 1822  90.15   1947 1822          1395          17299        79946    234
## 1823 104.66   1508 1823          1458          12919        56997    246
## 1824 108.43   1849 1824          1852          34831        56611    662
## 1825  64.48   2171 1825          1788          49178       108114    490
## 1826  93.80   1275 1826          1177          15303        65161    237
## 1827  95.09   1804 1827          1498           7024        61275    145
## 1828 101.07   1604 1828          2114          36274        55174    631
## 1829 122.23   2034 1829          2161          29046        58976    350
## 1830 159.31   1356 1830          1269          10008        35160    165
## 1831 169.04   1591 1831          1866          16605        49506    499
```

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## 1832 107.67   1328 1832           -1          12878        62127    283
## 1833 111.44   1479 1833         1419          11850        61975    207
## 1834 114.15   1941 1834         2270         115530        73732   1647
## 1835  94.00   2727 1835         2662         110677        90625   1270
## 1836 193.64   1287 1836         1135          16491        29434    315
## 1837 109.91   1700 1837          789           8890        62520    129
## 1838 120.29   1710 1838         1946          56382        58258   1299
## 1839  83.73   1973 1839         1714          26669        79741    433
## 1840 125.23   1970 1840         1245          21151        50426    325
## 1841  90.76   1296 1841         1460          14301        69651    231
## 1842  72.45   2302 1842         1781          33116        80744    432
## 1843  99.98   1527 1843           -1          15328        70625    281
## 1844  88.82   1929 1844         2247          75110       121025    607
## 1845  96.55   1961 1845         1457          43416        62927   1330
## 1846  96.63   1366 1846         1552          19764        59355    337
## 1847 112.17   1338 1847         1839          21922        70060    288
## 1848 122.24   1380 1848         1391          34204        61373    505
## 1849  97.71   2072 1849         2069          58940        60656   1325
## 1850  98.67   2110 1850         1816          32974        79091    567
## 1851 110.57   1823 1851         1807          33326        57500    865
## 1852 102.83   1129 1852         1240          10891        86313     68
## 1853 105.37   1897 1853          845           7540        64515    146
## 1854 104.31   1560 1854         1420          24524        55310    511
## 1855 116.36   2078 1855         2064          23082        70400    338
## 1856 105.92   2217 1856         1654          59738        67086   1631
## 1857 100.34   1813 1857         1635          34830        48316    870
## 1858 132.30   2118 1858         2041          42166        49213   1459
## 1859 126.85   1776 1859         1939          45500        61873    777
## 1860 130.06   1957 1860         2070          41017        55114    964
## 1861  99.47   1615 1861         1149          11938        63585    221
## 1862 104.07   1986 1862         1847          30297        74161    392
## 1863 135.48   1994 1863         1355          25214        53454    410
## 1864 128.49   1750 1864          949           5888        56927     75
## 1865 109.47   1173 1865         1692          19027        44205    565
## 1866 108.58   1559 1866           -1          16576        64650    317
## 1867  99.83   1772 1867         1784          19393        58764    401
## 1868 107.51   2625 1868         2401         179908        60938   5761
## 1869  90.45   1279 1869         1414          23832        83372    336
## 1870  89.64   2174 1870         2058          54331        67123    814
## 1871 111.39   2611 1871         2564          73011        60828   1788
## 1872  90.31   1790 1872         2032          24990       104803    228
## 1873  96.20   1771 1873         1583          38007        69621   1044
## 1874  96.24   1858 1874         1931          39329        75886    552
## 1875  76.49   1825 1875         1886          46971       110498    731
## 1876 101.49   1498 1876         1805          55835        63084   1343
## 1877 103.37   2052 1877         1666          97988       127405   1032
## 1878 115.91   1594 1878         1573          23704        54369    454
## 1879  87.02   2235 1879         2297          56088        85296    863
## 1880 101.75   2468 1880         2625          96670        63439   1989
## 1881  84.50   1170 1881           -1          35808       115146    333
## 1882 108.30   1694 1882         1853          36679        54687    639
## 1883 105.77   1572 1883           -1          13179        70877    212
## 1884 117.94   2016 1884         1729          33899        51875    625
## 1885 100.76   2056 1885         1122          46401        67527    829
```

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## 1886 103.61   2305 1886          2202           51143        59830    960
## 1887 124.86   1845 1887          2158           42361        46943   1007
## 1888 100.56   1428 1888           513            9968        69956    150
## 1889 136.39   1889 1889          1571           25508        54231    306
## 1890  91.78   1872 1890          2167           58269        83660    674
## 1891  83.34   1589 1891          1528           14819        59103    231
## 1892 106.35   1996 1892          1634           31034        65680    663
## 1893  86.30   2020 1893          1898           42473        72472    685
## 1894 111.18   2250 1894          1957           79255        59808   3437
## 1895 119.43   2333 1895          2335           68235        52717   1153
## 1896  99.07   2029 1896          1820           75464        66583   1433
## 1897 142.98   1504 1897          1758           25420        37917    462
## 1898 129.17   1900 1898          2145           54917        44795   1244
## 1899  97.61   1556 1899          1975           36108        58863   1099
## 1900 126.76   1763 1900          1967           16796        57844    406
## 1901 108.78   1399 1901            -1           18588        67614    304
## 1902  84.59   1873 1902          1862           25498        72761    404
## 1903 134.66   1731 1903          2008           31109        49805    686
## 1904  91.92   1692 1904          1885           28824        65344    474
## 1905 100.29   1684 1905          1734           19279        63082    295
## 1906 103.26   1985 1906          2204           69821        54905   1849
## 1907 107.34   2207 1907          1985           44889        60039    725
## 1908 121.15   2363 1908          2376           26626        52817    493
## 1909 114.00   1736 1909          1092           19713        54519    409
## 1910 114.63   2068 1910          2162          119055        55887   2604
## 1911 130.81   1367 1911          1735           36503        48416   1036
## 1912  96.80   1959 1912          1125           16835        67548    261
## 1913  86.13   1930 1913          1512           19853        64014    393
## 1914 102.94   1832 1914          1349           43844        65429    781
## 1915 145.43   1752 1915          1576           29098        40250    789
## 1916 126.99   1975 1916          1759           10544        66310    194
## 1917 168.93   1318 1917          1310           20105        39607    433
## 1918  96.42   1625 1918          1981           41651        66100    666
## 1919  82.29   2331 1919          2338          104366        91146   1971
## 1920 101.30   1519 1920           234           12273        89803    164
## 1921 107.37   2051 1921          1954           56299        49047    997
## 1922 106.52   1755 1922          1733           29010        58103    543
## 1923 100.40   1359 1923          1684           31037        48887    620
## 1924  78.78   2058 1924          1895           35984        84736    430
## 1925  90.55   1943 1925          2191           30905        69136    571
## 1926  93.93   1509 1926          1833           30032        70163    290
## 1927 102.71   2040 1927          1948           24425        61121    439
## 1928 115.15   1680 1928           803            5861        68049     79
## 1929 136.02   1642 1929          1643           23758        51859    408
## 1930  95.00   1974 1930          1659            5210        70221     99
## 1931 106.45   2390 1931          2264           98985        62540   3788
## 1932 138.39   1698 1932          1777            7515        48338    152
## 1933  99.71   2547 1933          2320           66968        78359   1081
## 1934 100.70   2064 1934          1901           18423        67982    391
## 1935  98.61   1095 1935            -1           19686        74186    257
## 1936 109.31   2251 1936          2077           62754        47419   1317
## 1937 116.75   1413 1937          1252           23483        51886    441
## 1938  89.63   1614 1938          1744           30130        77701    661
## 1939  97.13   1818 1939          1594           50096        61626   1168
```

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## 1940 112.47   1721 1940          948          15163        58318    391
## 1941 106.08   1780 1941          389          19932        74738    270
## 1942 123.41   1353 1942         1683          22152        51215    373
## 1943  84.67   1865 1943          217          21336        79104    511
## 1944  94.19   1618 1944         1919          36862        61834    566
## 1945 103.67   2109 1945         2210          84739        78468   1821
## 1946  86.75   2106 1946         1966          65081        69106   1203
## 1947  75.97   2411 1947         2454         114372       114580   1693
## 1948 113.82   2046 1948         2196          49516        53955    887
## 1949 100.78   2375 1949         2540         174292        94557   1629
## 1950 106.23   2120 1950         1144          21455        54810    332
## 1951 113.72   2279 1951         2200          82805        63469   1957
## 1952  80.68   1218 1952         1855          27152       129477    197
## 1953  79.55   1980 1953         1993          34968        67341    347
## 1954  93.11   2425 1954         2367         130693        64581   2990
## 1955  99.78   2023 1955         2353          64475        53759   1128
## 1956 110.72   1965 1956         1543          30109        70533    618
## 1957  85.64    815 1957         1968          38258        73615   1152
## 1958  96.20   2329 1958         2243          63557        61631   1051
## 1959 103.10   1817 1959         1584          10541        79720     72
## 1960 116.28   1853 1960         1353          29158        52575    519
## 1961 101.07   1835 1961         1647          29162        56455    880
## 1962 107.77   1954 1962         1563           6012        53500     90
## 1963 101.66   1796 1963         1636          30752        69012    569
## 1964 116.04   1841 1964         1298          27888        59740    349
## 1965 105.35   2496 1965         2358          77593        67999   1898
## 1966 141.32   2226 1966         1811          15232        40748    399
## 1967  93.88   1935 1967         1715          34608        74183    417
## 1968  91.10   1843 1968         1983          37864        70128    559
## 1969 117.63   1494 1969         1972          33182        60040    635
## 1970  94.91   2393 1970         2014          80254        77644   1242
## 1971 147.08   2310 1971         2112          15886        53498    213
## 1972 122.60   1893 1972         1926          31978        51493    606
## 1973  96.74   2009 1973         1609          29411        69666    442
## 1974  79.79   2511 1974         2599         160520       133792   1107
## 1975  96.52   2281 1975         2322          74747        71449    883
## 1976 106.33   1781 1976         1386          37077        70215    663
## 1977 103.06   1806 1977         1367          38349        66930    740
## 1978  98.31   1659 1978           -1          11715        69818    242
## 1979 110.70   1906 1979         1550           6291        67766     76
## 1980  91.54   1541 1980         1794          31728        63611    610
## 1981 101.96   2349 1981         2390          95451        60704   1977
## 1982 120.25   1725 1982         1287          30129        60329    575
## 1983  92.78   1602 1983         1337          28713        69031    670
## 1984 132.59   1964 1984         2218          37047        46798    799
## 1985  89.23   2122 1985         2053          28556        65080    520
## 1986  83.75   2198 1986         2149          98948        75919   1994
## 1987 104.70   1180 1987         1821          62529        58475   1854
## 1988 120.85   1404 1988         2166          48160        38035    990
## 1989 128.38   1501 1989         1703          32965        43990    585
## 1990  92.51   2156 1990         2056          42477        71466   1139
## 1991 118.43   1972 1991         1649          13169        86953     86
## 1992 120.67   1876 1992         2197          47621        53668   1055
## 1993  87.85   1546 1993         1450          35265        66870    652
```

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## 1994  83.41   2529 1994          2574          168710       120592   2103
## 1995 127.81   1364 1995          2028           39176        39439    847
## 1996  85.22   2452 1996          2085          113683       102617   2036
## 1997  94.11   2284 1997          2119           96638        90089   2011
## 1998 107.35   2066 1998          1503           65560        78239   1903
## 1999  93.03   2018 1999          1935           19864        62969    382
## 2000 113.52   1984 2000          2107           36829        54829    861
## 2001  89.98   1598 2001          1421            9052        81503    148
## 2002 115.84   1774 2002          1914           39933        45788   1130
## 2003 114.11   1884 2003          2169           23122        57050    341
## 2004  99.04   1639 2004          1289           10877        71017    161
## 2005 114.01   1895 2005          1494           24999        51466    443
## 2006 100.71   1779 2006          1965           41458        71480    642
## 2007 108.57   1381 2007          1526           41078        62932    759
## 2008 114.13   2001 2008          2113           47184        68503    525
## 2009  99.49   1558 2009          1877           45349        71785    542
## 2010  95.59   2518 2010          2520           97235        77688   1460
## 2011 118.19   1880 2011          1465           40168        49814   1234
## 2012 133.46   1749 2012          1790           23637        48032    535
## 2013  78.06   2621 2013          2415          147292        88553   2852
## 2014  98.66   2336 2014          2144           46169        68213    855
## 2015 102.43   2111 2015          2276           54231        64672   1063
## 2016  86.60   1807 2016          2324           80512        78179   2335
## 2017 116.32   1316 2017          1815           30517        43471    557
## 2018 105.05   1799 2018          1402           31697        61323    451
## 2019  99.29   1827 2019          1938           30901        68414    807
## 2020 118.01   2617 2020          2261          182109        81804   2741
## 2021  89.04   1580 2021          1953           50828        82693    859
## 2022 148.14   2032 2022          2160           48777        48480   1011
## 2023 116.13   2386 2023          2423          100170        55769   2267
## 2024 102.73   1783 2024          2154           40321        57774    798
## 2025  91.17   2139 2025          1763           22761        89395    358
## 2026 116.78   2117 2026          2339           73610        93612    991
## 2027 128.60   1793 2027          1928           31000        56075    513
## 2028 116.31   2337 2028          2529          122187        72327   2916
## 2029 155.45   2377 2029          2533           88069        59097   2473
## 2030  93.59   2500 2030          2569          166902        80743   2895
## 2031 122.46   2107 2031          1944           32073        61965    516
## 2032 135.33   2053 2032          1173           14466        54890    179
## 2033  95.77   1376 2033          1945           35214        71047    445
## 2034 103.53   1837 2034          2012          106520        62704   3782
## 2035 110.28   1542 2035          2174           33868        63123    742
## 2036  96.41   2327 2036          1859           99159        70769   1666
## 2037 134.22   1631 2037          2025           29190        50714    769
## 2038 103.03   2176 2038          2291           67584        62385   2938
## 2039 107.58   2356 2039          2315           98845        58189   4708
## 2040 143.05   2429 2040          2451           30825        50175    694
## 2041  99.56   1822 2041          1976           65191        67877   1250
## 2042  79.15   1981 2042          2065           38079        70239    796
## 2043 137.75   2218 2043          2305           39676        49795    744
## 2044 120.41   1398 2044           796            8198        53364    140
## 2045  98.49   1990 2045          1875           18768        77087    298
## 2046 132.07   1675 2046          1529           18722        47304    273
## 2047 125.47   1717 2047          1538           24956        48055    590
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## 2048 106.61   2141 2048          2068          70755        55070   2240
## 2049 131.67   1844 2049          1633          18113        48176    350
## 2050 111.57   2526 2050          2572          72353        61849   1097
## 2051  94.55   1563 2051          2121          38155        66571    654
## 2052 287.30   1454 2052          1357           9293        39148    110
## 2053 138.19   1809 2053          2094          45238        42776    971
## 2054 112.32   1920 2054          1045          29209        67459    356
## 2055  94.27   2602 2055          2359          59843        77722    750
## 2056 101.24   2084 2056          2054          34122        64342    899
## 2057  93.10   1917 2057          1373           5594        67715    162
## 2058  94.49   2453 2058          2561         105760        70147   2625
## 2059  88.55   1989 2059          2105          54403        66218   1341
## 2060  99.56   2007 2060          1326          37093        82080    471
## 2061 101.62   1476 2061          1661          22194        56621    451
## 2062  89.45   2095 2062          2323         100905        74751   1649
## 2063  93.49   2202 2063          2127          44736        69928    591
## 2064 104.39   2264 2064          2186          53735        59310    970
## 2065  95.37   2010 2065          1786          37703        56525    688
## 2066 113.41   2358 2066          1511          47027        61233    804
## 2067  87.45   1667 2067          1656          29039        71084    599
## 2068 111.24   2498 2068          2296         100062        55409   3878
## 2069  99.81   1805 2069          1558          40149        61705    815
## 2070 117.51   2435 2070          2342          31177        64395    374
## 2071 119.82   2088 2071          1932          24020        65383    380
## 2072 166.92   1643 2072          2211          36189        37396    973
## 2073 111.49   2300 2073          2329          80618        55401   1591
## 2074  93.68   2527 2074          2521         143876       109576   1476
## 2075 102.77   1928 2075          1455          33928        51231    781
## 2076 111.90   1993 2076          2249          31353        58330    663
## 2077  89.56   2223 2077          2115          67113        71343   1282
## 2078 118.49   1674 2078          2128          37647        50886   1122
## 2080  89.00   1512 2080          2203          38772        74239    553
## 2081 145.26   1506 2081          1603          39987        52672    748
## 2082  97.87   2101 2082          2104          67762        57393   2210
## 2083  95.97   1485 2083          1865          30527        58001    474
## 2084 102.72   2514 2084          2498          96359        76011   1364
## 2085 105.27   2430 2085          2416          83610        62496   2338
## 2086 105.04   1727 2086          2066          25940        61882    644
## 2087 204.89   1478 2087          1778           8686        81958    134
## 2088 116.60   2054 2088          1582          44484        55479    702
## 2089 155.18   1949 2089          1109          20948        48038    270
## 2090 161.84   1470 2090          1561          21146        40501    446
## 2091 130.37   1867 2091          1448          25635        49020    510
## 2092 101.76   1574 2092          1743          28219        55359    774
## 2093  92.00   1654 2093          2026          43584        70080    767
## 2094  99.32   1059 2094          2159          46225        68041    851
## 2095  97.60   2440 2095          1838          38294        55305   1060
## 2096  96.13   2348 2096          2233          72359        89897   1410
## 2097 146.49   2048 2097          1221          25328        40265    612
## 2098 110.79   2788 2098          2395         230073        94452   5636
## 2099 133.00   1881 2099          1930          44276        53805    833
## 2100 115.75   2096 2100          2083          45807        71323    887
## 2101  97.33   2287 2101          2332          90359        78490   1206
## 2102 106.28   1646 2102          1688          39868        69731    546
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## 2103 130.41   1483 2103          1774          26515        50389    313
## 2104  98.55   2432 2104          2044          34350        80362    378
## 2105 128.98   1951 2105          2074          36695        44447    835
## 2106 103.99   2293 2106          2109          45143        57610   1439
## 2107 134.41   2398 2107          2554          69812        59353   1697
## 2108 107.18   2165 2108          2089          56781        56535   1177
## 2109 100.19   2523 2109          1823          44541        72645    553
## 2110 126.80   2014 2110          1872          27856        45921    615
## 2111  85.45   2059 2111          1894          33551        78059    606
## 2112 104.45   1803 2112          1305          30145        58522    609
## 2113  87.35   2057 2113          1780          37036        80248    691
## 2114 101.28   2661 2114          2508         124860        64809   4379
## 2115  91.86   2261 2115          2275          96793        82931   1369
## 2116 112.22   1760 2116          1606          27753        55671    440
## 2117 137.50   2239 2117          2046          27795        47368    543
## 2118 100.76   1963 2118          1961          31585        70855    601
## 2119 103.56   1992 2119          1342          20959        55970    298
## 2120 101.07   2479 2120          2519         111452        67608   2487
## 2121 126.00   2208 2121          2284         103808        55581   3923
## 2122  86.55   2160 2122          2225          84993        73372   1131
## 2123 125.29   1544 2123            22          23387        54945    660
## 2124 105.60   1909 2124          2182          29186        75407    484
## 2125 112.43   1623 2125          2312          51559        53394    733
## 2126  99.09   2246 2126          2086          79846        79281   1400
## 2127  80.63   1686 2127          2116          40161        75728    658
## 2128 170.73   1995 2128          1822          26185        37198    757
## 2129  91.42   2556 2129          2099          64973        78412   1312
## 2130 102.82   2142 2130          2013          18803        72432    375
## 2131  88.64   2275 2131          2290          72580        74543   1377
## 2132 102.96   2682 2132          2492         129842        62168   3742
## 2133 103.59   2043 2133          1574          26036        69897    364
## 2134 121.37   1890 2134          1742          26922        68049    428
## 2135 101.33   1886 2135          2176          46319        70208    892
## 2136 106.02   2166 2136          2301          65983        50438   1288
## 2137 126.39   2172 2137          2050          78027        52821   3280
## 2138 112.16   2397 2138          2457         195083        66154   6135
## 2139 109.41   1840 2139          1783          25081        55172    434
## 2140 106.42   1987 2140          2047          49456        65168    769
## 2141  94.41   1778 2141          2093          39785        72468    715
## 2142 125.68   2071 2142          1329          12336        52690    265
## 2143 145.49   2006 2143          1876          32688        48662    935
## 2144 101.98   2642 2144          2581         174286        64445   3208
## 2145 119.00   1531 2145          1860          30629        57612    532
## 2146  98.51   1459 2146          1830          30954        59753    517
## 2147 124.37   2559 2147          2501         201512        63193   6336
## 2148  79.17   2062 2148          1671          25826        68690    548
## 2149 106.03   1988 2149          2331          66377        56652   2278
## 2150 153.95   2065 2150          1955          19595        48028    331
## 2151 119.28   2332 2151          2009          37967        58847    978
## 2152 125.62   1679 2152          1544          22464        43014    521
## 2153  92.91   2322 2153          2220          45141        66380    903
## 2154 127.37   2415 2154          1864          40249        52288    909
## 2155 113.27   1465 2155            -1          15994        53107    310
## 2156 125.47   1888 2156          1542          35727        50740    704
```

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## 2157 102.88   1815 2157          176          36458        69861    454
## 2158  90.06   1913 2158         2205          94653        88900   1471
## 2159 125.75   2152 2159         2190          44670        49171   1243
## 2160 108.01   2024 2160         1892          37896        54195    901
## 2161 126.75   2228 2161         1651          43642        46047    609
## 2162  76.30   2055 2162         2311          68286        96552    515
## 2163 112.61   2413 2163         2356          53207        55975   1059
## 2164 127.34   2550 2164         2369          98677        52671   4992
## 2165 114.91   1791 2165         1747          32221        46587    822
## 2166 104.21   2454 2166         2303          79735        71247   2009
## 2167 108.34   2237 2167         1989          63830        54606   1334
## 2168  94.54   1765 2168         1352          16788        72091    198
## 2169  78.65   2629 2169         2374          69232        79273   1482
## 2170 132.14   2573 2170         2350         116130        64978   1703
## 2171 107.28   2005 2171         2189          47054        56648   1082
## 2172  89.45   2044 2172         1657          35260        71117    672
## 2173 116.23   2360 2173         1354          44551        60226    830
## 2174  87.89   2343 2174         2092          33479        79483    515
## 2175 109.20   1923 2175         2173          34133        70495    488
## 2176 102.53   2233 2176         2396         109743        63789   2443
## 2177 145.71   1443 2177         1869           7611        81298     80
## 2178 141.30   1788 2178         2133          19908        52960    369
## 2179  87.55   2080 2179         1824          43757        75097    755
## 2180 101.59   2199 2180         2286         104855        74162   2714
## 2181  80.49   2090 2181         2039          36771        78468    679
## 2182 101.76   1821 2182         1698          37297        60668    775
## 2183  99.68   2554 2183         2271          86747        88358   1133
## 2184  78.75   1904 2184         2229          72827       104865    973
## 2185 118.88   2265 2185         1942          47652        47327   1167
## 2186 105.75   2179 2186         1984          26695        65150    406
## 2187  98.23   2459 2187         2268          61323        68274    938
## 2188 102.87   2283 2188         1701          48106        71791    592
## 2189 109.35   2571 2189         1918          91128        73914   1259
## 2190  96.46   2499 2190         1949          67572        73141   1123
## 2191 119.33   1848 2191         2091          23295        55688    366
## 2192 106.98   2240 2192         1676          46685        62093    960
## 2193  75.27   2545 2193         2333         130073       102478   2140
## 2194 129.38   2039 2194         2497          48455        51768   1015
## 2195 140.09   2089 2195         2061          40798        53044    448
## 2196 104.31   2178 2196         2449          51606        68011    783
## 2197 120.22   1891 2197         1584          29585        46859    722
## 2198  92.49   2125 2198         2165          80357        73922   1184
## 2199  81.60   2307 2199         1844          37413        83448    606
## 2200 113.35   2646 2200         2596         128448        56450   4858
## 2201 114.10   2158 2201         1969          60148        54115    821
## 2202  93.65   2308 2202         2485         107577        83534   1671
## 2203  90.40   1748 2203           -1          53316        81638    648
## 2204 109.19   2618 2204         2495         148487        63196   3099
## 2205 105.99   1423 2205           -1          14625        58029    314
## 2206 116.31   2521 2206         2505          45963        60482    550
## 2207 110.15   2049 2207         2020          66839        51143   1598
## 2208  99.55   2509 2208         2563         146141        80764   1619
## 2209 121.32   2175 2209         2265          97299        58972   2289
## 2210 109.51   1979 2210         1960          65055        61992   1039
```

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## 2211 161.69   1651 2211          1613          21312        56152    385
## 2212 109.45   1969 2212          1370          24810        57849    523
## 2213  99.72   2457 2213          2259          61693        60498   1558
## 2214 101.58   1958 2214          1773          30688        64937    485
## 2215  98.38   1847 2215          1958          64200        66734   2039
## 2216 103.43   1871 2216          2081          48896        60144    926
## 2217 110.79   1875 2217          2017          44901        53233    905
## 2218  90.59   2491 2218          2318          81314        68611   1482
## 2219  83.06   2295 2219          1672          64300        87983   1288
## 2220 115.23   2245 2220          1979          39749        53428    709
## 2221  99.85   2640 2221          2487         100661        77884   1983
## 2222  93.78   2105 2222          1950          53166        67927   1495
## 2223  86.96   1730 2223          2095          64650        95027   2188
## 2224 121.50   1859 2224          1719          27492        66426    584
## 2225 153.82   2147 2225          1906          20808        36259    555
## 2226  83.23   1978 2226          1880          11052        73792    151
## 2227  93.17   2510 2227          2117          47042        52893    565
## 2228 113.52   1577 2228           216          21854        73765    363
## 2229 109.65   1756 2229          2227          43272        66072    900
## 2230 101.46   1982 2230          1754          65069        64295   1303
## 2231  75.25   2047 2231          2244          53484        92990    646
## 2232  81.85   2628 2232          2060         110238        99596   1938
## 2233 156.12   2041 2233          1787          30034        33153    607
## 2234 141.82   1570 2234          1384           6997        65050     95
## 2235  96.66   2299 2235          1964          47018        95253    575
## 2236 102.46   2507 2236          1730          95236        88046   2282
## 2237 110.83   2368 2237          2478          87863        55684   1794
## 2238 100.52   2069 2238          1827          37312        71494    949
## 2239 138.31   2262 2239          1642          10665        53125    223
## 2240  87.48   2137 2240          2258          47102        67888    720
## 2241  97.41   1798 2241          1667          21346        75225    365
## 2242  99.80   2533 2242          2471         159603        76989   3231
## 2243  98.11   1976 2243          1910          30786        71295    473
## 2244 102.14   2471 2244          2486         163856        71049   4664
## 2245 101.00   2191 2245          2171          95037        59082   2935
## 2246 112.84   2247 2246          1825          34736        66250    498
## 2247  92.78   2230 2247          1977          41786        76464    656
## 2248  86.18   2366 2248          2452         153587        94048   2115
## 2249 103.32   2382 2249          2136          77713        79972   1989
## 2250 122.99   2025 2250          2000          34450        49295    686
## 2251 114.25   2211 2251          2018          50379        79078    716
## 2252 134.17   1761 2252          1943          27847        45261   1834
## 2253 115.61   2476 2253          2503         126165        77329   1939
## 2254  93.67   2134 2254          2201          61636        85276    669
## 2255  99.84   2100 2255          1278          31386        58439    824
## 2256 106.41   1622 2256          2125          27080        49552    568
## 2257  91.76   2195 2257          2034          38001        72437    582
## 2258 106.89   2381 2258          2100          35535        64637    765
## 2259  97.05   1998 2259          2076          47417        70908    767
## 2260 100.70   2581 2260          2377         112141        70452   2449
## 2261 149.30   1619 2261          1702          24446        49280    356
## 2262  98.81   2417 2262          1835         112405        79814   2125
## 2263  90.66   2155 2263          2231          54861        65020    942
## 2264 109.40   2093 2264          2072          59285        69841    998
```

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## 2265 104.15   2376 2265          2287          83658        63955   1871
## 2266  97.15   2339 2266          2302          74291        78439   1350
## 2267 110.59   1432 2267          1996          38283        55756    834
## 2268 118.57   2021 2268          1704          21504        45136    381
## 2269 103.79   2236 2269          2266          66430        64675   1653
## 2270  87.04   1868 2270          2057          40802        71237    569
## 2271  77.21   2104 2271          2084          52626        87700    517
## 2272  94.61   1583 2272          2006          37091        76182    636
## 2273 111.11   2482 2273          2502          78648        51381   1643
## 2274 106.53   2098 2274          1441          47066        63747    798
## 2275 121.45   1883 2275          1426          39568        50260   1081
## 2276  95.05   2162 2276          2407          82881        80365   1829
## 2277  79.48   1758 2277          2157          25118        83343    447
## 2278 106.10   2512 2278          2122          64897        51528   1609
## 2279 105.32   1908 2279          2207          50610        59009   1161
## 2280 130.58   1839 2280          1720          27782        55057    723
## 2281 106.75   1905 2281          1941          43623        56648   1264
## 2282 118.07   2184 2282          2436          69194        57811   1481
## 2283  78.30   1962 2283          2030          39354        77264    812
## 2285  97.02   2385 2285          2465         132604        59411   2031
## 2286 120.44   2197 2286          1724          27059        51765    477
## 2287 112.81   1851 2287          1818          16260        55313    311
## 2288 182.17   1946 2288          1630          23878        32403    701
## 2289 110.02   2274 2289          2321          66377        54007   1568
## 2290 139.85   2026 2290          1806          13713        45129    178
## 2291  90.33   2446 2291          2226          65628        77664    664
## 2292 105.34   2662 2292          2455         104917        70112   1970
## 2293  92.55   2296 2293          2327          94064        62407   1725
## 2294 104.94   2421 2294          2067          82180        68912   2954
## 2295 112.43   1747 2295          2042          20690        65042    176
## 2296 140.74   1787 2296          1674          20218        45645    137
## 2297 110.90   2319 2297          2063          36448        60631    642
## 2298 104.81   2038 2298          1504          61588        72464    773
## 2299 104.43   2359 2299          2289          77395        53435   2045
## 2300 115.95   2362 2300          1608           5730        59079     82
## 2301 114.22   2365 2301          2464          43629        54787   1251
## 2302  86.90   1347 2302            -1          27870        64188    611
## 2303 131.08   1768 2303          1686          12963        56680    187
## 2304 146.59   2180 2304          2223          48219        45071   1080
## 2305 108.27   2565 2305          1893          76479        58248   1603
## 2306  99.04   2077 2306          2002          34358        72335    493
## 2307  66.73   2369 2307          2141          68600       121491    614
## 2308 104.07   2462 2308          2071          37146        71294    819
## 2309  91.60   1687 2309            -1          16702        87516    299
## 2310 102.68   2190 2310          2194          41934        86573    545
## 2311 156.99   1673 2311          2269          53578        58259    444
## 2312 152.33   2309 2312           231          27432        33188   1003
## 2313  84.67   2508 2313          2082          76924        73273   2025
## 2314 102.37   2227 2314          2355          90925        57948   1651
## 2315 142.23   2259 2315          2102          34516        58908    593
## 2316 130.93   2312 2316          2103          71946        51149   1460
## 2317 141.74   1918 2317          1863          35342        41582    952
## 2318  95.41   2231 2318          2022          55374       103174    233
## 2319 142.84   2079 2319          1619          30163        37315    701
```

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## 2320 131.06   2380 2320          2460          74235        47256   1918
## 2321 105.09   1573 2321            -1          20867        68457    329
## 2322  80.25   2583 2322          2527         154881        74721   3893
## 2323 110.74   2355 2323          2348          57648        56736   1430
## 2324  76.28   1653 2324            -1          34969       101635    413
## 2325 103.28   2161 2325          2446          57031        57537   1074
## 2326 100.46   2103 2326          2120          61573        53837    877
## 2327 126.77   2443 2327          2528         117606        58082   2952
## 2328 110.18   1910 2328          2049          38392        55849    805
## 2329 102.77   2733 2329          2629         247799        78162   5286
## 2330 153.35   2081 2330          2123          27036        47400    449
## 2331 111.17   2473 2331          2393         103118        64262   2016
## 2332 114.90   2086 2332          1779          32109        56686    789
## 2333 107.61   1991 2333          2400          65145        57306   1612
## 2334 108.87   2220 2334          1798          53913        62774   1469
## 2335  93.31   1960 2335          2272          42014        68125    779
## 2336 108.76   2002 2336          2037          37428        56573    676
## 2337 110.17   2087 2337          1997          35639        59613    546
## 2338 111.30   2659 2338          2506         137334        67758   2501
## 2339  83.80   1938 2339          2242          43563        71918   1030
## 2340  81.01   2277 2340          2087          57126        72532    737
## 2341  82.79   2187 2341          2183          52419        73462    619
## 2342  91.55   2402 2342          2328          65759        77648   1191
## 2343 120.74   2367 2343          2038          81840        82430   1071
## 2344 110.71   2614 2344          2467          83855        59423   2406
## 2345  83.02   2606 2345          2386          98986        84948   2444
## 2346  79.74   2480 2346          2394         108751        95748   1288
## 2347  86.83   2050 2347          2152          44312        74774    693
## 2348 116.29   2492 2348          2432         106201        52525   3127
## 2349 100.65   2085 2349          2045          36457        80042    592
## 2350  81.49   2035 2350          2156          20645        78430    273
## 2351 114.40   1693 2351            39          13708        53097    340
## 2352 112.51   2298 2352          2142          59292        61096    950
## 2353 104.17   2102 2353          2283          44914        61958    754
## 2354  77.48   2091 2354          2380          46209        76454    831
## 2355  88.83   1593 2355          1896           7393        74459    186
## 2356  85.51   2097 2356            29          34058        68459    635
## 2357  82.46   2546 2357          2576         274539       105442   3068
## 2358  96.99   2519 2358          2470         106328        71834   2634
## 2359  74.75   1997 2359          2419          65293       109506    722
## 2360 105.03   1950 2360          1831          78902        60181   2006
## 2361 101.43   2412 2361          2134          69386        72623   1201
## 2362 102.08   2193 2362          2238          81366        56537   2622
## 2363 101.23   2291 2363          2214         105183        81071   1728
## 2364 110.75   1810 2364          2245          65503        50943   1955
## 2365  93.60   2326 2365          1655           6283        73011    125
## 2366 101.97   2224 2366          2206          83189        60254   1875
## 2367  97.25   1916 2367          2300          45104        71301    829
## 2368 106.61   2136 2368           609          60201        65527    670
## 2369 112.27   2678 2369          2748          83079        73313   1631
## 2370 108.57   1746 2370          2308          43403        62008    775
## 2371 104.27   2392 2371          2257          62431        67549   1186
## 2372  97.64   2126 2372          1762          37497        88478    521
## 2373 101.12   2481 2373          2146          70922        72584   1016
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## 2374 109.19   2576 2374          2402           54873        72259   1372
## 2375 105.66   1678 2375          2178           35474        64737    503
## 2376 119.41   2553 2376          2559           66471        51999   2075
## 2377  89.23   2115 2377          2316           42434        72866    598
## 2378 101.87   2031 2378          2405           32234        82952    225
## 2379  89.69   2154 2379          2219           44126        83229    579
## 2380 115.33   1925 2380          2001           57446        55278   1028
## 2381  92.74   2395 2381          2364           85867        80604   1331
## 2382  82.03   2590 2382          2163           67389        82792    957
## 2383 106.32   2350 2383          2443           50414        61931    885
## 2384 100.53   2437 2384          2168           78175        63171   2427
## 2385  87.31   2061 2385          2383           58770        62500   1170
## 2386  81.84   2304 2386          2403           98592        69006   1251
## 2387  98.94   2204 2387          2023           83213        58739   1702
## 2388  96.31   1820 2388            -1           30142        68870    660
## 2390 123.01   1846 2390          1908           47609        54271    732
## 2391 119.02   1955 2391            -1           21380        57113    354
## 2392  79.42   2364 2392          2542          111652       109504   2933
## 2393  95.00   2129 2393          1462           51259        82961    872
## 2394 110.11   2759 2394          2633          185043        72872   3896
## 2395 101.41   1922 2395          2052           59971        62482   1929
## 2396  99.69   2686 2396          2481           92321        59295   3455
## 2398  91.94   2146 2398          2198           51714        71189   1191
## 2399  94.79   1937 2399          2237           43710        69990    726
## 2400 106.90   2353 2400          2230           41907        63401   1031
## 2401  94.68   2580 2401          2636          171949        67940   3484
## 2402 113.61   2238 2402          2215           20880        59275    210
## 2403 102.41   1466 2403          2007           47503        60302    837
## 2404  88.24   2433 2404          1596           43529        75929    646
## 2405 100.23   2357 2405          1156           40860        71903    975
## 2406 126.21   2252 2406          1709           60883        72342   1041
## 2407 118.37   2272 2407          2132           56462        48435   1405
## 2408 102.42   2260 2408          2138           45327        76208    810
## 2409 107.20   2132 2409          2216           43733        80374    378
## 2410  98.45   2532 2410          2447          139822        63372   2760
## 2411 102.92   2764 2411          2733          368937        64623   8976
## 2412 107.50   2422 2412          1927           48043        60659   2482
## 2413  88.31   2732 2413          2729          231262        86084   3705
## 2414 121.09   2444 2414          2381          158693        55355   5876
## 2415 157.64   2167 2415          1933           31826        47237    911
## 2416  86.20   2469 2416          2462          137676        94752   1616
## 2417 112.68   2663 2417          2544          172279        58851   4811
## 2418 121.19   2094 2418          1629           11581        59731    293
## 2420 117.95   2597 2420          2608          108122        87084   1853
## 2421  91.95   2744 2421          2772          251153        94189   3768
## 2422 124.99   2723 2422          2483          152915        64499   3252
## 2423  97.90   2347 2423          2413           61114        79605    974
## 2424 105.34   2003 2424          2375           41767        55477   1034
## 2425  86.09   2209 2425          2442           82013        91326   1288
## 2426 109.92   2738 2426          2616          123532        57525   1716
## 2427 102.00   2470 2427          1925           59932        68858    895
## 2428  99.72   2655 2428          2267          160341        86663   2949
## 2429 103.15   2019 2429            -1           17434        65044    313
## 2430 107.04   2486 2430          1888           32247        52788    567
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## 2431 106.25   2241 2431          1646           29594        77328    403
## 2432  78.34   2073 2432          2421           48007        72822    763
## 2433 107.84   2543 2433          2593          145322        59047   2413
## 2434  98.97   2371 2434          1848           59958        79853   1048
## 2435  90.40   2374 2435          2489           74938        68431   2252
## 2436 116.20   1878 2436            -1           16972        56420    378
## 2437  67.99   2028 2437          2319           95479       100783   1882
## 2438 119.93   2297 2438          2097           26912        71455    527
## 2439 103.86   2636 2439          2693          226623        79838   2755
## 2440  93.58   2127 2440            -1           27102        50434    539
## 2441 108.86   2169 2441          2251           70919        54071   1708
## 2442 119.03   2361 2442          2504          164632        95076   2407
## 2443  96.63   2505 2443          2591          187399        58622   3243
## 2444  97.08   2000 2444            -1           34505        75380    757
## 2445  92.60   2070 2445          2292           52296        64991   1066
## 2446 103.36   2426 2446          2397           71407        56095   1966
## 2447 104.29   2225 2447          2354           45658        60869    785
## 2448  94.13   2410 2448          2378          134693        61051   5041
## 2449  93.95   2306 2449          2366           50323        74570   1072
## 2450 113.12   2344 2450          2298           21895        75149    224
## 2451 140.29   2616 2451          2656          116858        40318   2541
## 2452 150.96   1915 2452          1832           38498        55539    533
## 2453  95.43   2674 2453          2558          193719        88968   2470
## 2454  97.02   2456 2454          2427           74039        66417   2556
## 2455 132.86   2268 2455          2493           47932        56259    782
## 2456  91.89   2143 2456          2399           62982        77873    857
## 2457 120.39   2572 2457          2241           35937        60960    934
## 2458 131.98   2182 2458          1843           39930        41578   1126
## 2459 106.36   2706 2459          2282          128047        72565   3093
## 2460 115.23   2135 2460          2412           64886        54509   2024
## 2461 112.91   2253 2461          2184           25165        67042    381
## 2462  82.56   2552 2462          2606          143791        80905   1396
## 2463  99.20   2427 2463          2580          129134        66336   2129
## 2464 103.15   2328 2464          2031           45913        68021    707
## 2465  74.40   2148 2465          2426           92345        96734   2198
## 2466  99.25   2475 2466          2404          102370        82730   1088
## 2467  81.26   2276 2467          2510           79419        85928    869
## 2468 104.87   2494 2468          1718           56084        69630   1095
## 2469 105.87   2669 2469          2565          112081        70768   2700
## 2470 124.61   2342 2470          2392           52839        49454   1291
## 2471  98.97   2704 2471          2645          168413        79412   3175
## 2472 119.11   2131 2472          2192           56042        67537    882
## 2473 114.03   2242 2473          2568           57218        45266   1251
## 2474  96.55   2278 2474          2253           42351        88802    479
## 2475  95.54   2578 2475          2414          120262        70704   3051
## 2476 108.92   2113 2476          2208           40574        59074    773
## 2477 102.10   2708 2477          2675          162051        64544   3901
## 2478  82.08   2285 2478          2385           42438        78036    680
## 2479 106.95   2407 2479            99           46689        56040   1202
## 2480 101.36   2315 2480          2048           30915        69556    569
## 2481 109.72   1894 2481          2209           38863        47492    719
## 2482  91.43   2185 2482          2373           62888        73988   1201
## 2483  94.94   2687 2483          2631          223436        86094   5064
## 2484 114.58   2200 2484          2468          104853        55990   2372
```

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## 2485 110.72   2387 2485          1731           40006        68441    667
## 2486 136.61   2325 2486          2368           59062        47799   1649
## 2487  96.42   2341 2487          2450           83209        77640    769
## 2488  96.22   2886 2488          2844          276581        98546   4124
## 2489 102.89   2466 2489          2644          122800        72298   2177
## 2490 132.11   2818 2490          2707          167277        60582   4247
## 2491  95.57   2280 2491          2344           85423        60779   2112
## 2492  90.37   2229 2492          2260           93193        77271   1610
## 2493 118.66   2159 2493          1496           12065        57355    211
## 2494  92.06   2604 2494          2153           40069        71495    671
## 2495  93.44   1864 2495            -1           36899        82314    550
## 2496  95.82   2194 2496          1998           58187        54460   1689
## 2498 124.10   2484 2498          2417           28623        70487    396
## 2499 118.65   2645 2499          2111           39472        64646    787
## 2500  95.02   2534 2500          2532           93407        71446   1964
## 2501  80.72   2290 2501          2594          128593        92266   1174
## 2502  97.35   2266 2502          2263           59318        61355   1822
## 2503  86.53   2431 2503          2140           34131        68640    593
## 2504  99.46   2644 2504          2711          238723        82327   3018
## 2505  87.01   2153 2505          2382           59407        72927    941
## 2506 113.72   2698 2506          2444          197738        61059   4949
## 2507 123.53   2008 2507          2090           28547        54067    593
## 2508  94.04   2270 2508          2391           65982        58411   1187
## 2509 111.35   2249 2509          2150           71984        50033   2968
## 2510  90.80   2076 2510          2439           58412        65972   1085
## 2511 101.63   2710 2511          2655          231214        72892   5891
## 2512  88.67   2493 2512          2445          125724        76534   1980
## 2513 113.04   2170 2513          2213           47647        59673    685
## 2514 105.23   2549 2514          2398          113570        64412   2998
## 2515 143.53   2424 2515          1995           43674        40117   1464
## 2516 104.61   2189 2516          2482           64855        56983   1774
## 2517 104.46   2787 2517          2700          181368        70188   4572
## 2518 101.55   2138 2518          2347           72202        79088   1166
## 2519 135.38   2405 2519          2254           73666        52055   2754
## 2520 101.58   2042 2520            -1           16637        56909    418
## 2521 135.31   2592 2521          2566           48728        50027    805
## 2522  94.87   2513 2522          2428           91229        81245    902
## 2523 115.84   2589 2523          2570           80087        68958   1234
## 2524 104.93   2222 2524          2424           41478        61128    975
## 2525 103.42   2702 2525          2658           76397        63539   1473
## 2526 109.88   2610 2526          2479          103195        65323   2849
## 2527  89.93   2351 2527          2491           83641        77538   2042
## 2528 117.88   2292 2528          2088           36755        41719   1154
## 2529  95.05   2804 2529          2406          156595        86391   2278
## 2530 131.66   2188 2530          2326           83915        46784   2989
## 2531  93.07   2352 2531          2256           57434        98260    858
## 2532 115.68   2196 2532          2235           62731        56999   1389
## 2533 141.47   2497 2533          2232           93300        52828   4211
## 2534  87.57   2528 2534          2411           70375        73284    953
## 2535  83.35   2735 2535          2682          174302        76363   3731
## 2536 104.62   2203 2536            -1           44042        61943   1133
## 2537 106.28   2503 2537          2592          103235        60523   3064
## 2539 121.07   2652 2539          2550          116634        50448   5201
## 2540 109.92   2378 2540          1858           58728        57933   1061
```

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## 2541 116.61   2269 2541          2148           57250        77871    819
## 2542 111.62   2665 2542          2526           84601        66203   2403
## 2543 138.59   2205 2543          2343           31701        49902    563
## 2544  99.30   2215 2544            -1           28078        61863    584
## 2545  90.40   2690 2545          2578          237980        58388   3541
## 2546  85.05   2649 2546          2663          155033        74157   3702
## 2547  68.12   2667 2547          2170           39368        90224    331
## 2548 119.16   2399 2548          2274           65780        48552   1786
## 2549 113.14   2442 2549          2635          135218        57256   2847
## 2550 108.26   2517 2550          2389           46741        64619    956
## 2551  90.69   2560 2551          2499          137747        74607   3068
## 2552  83.61   2561 2552          2513          170658        91278   3152
## 2553  97.81   2213 2553          2488           76748        59819   2150
## 2554  76.27   2177 2554          2314           34352        82785    476
## 2555 129.90   2794 2555          2670          271790        70578   6914
## 2556  84.68   2599 2556          2051           76945        81001   1395
## 2557 107.14   2722 2557          2676          111539        72932   2571
## 2558  89.92   2036 2558            -1           21918        74954    358
## 2559 110.84   2338 2559          2515           92903        78993   1601
## 2560 104.95   2574 2560          2147           93034        64740   1884
## 2561  73.97   2736 2561          2727          262509       111317   4268
## 2562 148.22   2785 2562          2719          111807        58983   3097
## 2563  94.85   2749 2563          2585          196888        75331   3443
## 2564 101.45   2216 2564            -1           33684        59253    674
## 2565 111.13   2558 2565          2597          112109        56932   3176
## 2566 107.18   2596 2566          2448           86791        58847   2475
## 2567 101.72   2254 2567          1907           78961        69208   1613
## 2568 121.51   2824 2568          2692          235037        64017   5976
## 2569  95.74   2400 2569          2524          126001        65071   2327
## 2570 103.52   2419 2570            -1           49294        53291   1326
## 2571  99.40   2718 2571          2637          211341        67809   4336
## 2572 100.63   2613 2572          2155           60484        64778   1360
## 2573  82.76   2562 2573          2384           60281        70912   1193
## 2574 115.64   2809 2574          2671          184774        66718   4208
## 2575 112.70   2458 2575          2556          130949        62632   2997
## 2576  88.95   2502 2576          2511           95757        79486   2949
## 2577  75.45   2257 2577           942           42709       137058    249
## 2578  92.24   2603 2578          2619           67916        80375   1197
## 2579 110.53   2314 2579          2299           57385        54842    885
## 2580 102.81   2634 2580          2659           88457        64080   1720
## 2581  93.67   2752 2581          2534          109393        87413   1601
## 2582 121.89   2244 2582          2496           77382        58333    999
## 2583  98.40   2324 2583           153           65166        64962   2080
## 2584  84.06   2591 2584          2552          158079       102099   1946
## 2585  90.37   2311 2585          2418           58322        82792    970
## 2586  95.34   2657 2586          2579          101685        62001   3146
## 2587 103.70   2699 2587          2539           47470        67405    690
## 2588 123.21   2467 2588            -1           52706        45572   1294
## 2589 131.29   2490 2589          1755           31261        52237    701
## 2590 119.72   2585 2590          2130           50852        56199   1020
## 2591  97.11   2807 2591          2710          214281        79097   4345
## 2592 106.87   2754 2592          2372          126329        56507   2511
## 2593 105.47   2563 2593          2317           66558        74009    926
## 2594 106.33   2535 2594          2456          112097        57615   4561
```

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## 2595 100.05   2767 2595          2686          191800        78678   3165
## 2596  90.43   2844 2596          2750          300370        75014   6056
## 2597 136.31   2743 2597          2690           68139        58738   1261
## 2598  86.38   2957 2598          2860          289069        98152   4475
## 2599  97.44   2201 2599           791           59725        77865    734
## 2600  91.55   2294 2600          2459           62034        86172    700
## 2601 107.80   2607 2601          2453           97993        64773   1097
## 2602  91.04   2340 2602          2536          158218        77454   2163
## 2603 103.64   2570 2603          2224          112323        67298   2875
## 2604  97.95   2835 2604          2649          139988        70455   4033
## 2605 102.92   2567 2605          2543          126967        56093   2932
## 2606 103.74   2461 2606          2361           88669        75553   1309
## 2607  94.04   2673 2607          2466           88818        73992   1761
## 2608 103.29   2637 2608          2560          136921        56650   6304
## 2609  89.98   2772 2609          2236          145117       114316   2393
## 2610  93.81   2449 2610          2340           83138        67144   4329
## 2611  88.22   2656 2611          2567          104053        73154   2104
## 2612  87.38   2834 2612          2735          288559        83060   4442
## 2613  92.93   2940 2613          2873          296640        93985   5136
## 2614 108.67   2418 2614          2172           65407        58326   2001
## 2615 136.52   2183 2615          2288           57466        42179   2673
## 2616  98.98   2791 2616          2722          238014        71923   8932
## 2617  80.18   2388 2617          2551          137320        95851   2150
## 2618 101.39   2569 2618          1940           57968        75247    987
## 2619 111.23   2263 2619            -1           66902        65521   1842
## 2620 104.96   2654 2620          2490          119639        71246   2283
## 2621  91.93   2541 2621          2313          158041        72748   2222
## 2622  98.58   2515 2622          2661          156626        74946   3417
## 2623  86.61   2739 2623          2685          264422        85634   5491
## 2624  92.85   2372 2624          2514           88703        76228   1777
## 2625 110.70   2681 2625          2612          137549        64801   3490
## 2626 102.69   2760 2626          2604          144259        66406   4063
## 2627  96.97   2316 2627           130           33027        65894    782
## 2628 100.24   2689 2628          2680          171063        62426   2885
## 2629 101.63   2725 2629          2667          239945        75019   4612
## 2630 123.20   2757 2630          2751          129794        73396   2695
## 2631  79.08   2584 2631          2678          168531        85218   2612
## 2632  86.12   2660 2632          2590          178368        93776   2118
## 2633 119.41   2632 2633          2546           42811        60293    710
## 2634  98.79   2483 2634          2472           91281        70101   2551
## 2635  88.77   2354 2635          2330           51655        64654   1059
## 2636  98.36   2717 2636          2598          215834        64691   6069
## 2637 122.71   2501 2637          2280           83829        56193   2175
## 2638  67.81   2671 2638          2584          174318       115876   3381
## 2639 132.58   2768 2639          2665           43834        55499   1056
## 2640  95.72   2827 2640          2754          167340        74400   4551
## 2641  76.96   2696 2641          2217           47844        82749    918
## 2642  95.48   2672 2642          2742          245417        81612   4155
## 2643  93.34   2530 2643          2420          109852        60614   2822
## 2644 103.21   2586 2644          2435           62102        72212   1289
## 2645  88.79   2630 2645          2654          188598        82980   3622
## 2646  87.06   2555 2646          2494           53852        83427    648
## 2647  83.92   2601 2647          2279          131743        86564   2399
## 2648  88.90   2713 2648          2610          169817        79421   3734
```

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## 2649 127.65   2232 2649           -1           37541        53471    673
## 2650 100.44   2540 2650         2441          121854        60594   4052
## 2651  93.93   2451 2651           -1           35659        70796    773
## 2652 122.02   2536 2652         2278           40165        53901    688
## 2653  94.92   2643 2653         1685           36664        63147    703
## 2654 138.64   2256 2654         2371           37536        36810   1008
## 2655 107.01   2750 2655         2774          231485        65472   4790
## 2656  99.80   2516 2656         2646           48993        76842    685
## 2657  92.81   2770 2657         2611          185874        69913   4636
## 2658  68.87   2472 2658         2512          104136       102349    831
## 2659  90.02   2389 2659          214           76648       101846    722
## 2660  99.88   2598 2660         2641           83925        69690   1602
## 2661 100.76   2414 2661           -1           26746        62439    581
## 2662  79.28   2880 2662         2669          304504       102807   5519
## 2663  89.14   2303 2663           -1           48948        69912    862
## 2664  93.33   2588 2664         2461          160464        80701   4437
## 2665 103.31   2828 2665         2703          298143        69575   7840
## 2666 100.67   2441 2666         2530           86382        59203   2446
## 2667 111.44   2728 2667         2767          133846        60385   3199
## 2668  94.22   2520 2668         2255           51678        64349    865
## 2669  87.47   2816 2669         2749          203927        95898   2637
## 2670 100.57   2593 2670         2545          143592        76350   2978
## 2671 103.07   2267 2671         2101           73255        59378   1856
## 2672  85.56   2408 2672         2463           94819       102482   1188
## 2673 126.63   2258 2673         2429           57770        51270    873
## 2674  98.78   2623 2674         2673          135445        60846   3346
## 2675 100.65   2823 2675         2639          297144        97273   5654
## 2676 115.54   2416 2676         2535           66056       108289    614
## 2677 105.42   2537 2677         2588           60870        64707   1023
## 2678  71.84   2394 2678         2666          260062       138000   3417
## 2679  89.26   2858 2679         2811          294541        89879   4149
## 2680 101.68   2301 2680         2425           31258        56963    678
## 2681 105.95   2373 2681            4           33259        58617    847
## 2682 106.58   2868 2682         2681          403840        96497   6034
## 2683 101.91   2615 2683         2600          151538        84053   2936
## 2684 107.40   2434 2684         2430           69519        67512    816
## 2685 105.94   2478 2685         2212           98802        63829   2066
## 2686 119.00   2383 2686         2346           38860        67326    653
## 2687 103.08   2871 2687         2766          323275        65715  10516
## 2688 100.59   2822 2688         2716          449011        80633  12966
## 2689  91.47   2692 2689         2657          200553        86005   3564
## 2690  99.13   2485 2690         2309           66864        54813   1536
## 2691 125.22   2766 2691         2706          203684        77215   3447
## 2692 114.98   2406 2692           -1           37294        60839    976
## 2693 103.94   2489 2693         2613           97343        55507   2087
## 2694  76.68   2539 2694         2024           51501        92461    794
## 2695 100.46   2666 2695         2640           75681        66902   1100
## 2696 100.61   2761 2696         2575          144437        64756   3224
## 2697 118.08   2806 2697         2777          387697        58535  11694
## 2698  85.00   2840 2698         2794          194051       101402   1719
## 2699 102.28   2438 2699         2469          143259        66901   3187
## 2700 108.45   2753 2700         2739          204383        56622   6136
## 2701  75.04   2845 2701         2810          280341       120458   3820
## 2702  88.09   2575 2702         2620          163983        87227   2371
```

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## 2703  98.03   2801 2703          2724          207218        64683   5289
## 2704  93.97   2464 2704            -1           52920        93060    859
## 2705 104.42   2847 2705          2834          272574        64885   6220
## 2706 103.60   2564 2706           272           32621        65175    788
## 2707 115.48   2740 2707          2763           98971        75450   1147
## 2708 104.20   2401 2708          2484           53071        62847    851
## 2709 110.15   2317 2709          2379           73118        49571   2453
## 2710 110.59   2631 2710          2634           92121        65338   2025
## 2711  96.76   2173 2711          2477           66706        73436    738
## 2712  97.54   2777 2712          2674          315927        86687   5483
## 2713 100.51   2587 2713          2476           46421        67257    870
## 2714  82.41   2577 2714          2624           74885        69699   1898
## 2715  93.12   2548 2715          2388          105316        71973   1967
## 2716 111.68   2531 2716          2277          117945        68461   1510
## 2717  87.07   2685 2717          2683          226955        93543   2794
## 2718  88.19   2814 2718          2589          189286        75023   4407
## 2719 111.75   2851 2719          2759          398696        69956   9388
## 2720  90.92   2403 2720            -1           51536        79244    925
## 2721 100.66   2609 2721          2668          177663        61123   2631
## 2722 112.50   2420 2722            -1           36808        61102   1185
## 2723  93.34   2803 2723          2789          351591        82588   5887
## 2724 103.42   2775 2724          2553          168831        94310   3272
## 2725  92.59   2273 2725          2586           68061        64464   1378
## 2726 115.85   2487 2726          2617           89463        60916   2242
## 2727 112.17   2826 2727          2603          338936       110631   4909
## 2729 112.76   2506 2729          2650           98712        60946   2531
## 2730 134.46   2639 2730          2721           65520        61834   1213
## 2731  90.70   2709 2731          2609          117783        71898   2341
## 2732  93.40   2854 2732          2684          315374        83149   8151
## 2733 102.47   2781 2733          2725          206868        65617   3822
## 2734  64.97   2805 2734          2784          333916       146982   3504
## 2735  88.39   2748 2735          2573          171357        72873   3458
## 2736  79.34   2714 2736          2691          152957       120247   1343
## 2737 109.12   2557 2737          2517           83531        43214   2352
## 2738  94.55   2855 2738          2718          321122        67631  10224
## 2739  66.36   2762 2739          2221          129448       139453   1654
## 2740  88.23   2700 2740          2547          105447        77359   1660
## 2741  79.82   2594 2741          2652          131795        73124   2417
## 2742  95.66   2619 2742          2648          208395        77430   6201
## 2743 122.12   2747 2743          2325           67227        54254   1693
## 2744 111.84   2769 2744          2704          209443        57233   5314
## 2745 109.12   2670 2745          2582          108445        71327   2419
## 2746  95.36   2812 2746          2679          160718        88606   1625
## 2747  84.57   2455 2747          2660          109549        74175   2145
## 2748 108.40   2330 2748           141           44566        68518    898
## 2749  85.02   2780 2749          2776          244975        99243   2831
## 2750  88.45   2653 2750          2737          179379        99988   3128
## 2751  98.11   2833 2751          2694          163944        74390   3290
## 2752 100.55   2668 2752          2538          159693        56802   6892
## 2753 110.53   2622 2753          2262          107796        61900   1897
## 2754  97.99   2865 2754          2746          287484        74159   7216
## 2755 104.03   2542 2755          1986           50058        69413    828
## 2756 119.68   2817 2756          2755          346237        69027   7336
## 2757  77.91   2436 2757          2458          110303        78794   1980
```

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## 2758 109.25   2896 2758          2507          274704        76819   6260
## 2759 101.59   2568 2759          2409          132355        56292   3709
## 2760  87.21   2737 2760          2626          166993        70156   3845
## 2761  89.08   2860 2761          2762          371610        98910   5311
## 2762 100.27   3024 2762          2987          673708        67317  18540
## 2763 161.68   2318 2763          2337           65809        38182    640
## 2764  72.37   2856 2764          2602          346203       135960   4533
## 2765  91.91   2755 2765          2702          269331        79277   5754
## 2766 126.59   2428 2766          2523           64446        52029   1355
## 2767  80.05   2582 2767          2522          195870        86775   4095
## 2768  87.24   2726 2768          2689          109000        78025   1559
## 2769 116.39   2650 2769          2651           67174        64892   1109
## 2770 101.61   2808 2770          2775          251863        66426   4946
## 2771  95.38   2892 2771          2788          338096        64195   8513
## 2773 102.60   2800 2773          2717          130407        85474   2607
## 2774 111.18   2612 2774          2618          116141        55826   3215
## 2775  87.73   2734 2775          2741          174150        85828   3316
## 2776  78.02   2697 2776          2605          174552        99015   3071
## 2777  92.95   2719 2777          2595          122194        87454   1174
## 2778 110.17   2638 2778          2632          156543        50747   6169
## 2779  82.33   2721 2779          2701          171496        93984   2609
## 2780 105.81   2647 2780          2622           73154        68750    956
## 2781 138.16   2522 2781          2601           82128        45637   2001
## 2782  92.27   2680 2782          2525          237075        99653   3025
## 2783 100.29   2910 2783          2817          228432        80989   3704
## 2784  93.13   2608 2784            -1           38348        85629    624
## 2785  90.25   2867 2785          2805          269425        77490   5495
## 2786 119.87   2627 2786          2541           81170        56249   1863
## 2787 104.94   2715 2787          2687          123742        64858   2799
## 2788  94.98   2504 2788          2642          101203        58474   2238
## 2789 110.70   2730 2789          2438          107628        57531   4232
## 2790  94.26   2875 2790          2736          329405        79501   6442
## 2791  98.22   2771 2791          2638          155175        74689   2860
## 2792  87.83   2872 2792          2803          370913        72568  11613
## 2793  88.49   2664 2793          2623           99178       102965   1008
## 2794  78.74   2688 2794          2587          108622       123144    988
## 2795 114.36   2934 2795          2764          492734        98290   8372
## 2796 101.36   2683 2796           145          106833        68325   2552
## 2797 107.41   2677 2797          2740          136070       108970   2440
## 2798 130.41   2524 2798          2341           48209        53614    459
## 2799 123.87   2882 2799          2854          222563        71443   5235
## 2800 110.50   2741 2800          2756          102452        84905   1975
## 2801  89.19   2756 2801          2688          256429        85827   2742
## 2802  91.22   2675 2802          2583          138067        76185   3223
## 2803  87.61   2863 2803          2757          255566        86150   5022
## 2804  97.15   2815 2804          2509          214731        82904   2944
## 2805  67.28   2849 2805          1916          235463       140160   2866
## 2806  85.88   2742 2806          2790          232101        77952   4254
## 2807 101.25   2626 2807          2647           97676        82755    678
## 2808 116.77   2793 2808          2798          203026        87640   3556
## 2809 139.32   2595 2809          2306           53610        59089   1427
## 2810  67.36   2916 2810          2833          427082       178707   3519
## 2811  71.70   2746 2811          2734          254609       131202   2487
## 2812  84.89   2679 2812          2187           91759        84021   2767
```

```
## 2813 111.23   2925 2813          2806          568229        66581  16236
## 2814  99.90   2720 2814          2709          125138        57649   2962
## 2815  85.01   2579 2815          2782          161289        87069   2845
## 2816  88.53   2716 2816          2738          161421        72822   2657
## 2817  99.84   2684 2817           402          137031        78292   1148
## 2818 108.18   2765 2818          2771          157316        71485   3919
## 2819 111.92   2712 2819          2577           79518        78306   1928
## 2820 115.05   2711 2820          2643          103208        53070   3384
## 2821 101.09   2695 2821            -1          100512        69022   1575
## 2822  97.06   2729 2822          2697           98823        67013   1823
## 2823  86.69   2897 2823          2870          397135        83528   8727
## 2824  79.25   2853 2824          2801          229463        76421   4183
## 2825  97.12   2926 2825          2845          457066        90685   6711
## 2826 108.20   2784 2826          2800          177736        77034   3788
## 2827  90.50   2813 2827          2747          295335        65074   6699
## 2828 105.78   2903 2828          2853          153411        63152   3385
## 2829  80.14   2798 2829          2480          155018        93944   3070
## 2830 101.59   2779 2830          2779          208668        67849   4426
## 2831 131.57   2837 2831          2792           90709        64688   1680
## 2832 100.13   2976 2832          2900          620533        75817  16149
## 2833 120.05   2705 2833            -1           73179        54537   1660
## 2834  94.90   2731 2834          2793          245075        67660   5844
## 2835  94.74   2648 2835          2770          145583        78617   1521
## 2836  94.22   2893 2836          2761          281751        59659   7970
## 2837  79.22   2802 2837          2677          292243       106169   3624
## 2838  72.93   2624 2838          2723          183049        92660   2574
## 2839 103.55   2658 2839           248          102591        62449   2621
## 2840  85.64   2633 2840          2672          209778        77487   4916
## 2841 104.93   2888 2841          2829          375408        77493  10617
## 2842  96.64   2751 2842          2744          163206        71031   3247
## 2843  78.54   2985 2843          2892          590936       120324   9291
## 2844 107.47   2857 2844          2819          175378        63495   3949
## 2845 125.32   2789 2845          2745          206040        53197   8448
## 2846  99.04   2907 2846          2732          188820        81826   2167
## 2847  90.55   2538 2847          2698          116618        71769   2345
## 2848  85.28   2939 2848          2884          484625       128873   3635
## 2849 110.83   2676 2849          2705          128470        55946   4490
## 2850 115.50   2864 2850          2695          227595        62671   6610
## 2851  99.06   2778 2851          2780          325978        62321   8350
## 2852 102.11   2874 2852          2904          388791        68839   9700
## 2853  83.11   2620 2853          2760          209862        83178   2518
## 2854  83.23   2724 2854           223          135053       110474    749
## 2855  97.08   2945 2855          2864          386740        65541  10185
## 2856  93.31   2797 2856          2474          125614        65062   2775
## 2857  74.45   2935 2857          2769          409830       102912   6282
## 2858 106.42   2852 2858          2571          153571        63248   4274
## 2859 112.64   2955 2859          2889          588758        67384  13731
## 2860  87.27   2830 2860          2758          163425        93494   4167
## 2861  98.01   2836 2861          2715          269544        61476   6983
## 2862  95.46   2758 2862          2785          160089        69349   3647
## 2863  95.51   2904 2863          2857          474912        83030   7285
## 2864 102.98   2887 2864          2841          416020        75792   9556
## 2865 120.78   2936 2865          2893          135418        61135   2549
## 2866  90.99   2745 2866          2778          155001        75272   2462
```

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## 2867  87.02   2862 2867          2832          210224        87316   3891
## 2868  83.29   2941 2868          2797          200689        76074   5392
## 2869  74.97   2566 2869          2783          246364       107843   3785
## 2870  78.27   2693 2870          2730          195143       101315   2537
## 2871  92.76   2786 2871          2791          120913        80255   1760
## 2872 103.94   2876 2872          2842          301121        57488   9774
## 2873  80.99   2942 2873          2894          769152        98712  11727
## 2874  94.68   2992 2874          2878          379811        66051   6755
## 2875  61.39   2763 2875          2830          221160       130088   1865
## 2876 122.92   2960 2876          2909          181554        71931   5087
## 2877  98.72   2605 2877          2753           92585        64494   2237
## 2878 103.54   3051 2878          2992          800487        65374  22062
## 2879  98.03   2829 2879            -1          142995        66768   3186
## 2880 100.14   2956 2880          2949          450824        99994   7032
## 2881 104.12   2821 2881          2664          229645        68819   5669
## 2882  86.82   2931 2882          2847          487401        71662  14497
## 2883 108.55   3056 2883          2980          803863        86247  14509
## 2884  97.85   2982 2884          2848          471611        74740  11431
## 2885  95.53   2773 2885          2813          127056        76646   2541
## 2886  94.10   2796 2886          2731          228227        80522   3245
## 2887  91.89   2879 2887          2874          192299       106190   2797
## 2888  86.26   2825 2888          2804          191537        82857   3504
## 2889 100.26   2846 2889          2828          227063        55576   7553
## 2890 112.05   2811 2890          2836          168726        62250   4482
## 2891 119.77   2968 2891          2910          209470        68574   4626
## 2892 108.43   2795 2892          2726          121178        53020   2687
## 2893  98.40   2889 2893          2843          217782        88818   2382
## 2894  75.40   2819 2894          2851          357176       117957   4174
## 2895 123.20   2998 2895          2930          382628        69311   8202
## 2896 104.18   2861 2896          2818          160187        65004   3836
## 2897  95.61   3010 2897          2928          524810        67675  12111
## 2898 169.88   2600 2898          2621           18487        70616    202
## 2899  79.21   2921 2899          2837          354721        85348   5945
## 2900 118.05   2920 2900          2814          376035        55339   8362
## 2901  86.30   2885 2901          2877          314588        70693   5857
## 2902  86.39   2790 2902          2824          180311        81033   3130
## 2903  96.86   2909 2903          2796          387681        86173   8001
## 2904  81.66   2783 2904            -1          170882        78329   2768
## 2905  87.28   2964 2905          2926          537575        74624  11657
## 2906 130.78   2839 2906          2781          178198        58887   6322
## 2907  93.79   2932 2907          2886          282015        64354   6486
## 2908  92.28   2950 2908          2773          323673        72625   5843
## 2909 103.78   2810 2909          2795          234036        63947   4939
## 2910  99.53   2922 2910          2868          258765       142785   4002
## 2911  91.83   2869 2911          2712          159358        76447   3462
## 2912 118.16   2850 2912          2858          152830        68750   2116
## 2913 108.27   2842 2913          1711          189827        76411   3683
## 2914 127.27   2843 2914          2835          298771        58507   2879
## 2915  90.89   2994 2915          2888          573030        89901  10972
## 2916  91.37   2902 2916          2879          261437        70525   6318
## 2917  84.75   2979 2917          2919          497441        81621  10165
## 2918  90.11   2831 2918            -1          206098        63091   3939
## 2919  98.20   2927 2919          2880          459312        82238   8762
## 2920  97.45   2848 2920            -1           55192        64536   1341
```

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## 2921  82.57   2997 2921          2825          464226       105271   7369
## 2922  99.31   2953 2922          2867          555151        83703  10772
## 2923  79.17   2915 2923          2906          368283       145737   3663
## 2924 101.24   2838 2924          2826          201367        55088   4367
## 2925 103.04   3014 2925          2971          600266       104434   7387
## 2926  88.66   2929 2926          2799          414711        84320  10282
## 2927  95.31   2913 2927          2696          305940        92983   7565
## 2928 154.40   2701 2928          2699           71172        44496   1290
## 2929 133.27   2905 2929          2859          406943        68711   5993
## 2930 100.60   2820 2930          2752          100428        71115   1243
## 2931  82.65   2978 2931          2728          383286        96333   6136
## 2932  98.24   2959 2932          2787          200056        69455   5594
## 2933 124.24   2782 2933          2815          158916        51241   4396
## 2934  96.99   2899 2934          2885          363561        91364   5529
## 2935  85.45   2946 2935          2856          272298       114457   3008
## 2936  80.66   2951 2936          2875          368394        87156   7765
## 2937 102.02   3017 2937          2929          510516        94948   8194
## 2938 106.31   2965 2938          2786          646434        86411  14180
## 2939  87.06   2859 2939          2807          145270       106666   1381
## 2940  85.28   2908 2940          2912          389910        81194   6733
## 2941  88.04   2884 2941          2866          328317       102772   4765
## 2942  93.21   2774 2942            -1          130555        76704   2092
## 2943  97.64   3020 2943          2981          655709        97215   9154
## 2944 107.38   2894 2944          2862          189210        58347   5615
## 2945 110.34   2841 2945          2846          232973        50067   8597
## 2946  89.15   2906 2946          2840          334434        86397   7476
## 2947  71.50   2891 2947          2708          317163       113927   4515
## 2948  93.11   3006 2948          2897          578436        84198  10337
## 2949  97.21   2878 2949          2827          429989        77684   8117
## 2950 100.28   2962 2950          2920          491770        85600  10248
## 2951 139.99   2901 2951          2720          217420        55799   7193
## 2952  76.31   2961 2952          2849          381650        95155   4742
## 2953 148.85   3034 2953          2850          782172        92859  17230
## 2954  88.34   3005 2954          2855          524042        86384  12712
## 2955 104.98   2895 2955          2907          281486        93398   4538
## 2956  78.23   2969 2956          2809          424732       100436   7224
## 2957  93.32   2991 2957          2903          367095        98764   4558
## 2958 118.34   2877 2958          2876          242405        72355   3311
## 2959  78.30   2943 2959          2863          540896       123041   8465
## 2960  98.65   2930 2960          2548          119398        66254   2994
## 2961  95.36   2952 2961          2821          253939        59934   7221
## 2962  80.43   2996 2962          2913          861225       111521  17826
## 2963  99.30   3011 2963          2914          542987        66027  11216
## 2964  93.79   2970 2964          2820          418725        61699   8809
## 2965 101.78   3013 2965          2942          422308       100360   6892
## 2966  87.38   2924 2966          2898          298614        87144   3919
## 2967 115.43   2873 2967          2816          227197        58153   6696
## 2968  88.20   3003 2968          2915          442204       105212   4387
## 2969  85.69   2963 2969          2865          576195        88576  10411
## 2970 105.45   2914 2970          2918          432484        65246  11395
## 2971 127.40   2883 2971          2895          158790        75496   1981
## 2972 103.03   3027 2972          2927          960565        70293  26851
## 2973  91.98   2986 2973          2966          412435       114678   8117
## 2974 172.19   2799 2974          2630           65680        40338   1088
```

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## 2975  81.21   2972 2975          2882          645993       111951  12222
## 2976  85.94   2870 2976          2823          353345        72468   7493
## 2977 102.92   2933 2977            -1          283289        64363   6980
## 2978  88.42   2866 2978             2          195217        74114   5433
## 2979  97.93   3002 2979          2932          428748        60095  12006
## 2980  98.00   2988 2980          2943          966972        84823   9081
## 2981  90.22   2947 2981          2923          373764        65740   9937
## 2982 116.72   2919 2982          2562          144643        69748   2452
## 2983 119.46   2923 2983          2743          125458        58970   2203
## 2984 113.86   2980 2984          2952          346532        74624   5945
## 2985 119.39   2948 2985          2872          267731        62506   3955
## 2986 130.69   2928 2986          2911          266021       109266   3483
## 2987  99.91   2971 2987          2891          398949        60385  13850
## 2988 102.63   3018 2988          2899          754068        74409  16895
## 2989  76.08   3008 2989          2947          614764       107261   9127
## 2990  94.02   2975 2990          2861          314633        63367   8605
## 2991 102.78   2938 2991           175          179831        64938   6312
## 2992  82.42   3023 2992          2922          564777        88108   9047
## 2993  96.17   3068 2993          2953          658977        78204  14104
## 2994  91.93   2890 2994            -1          264631        74800   5467
## 2995  73.18   3052 2995          2970         1057586       128733  15199
## 2996  76.72   2987 2996          2925          654722        97266  11830
## 2997  97.17   3072 2997          2999          736008        87470  11517
## 2998 109.59   3030 2998          2883          462853        70535  10817
## 2999  91.07   3000 2999          2896          531889       109698   9107
## 3000  93.86   3047 3000          2968          544323        73513  11532
## 3001  74.80   2958 3001          2902          409040       104100   7360
## 3002 101.93   2983 3002          2852          263608        63888   5901
## 3003 105.38   3009 3003          2964          836321       141446  12474
## 3004 103.04   2967 3004          2935          498990        68985  12463
## 3005 125.78   2912 3005          2887          179319        56393   2611
## 3006  90.56   2911 3006          1213          266183        87083   4210
## 3007 120.92   2990 3007          2871          710478        90032   7923
## 3008 100.76   3101 3008          3014          924106        96632  15207
## 3009 125.45   2989 3009          2765          241656        66106   6470
## 3010 101.71   3054 3010          2976          713734        91681  10370
## 3011 150.22   2900 3011          2839          207685        60417   4100
## 3012 107.71   2977 3012          2931          792692        73099  16597
## 3013  73.77   3022 3013          2808          510375       134929  10261
## 3014  98.35   2954 3014          2916          340711        93287   3608
## 3015 117.50   2937 3015          2802          222494        49966   9691
## 3016  89.48   2918 3016           238          311366       102836   3413
## 3017  96.55   2917 3017            -1          254777        70178   5153
## 3018  93.82   3080 3018          2998          834648       107982  10919
## 3020 148.05   2949 3020          2768          107744        52752   2149
## 3021 115.28   2981 3021          2921          413162        58119  11370
## 3022  89.68   3019 3022          2951          508052        88907   8615
## 3024  81.55   3029 3024          2940          849586        90904  16834
## 3025  75.59   3038 3025          2838          643615       122727  13229
## 3026 121.74   3016 3026          2881          449219        77588   5401
## 3027  96.67   3037 3027          2908          572549       100117   9206
## 3028 115.81   3036 3028          2957          760961        63644  15969
## 3029  85.93   2999 3029          2938          538087        71016  13131
## 3030 113.13   2966 3030          2822          293109        55279   9782
```

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## 3031  71.50   3070 3031          2974          945644       108185   9082
## 3032  97.07   3004 3032          2905          762105        77683  10538
## 3033  93.91   3041 3033          2988          585461        79081  11027
## 3034  81.93   3046 3034          2901          643889       108309   7567
## 3035 109.32   3031 3035          2869          518289        87137   8089
## 3036  96.10   3001 3036          2975          535528        64403  16424
## 3037 103.09   3012 3037          2963          404087        60673  10193
## 3038 100.12   3078 3038          2973          717021        67178  16632
## 3039  74.06   3059 3039          2945         1144474       150113  11259
## 3040  84.22   2944 3040          1447          366742       108058   3742
## 3041  99.20   2974 3041          2890          352829        66021   8707
## 3042 119.28   2993 3042          2917          256605        68015   4302
## 3043  95.21   3060 3043          2933          724540       126497  10424
## 3044 102.51   3026 3044          2948          709846        75664  19941
## 3045  74.12   3028 3045          2959          859721       113409   7659
## 3046 126.12   2984 3046          2941          285597        65044   3157
## 3048  97.23   2973 3048          2934          452821        63075  12498
## 3049  89.85   3021 3049          2982          579715       107800   9923
## 3050 112.38   3015 3050          2983          524408        91387   8040
## 3051 111.96   3032 3051          2965         1003666       104264  15994
## 3052 133.73   2995 3052          2960          443975        95977   6802
## 3053 100.06   3062 3053          2936          950044        71175  21802
## 3054 117.58   3067 3054          2991          971822        63450  23137
## 3055 109.50   3025 3055          2950          577193        59623  18339
## 3056 100.61   3065 3056          2996         1007189        68447  22951
## 3057  80.31   3064 3057          2994         1151009       101763  12937
## 3058  85.75   3050 3058          2924          861535       109028  14765
## 3059 104.40   3077 3059          3002         1507453        81115  33671
## 3060 110.61   3045 3060          3000          485642       102840   8370
## 3061  95.58   3049 3061          2995         1130906        83765  15483
## 3062  95.91   3069 3062          2967          996888       118411  15831
## 3063  81.14   3057 3063          2955         1068507        91490  19372
## 3064 115.27   3043 3064          3011          552250        79661  11553
## 3065 103.64   3075 3065          2937          807258        99431  14114
## 3066  96.68   3053 3066          2962          674357        66514  15980
## 3067  95.36   3039 3067          2944          777392        67849  22194
## 3068  85.69   3061 3068          2979          827878        70816  21015
## 3069  93.46   3073 3069          3006          658844        80390  12745
## 3070 114.64   3040 3070          3001          745100       156000   9237
## 3071 109.82   3085 3071          2946          854130        76712  15569
## 3072  85.50   3066 3072          2977          955584       100708  11491
## 3073 103.82   3097 3073          3012         1489634        75011  26856
## 3074 138.59   3007 3074          2989          435834        94486   5572
## 3075  92.02   3082 3075          2990          861664        93561  15131
## 3076  97.40   3090 3076          2985          544438        81004  11024
## 3077 103.16   3076 3077          2972          672079       106287  13229
## 3078 108.03   3088 3078          3024          787416        88531  12447
## 3079  72.89   3099 3079          2997         1116601       117588  13624
## 3080  90.35   3035 3080           515          516097       100678   7297
## 3081  83.03   3084 3081          2984         1240476        76393  34564
## 3082  80.66   3089 3082          2954          954717       123715  17264
## 3083 113.27   3093 3083          3016         1440471        77011  22375
## 3084 108.50   3091 3084          3017          927656        62118  19927
## 3085 103.10   3098 3085          2986         1525680       128329  28172
```

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## 3086 108.53   3113 3086          3034          1584047        88724  25978
## 3087  81.97   3086 3087          2993           996618        81340  26372
## 3088 100.99   3096 3088          3029          1161458       125727  15877
## 3089 107.72   3042 3089          2978           669744        64589  21446
## 3090  89.08   3048 3090          1682           683622        96877   6093
## 3091  94.20   3071 3091          3015           877624        76399  16032
## 3092  90.85   3092 3092          2969          1388138       143408  26573
## 3093  82.47   3055 3093           221           711885       108917  10814
## 3094 211.70   3118 3094          3010          1419250        49036  27711
## 3095  91.37   3115 3095          3005          1622896       126779  22478
## 3096 129.77   3044 3096          3007           475774        69489   6979
## 3097  86.01   3058 3097           552           698450       107799   9413
## 3098 138.65   3100 3098          3018          1582432        60698  32927
## 3099  80.44   3102 3099          3004          1307625        97169  14866
## 3100 122.03   3110 3100          3013          1627788       104553  31510
## 3101 157.63   3111 3101          3019          2330124        84961  31594
## 3102 104.68   3117 3102          3032          2293764        73845  42201
## 3103 124.66   3033 3103          2961           423192        51334   7967
## 3104  96.62   3095 3104          3008           922195        62337  23816
## 3105 102.90   3087 3105          3021           838259       107327  12174
## 3106 112.31   3094 3106          3003           866275        58859  15199
## 3107 114.75   3083 3107          3027           910433        67660  13952
## 3108  92.50   3109 3108          3031          1321635        73795  28590
## 3109 103.32   3114 3109          3009          1049947        67929  24842
## 3110 116.25   3107 3110          3028          1946127        74534  34171
## 3111  89.63   3103 3111          2078          1184689        94658  16761
## 3112  85.80   3127 3112          3038          2262713       122148  29520
## 3113 164.57   3126 3113          3026          2646306        78548  37261
## 3114  95.81   3116 3114          3037          1651949       126240  21129
## 3115  81.27   3081 3115           195           927263       110502  14460
## 3116  85.65   3119 3116          3023          1268903        96339  22062
## 3117  94.27   3106 3117          3022          1249418        62823  34124
## 3118  75.30   3105 3118          3025          1272294        95296  26836
## 3119 114.49   3108 3119          3033          1012152        71434  17130
## 3120  88.53   3125 3120          3036          2135743        81905  35653
## 3121  92.72   3112 3121          3039          1903297       159674  22532
## 3122 105.30   3120 3122          3042          2449909        89672  39417
## 3123  94.83   3122 3123          3035          2037344        70571  37715
## 3124 124.64   3104 3124          3020           880921        52281  13040
## 3125 104.74   3129 3125          3041          2603816        74149  38612
## 3126 110.63   3123 3126          3043          2187816        82184  36534
## 3127 113.80   3124 3127          3040          1773767        59521  39635
## 3128 114.22   3130 3128          3047          3282782       102285  48728
## 3129 142.38   3121 3129          3030          2685296        68694  49180
## 3130 106.79   3128 3130          3044          3164063       113702  46743
## 3131 105.10   3132 3131          3045          4491987        85518  85275
## 3132  93.24   3131 3132          3046          4758579        73104  70129
## 3133  98.36   3133 3133          2607          5185812        81797  91509
## 3134 124.18   3134 3134          3048          9848406        87760 152835
##      Poverty Bachelors Uninsured Life Expectancy crime
## 1       11.3 16.010648 14.372767        75.22752 0.008
## 5       26.2 16.878049 17.496375        74.53755 0.000
## 6       11.0 24.378414  9.613575        73.17629 0.023
## 8       22.0 10.720775 28.640309        72.00994 0.033
```

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## 9       10.5 21.411947 16.737589       72.07032 0.007
## 10      15.1 19.536247 17.171239       73.66225 0.006
## 13      25.1 16.266823 21.512876       72.11035 0.040
## 15       9.2 30.105553  8.559250       76.23189 0.009
## 18      18.8 48.479663  8.446262       76.58340 0.025
## 19      13.8 33.701509 11.583452       77.58382 0.014
## 21      20.5 16.303671 31.275480       73.74528 0.000
## 23       7.2 22.347066  7.275443       80.39619 0.008
## 24      13.0 37.921631  8.451030       76.38402 0.015
## 27      15.1 12.823080 17.508462       78.59333 0.011
## 28      12.7 19.463602  9.517241       73.34107 0.011
## 29      21.2 12.492205  8.039492       75.19634 0.017
## 30      13.9 22.603902 11.676002       76.35664 0.021
## 31      13.0 21.093431 20.354696       75.58287 0.009
## 35      14.3 18.225156 17.575758       75.06064 0.018
## 36       6.5 58.382775  4.144693       83.15106 0.023
## 38      12.1 33.884559 10.707178       76.98323 0.011
## 40      16.2 31.639636 11.101702       75.30261 0.030
## 41      13.2 17.268270  8.181341       76.41865 0.024
## 42      19.9 11.478402 21.547224       74.08674 0.001
## 43      20.1 15.152347  9.347524       67.26194 0.054
## 44      20.6 16.647354  7.561057       69.03161 0.045
## 45      13.8 28.543436 14.690529       83.30592 0.007
## 46      14.5 10.648855 13.003096       75.58560 0.009
## 47       7.2 48.377643  6.172319       80.83645 0.044
## 48      17.3 20.945946 16.285453       72.06194 0.015
## 49      15.9 20.706260  9.622787       74.01161 0.000
## 50      15.0 25.376782 14.829232       74.27188 0.017
## 52      12.5 19.709265 10.017536       76.04465 0.011
## 53      19.1 17.850928 16.766292       73.86464 0.003
## 54       6.3 35.831483  6.208011       78.16138 0.010
## 55       8.7 26.347414 11.735152       80.28875 0.008
## 56      12.9 31.608046 11.367521       74.00620 0.013
## 57      16.3 21.231672  8.974359       75.76785 0.004
## 58      14.1 29.311970 15.593635       75.96670 0.013
## 59      26.4 39.751217  6.362575       75.98879 0.029
## 60      27.3 15.046879 16.727896       72.84763 0.015
## 61      12.7 46.789100  9.920949       74.52384 0.040
## 62      16.3 27.580531 11.811525       77.04104 0.000
## 63      10.0 16.783217 11.122770       73.35414 0.011
## 64      23.3 13.718019 19.466036       75.20052 0.000
## 67       9.4 18.911745 14.267352       77.82265 0.005
## 68       7.3 37.280504  7.374860       77.93397 0.010
## 70      19.1 11.192351 11.684017       73.72770 0.008
## 72      21.7 18.424658 15.875885       70.80846 0.017
## 73      18.7 14.355528  9.142497       73.58207 0.009
## 74      11.5 18.132855  7.702182       75.20502 0.023
## 75       7.8 23.631990 13.513514       84.68774 0.000
## 77      10.5 21.025128 10.306248       77.44837 0.014
## 78      13.8 19.749795  9.155447       76.06033 0.010
## 79      11.3 22.273118 10.213316       79.24504 0.011
## 80      10.4 28.398268 14.124718       70.83601 0.005
## 81      12.8 34.604905 24.296472       79.01858 0.011
## 82      12.4 25.401341  9.011988       76.82422 0.011
```

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## 83      13.8 25.159439 24.552950       75.84997 0.010
## 84      26.2 10.876441 10.344373       73.16611 0.014
## 85      19.6 13.540291  7.373272       71.29320 0.002
## 86      23.3 13.020163 18.883415       69.82977 0.036
## 87      13.1 24.549108 18.883659       76.60211 0.022
## 88      18.4 15.637427 18.204110       69.55749 0.019
## 89      10.7 27.528584 10.169492       82.93158 0.001
## 90      16.9 16.146540 22.822689       71.56688 0.015
## 91       6.7 46.992481  4.835683       80.05905 0.008
## 92      14.0 10.788986 11.108344       75.16521 0.000
## 93      12.7 27.387078 13.085166       78.57720 0.006
## 94      16.9 17.411438 23.813307       72.79947 0.035
## 97      18.3 14.532721 24.074272       74.22419 0.024
## 98      23.0 12.001050 15.370623       76.05564 0.031
## 99      19.7 25.921909 29.227761       75.16073 0.015
## 105     20.7 20.232922 16.296646       73.16636 0.001
## 106     14.7 18.347862 15.818540       76.00532 0.011
## 107     24.0 12.821735 19.694113       71.03188 0.009
## 108     19.3 15.537752 17.957822       72.70465 0.029
## 109     12.1 18.820862 12.160158       80.42102 0.000
## 110     24.2 13.628870 17.614328       73.85265 0.011
## 111     11.4 27.217985  9.961089       77.86284 0.004
## 113     11.2 30.135034 14.548814       75.83939 0.008
## 114     22.3 15.815266 16.593310       72.50121 0.018
## 116     10.7 23.127213  7.975460       76.67730 0.022
## 117     21.6 14.409722 21.945844       76.40521 0.008
## 119     37.5 12.656140  6.201248       72.45568 0.011
## 121     34.0  9.382908 14.396485       70.12459 0.016
## 126     22.9 11.023731 18.800136       70.34998 0.029
## 127     11.6 24.462872  6.152733       78.39513 0.009
## 128     13.0 16.683768  8.674304       75.38568 0.010
## 129     12.0 20.693119 15.180613       64.55802 0.008
## 130     11.5 28.193585  9.921962       72.48840 0.016
## 131     23.7  8.952381 20.757268       68.61745 0.018
## 133     18.9 26.046512 31.060970       72.33497 0.008
## 135     15.8 20.647583  8.415766       75.37703 0.011
## 136      9.4 27.653700  9.494411       76.49180 0.012
## 137     15.7 19.145651 25.038560       73.24454 0.016
## 138     15.8 10.129564 10.588534       73.66700 0.020
## 139     12.8 30.434783 24.686941       80.05087 0.006
## 141     11.8 20.755926 11.734029       76.33988 0.003
## 142     12.9 26.269123 10.019424       74.40772 0.024
## 143     22.8  9.210234 13.331859       73.39467 0.013
## 144     13.5 23.372422  6.066396       78.56151 0.019
## 145     14.0 19.976905 20.837660       77.24382 0.013
## 146      8.5 49.027847  4.061366       82.12663 0.016
## 147     19.3 22.498080 24.756387       74.83736 0.011
## 148     10.7 23.696319 17.268351       78.32123 0.000
## 150     21.4 57.305444  6.789788       76.32421 0.012
## 151     20.0 22.902338 29.451039       76.87704 0.002
## 152     10.9 17.294053 11.809317       77.95838 0.018
## 154     17.7 17.441173  9.154101       72.10403 0.020
## 155     18.7 18.633892 17.601647       76.77134 0.032
## 157      8.9 28.806584  9.520349       75.78160 0.007
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## 158     26.4 22.556008 18.507157        71.33162 0.002
## 159     13.1 18.075802 11.312849        76.32500 0.021
## 160     17.6 19.694984 20.724009        72.33061 0.020
## 161     14.2 21.250759 10.057803        80.32925 0.009
## 163      8.0 25.761250 12.345951        77.60827 0.007
## 164     11.4 31.455123  8.956613        77.52082 0.013
## 166      7.9 33.391557 15.337723        75.91074 0.012
## 167     13.9 27.808471 12.071611        77.71772 0.007
## 168     15.7 14.860051 17.041119        73.38358 0.007
## 169     18.0 32.530795 14.834902        75.34991 0.013
## 171     16.4 15.026115 27.364987        74.83682 0.013
## 172      9.3 25.721519 11.235431        78.64665 0.007
## 173     14.1 36.424205 16.249720        77.56189 0.017
## 175     13.5 19.984945 12.858220        74.54728 0.014
## 177      9.3 23.207660  8.832412        75.73504 0.012
## 178      5.1 79.725749  4.416905        77.36865 0.017
## 179     15.4 24.311149 10.967685        74.82797 0.034
## 180     11.4 20.505546 10.196474        77.59191 0.009
## 181     20.6 12.686810 17.955924        70.78312 0.009
## 183     15.6 28.277402 17.853067        75.42158 0.026
## 184     11.8 35.267857  9.446652        80.94054 0.021
## 185     18.7 14.846389 10.076207        73.82643 0.023
## 186     28.9  7.817243 17.939639        72.97305 0.016
## 187     20.5 15.597920 25.732775        71.66111 0.027
## 188     11.4 29.273504  9.221748        82.84595 0.005
## 189     10.7 28.745890 11.994149        79.42512 0.017
## 190     17.4 28.370221 18.000000        70.65312 0.020
## 193     11.6 27.353464  8.953342        80.77995 0.006
## 194     11.6 21.199797  9.018692        78.00643 0.009
## 195     19.9 16.748596 18.303159        72.90947 0.033
## 196     12.3 14.285714 12.687747        74.41636 0.006
## 197      9.6 26.405338  9.823735        77.81804 0.011
## 198     15.8 14.010283 17.614583        72.14512 0.023
## 200     21.7 15.994927 21.458363        72.34281 0.029
## 202     15.1 24.521292 12.574970        74.54877 0.027
## 203     10.5 18.839590 17.863720        73.62829 0.015
## 204     14.8 19.852105 16.832238        74.06806 0.014
## 205     26.4 19.872754  8.507825        76.72963 0.010
## 206     15.6 35.165914  9.622226        77.10254 0.018
## 207     21.3 16.830295 23.279008        70.42739 0.012
## 209     12.6 25.404531 28.873836        78.20476 0.006
## 210     14.6 21.737931 12.585313        77.39522 0.010
## 211     11.6 32.845894 17.600437        77.44952 0.017
## 212     12.6 37.395869 11.254067        75.12541 0.015
## 213     20.9 15.808601  8.600606        72.35033 0.012
## 214     23.2 11.670236  9.106802        73.11010 0.000
## 215     14.1 26.769406  7.450524        77.25272 0.028
## 217     10.1 27.611352  9.958042        78.06600 0.008
## 219     33.8 16.848973 12.504253        69.03754 0.010
## 220     10.1 24.445450 25.329429        81.09868 0.016
## 221     11.1 18.651363  8.316317        77.28305 0.009
## 223      7.7 25.478619 15.242193        85.34483 0.011
## 224     13.4 15.477855 23.755656        76.48448 0.015
## 225     11.1 26.382212 16.692004        70.77769 0.012
```

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## 226     13.1 14.484396 21.438083       76.65701 0.012
## 228      9.9 24.664430 10.625121       77.40655 0.011
## 229     16.6 16.892430 17.148690       75.67334 0.005
## 230     12.9 35.472579 11.017544       78.61615 0.012
## 231     20.3 11.518506 25.251999       71.80058 0.017
## 232      9.8 28.154050 10.582481       79.37538 0.017
## 234     12.1 19.191118 10.166667       72.44787 0.005
## 235     10.5 15.354239  7.035707       77.15849 0.011
## 237     12.8 18.775678  9.894260       77.36552 0.024
## 239     11.7 27.124646 12.795594       75.18822 0.011
## 242     18.2 14.870825 11.412830       73.06543 0.022
## 243     10.1 24.175306  9.517426       78.72686 0.000
## 244     26.2 11.397101 18.370264       74.04844 0.017
## 246     17.2 18.492691 14.594672       73.70908 0.000
## 247     15.3 11.251074  6.846276       77.02143 0.018
## 248     19.4 16.627817 16.223797       72.28432 0.026
## 249      7.9 65.206389 12.128010       88.25215 0.011
## 251      7.4 31.630824 13.132400       83.17827 0.028
## 252     18.4 18.203310 24.138968       73.69862 0.019
## 253     38.7  6.865178  8.657757       69.28682 0.031
## 255     17.7  9.599791  7.462687       69.32124 0.025
## 256     20.2 19.313746  7.079915       75.55622 0.025
## 257     12.7 18.732782 12.507011       77.60671 0.011
## 258     17.2  9.461286  7.847082       72.99882 0.003
## 259     20.8 18.287763 12.871471       66.18723 0.036
## 260     11.8 21.534064 11.147236       77.56724 0.006
## 261     36.3 12.211669 19.146217       76.93808 0.012
## 263     12.2 18.301158 11.986908       73.44793 0.023
## 264     16.0 24.204947 29.652670       77.66914 0.023
## 265     13.9 15.444400  7.622102       75.74308 0.010
## 266      7.1 24.262398  7.072117       75.31351 0.006
## 267     11.6 22.433177 13.690777       76.72918 0.012
## 268     19.6 11.132855 10.238365       71.20601 0.038
## 269     17.5 45.953250 13.246101       77.82950 0.020
## 270     13.6 15.123175 13.481631       77.54493 0.030
## 272     13.6 20.303418  6.774400       73.03267 0.014
## 274     28.4 14.079422 15.732057       71.26477 0.018
## 275     10.9 32.678712  6.584992       78.57821 0.001
## 276     25.9 17.267300  6.861283       67.46000 0.019
## 277     14.6 13.818387 10.080645       75.24597 0.001
## 278     14.2 18.169343  9.389863       77.57273 0.009
## 279     13.6 22.920016  9.059035       76.33936 0.029
## 280      8.4 30.314086 10.547185       79.84582 0.015
## 281     16.1 16.846878  7.040121       76.94017 0.000
## 282     27.3 13.781827  6.856297       72.25940 0.010
## 284     11.8 20.947298  7.794944       79.69213 0.002
## 285     16.9 16.750303 19.780591       74.78033 0.025
## 287     11.7 33.058702 22.934063       77.05883 0.008
## 288     25.7 14.642899 17.846134       73.08885 0.017
## 289     17.7 16.242294  8.441065       74.76484 0.016
## 290     26.2  9.120187 18.089675       72.64963 0.029
## 291      8.8 24.974200 18.068167       77.68226 0.009
## 292     14.4 15.969083 20.701712       74.15879 0.011
## 294     18.1 13.491189 10.451286       75.93382 0.010
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## 295     27.7 20.258621 17.746368       69.47433 0.027
## 296     19.3 20.569830 14.496047       71.74167 0.003
## 297     16.6 17.166141 15.802537       76.11837 0.014
## 298     16.7 15.821625 23.266586       74.04795 0.014
## 299     12.6 19.568567  8.259109       75.37490 0.000
## 300     18.6 20.673712 10.226202       79.62216 0.007
## 301     12.9 14.617940  8.285113       71.32455 0.006
## 303     11.1 22.377622  9.257672       77.84623 0.008
## 304     14.7 13.985094 14.709650       69.07356 0.013
## 305     18.5 10.618997 23.200677       75.68824 0.010
## 306     14.6 21.765817 12.394580       73.85299 0.024
## 307     16.9 15.235403 13.245392       71.80561 0.011
## 308     25.7 15.257215 14.918676       75.00146 0.009
## 309     21.1  9.948710 20.028848       72.24570 0.042
## 310     33.1 11.406460  7.594937       65.76729 0.015
## 311     14.9 18.083622 16.679272       75.44340 0.029
## 312      7.4 62.349824  8.737580       75.74972 0.018
## 313     11.0 24.255319  7.655755       75.68990 0.017
## 314     23.1 17.451524  7.015251       73.56643 0.004
## 315     25.5 16.105083 14.301457       70.12542 0.023
## 316     15.6 14.879138 17.051288       71.88457 0.031
## 317     18.5 21.316050 13.868710       73.75430 0.020
## 318     17.4 20.380799 18.012564       74.00582 0.019
## 319     16.2 19.883056 13.649255       73.59444 0.031
## 322     17.7 16.024778  7.816055       73.97484 0.004
## 323     22.5 14.744204 15.669676       71.75323 0.020
## 324     13.0 17.518437 10.357911       73.81103 0.016
## 325      9.8 15.652965  7.277434       76.97154 0.019
## 326     16.2 18.253379 17.504439       70.99213 0.023
## 327     19.8 26.431639  7.611590       67.93071 0.041
## 328     18.5  6.230177 22.483110       73.36519 0.003
## 329     15.7 16.936904 23.759921       74.66700 0.023
## 330     16.5 16.047897 13.624029       74.75866 0.020
## 332     11.5 21.639888 19.419567       75.88145 0.022
## 334     12.2 21.303258 12.083071       80.77765 0.008
## 335     10.3 25.728664 10.021960       76.56092 0.005
## 336      8.2 41.780096 10.837555       84.75686 0.008
## 337     13.8 18.980769 20.164835       78.95431 0.015
## 338     15.1 16.149068 22.079972       75.12237 0.031
## 339     14.0 22.736769 15.077399       74.47829 0.012
## 340     12.2 15.718835 32.353411       71.61669 0.036
## 341     17.4 25.647129 24.785195       76.93428 0.007
## 342     23.9 11.083824 18.144147       71.98765 0.034
## 343     18.0 14.859553 18.045564       72.61503 0.033
## 344     22.1 17.818890 28.524436       75.13675 0.015
## 346      5.8 40.065962  5.462349       78.41283 0.015
## 347     21.0 19.521756 14.744802       77.46353 0.004
## 348     13.0 29.935533 22.130197       74.65701 0.021
## 349      7.7 56.262559  8.253882       82.77620 0.023
## 350     24.2 15.736180 19.107685       73.76536 0.017
## 351     19.5 10.828025 10.458360       71.47084 0.025
## 352     11.9 22.496372  8.482143       77.77464 0.003
## 353     19.7 11.457684 19.315304       71.96465 0.029
## 354     11.9 24.558768  9.871245       80.67257 0.018
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## 355      7.6 25.355342 10.145548        81.17612 0.005
## 356     21.1 21.913043 15.197164        67.73211 0.013
## 357     15.6 14.585898 16.483747        71.49351 0.023
## 358      8.7 43.177010  4.884761        78.35639 0.006
## 359     10.2 20.623917  7.022138        79.02102 0.011
## 360     19.7 17.278941 20.131052        73.19336 0.032
## 362     12.3 17.960046 18.656963        75.21077 0.011
## 363     14.1 26.222222  8.008658        80.58642 0.004
## 364     22.4  9.815390 26.279333        70.15410 0.004
## 365     16.5 24.198617 17.395109        73.65195 0.031
## 368     11.2 25.575506 17.909723        77.96753 0.012
## 369     10.4 29.491124  7.571429        72.52897 0.048
## 371     14.2 19.515048 14.582207        72.53304 0.022
## 372     22.5 21.248143  8.547009        66.65524 0.029
## 373     16.3 22.824321 18.423733        77.23419 0.009
## 374      9.3 24.534140  9.379737        75.06558 0.015
## 375     18.3 23.874839 16.839279        74.06227 0.018
## 376     14.1 17.131804  9.797724        74.08768 0.027
## 377     13.0 22.276444 11.196673        74.93721 0.039
## 378     12.2 21.612903 15.115063        76.42564 0.011
## 379     12.0 20.075553 11.208239        76.35813 0.013
## 380     22.6 16.186184 13.142874        70.45685 0.051
## 381     11.2 21.346280 10.106206        77.47403 0.027
## 382     15.3 11.000453 27.335500        71.20904 0.014
## 383     24.6 13.255931  9.620318        71.80616 0.048
## 384     12.8 25.629723 32.747535        79.33473 0.005
## 385     17.5 14.830045 15.683604        70.28579 0.035
## 386     14.1 21.669386 13.904668        74.72766 0.027
## 387     30.1 10.073827 16.802097        74.60006 0.014
## 388     14.3 19.513642 28.173375        72.44899 0.017
## 389      7.1 23.996868 18.724961        78.18667 0.013
## 390     14.5 21.816450 11.029412        76.05971 0.013
## 391     26.7  8.576756 11.586557        71.24327 0.020
## 392     15.3  8.808989 22.324384        76.10828 0.006
## 393     11.7 14.344828 25.313962        74.65056 0.009
## 394     13.7 16.752635  5.888545        72.85721 0.018
## 395     18.3 27.061271  8.712446        73.73216 0.035
## 396      9.2 20.067139  5.991987        79.01140 0.003
## 397     11.2 30.457623 14.411428        78.25994 0.018
## 398     12.1 31.414678 17.451160        76.59107 0.026
## 399     19.2 15.016166 13.152738        71.74178 0.024
## 400     14.5 20.655843  8.504607        77.29141 0.013
## 401     15.8 19.582245 18.856065        78.75585 0.000
## 402     11.3 18.400688  6.593407        75.53638 0.000
## 404     16.1 19.849962 18.611491        75.08600 0.018
## 405     15.1 18.891412 13.648829        75.52017 0.025
## 406     13.3 24.396135  9.776751        77.51073 0.002
## 407     13.9 20.456040  9.875425        75.42394 0.005
## 409      9.1 40.457682 11.263094        80.35709 0.059
## 410     10.7 17.048631 22.537680        75.99774 0.023
## 411     12.3 18.849392  8.150908        79.23446 0.005
## 412     16.9 16.926600 17.944016        72.69427 0.016
## 413     14.8 19.368213  8.542000        77.77163 0.005
## 414     24.2 12.673797 15.723109        72.59971 0.014
```

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## 415     13.0 20.183572 19.367777       75.13121 0.016
## 416     10.2 23.009815 15.481594       73.46460 0.013
## 417     18.8 12.797784 17.862936       71.99614 0.029
## 418     10.5 15.553465  8.455506       75.73097 0.007
## 419     31.6 10.997354 19.497972       72.56556 0.019
## 420     11.2 40.710081 11.993175       80.93818 0.014
## 421     10.0 17.524265 10.912723       75.45424 0.013
## 422     12.5 26.642336 24.941360       78.96197 0.003
## 423     16.1 10.930362 14.475642       71.71830 0.033
## 424     24.4 12.107976 16.627166       69.60222 0.045
## 425     32.5 12.326345 18.873668       73.49097 0.001
## 426     15.3 16.537304 14.883411       75.58630 0.010
## 427     10.1 41.325851  7.648984       78.87814 0.021
## 428     11.9 27.638364  9.664694       78.52312 0.009
## 429     15.7 13.491969  8.183952       73.04507 0.010
## 430     18.2 33.325320 19.071962       73.49094 0.019
## 431     19.7 14.010815 18.243619       71.65861 0.053
## 432     11.6 17.624387 12.450067       78.38754 0.002
## 433     14.6 24.731183  8.797054       71.62445 0.009
## 434     15.5 13.902719 16.745597       73.21504 0.021
## 435     17.8 15.746248 18.591109       73.17729 0.006
## 436     10.5 23.914542  7.722008       81.95221 0.012
## 437      9.2 18.954545  8.681533       77.79862 0.000
## 438     24.4 15.890851 10.175055       73.03689 0.017
## 439     13.1 26.096998  7.764317       81.91695 0.000
## 440     19.7 15.294384 19.518072       74.75187 0.019
## 441     12.0 27.980947 12.445154       76.44045 0.014
## 442     12.2 17.341476 21.250823       74.01885 0.028
## 443     15.3 19.289489 12.742616       73.95377 0.015
## 444     13.6 17.457553  6.050420       76.34780 0.020
## 445     15.8 24.183211  7.453416       74.40176 0.006
## 446     13.7 25.138049 11.108719       78.51115 0.016
## 447     12.3 20.890181  6.825397       77.94626 0.000
## 448     11.2 20.550847 12.695014       79.04813 0.011
## 449     11.9 17.788162 23.901696       72.99653 0.023
## 450      9.9 18.804145 11.513204       75.85973 0.000
## 451     16.3 15.937695 11.423221       73.70751 0.010
## 452     18.9 25.490830 10.416667       73.97049 0.034
## 453      8.3 22.038217 10.327314       78.85061 0.006
## 454      8.1 22.567043  7.944866       81.29482 0.009
## 455     11.7 25.223214 14.995788       78.40217 0.005
## 456     17.6 24.194757 10.223912       74.89223 0.019
## 457     15.6 16.116567  7.955614       76.01986 0.007
## 458     14.1 25.231911  6.397498       75.56363 0.007
## 459     17.1 27.627675 23.226212       73.00303 0.045
## 460     12.1 27.590361 13.722026       75.65576 0.009
## 461     15.8 15.495627 10.348906       72.94768 0.016
## 462     27.2  8.729655 13.378747       69.78682 0.049
## 463     18.8 14.252918  9.738041       74.34510 0.020
## 464     22.8  7.985461 15.669454       73.07974 0.000
## 465      8.6 34.652076  9.855518       78.37607 0.011
## 467      7.9 25.856557  9.016840       76.57931 0.014
## 468      8.5 26.216867  8.831283       80.52325 0.006
## 469     28.6 14.811798 13.260079       70.95136 0.048
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## 470     17.0 21.066309  6.574292       71.98002 0.026
## 471     10.8 18.608323 12.773581       73.53822 0.018
## 472     21.5 13.635739 20.721032       69.63848 0.017
## 473     16.5 11.365915 17.461993       72.93889 0.016
## 474     11.5 19.575875 12.918012       78.32187 0.011
## 475      3.8 68.246984  2.952953       83.78584 0.009
## 476     12.8 17.941176 14.803738       77.46610 0.009
## 477      7.8 29.287425 12.384593       77.23500 0.013
## 478     21.3 10.910911 18.385881       71.23316 0.023
## 479      9.6 22.750491 18.244085       75.64358 0.005
## 480     19.3 25.258176 16.310257       70.89402 0.000
## 481     13.3 17.573130  9.092556       75.63377 0.022
## 482     18.8 16.845988 14.296998       72.65807 0.008
## 483     11.3 23.982458  6.764105       79.40090 0.011
## 484     16.3 17.985012 17.098521       70.96166 0.013
## 485     13.5 10.006387 23.383941       71.04604 0.012
## 486     10.2 14.643150 19.425571       77.78330 0.021
## 487     16.3 21.930745 12.607450       75.82601 0.024
## 488     21.8 13.288839 18.787843       72.61021 0.025
## 489     11.7 23.852972 17.327553       75.90828 0.011
## 490      5.6 35.472651  8.162520       77.21887 0.012
## 492     13.5 22.000912  8.064375       78.83098 0.024
## 493     22.8 11.749800 11.062105       70.94038 0.016
## 494     13.3 20.278330 14.033264       74.60896 0.020
## 495     23.5 16.335181 10.944993       70.93841 0.030
## 496      9.8 36.629705  5.359600       77.74885 0.014
## 497     20.0 12.111744 17.573566       71.56080 0.000
## 498     15.1 31.494737 17.013225       75.88183 0.014
## 499     10.2 24.272324  9.356598       75.37942 0.018
## 500     20.7 12.327240 13.102583       69.85302 0.000
## 501     17.8 16.778523  9.797394       73.69785 0.017
## 502     12.8 32.905049 13.077555       77.79951 0.016
## 503     14.8 25.715649  9.218916       78.41805 0.008
## 504      9.0 26.645768  9.074210       79.07334 0.016
## 505     13.7 20.375640 11.232877       76.24690 0.018
## 506     15.4 16.706001 11.646982       74.23828 0.011
## 508     21.6 20.599195 15.469538       69.84116 0.000
## 509     17.7 17.925355 22.530541       70.23651 0.011
## 510     23.5 15.241330 18.880291       69.88166 0.017
## 511     24.6 18.952618 21.334681       72.89453 0.002
## 512     30.3  8.364904 15.553794       71.07075 0.021
## 513     13.7 24.277160 22.846503       74.00654 0.019
## 514     13.1 18.862742  6.664523       75.03775 0.027
## 515     15.4 17.275958  8.049502       72.97165 0.005
## 516      7.3 29.944142  6.986677       77.78691 0.013
## 517      9.8 24.095427 12.520813       78.24164 0.005
## 518     13.5 17.002012 10.604333       78.98657 0.003
## 519     12.5 21.876297  7.415991       75.05311 0.004
## 520     19.2 12.181208  7.394895       72.49100 0.012
## 521     18.9 15.894498 20.334096       73.17718 0.014
## 522     13.6 16.184851  7.722622       76.67019 0.032
## 523     12.2 30.957523 10.142119       73.32118 0.007
## 524     22.0 12.220925 20.476357       75.62403 0.003
## 525     13.0 18.270548  9.230540       75.19108 0.013
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## 526     12.1 22.250546  9.117014        79.84861 0.011
## 527     10.6 41.711971  6.303059        76.50685 0.017
## 529     17.0 13.683495 15.948210        71.54539 0.011
## 530     11.7 28.682516 13.652738        75.73611 0.018
## 532     12.9 25.483504 20.803566        77.54250 0.013
## 533      9.6 18.414671 10.817291        77.72381 0.012
## 534     21.4 11.293436 15.242954        73.31907 0.032
## 535     19.4 20.138424 28.511370        72.78834 0.035
## 536     14.4 18.650218  6.839740        73.99293 0.009
## 537     13.0 15.487479  8.137992        76.69535 0.005
## 538     22.5 13.384075 15.829219        74.40983 0.019
## 539     12.6 18.744920  5.778466        74.94626 0.015
## 540      7.2 49.893390  7.220049        81.66737 0.004
## 541     17.5 32.545874 11.910166        73.90781 0.011
## 542     14.1 19.008843 16.071281        73.89474 0.002
## 543     14.1 24.136200  6.499980        77.67576 0.019
## 544     17.3 24.316657 16.960051        72.27465 0.031
## 545     18.2 13.421272 20.776468        72.43205 0.026
## 546     17.2 16.319956 16.765412        72.25078 0.014
## 547     13.2 15.562745 24.546034        75.07824 0.017
## 548      9.9 25.543686 12.519188        77.64717 0.000
## 549     15.9 13.036997 16.501443        71.10850 0.023
## 550     11.9 25.372680  9.982280        74.30945 0.012
## 551     15.3 19.237209 10.838369        71.98239 0.022
## 552     26.1 12.842119 18.307595        70.86293 0.035
## 553     11.2 20.580632  9.870176        75.48756 0.001
## 555     14.5 31.002236 19.979763        77.46248 0.016
## 556     12.1 23.043131 10.989867        76.68548 0.020
## 557      6.5 50.022934  5.439209        81.10793 0.020
## 558     11.1 23.033419  8.944468        77.56256 0.009
## 559     15.1 20.405655 12.546637        75.75446 0.012
## 560     24.2 13.093585  6.735379        72.75100 0.012
## 561     13.6 27.219890  8.970793        76.07745 0.034
## 562     11.7 27.315974 12.127237        77.11614 0.016
## 563     24.8 12.104909  5.190539        73.57928 0.015
## 564     16.8  9.348442 11.573604        76.37682 0.023
## 565     13.7 15.080372  3.830699        78.21348 0.004
## 566     11.0 23.354975  9.366391        79.02027 0.013
## 567      9.5 22.098306  6.035552        80.20524 0.007
## 569      8.6 35.944363  8.855007        75.89090 0.042
## 570     27.3 11.044487 21.504910        72.23394 0.022
## 571     11.6 21.495327  5.725191        78.05354 0.009
## 572     23.3 20.381940 10.086056        72.26473 0.024
## 573     10.5 16.134859 11.922006        77.08636 0.003
## 574     18.5 19.602009 24.527969        72.32967 0.018
## 575      8.3 37.829837  8.124534        79.37063 0.014
## 576     17.5 12.697335 15.110640        73.42907 0.019
## 577     12.3 22.032358 18.110638        77.60346 0.011
## 578     14.7 27.398914 12.615385        76.32551 0.003
## 579     13.8 19.768258 16.806723        72.31111 0.010
## 580      9.2 24.141448 10.318893        82.06691 0.006
## 581     14.0 26.334907 14.680648        74.09463 0.013
## 582     24.6 10.919710 11.996347        71.88696 0.036
## 583     22.8 19.473501 17.766405        71.18344 0.031
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## 584     26.6 18.149275 20.084818       73.81457 0.014
## 585     10.5 16.017451  7.396111       74.75376 0.018
## 586     14.3 13.904821  6.664756       72.68649 0.008
## 588     31.3 12.692308  9.287958       68.70341 0.059
## 589      8.5 32.144855 13.773087       80.93867 0.005
## 590     11.4 18.043478 16.753612       79.15221 0.009
## 591     15.7 16.247906  9.488309       73.36899 0.016
## 592     13.9 13.918481  7.523911       75.07715 0.004
## 593     22.5 11.183898 18.947902       70.17897 0.029
## 594     18.0 47.976431 10.116318       80.07301 0.022
## 595     24.8 13.914203 12.740693       73.84020 0.007
## 596     17.5 15.307542  8.118971       72.52090 0.010
## 597     15.9 14.795749 16.120079       72.30453 0.019
## 600     22.3 22.563223  6.603183       76.43425 0.010
## 601     15.7 17.883044 22.324926       74.11756 0.023
## 602     46.5 10.950586  8.623584       71.28391 0.012
## 603     18.4 21.668288 27.566057       76.35084 0.006
## 604     22.8 13.566263 17.273954       73.85016 0.031
## 605     10.6 34.730278 15.435269       79.84140 0.017
## 606     10.2 19.984642  5.858154       76.13089 0.014
## 607     14.3 18.986175 11.006217       74.29109 0.017
## 608     13.7 20.696638 11.200679       78.34434 0.013
## 609     16.1 15.623511  8.150651       73.06644 0.005
## 610     23.2 15.767455 13.833515       71.32286 0.020
## 611     25.0 13.034786 11.382868       71.45859 0.030
## 612     21.2 11.993546 14.041644       72.59108 0.013
## 613     23.7 15.092725 18.203564       71.40825 0.012
## 616     10.5 25.431911 11.136999       77.54081 0.013
## 617     14.1 22.208259 12.666257       73.96137 0.007
## 618      9.8 20.011413  5.555556       76.35477 0.008
## 619      8.6 24.818122 10.375466       79.06802 0.002
## 620     10.1 22.326399  9.554140       76.95659 0.007
## 621     17.3 21.307564 11.240246       73.28712 0.048
## 622     17.9 20.580416  7.679739       74.58461 0.014
## 623     11.4 24.327021  8.775641       76.72608 0.015
## 624     21.6 17.472888 14.765432       72.46210 0.025
## 625     12.6 17.798644 19.609492       72.57660 0.020
## 626      9.5 27.277252 13.057181       79.19763 0.011
## 627     14.6 21.365639 11.165049       81.01817 0.008
## 628     32.1 15.240905 15.103825       66.99158 0.000
## 629     15.4 29.136614  8.690341       75.03121 0.034
## 630     19.7 14.470574 23.406809       72.62565 0.040
## 631     12.5 22.976057  8.860009       75.76794 0.011
## 632     10.6 19.545823 11.356932       79.07319 0.000
## 633     17.6 23.076923 12.118902       72.44724 0.021
## 634      9.5 26.559287 11.935209       76.52124 0.046
## 635     13.7 14.477783  5.984299       76.77834 0.024
## 636     28.9 11.145694 16.774112       71.06476 0.000
## 639     11.2 24.020157 14.432990       76.15766 0.003
## 640     20.8 18.712074 10.336898       71.83952 0.012
## 641     16.7 19.157895 11.919690       73.41875 0.014
## 642     15.7 15.876144  7.994138       74.42625 0.023
## 643     21.2 14.260078 14.060413       73.35932 0.044
## 644      8.0 24.905237  5.443679       79.52833 0.004
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## 646     20.0 12.479914  8.537160        68.51082 0.033
## 647      9.2 22.217884  8.320783        80.03965 0.009
## 648     13.7 24.102312  6.429652        76.24706 0.020
## 649     13.1 13.193403  8.416434        72.10927 0.009
## 650     13.6 21.778604  9.798354        76.15278 0.024
## 651     16.7 24.298813 22.138047        72.28853 0.012
## 652     11.3 24.393927 13.146727        76.88731 0.017
## 653      8.0 29.449137  8.731943        76.54613 0.009
## 654      9.3 34.371415 14.909355        80.09637 0.019
## 655     11.0 27.911932  6.433369        79.11186 0.021
## 656      9.3 26.970456 14.576241        78.34691 0.021
## 657     20.1 14.954347 20.292956        74.94135 0.008
## 658     12.3 22.057630  9.033358        77.80418 0.010
## 659     10.8 26.589862 10.284248        78.85484 0.009
## 660     20.0 13.477482 14.103995        73.49278 0.013
## 661     19.5 16.805800 13.647239        70.94219 0.015
## 662      9.0 24.882161  7.490824        76.01424 0.013
## 663     13.2 14.693674  7.140821        72.65991 0.002
## 664     21.7 29.306376 13.422666        72.98169 0.011
## 665     14.1 41.630536  8.385783        78.93317 0.025
## 666     18.0 19.126913 22.313596        73.13097 0.027
## 667     15.6 11.952862 12.443616        70.75324 0.028
## 668     19.0 15.663248  6.546275        75.07839 0.009
## 669     10.3 23.636020  9.004993        80.57332 0.012
## 670     14.7 16.041190  7.820234        76.75277 0.010
## 671      9.7 18.981201  6.335783        80.68290 0.009
## 673     11.3 18.232531  8.353936        75.83578 0.007
## 674     19.1 14.834206 11.906370        71.92738 0.035
## 675     24.5 11.172742  9.506152        72.22620 0.028
## 676     17.3 14.469353 17.559589        71.27775 0.036
## 677     11.2 21.022186 17.056705        75.51681 0.027
## 678     22.9 20.197176 38.712446        83.11004 0.008
## 679     14.5 17.828557 21.328923        71.22604 0.020
## 680     10.2 26.656234 12.517581        76.72421 0.011
## 681     12.9 18.977908  8.179897        77.55803 0.003
## 682     18.2 19.560006 13.153584        73.61273 0.012
## 683     12.8  9.995610 10.045147        75.23770 0.000
## 684     15.6 19.847081  9.740425        76.05995 0.012
## 685     16.8 15.326460  8.819497        70.20855 0.048
## 686     19.9 15.015250 16.962938        70.44516 0.049
## 687     24.2 15.102999 17.650220        70.79472 0.021
## 688     13.9 19.428282  9.750567        76.81602 0.008
## 689      9.2 26.628242  9.515766        81.87249 0.006
## 690     14.9 19.460850 22.237343        74.93250 0.018
## 691     11.0 24.209435  7.789424        76.66262 0.013
## 692     29.7 17.228035 10.502937        70.97644 0.033
## 693     15.3 18.007203 14.620267        76.78616 0.007
## 694      9.8 30.980946 13.364429        77.79119 0.014
## 695     17.9 12.561149  7.006369        71.88249 0.011
## 696     11.9 16.796875  6.451613        74.62070 0.004
## 697     12.9 20.254460  5.799929        79.51477 0.009
## 698      7.2 50.184571  6.021059        81.98850 0.015
## 700     19.4 13.340807 15.124260        71.78691 0.023
## 701     14.5 23.582329 21.687770        72.23723 0.014
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## 702     16.4 16.739659 28.450406        74.37023 0.019
## 703     16.4 11.591696 11.918275        73.10950 0.011
## 704     27.1  8.096085 21.586207        75.00645 0.009
## 705     14.3 21.255470 10.885920        73.98301 0.019
## 706     12.0 17.058005  7.318530        78.33339 0.012
## 707      7.6 35.598437  7.546627        79.68764 0.008
## 708     16.2 15.597148 12.097997        71.28939 0.015
## 709     32.0 12.385740 29.216324        78.54249 0.005
## 710     21.6  8.813647 18.047673        76.53887 0.014
## 711     26.7 15.012963 16.391920        72.28220 0.020
## 712      8.1 38.826138  8.414429        85.35795 0.005
## 713     17.1 18.582375 14.729184        74.04174 0.012
## 714     22.1 18.756833  7.870502        73.64939 0.003
## 715     18.7 18.065246 16.506815        73.21930 0.000
## 716     12.0 19.394107 13.600959        77.09329 0.016
## 717     11.3 13.653560  9.186298        72.49861 0.000
## 718     30.0 16.596571 11.165201        72.55957 0.018
## 719     18.2 18.285431 13.967522        73.82200 0.038
## 720     35.5 12.143536 17.300813        76.26454 0.010
## 721     10.8 14.998479 10.894602        77.07938 0.008
## 722     23.5 15.236037 15.073116        72.04647 0.043
## 723     10.3 19.335473  4.182995        79.55136 0.009
## 724     19.6 14.124126 11.082579        73.06549 0.038
## 725     16.8 13.802637 19.802937        74.06603 0.015
## 726     14.3 15.954033 19.894724        71.36124 0.033
## 727     13.3 25.364454  5.194521        77.54867 0.006
## 728     13.2 19.238095  7.543103        76.26621 0.000
## 729      8.7 25.775453  5.458406        80.74885 0.004
## 730     28.1 11.530364 20.199125        71.77442 0.030
## 731      8.7 22.928609 13.685194        78.90298 0.002
## 733      9.1 25.870273 17.063492        73.58249 0.014
## 735     12.5 38.640191 13.654925        79.51108 0.017
## 737     10.8 27.437388 10.148355        79.72447 0.012
## 738     17.3 11.470409 11.416361        67.83322 0.006
## 739     18.5 17.788141 17.040951        74.21926 0.008
## 740     18.3 15.963612  9.664989        72.54640 0.019
## 741     22.6 15.992687  8.094880        71.31917 0.007
## 742     16.1 19.911504 16.348247        74.92794 0.008
## 743     26.3 12.564145  8.988583        73.30794 0.010
## 744     14.6 21.170124 10.312558        73.90217 0.016
## 745      9.8 26.328650  5.297495        77.29786 0.011
## 746     11.0 22.485892 12.109220        74.49297 0.012
## 747     18.7 10.929360 19.608872        73.27372 0.020
## 748     11.3 21.560513  6.605662        78.66351 0.010
## 749     14.5 21.765530 11.328125        78.93516 0.002
## 750     19.1 17.842098 14.581991        71.86748 0.012
## 751     10.1 32.673512  7.610904        79.13344 0.037
## 753     14.3 16.998285  7.106819        71.54663 0.007
## 754     14.5 12.981414  9.275697        74.32285 0.012
## 755     10.7 19.801027  5.856735        77.82811 0.017
## 756      8.4 23.746985 10.763164        79.69750 0.009
## 757     18.8 18.523374 16.564596        72.30938 0.035
## 758     12.3 25.026949 10.597080        77.91992 0.013
## 759     15.2 24.256685 11.468078        74.26823 0.035
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## 760      9.6 17.235099  6.224689        77.97822 0.001
## 761      8.5 34.338521 20.011357        78.66810 0.008
## 762     25.0 13.100824 17.987126        69.22243 0.027
## 763     13.2 16.555052  7.278141        72.07220 0.007
## 764     13.7 45.270647 24.989399        78.82157 0.014
## 765     25.0 13.544018 15.876137        70.02118 0.000
## 766     11.2 21.415158 16.084304        73.90102 0.012
## 767     15.0 13.745767  9.012676        81.06533 0.006
## 768     17.0 13.841163 23.547094        77.60221 0.021
## 769      9.6 19.266055  5.956941        78.29058 0.009
## 770     11.7 22.999590  5.562945        77.04894 0.022
## 771     12.9 14.685315 14.825892        74.41985 0.013
## 772     25.8  6.224362  5.763747        75.76526 0.001
## 773      9.4 20.952381 11.374408        78.65571 0.014
## 774     22.6 12.176101 12.083387        71.48219 0.019
## 775      9.9 18.712622  6.069480        78.21370 0.010
## 777     12.4 21.516008 10.808356        74.39112 0.027
## 778     12.7 18.404877 13.209850        76.43985 0.017
## 779     13.1 18.888232  7.116602        75.37620 0.006
## 780     15.8 18.069279  6.791309        72.97677 0.026
## 781     11.5 16.568047 12.926018        75.20133 0.027
## 782     25.1 10.865191  7.892067        72.11777 0.005
## 783     17.5 15.721304  9.804791        72.76862 0.012
## 784     10.5 16.231973 17.582418        77.89894 0.004
## 785     19.6 60.551311  8.348304        78.69211 0.033
## 786      9.7 18.884120  7.408301        80.09199 0.000
## 787     19.5 24.170773 15.114910        73.90534 0.040
## 788     25.9 17.759973 16.560935        76.53457 0.008
## 789     15.2 14.203104  9.257707        74.18933 0.017
## 790     20.7 19.043959 11.702671        73.18954 0.019
## 791     18.4 18.075284 13.146636        74.59577 0.010
## 792     11.2 18.700413 22.906690        76.36299 0.016
## 793     10.0 39.381777 12.448133        81.00595 0.016
## 794      8.5 23.075000 19.501840        80.11034 0.030
## 795     20.2 13.688610 11.040739        73.63032 0.008
## 796      9.2 22.922984  6.212459        81.02104 0.003
## 797     11.5 29.997342  8.361667        76.47685 0.024
## 798      9.9 17.627737  6.515301        81.90044 0.002
## 799     13.5 19.639915  7.408176        76.99073 0.013
## 800     14.8 12.838516 12.659434        75.97025 0.006
## 801     21.8 23.920157  8.243810        73.55216 0.028
## 802      9.9 25.979945  8.992557        77.47039 0.018
## 803     16.3 15.523551 13.769363        74.50571 0.013
## 804      6.1 34.225760  7.740387        78.66041 0.007
## 805     13.3 21.325425 15.041280        78.08621 0.000
## 806     17.3 21.907906  6.823834        76.60982 0.012
## 807     21.0 13.105505 12.863345        71.14780 0.046
## 808     29.7 14.440783 21.113483        70.93079 0.025
## 809     24.1 10.882917 13.028147        71.83531 0.032
## 810      9.3 27.157025 20.494896        77.43369 0.014
## 811     34.5 15.444490 17.131474        68.49922 0.000
## 812     12.1 25.654624 16.214657        77.65129 0.012
## 813      9.1 22.460614  5.933667        76.89193 0.009
## 814      9.1 16.521739 12.769418        77.78903 0.007
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## 815      9.2 15.472064  9.012482        79.49923 0.004
## 816     15.1 20.194665  6.750756        75.11050 0.028
## 817     11.8 16.005874 17.558299        75.11506 0.011
## 818     19.4 10.720155  9.315665        72.15986 0.014
## 819     12.0 16.585891 17.296786        71.33497 0.024
## 820     28.6 14.173592  7.014277        73.89706 0.027
## 821     33.6  8.999729 12.214646        72.10011 0.022
## 822      8.0 35.754758 15.285111        77.28216 0.015
## 823      9.7 25.175625 18.986242        78.01835 0.006
## 824     13.3 18.593985  8.027868        76.18613 0.012
## 825     15.7 11.529460 11.156187        74.03511 0.023
## 827     19.4 13.355356  9.749000        73.57054 0.004
## 828     17.4 15.438974 11.273089        73.73222 0.026
## 829     10.8 22.217466 23.255055        79.87340 0.008
## 830     14.9 14.900947 22.027907        74.84386 0.016
## 831     12.5 16.994885 11.302817        73.48994 0.001
## 832     16.0 10.308486  8.787816        75.25023 0.004
## 833      8.3 25.227859  7.445848        78.29873 0.002
## 834     10.7 25.717117 18.136111        78.11526 0.011
## 835     13.9 23.103265 21.894916        74.86050 0.010
## 836     23.4 13.457172 12.429216        69.94184 0.050
## 838     26.0 16.329830 16.511127        65.92411 0.000
## 839     10.1 29.949796 11.482112        78.98618 0.010
## 840     17.2 23.295455 16.545455        76.97113 0.000
## 841     22.2 13.159908 17.373405        81.65182 0.004
## 842     16.4 20.094354 16.026977        70.43556 0.000
## 843     17.4 16.444240 17.555284        74.36918 0.018
## 844     11.5 29.086440 11.193563        76.39085 0.042
## 845      9.4 20.695505  6.381423        77.13093 0.007
## 847     14.9 15.717874 13.936604        72.69430 0.019
## 848      8.8 24.564376  7.654379        79.19115 0.003
## 849      8.9 22.929807 11.137394        78.15722 0.015
## 850     25.1 24.202786  9.176017        75.00029 0.017
## 851     17.6 16.607688  8.988764        74.08752 0.005
## 852     11.5 27.060653  8.436921        76.59092 0.004
## 853     14.4 15.229906  9.010433        73.46676 0.015
## 854     23.0 16.667901 14.649448        69.26516 0.042
## 855     32.8 19.411058 16.231786        67.24180 0.000
## 856     20.0 12.245674  8.384159        73.10875 0.016
## 857     16.0 21.272366 11.440766        75.76148 0.030
## 858     32.6 13.332140 12.465860        69.54259 0.026
## 859     11.1 15.885305  6.026757        77.81724 0.007
## 860     11.3 18.490231  7.067596        77.20394 0.004
## 861     17.5 13.075166 17.713114        71.21906 0.000
## 862     11.3 18.019280  8.606653        72.78760 0.014
## 863     14.6 25.196424 12.070658        76.90091 0.010
## 864     20.6 13.161263 18.012249        71.90967 0.000
## 865      7.6 31.088984 17.745487        81.12453 0.009
## 866     18.8 15.094822  9.556175        71.53339 0.031
## 867     19.2 15.794735  9.900812        74.58467 0.010
## 868     10.8 24.273241 18.274301        75.64628 0.022
## 869     31.1  7.534867  6.589595        68.09241 0.003
## 870      8.9 28.501718  9.202920        78.64929 0.010
## 871     14.2 25.459129  8.186735        74.06286 0.019
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## 872     15.9 16.304811  7.624049        75.62592 0.008
## 873     15.3 21.806969  9.258660        75.97039 0.011
## 874     10.8 15.723784  9.314185        75.38983 0.009
## 875     22.7 16.746143 11.913788        73.33707 0.030
## 876     16.0 15.326719 12.731964        73.24777 0.013
## 877     19.0 13.161376 10.258652        72.81376 0.032
## 878     10.7 59.265428  8.308373        82.88401 0.015
## 879     10.0 23.068182 10.436079        82.58196 0.005
## 880     11.4 46.078242 15.245478        82.17350 0.014
## 881     19.7 11.928476 11.356228        73.68909 0.008
## 883     15.8 31.053604 12.880997        77.36577 0.013
## 884     10.0 34.988660  8.896669        79.52757 0.013
## 885     26.0 15.514871 15.896391        70.67595 0.047
## 886     20.5 11.222350 19.216512        74.59885 0.022
## 887     17.8 16.678554 11.978558        73.06727 0.020
## 888     15.1 30.458056 16.655106        74.99234 0.025
## 889     23.1 10.409321 18.666667        75.05055 0.013
## 890     16.6 17.943026  8.782556        75.91737 0.006
## 891     19.6 14.193612  9.288243        73.39961 0.013
## 892     32.7 20.565453 13.859860        69.55667 0.011
## 893     10.0 28.870718  6.388633        79.48248 0.011
## 894     12.0 22.256191 10.000000        76.04918 0.014
## 895     11.4 22.792527 18.227937        76.81332 0.024
## 896     12.3 25.260626 15.156375        77.23911 0.006
## 897     13.4 22.451540  6.845688        73.98770 0.010
## 898     34.1 12.795462  8.889541        70.16088 0.015
## 899     14.6 14.812765  8.879707        73.38294 0.004
## 900     21.4 24.128394 16.389587        73.13555 0.042
## 902     19.2 20.583011 21.034466        72.51685 0.030
## 903     18.7 16.204135 11.807332        73.72201 0.017
## 904     10.5 26.038465  5.845120        78.14968 0.018
## 905     13.8 15.661861 10.166223        73.31211 0.011
## 906     19.7 14.751243 13.842622        70.83644 0.039
## 907     16.4 17.380026  6.958052        73.66515 0.013
## 908     18.8 15.118356 11.242374        70.92066 0.013
## 909      8.2 34.636738 12.855683        75.42556 0.014
## 910     17.6 19.072332  8.253046        74.69589 0.008
## 911     20.3 19.047619 16.186165        74.37703 0.021
## 912     20.7 10.726920 18.179443        71.79339 0.019
## 913      8.5 26.797800 13.245637        75.55195 0.013
## 914     18.3 24.260851  7.682597        77.65950 0.005
## 915     24.2 16.102660  9.005247        72.52816 0.026
## 916     10.9 28.767294 11.145002        76.36500 0.011
## 917     18.0 17.190718  9.614074        73.68164 0.037
## 918     18.4 12.178112 11.476204        71.88487 0.031
## 919     13.9 22.597740 18.280052        74.84350 0.015
## 920     13.0 19.804643 12.608175        73.69984 0.009
## 921     13.2 19.031843  6.160709        74.31464 0.023
## 922     18.5 14.479142 11.341568        73.36155 0.028
## 923     13.6 22.732769 20.444199        75.40053 0.018
## 924     19.2 14.442478 20.380884        72.50943 0.026
## 925     20.8 15.616165  9.963679        74.54498 0.007
## 926     15.3 19.652359  9.295322        79.43633 0.019
## 927     11.5 17.950386  8.506871        77.31957 0.012
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## 928     46.2 14.067684 17.096413        68.45024 0.000
## 929     26.3 21.281328 15.542909        72.43885 0.056
## 930     17.7 20.998433 26.443418        75.94252 0.023
## 931     12.3 19.400051  8.101343        76.27104 0.014
## 932     11.1 19.014085 31.574608        75.11299 0.016
## 933     15.6 21.273101 20.421670        69.27314 0.016
## 934     11.5 18.498016  6.149329        78.25802 0.013
## 935     14.7 28.086957 27.484472        75.88626 0.006
## 936     14.0 20.200334  6.772171        76.49859 0.019
## 937     17.0 19.130585 19.273219        74.90661 0.014
## 938      8.6 19.582422 11.724855        76.88798 0.020
## 939     11.1 20.930598  8.311301        73.81602 0.027
## 941     17.7 12.844925  9.950480        74.84685 0.008
## 942     20.3 16.713170 25.700935        72.79380 0.025
## 943     14.5 11.793455  6.707703        73.89987 0.009
## 944      7.0 22.104358  5.586260        76.65386 0.005
## 945     14.8 23.096197 13.728311        74.32159 0.003
## 946     14.3 16.481522  6.926043        77.11698 0.010
## 947     17.0 20.859095  9.254724        76.52542 0.007
## 948     14.5 12.256684 14.982052        77.66257 0.010
## 949      8.5 32.047768  4.867491        77.92738 0.017
## 950     12.4 16.673323 15.646466        76.55171 0.014
## 951     10.1 21.525764  4.577743        76.77074 0.014
## 952     14.1 10.686701 23.186434        74.32265 0.033
## 953     17.7 15.382932 12.976417        74.75349 0.019
## 954     11.5 25.096396  8.662530        76.89844 0.016
## 955     16.4 21.678981 12.049193        74.28571 0.016
## 956     12.3 20.013672 12.280570        71.77646 0.018
## 957     12.0 22.820695 20.209169        76.82944 0.011
## 958     19.0 12.694169 14.856656        71.39182 0.000
## 959     13.4 26.579460 13.046010        76.43945 0.001
## 960     11.6 15.157663  7.383984        76.20606 0.010
## 961      9.2 27.993255  5.107613        76.36328 0.006
## 962     10.2 13.668271 11.898688        74.38637 0.008
## 963     11.4 19.947743 24.300932        75.09446 0.027
## 964      6.9 45.528591 15.140434        84.30537 0.008
## 965     22.5 13.508436 21.675964        72.35617 0.021
## 966     11.6 15.808682 11.621094        77.16805 0.014
## 967     20.3 10.724093 10.495267        72.08541 0.028
## 968     17.6 15.118760 15.529405        73.04998 0.026
## 969     16.5 15.780619 12.533658        74.96850 0.023
## 970     14.5 14.637258  5.537576        75.62488 0.005
## 971     10.1 24.881703 16.557776        76.54889 0.018
## 972     11.3 35.069934  7.938508        75.34532 0.023
## 973     13.5 22.973778 23.783379        75.77908 0.009
## 974     14.7 21.613846 15.981316        74.80787 0.009
## 975     20.4 12.770287  9.303199        74.22844 0.007
## 976     19.8 15.432649 16.310510        73.74101 0.010
## 977     18.2 13.668751 14.679034        75.99693 0.020
## 978     15.3 22.408610 13.704541        76.30030 0.012
## 979     22.4 11.918850  8.094742        73.01765 0.000
## 980     13.6 17.874709 19.425714        72.13183 0.029
## 981     19.8 17.498718 19.599278        74.87997 0.025
## 982     13.7 18.928639  8.053691        75.99638 0.006
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## 983     14.0 20.511375  5.918134        74.83115 0.035
## 984     13.7 17.053650 22.874022        75.40961 0.016
## 985     17.7 11.144937 10.796946        74.17821 0.014
## 986     12.6 24.404762  6.716418        81.68811 0.013
## 987     11.3 22.044979 15.323409        74.49079 0.006
## 988      9.4 30.247164 11.379087        77.84085 0.018
## 989     15.6 17.355131 10.315339        76.72237 0.007
## 990     17.5 23.480164 14.115239        73.37633 0.024
## 991     23.7 14.871795  7.779255        72.63555 0.002
## 992     19.9 21.342891 18.969584        72.13464 0.019
## 993     11.4 27.652025 11.316397        78.84932 0.024
## 994     14.5 29.685623  6.402532        76.65906 0.015
## 995     19.2 20.192308 18.686002        72.48863 0.048
## 996     10.4 31.144215  7.079174        74.45279 0.022
## 997      9.3 17.560074  7.933579        77.60183 0.006
## 998     22.3 14.636664 17.055122        71.85958 0.029
## 999     10.1 22.969942  6.681034        76.78414 0.000
## 1000    17.3 31.974212 10.891712        73.09864 0.038
## 1001    10.8 18.448501  9.580463        80.00522 0.000
## 1002    23.6 16.509577  8.603458        72.84528 0.005
## 1003    14.7 16.493685 13.847532        73.80892 0.018
## 1004     7.4 29.745932  4.698707        80.75766 0.008
## 1005    20.1 15.505540  9.520149        73.50034 0.018
## 1006     9.2 22.712192  6.625060        79.60075 0.007
## 1007    17.3 16.363254 15.921899        71.93341 0.000
## 1008    16.4 15.428065  8.959128        74.03090 0.008
## 1009    11.7 20.727895 21.643736        75.04670 0.008
## 1010    14.7 18.422296  7.364661        74.90526 0.007
## 1011     8.4 31.214299  9.676386        78.78737 0.010
## 1012    18.9 14.430297 14.726444        73.75515 0.015
## 1013    22.1 11.916280 13.194984        76.12891 0.003
## 1014    17.1 18.165603 10.403998        74.09262 0.036
## 1015    14.6 16.896354 20.020165        76.08990 0.037
## 1016    11.9 24.650284 11.002261        77.27596 0.019
## 1017    11.2 18.391595  7.596940        78.09614 0.018
## 1018     9.0 33.506697 12.110540        74.71582 0.018
## 1020    17.8 14.399718  7.067271        70.59686 0.004
## 1021    10.8 26.649418  9.945873        77.24440 0.008
## 1022    15.5 21.070381 10.951334        73.98166 0.039
## 1023    20.0 15.326162 21.783200        74.03053 0.015
## 1024    19.7 18.192933  9.332677        72.77983 0.010
## 1025     9.9 21.378414  5.729423        80.18317 0.010
## 1026    20.6 30.711462 14.756507        78.63404 0.016
## 1027    16.9 15.671501  9.844949        72.11102 0.029
## 1028    20.9 23.662030 14.752739        69.46461 0.007
## 1029    12.1 22.401615  8.248034        74.83149 0.025
## 1030    11.3 19.271383  8.392464        74.49663 0.008
## 1031     8.9 42.809529 12.250379        78.50100 0.041
## 1032    14.8 21.117829 15.539789        75.92687 0.019
## 1033    21.1 11.804675  8.694244        73.44357 0.004
## 1034    20.5 14.066346 14.471159        71.67564 0.027
## 1035    18.5 15.820490 17.697624        74.31489 0.026
## 1036    16.8 12.485854 17.397216        71.75221 0.015
## 1037    13.6 24.913160  7.298836        76.97841 0.025
```

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## 1038    14.1 21.901928  6.500803        73.94294 0.009
## 1039     6.5 37.229425  6.110346        79.52564 0.014
## 1040    13.9 15.560743  7.998552        73.56336 0.011
## 1041    24.1 48.670850 16.059082        78.16476 0.039
## 1042    15.6 24.590358 11.816549        75.49063 0.021
## 1043    12.3 21.496079  9.738760        76.44297 0.013
## 1044    14.1 17.352917  7.256469        74.56333 0.002
## 1045    14.7 21.619451 19.940476        74.94264 0.025
## 1046    15.5 26.855490 11.191359        74.25833 0.032
## 1047    13.0 36.932624  8.209096        79.39364 0.012
## 1048     8.7 24.937238 20.423569        77.18639 0.012
## 1049    17.8 10.897995 22.172919        72.11387 0.029
## 1050    11.9 14.030625  9.071618        75.63372 0.001
## 1051    12.4 20.331309  5.999298        78.61845 0.005
## 1052    11.0 19.698173  8.524408        76.33320 0.021
## 1053    29.2 13.189389  8.659397        69.40340 0.003
## 1054    23.4 15.696479 23.415094        72.50875 0.025
## 1055    11.7 17.500772  6.057925        77.23682 0.019
## 1056    12.1 11.625250 19.280899        77.38018 0.004
## 1057    20.9 15.688266 13.486171        73.22920 0.020
## 1058     8.8 23.322026  6.119978        78.65860 0.002
## 1059    11.8 20.459804  9.072889        75.19489 0.014
## 1060    21.5 13.745225 11.971461        72.20132 0.007
## 1061    22.9 17.128241  6.748030        74.67290 0.025
## 1062    10.7 17.612302  8.174366        73.81190 0.012
## 1063    19.3 20.585726 13.758788        75.05803 0.027
## 1064    16.3 19.964227 15.785009        71.24697 0.019
## 1065    13.5 21.501489  5.989056        75.59263 0.014
## 1066    14.4 13.841722  9.210638        72.90113 0.042
## 1067     6.9 31.621231  6.210762        79.58139 0.005
## 1068    27.7 18.833128 14.242588        71.84531 0.039
## 1069    19.3 14.471684 11.070438        73.05395 0.015
## 1070    15.4 12.597432  9.204200        71.94885 0.005
## 1071     9.2 18.879099  9.351864        77.75127 0.013
## 1072    14.3 19.832143 12.150450        75.56726 0.019
## 1073    18.5 11.975925 22.262957        72.36872 0.017
## 1074    17.6  6.871415 22.706722        74.65709 0.028
## 1075    11.3 26.424799  8.506964        80.74293 0.008
## 1076    13.0 20.719039  7.971409        79.13477 0.007
## 1077    10.0 22.056132 12.332016        76.77972 0.016
## 1078    20.1 11.623846  8.785546        71.90529 0.013
## 1079    31.0 12.476299 11.249549        71.66524 0.025
## 1080     8.5 21.969407  5.901947        77.52781 0.012
## 1081     9.4 45.424692 10.185185        81.83768 0.016
## 1082    18.9  7.899217 20.790528        74.64858 0.010
## 1083    13.9 17.488570 19.070375        74.35461 0.018
## 1084    15.2 14.212670 12.200529        78.24147 0.000
## 1085    10.3 33.221688 12.212275        77.79173 0.013
## 1086    16.0 15.903942 16.864704        75.73825 0.016
## 1087    23.9 16.197561 10.925902        72.35825 0.008
## 1088     8.9 30.773196  6.147484        81.24983 0.015
## 1089    14.4 18.701898  6.500803        77.07975 0.019
## 1090    10.6 24.269294 10.575007        75.87262 0.022
## 1091    22.4 10.964530 16.403670        73.57131 0.027
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## 1092    14.5 23.999719 23.048842       74.37846 0.013
## 1093    13.1 12.557512  9.092842       72.42483 0.002
## 1094    13.2 13.154441  8.890044       76.24063 0.001
## 1095    10.5 22.957141  8.010096       78.59703 0.005
## 1096    10.8 16.760061  9.443495       75.44982 0.015
## 1097    32.2 11.585366 15.871014       70.01684 0.000
## 1098    17.7 10.713473  7.915058       73.55823 0.004
## 1099     9.3 20.956256 11.063638       76.90594 0.010
## 1100     6.4 63.969545  8.022566       92.72493 0.027
## 1101    17.4 18.858256 10.965297       71.81045 0.019
## 1102    11.6 30.399752 29.734717       78.06742 0.004
## 1103    14.4 24.610592 17.172763       76.52812 0.015
## 1104    13.3 52.030683 10.804018       80.01630 0.002
## 1105    12.2 20.483092 12.468274       79.46432 0.017
## 1106    11.4 22.225459  6.668396       76.18949 0.005
## 1107    17.0 30.007138 17.998996       76.84022 0.027
## 1108     9.9 22.736555 12.984878       75.45086 0.017
## 1109    23.8 12.859805 17.431074       72.79365 0.030
## 1110    20.9 25.397311  8.819492       77.43218 0.008
## 1111     8.8 19.086022  6.252681       78.47853 0.006
## 1112    13.7 16.301633  7.679786       76.68917 0.012
## 1113     9.6 22.861921  9.972649       77.49588 0.004
## 1114    33.5 19.028226 12.026601       71.33240 0.015
## 1116    21.8 15.523798 20.503792       74.11583 0.021
## 1117    18.8 14.871950 18.985177       73.34214 0.013
## 1118    14.9 21.806167 10.174301       74.81534 0.022
## 1119    14.5 21.559726 15.994437       75.46255 0.011
## 1120    24.4 11.688242 12.950702       67.93176 0.070
## 1121    13.0 14.200000 28.169226       73.65272 0.017
## 1122    12.6 30.180807 13.874092       77.91501 0.021
## 1123    14.9 24.487355 15.412152       73.93521 0.018
## 1124    10.4 19.373550 12.801315       76.83255 0.014
## 1125    10.7 19.052023  6.845809       78.70892 0.003
## 1126    16.1 19.340534  6.095605       76.12249 0.032
## 1127    12.9 16.232586 13.378477       73.94500 0.017
## 1128    13.4  8.054943 32.454812       74.86877 0.012
## 1129    13.0 18.724934  6.045466       75.18156 0.020
## 1130    24.3 17.847453 11.707655       73.45969 0.022
## 1131    15.9 22.996441 14.310697       76.63647 0.007
## 1132    20.1 13.743066 11.983828       69.33811 0.039
## 1133    14.6 24.206506 15.579710       74.46060 0.029
## 1134    10.7 24.264778  5.248423       76.41061 0.035
## 1135    13.6 23.464861 11.613594       77.74914 0.032
## 1136    19.3 18.059750 13.449454       72.82616 0.037
## 1137    22.9 13.100744 16.680541       74.31158 0.008
## 1138    23.5 11.774400  9.330299       70.74086 0.020
## 1139    11.7 15.157536  8.683068       80.77246 0.012
## 1140    10.7 33.247675 14.145915       76.38503 0.022
## 1141    18.1 16.369076  8.164740       73.54673 0.005
## 1142    16.9 18.676515 21.412910       73.99517 0.027
## 1143    16.8 21.441295 13.752876       76.32868 0.010
## 1144    16.5 21.440075  7.716160       73.82602 0.030
## 1145    29.8 11.399276 17.771639       66.05882 0.002
## 1146    15.4 28.810860  9.383440       77.04832 0.012
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## 1147     5.8 48.090784  9.350211        79.58965 0.013
## 1148    12.4 27.645137 10.154827        76.23949 0.031
## 1149    13.9 18.986550 11.963470        79.03816 0.009
## 1150    35.9  9.134454  8.023483        70.79459 0.005
## 1151     9.9 21.631035  5.850627        77.88356 0.010
## 1152    14.5 20.947902 15.591948        74.28014 0.000
## 1153    12.8 22.525633  7.234618        78.66072 0.023
## 1154    10.3 28.162193  5.187081        78.46954 0.020
## 1155    20.6 17.746697 17.348116        72.51198 0.009
## 1156     7.6 24.248169  4.621975        78.13196 0.007
## 1157    15.2 20.119760 11.506439        72.29776 0.025
## 1158    15.7 18.804075  8.555999        74.79551 0.034
## 1159    10.5 24.812279  9.854830        78.53103 0.005
## 1160    20.6 23.331510  9.646423        73.45652 0.032
## 1161    22.3 15.804207  7.540619        72.45308 0.007
## 1162    19.6 11.388217 15.551948        71.00508 0.000
## 1163    21.9 11.205922 15.134144        72.69378 0.024
## 1164    15.1 17.556902 14.488014        75.40503 0.032
## 1165     9.7 34.342275  6.741403        77.59562 0.010
## 1166    16.8 14.042640 16.367552        73.73100 0.000
## 1167     9.8 21.147715  5.612852        75.67085 0.014
## 1168    16.4 13.943169  9.417889        75.98024 0.012
## 1169    10.0 21.185828  6.271965        78.35568 0.004
## 1170    11.0 24.425887  8.606274        78.03816 0.029
## 1171    14.7 16.419233 13.741317        71.59743 0.022
## 1172    30.2 19.933347 14.883102        72.20696 0.000
## 1173    16.5 14.914614  7.232378        73.92961 0.005
## 1174     7.3 52.466386 12.174046        93.00185 0.025
## 1175    13.8 31.470308 11.752913        75.83301 0.010
## 1176    15.7 30.441817 18.037095        75.42394 0.036
## 1177    10.8 21.004970 11.258156        74.57718 0.023
## 1178    13.5 24.245636 21.056139        75.38913 0.016
## 1179    15.0 21.672295 13.300343        75.43061 0.029
## 1180    17.7 14.893617  9.439036        74.11506 0.027
## 1181    14.0 15.855314 20.893420        76.54634 0.016
## 1182    20.2 24.077047 12.638836        72.42888 0.005
## 1183    13.5 28.931910  5.915453        78.12024 0.011
## 1184    16.2  8.863763  7.163547        70.75232 0.009
## 1185    11.0 16.239983 10.611967        74.35719 0.007
## 1186    14.5 20.478786 16.612903        74.56917 0.007
## 1187    15.5 17.956041 15.046372        76.17738 0.025
## 1188    10.6 13.674626  7.872032        73.73957 0.000
## 1189     8.4 30.129753  8.271228        79.27611 0.012
## 1190    17.3 15.399526 25.351044        72.76121 0.051
## 1191    12.5 20.901812 19.094286        77.65354 0.012
## 1192    16.8 19.030391 10.218607        76.45198 0.023
## 1193     9.0 33.724840  6.858328        76.97432 0.017
## 1194    16.4 17.459523  7.852054        71.47324 0.009
## 1195    16.5 14.317901 14.230114        74.07157 0.022
## 1196    10.0 26.178701 10.618242        78.42635 0.008
## 1197    13.4 17.840571 21.682337        71.27696 0.021
## 1198    13.4 12.686234  8.520097        74.19457 0.008
## 1199    15.6 15.945039 12.984079        72.71163 0.029
## 1200     8.8 18.568425  6.472492        80.49920 0.007
```

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## 1201     9.4 23.862688  6.051224        79.03453 0.019
## 1202    15.2 13.242165  9.380743        75.98380 0.016
## 1203    12.3 17.360999 14.274902        76.25740 0.012
## 1204    12.7 25.532255  9.387633        76.19497 0.023
## 1205    12.3 18.436109 13.499177        76.19199 0.019
## 1206    16.6 15.548981  9.538627        72.29694 0.032
## 1207     9.7 26.769805 12.252199        76.95907 0.016
## 1208     8.2 32.051576 10.220809        79.98181 0.017
## 1209     9.3 18.357278  5.423438        77.71188 0.010
## 1210    19.1 15.242782  7.807976        71.24588 0.005
## 1211    10.5 18.556220 13.465259        73.47941 0.015
## 1212    23.5 18.842960 16.819352        75.38839 0.020
## 1213    12.6 16.272703  8.186608        76.57562 0.014
## 1214    21.7 14.134061 24.489300        70.71005 0.006
## 1215     9.8 21.218771  8.891633        76.91751 0.014
## 1216    15.2 16.112745  8.443202        74.47782 0.020
## 1217    22.1 17.317046  6.262645        69.03253 0.010
## 1218    19.3 14.285714  9.333333        68.66971 0.000
## 1219    11.5 26.032714  7.974621        76.35824 0.023
## 1220     8.9 30.439251 13.419408        77.96171 0.017
## 1221    14.0 22.947126  8.488442        75.82912 0.014
## 1222    23.6 14.337521 20.275639        69.88351 0.011
## 1223    16.6 14.595616 11.823507        74.82270 0.044
## 1224    20.1 23.004039  8.970758        75.79924 0.024
## 1225    20.3 13.200877 14.057303        72.14122 0.039
## 1226    17.5 15.621348 11.051789        72.50992 0.014
## 1227    18.3 18.579725 12.987173        72.15932 0.035
## 1228    23.8 36.743670 12.307888        78.63180 0.024
## 1229    11.3 23.304530 13.516746        80.51382 0.005
## 1230    27.4 18.562479 15.030395        72.46176 0.016
## 1231    12.2 18.655541 15.154546        75.65020 0.017
## 1232    15.4 22.439024  9.851088        79.41297 0.006
## 1233    17.6 19.975096 22.945825        75.02629 0.022
## 1234     8.3 26.744186  8.243626        78.10496 0.018
## 1235    10.0 15.777663  6.707125        77.20085 0.016
## 1236    10.4 24.506154 13.181039        73.57034 0.020
## 1237    14.5 19.449929 10.476025        78.30014 0.020
## 1238    19.0 18.312937 14.629064        71.13325 0.015
## 1239    20.6 14.191829  7.475721        71.05532 0.006
## 1240    17.4 15.227414 19.727665        72.16779 0.016
## 1241    16.0 17.384927 13.307622        72.44613 0.021
## 1242    12.4 29.364352  7.355221        83.70664 0.001
## 1243    15.4 16.381564 17.136262        70.81523 0.005
## 1244    11.1 34.087322 12.368203        79.78359 0.023
## 1245    15.3 26.298524  8.766141        77.97013 0.034
## 1246    12.8 26.898190 11.477227        76.17598 0.016
## 1247    19.3 10.965209 27.467432        71.88920 0.023
## 1248    11.0 23.507506  6.246800        78.11530 0.009
## 1249    20.4 13.720785 21.645842        73.27692 0.047
## 1250    22.7  9.857213  7.950530        70.60916 0.003
## 1251    11.4 25.114218  5.835744        79.67169 0.004
## 1252    18.0 13.732842 26.728134        72.20776 0.021
## 1253    21.1 13.919474 17.225806        73.86309 0.013
## 1254    10.4 22.516751  9.021480        77.33462 0.011
```

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## 1255     8.0 27.181299  7.761548        79.17593 0.022
## 1256    15.6 19.306532 16.889969        73.09548 0.026
## 1257    18.8 17.201920 13.859661        72.68694 0.020
## 1258    14.5 19.277012 12.831890        72.83780 0.026
## 1259    28.6  7.393428  8.368441        65.84540 0.003
## 1260    15.0 27.201212  9.204418        74.68708 0.016
## 1261    14.4 20.282553  7.969152        74.92486 0.022
## 1262    12.1 18.953674  7.083293        78.16165 0.022
## 1263    13.5 24.562274 16.539027        76.48559 0.023
## 1264    11.4 15.231819 12.972811        76.59173 0.005
## 1265     6.6 48.254717 15.717240        81.83256 0.006
## 1266    12.5 17.193694  7.965325        74.17892 0.011
## 1267    14.2 15.204468 15.385956        72.94744 0.016
## 1268    22.4 21.432116 20.060368        77.13500 0.016
## 1269    10.8 22.238042  5.809517        73.23533 0.036
## 1270    13.0 20.028550 22.610398        74.64369 0.011
## 1271     7.0 32.146938  7.957569        77.78912 0.019
## 1272    32.7 12.335882 11.721012        68.86042 0.027
## 1273    17.6 12.436086 13.834788        71.30007 0.021
## 1274     9.8 16.460083  8.800187        77.71179 0.010
## 1275    14.4 16.927960 12.590351        71.56285 0.013
## 1276     7.9 32.905611  6.851642        80.10737 0.016
## 1277    11.0 18.784701  9.012619        75.74595 0.001
## 1278    10.6 20.076408  7.271975        74.46280 0.000
## 1279    13.7 14.175957 13.834337        73.29923 0.024
## 1280     8.1 22.796012 13.068274        75.98221 0.027
## 1281    16.6 12.553257 19.526674        71.95530 0.027
## 1282     9.3 23.021789  8.290296        77.77325 0.012
## 1283    12.4 15.406470 12.870188        74.59311 0.021
## 1284    14.4 21.039333  5.029480        74.52017 0.037
## 1285    18.4 21.036744  8.929438        75.95570 0.017
## 1286    13.7 21.998426 13.869614        79.13092 0.010
## 1287    23.6 13.764813 11.903452        73.18989 0.037
## 1288    15.0 14.670659 13.192441        71.69567 0.027
## 1289    17.5 18.120675 14.333094        71.83715 0.018
## 1290    14.4 17.142505 14.670862        70.90380 0.000
## 1291    17.1 20.003098 18.547427        72.39975 0.040
## 1292    25.8 12.556180  7.424042        68.59036 0.044
## 1293    16.3 18.274035 16.955446        73.37416 0.004
## 1294    13.7 15.194012 10.018458        73.75338 0.001
## 1295    30.4 13.280463 26.305609        75.74849 0.000
## 1296    14.2 15.446176  7.603037        74.10493 0.011
## 1297    13.3 19.302612 12.507292        74.42853 0.033
## 1298    15.4 15.887247 20.908138        74.74834 0.013
## 1299    11.6 23.420249 21.943154        77.38454 0.015
## 1300    11.5 18.701202  7.887877        77.65060 0.017
## 1301    19.0 15.120955 19.834621        69.95683 0.028
## 1302    13.0 23.003330 14.956916        74.97180 0.037
## 1303    10.7 20.991447 11.982421        73.70371 0.014
## 1304    16.3 17.867042 15.982912        72.28073 0.044
## 1305    15.8 18.211951 12.254861        72.03379 0.013
## 1306    21.1 12.082409 17.386886        71.86807 0.008
## 1307    15.0 17.757103 14.884602        74.52466 0.024
## 1308    16.3 17.425031 15.371417        72.33054 0.035
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## 1309     8.7 23.849982  5.624927        78.66145 0.006
## 1310     8.3 27.308712 15.076433        75.45134 0.016
## 1311    11.0 28.154107  7.676550        81.62745 0.006
## 1312    12.8 21.586819  7.738883        76.75300 0.013
## 1313    18.1 13.407298 20.227100        70.77609 0.017
## 1314    25.5 11.464715 12.677634        72.37702 0.032
## 1315    13.2  9.788742 12.224843        77.53531 0.026
## 1316    12.9 27.214469  6.025535        75.75550 0.020
## 1317    10.8 21.369689  6.243352        74.64615 0.002
## 1318    20.8 15.763636 15.996632        73.73860 0.001
## 1319    24.2 11.759794 12.928988        70.29563 0.037
## 1320    12.3 30.524944  9.444124        76.67052 0.013
## 1321    20.1 15.065502 14.936461        70.72288 0.036
## 1322     7.4 29.577902  5.873656        80.20734 0.011
## 1323    13.3 16.909245 14.715983        73.05759 0.024
## 1324    20.1 12.996519 13.186637        70.94901 0.000
## 1325     8.2 31.489549 11.546033        76.24979 0.027
## 1326    18.3 14.597285  6.922928        74.93352 0.008
## 1327     7.9 31.754658 12.712901        77.59295 0.024
## 1328    10.4 25.846624  6.497663        76.63228 0.023
## 1329    15.7 20.320042  7.248511        74.00462 0.022
## 1330    19.4 10.000894 10.137893        67.43611 0.006
## 1331    15.7 17.832939  9.310461        73.97537 0.010
## 1332    26.7 10.427514  6.848647        68.84593 0.002
## 1333    14.0 18.240895  7.032021        75.37161 0.019
## 1334    18.3 14.037335 10.513581        72.05423 0.015
## 1335     9.0 25.716341  6.173640        75.02648 0.008
## 1336    13.9 20.130659  6.497521        73.13616 0.016
## 1337     7.8 35.356424 12.583370        83.01812 0.019
## 1338    14.1 22.103100  8.287569        74.83124 0.029
## 1339    16.2 25.927911 18.449866        75.33293 0.030
## 1340    12.5 37.160708  8.724284        78.72935 0.031
## 1341     9.9 24.267673  6.421678        79.42033 0.003
## 1342    17.8 31.107354 14.487430        74.32183 0.025
## 1343    29.2 10.993615  9.838541        73.99043 0.007
## 1344    16.2 11.806245 12.833420        73.17293 0.019
## 1345    14.6 16.606939 13.151686        76.45500 0.012
## 1346    48.1 10.733016  6.675921        71.59740 0.006
## 1347    11.7 17.947814 12.485743        73.64630 0.015
## 1348    19.4 21.975280  6.167423        72.60802 0.023
## 1349    14.9 24.327457  8.521884        77.37644 0.035
## 1350    11.4 27.896544 11.605047        74.22715 0.018
## 1351    14.6 12.727001  6.526329        73.44920 0.011
## 1352    14.9 17.088949 17.038189        73.83914 0.000
## 1353    25.6 11.391958 23.553469        73.75334 0.021
## 1354    21.4 20.326659 15.117623        72.22369 0.000
## 1355    13.7 23.923068 12.566318        75.08283 0.019
## 1356    21.4 14.536875 19.770710        71.97595 0.020
## 1357    11.2 26.716349 10.458101        75.06858 0.030
## 1358    15.0 15.802469  7.581986        75.17529 0.011
## 1359     9.3 25.276197  6.170989        79.00978 0.011
## 1360    14.2 24.882767 10.114817        75.12294 0.020
## 1361    12.7 17.121355  6.267224        76.22654 0.013
## 1362    18.2 35.048461 13.730002        75.81699 0.032
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## 1363    19.3 21.346308 15.119205        74.73192 0.031
## 1364    11.1 25.296151 10.103259        75.45161 0.024
## 1365    13.0 18.269896 12.314356        80.78549 0.007
## 1366    31.2 11.919075 14.750597        71.36176 0.000
## 1367     9.7 22.730652 11.595788        76.38113 0.021
## 1368    10.0 32.017307 13.882922        78.60016 0.000
## 1369     7.9 51.753203  3.349394        80.62998 0.010
## 1370    10.4 26.859833 15.442126        77.44308 0.021
## 1371    13.0 22.920119 11.123071        75.19591 0.006
## 1372    16.7 55.509822 13.137841        79.35962 0.016
## 1373     8.5 28.606906 19.159137        78.13711 0.026
## 1374    25.3 13.506898  9.126944        68.64556 0.025
## 1375    20.3 18.710168 10.021719        74.26159 0.021
## 1376    13.9 18.312228 12.188825        76.92077 0.016
## 1377    16.6 25.285037 18.492709        74.79030 0.013
## 1378     9.9 28.695180 21.662179        77.42872 0.017
## 1379    13.9 20.022989  9.219512        74.22114 0.018
## 1380     9.4 24.957303 10.461718        78.20265 0.035
## 1381     9.4 24.205801 11.852861        83.86630 0.001
## 1382    14.9 19.490429 18.620810        74.00675 0.032
## 1383    12.9 35.623159 12.927399        77.87133 0.033
## 1384    13.8 18.809692  5.519762        78.03318 0.021
## 1385    12.4 25.721058  8.373162        77.06201 0.016
## 1386     9.1 34.333852 13.296000        80.49066 0.006
## 1387    13.1 20.155859  7.078729        78.17748 0.006
## 1388    11.2 22.876323  7.045098        77.86767 0.008
## 1389    27.2 12.842060 13.462494        70.81213 0.043
## 1390     9.3 23.396683  5.018428        78.59174 0.012
## 1391     9.6 27.879709  7.230235        77.50784 0.021
## 1392    14.8 20.978101  9.312575        77.13222 0.032
## 1393    16.8 18.716636  7.556602        73.49945 0.027
## 1394    13.7 27.714374 13.265385        77.69690 0.026
## 1395    14.0 14.355594 13.577884        72.82122 0.025
## 1396     9.9 21.370372  9.530379        76.87931 0.013
## 1397    11.1 19.855222  7.596607        76.92016 0.009
## 1398    13.5 12.045599 31.057221        75.34392 0.018
## 1399    20.7 15.340021 10.373905        70.32178 0.045
## 1400     8.8 21.936423  8.209313        79.06925 0.003
## 1401    27.6 16.059244 14.519995        65.44483 0.048
## 1402    12.7 21.139971 10.151007        81.71770 0.000
## 1403    13.0 29.103194 15.775516        75.42944 0.028
## 1404     7.5 54.860139  9.680895        79.94588 0.014
## 1405    18.1 24.387765 20.965269        72.86660 0.023
## 1406    21.8 13.694101  7.352264        70.81361 0.006
## 1407    30.3 16.522634  6.871908        67.46942 0.003
## 1408    11.9 23.827209 10.230223        63.61523 0.023
## 1409    14.2 15.221890  9.992446        74.56466 0.017
## 1410    22.9 14.564243 16.376307        71.85908 0.015
## 1411    10.6 32.337561 12.710786        76.66463 0.015
## 1412    12.7 23.878009 18.354714        74.10493 0.012
## 1413    11.6 31.044697  8.125663        77.21679 0.016
## 1414    15.0  9.518322  9.668928        72.44076 0.010
## 1415     9.5 28.043626 15.333515        76.48687 0.020
## 1416    17.0 21.515152 12.045455        77.20797 0.019
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## 1417     8.3 36.614517  8.230119        77.29312 0.025
## 1418    26.5 13.129076 11.498754        69.45270 0.020
## 1419    12.7 22.530730  5.518573        77.74569 0.016
## 1420    10.7 30.457045  6.779449        79.99710 0.025
## 1421    13.8 16.331123  6.466860        75.27925 0.014
## 1422    11.3 16.654738  7.806456        80.24404 0.013
## 1423     6.2 61.219716 16.286281        85.95006 0.010
## 1424    13.5 14.521527 16.113324        75.64301 0.001
## 1425    11.6 22.366262 16.479449        69.80482 0.013
## 1426     7.3 18.579686 11.097131        78.61478 0.007
## 1427    12.7 25.968523 16.529449        78.99966 0.003
## 1428    14.0 14.767463 15.918238        72.92180 0.005
## 1429    20.7 18.209026 14.704241        73.93264 0.021
## 1430    15.6 39.546585 10.063459        79.76472 0.027
## 1431    12.7 20.462914  6.013072        77.46738 0.025
## 1432    11.6 19.976985 10.275424        75.84462 0.023
## 1433    15.7 15.401512 26.830107        74.95304 0.028
## 1434    25.4 13.777558 12.920709        69.00825 0.065
## 1435    13.6 23.057928  7.878975        75.30535 0.022
## 1436    28.8 20.735786 11.717345        72.04865 0.038
## 1437    15.3 19.327146 13.245770        73.32363 0.027
## 1438     8.5 32.676394  9.508849        75.85740 0.014
## 1439    25.2 20.999433 12.225021        72.83748 0.047
## 1440    14.7 12.762530 15.229837        71.85102 0.021
## 1441     6.1 39.676384  8.185204        79.47916 0.010
## 1442    18.9 15.270576 13.468248        71.17796 0.017
## 1443     8.8 19.487083  7.927692        76.23066 0.008
## 1444    21.5 11.298758 11.875374        71.90605 0.027
## 1445    11.8 29.162156  8.307751        75.86561 0.010
## 1446    18.2 12.051156 16.755731        71.66926 0.016
## 1447    10.2 24.674942  8.562550        78.12134 0.014
## 1448     8.7 18.082598  8.711172        75.97417 0.000
## 1449    11.4 24.034707 12.110022        76.63102 0.026
## 1450    10.2 22.155862  5.670765        78.31793 0.006
## 1451    10.3 20.747937  5.564924        80.50395 0.014
## 1452     9.7 15.524017 10.168327        77.57893 0.006
## 1453    10.1 20.332241  9.213052        77.70551 0.013
## 1454    22.1 11.289613  7.892970        70.92359 0.002
## 1455    13.7 38.092223  5.599281        79.49700 0.013
## 1456    11.7 22.714202  5.867501        76.81922 0.021
## 1457    10.9 21.422412  9.315881        79.73272 0.015
## 1458    13.0 15.113133  6.817755        73.22469 0.009
## 1459    24.9 15.519901  7.721088        73.28428 0.021
## 1460     9.4 20.924223  5.754171        79.49138 0.014
## 1461    12.2 19.576380 17.582418        75.38307 0.000
## 1462    16.9 12.709832 26.081731        80.61502 0.013
## 1463    15.9 19.516814 20.788071        75.15124 0.020
## 1464    19.3 17.299459 18.433083        70.75749 0.032
## 1465    18.1 15.189544 15.142187        74.33112 0.024
## 1466     8.7 23.879913  5.763466        79.78036 0.011
## 1467    22.0 40.105110 17.652619        76.51325 0.033
## 1468    19.7 11.861096  9.642936        75.10467 0.016
## 1470    21.2 25.012000  9.035552        64.92228 0.042
## 1471    12.6 32.334063 10.372548        75.73395 0.052
```

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## 1472    16.7 17.867795 14.278164        71.94081 0.032
## 1473     7.9 32.310117  5.466411        80.66541 0.012
## 1474    10.5 17.359673  8.438020        78.21783 0.013
## 1475    20.5 15.472375 18.415277        74.81440 0.017
## 1476     7.4 25.392735  5.505756        79.54493 0.010
## 1477    23.7 30.801141 18.012032        75.79244 0.024
## 1478    25.5 45.759301 14.103622        75.52345 0.025
## 1479    12.4 26.057347 10.676183        75.04156 0.024
## 1480    11.0 18.673647 13.614801        76.43460 0.002
## 1481    12.9 18.159680  7.323603        77.74281 0.014
## 1482     9.1 18.873016  6.783086        80.96480 0.006
## 1483    10.3 26.461360  4.899731        78.73385 0.010
## 1484    11.0 19.512567 17.574803        76.03156 0.011
## 1485    14.3 23.836023  5.218693        76.35281 0.048
## 1486    15.8 27.707829  9.207088        74.80816 0.052
## 1487    10.6 15.110259 19.782647        76.49194 0.019
## 1488    23.0 16.773676 12.442882        70.21424 0.017
## 1489    12.6 20.888117 20.738856        75.05589 0.004
## 1490    14.7 27.371012  6.047124        75.14264 0.013
## 1491    14.8 10.733229  9.699292        75.89266 0.006
## 1492    15.9 13.572379 13.199918        71.79093 0.025
## 1493    15.2 22.260730 22.585378        74.13015 0.012
## 1494    17.4 13.506059  7.578659        72.14148 0.006
## 1495    15.9 21.873380 15.517241        75.89207 0.013
## 1496    16.9 15.784428  8.904470        72.98199 0.021
## 1497    11.0 43.259899  7.639958        80.26680 0.016
## 1498    13.4 13.625636  7.862983        73.65169 0.022
## 1499    16.5 11.820968 27.850765        74.37576 0.028
## 1500    19.1 11.924943 11.787424        69.34975 0.032
## 1501    14.6 20.823457  6.545860        72.60889 0.025
## 1502     7.6 33.708563 12.375647        78.64360 0.018
## 1503    17.1 17.265984 10.945176        74.81583 0.037
## 1504    15.2 18.813209  6.562467        77.20391 0.008
## 1505    17.8 14.630014  7.032395        72.24821 0.010
## 1506    20.8 11.781428 10.313489        72.68802 0.015
## 1507    10.0 18.189113 10.682832        79.19601 0.012
## 1508    12.3 22.092501  7.185225        75.37827 0.018
## 1509    23.0 14.874667 13.209385        73.59170 0.024
## 1510    13.0 13.820311  9.904446        73.82090 0.000
## 1511    10.5 40.913145 11.717203        77.78948 0.012
## 1512    28.9  9.551349 20.434950        71.27486 0.021
## 1513    17.8 14.995331  9.890563        71.98468 0.016
## 1514    14.4 12.662132 20.397323        77.46414 0.018
## 1515    21.0 16.707250 16.776357        72.79582 0.000
## 1516    16.1 16.440875  8.416486        71.78100 0.000
## 1517    18.6 47.664690 12.586921        79.74704 0.016
## 1518    10.3 32.410378  7.379013        76.27576 0.027
## 1519    15.5 14.929369 14.788694        71.70168 0.015
## 1520    21.7  8.393804  8.393705        69.78781 0.021
## 1521    16.2 28.775381 13.589503        76.89092 0.029
## 1522    12.1 14.152784 10.558140        78.54148 0.011
## 1523    12.5 15.335581 13.040137        74.44234 0.016
## 1524    10.2 29.967497 11.474511        76.96749 0.034
## 1525    20.5 16.344846 17.234557        66.93497 0.012
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## 1526    21.2 13.417522 24.728188        73.80171 0.023
## 1527    11.6 14.817066 11.219645        77.30058 0.005
## 1528     8.6 24.986557  8.040435        81.14707 0.003
## 1529     9.0 20.489239  5.626016        77.09047 0.011
## 1530    19.3 15.911693 16.314483        69.50721 0.000
## 1531    11.2 18.602403  6.477190        77.90685 0.007
## 1532    11.1 22.446191 12.102689        82.31510 0.013
## 1533    13.5 19.036998 11.882793        76.30610 0.012
## 1534     4.3 38.844594  7.221477        80.96711 0.000
## 1535    13.5 18.269796 11.171991        75.16925 0.029
## 1536    16.2 13.707446 12.807525        73.18979 0.019
## 1537    19.7 15.149226 13.482863        72.43311 0.025
## 1538    15.5 11.807453 12.902749        71.43557 0.025
## 1539     9.9 19.431522  6.185046        76.72588 0.018
## 1540    10.7 20.529692  5.342950        76.53816 0.010
## 1541     7.9 31.523604  3.893263        82.35459 0.006
## 1542    17.3 20.057759 14.856080        71.94520 0.033
## 1543    13.6 16.128204 14.245822        72.71720 0.030
## 1544    15.2 20.684160 13.980485        73.37504 0.029
## 1545    13.9 29.732408 17.607473        72.30993 0.025
## 1546     8.8 37.109573  7.130852        80.95008 0.007
## 1547    13.8 19.426168  7.373354        75.04647 0.039
## 1548    16.3 22.214010 23.194879        72.38684 0.019
## 1549     9.7 22.938487 17.076864        74.19421 0.034
## 1550    12.9 17.651946 21.739844        73.76936 0.026
## 1551    15.7 59.249927  4.927658        80.93186 0.025
## 1552    14.8 16.567861  7.678651        74.16255 0.017
## 1553     9.6 17.205766 12.651672        74.91996 0.012
## 1554     9.5 44.776238 14.131341        81.28036 0.022
## 1555     7.1 21.474686 11.339958        79.47017 0.009
## 1556    10.2 22.092428  7.198825        81.40957 0.004
## 1557    10.0 35.335498 23.785751        79.80283 0.010
## 1558    11.0 19.438468  7.242082        75.10194 0.017
## 1559    13.8 20.974160  8.420999        74.61470 0.029
## 1560    11.8 13.678958 18.545711        75.83814 0.011
## 1561    12.2 22.070073 11.466313        79.95850 0.020
## 1562     8.7 20.560748  6.208440        80.48571 0.008
## 1563    15.9 14.355562  9.037136        73.77474 0.023
## 1564    16.5 17.597821 18.399854        72.08758 0.026
## 1565     9.9 15.035785 11.836426        74.51974 0.024
## 1566    11.8 31.831848  7.137601        74.19831 0.031
## 1567    23.4 18.301235  8.833259        69.35584 0.045
## 1568     9.4 20.566939  5.974240        79.43964 0.006
## 1569     7.9 36.541965  8.332572        79.35187 0.014
## 1570    10.7 24.470938 13.429652        76.22914 0.027
## 1571    18.0 17.682751 19.341172        71.46557 0.034
## 1572    14.5 32.532078  6.477930        73.49560 0.028
## 1573    17.7 21.642774 11.678192        70.66691 0.052
## 1574    18.3 13.652109 10.716484        74.28820 0.016
## 1575     8.7 21.244438  8.305732        76.52909 0.001
## 1576    15.3 19.065011 21.587868        73.15030 0.025
## 1577     6.1 36.514234  5.920363        80.37651 0.008
## 1578    36.2  5.748538 10.307879        66.32173 0.012
## 1579    20.1 18.839050 15.318925        74.13654 0.015
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## 1580     8.5 18.668899  6.569641        76.62640 0.016
## 1581    10.3 22.127856  7.937262        76.15403 0.024
## 1582    12.6 31.720306  9.573968        74.23488 0.024
## 1583    34.3 12.903426 12.286022        72.50992 0.062
## 1584    11.2 18.264797 11.534087        78.81569 0.005
## 1585     8.7 19.738895  5.519621        79.07447 0.012
## 1586    26.1 17.849134  8.136067        69.45988 0.002
## 1587    18.6 21.612537 12.056042        74.01348 0.020
## 1588    19.9 17.034305  8.146516        71.38325 0.013
## 1589    15.5 21.290039  8.371544        77.04608 0.013
## 1590    14.0 30.814380 13.146699        75.13322 0.017
## 1591    24.5 12.784961 11.923419        69.10842 0.036
## 1592    22.8 10.845915 10.955056        72.00818 0.021
## 1593    12.3 20.887097  8.704109        76.80350 0.010
## 1594    12.6 22.826672 11.810845        73.74499 0.025
## 1595    18.0 12.533463 12.952996        74.16275 0.009
## 1596     9.5 24.898680  7.737234        78.82695 0.011
## 1597     9.7 20.414594 10.486703        77.99389 0.015
## 1598    25.0 13.721310  7.310272        73.18725 0.009
## 1599    10.0 19.944623  6.071519        77.20658 0.018
## 1600     9.8 21.229050  5.602241        75.71334 0.008
## 1601     9.6 19.538652 12.233391        78.29752 0.021
## 1602    14.6 28.517019 14.298606        75.62058 0.028
## 1603    10.3 21.572387  8.059211        79.41819 0.007
## 1604    10.8 18.317240 11.313152        75.44029 0.004
## 1606     9.7 35.066309 12.418234        78.84675 0.010
## 1607    11.3 53.048063  3.702695        81.57947 0.016
## 1608    12.3 13.360032 17.816747        77.27085 0.016
## 1609    17.2 18.311849  9.571429        75.56822 0.004
## 1610    15.5 26.027836 11.295690        74.70846 0.027
## 1611    14.4 22.301161 18.998110        73.55160 0.040
## 1612    19.6 20.249053 11.131611        64.22048 0.004
## 1613    18.3 15.109584 15.908322        71.88771 0.000
## 1614    11.1 16.229957 12.222968        80.39103 0.009
## 1615    13.5 25.012755  5.019375        79.32964 0.013
## 1616    10.5 15.741650  7.400172        79.39707 0.003
## 1618     8.1 32.406892 17.735414        76.42867 0.014
## 1619     7.4 30.308990  8.938298        78.72229 0.012
## 1620    20.2 12.375940 17.769529        74.35990 0.011
## 1621    19.0 14.251491  9.459459        71.37445 0.011
## 1622    24.0 27.021983  6.775625        73.53745 0.012
## 1623    11.8 27.014080  7.171521        79.34361 0.003
## 1624     7.8 20.768137  6.275033        82.67142 0.007
## 1625    12.8 17.050282 17.889549        77.67009 0.011
## 1626    11.0 29.401807 13.364105        75.49505 0.030
## 1627     9.9 34.658228 11.883625        76.94092 0.019
## 1628    18.4 23.637821 15.403809        73.15594 0.035
## 1629    19.9 13.254320 14.044988        70.50194 0.011
## 1630    10.8 23.550725  7.565599        77.13677 0.016
## 1631     7.0 25.495006  4.983437        78.90470 0.009
## 1632    13.7 19.679275  9.497207        79.00794 0.003
## 1633     5.7 36.508617  8.219777        80.03209 0.008
## 1634    13.5 16.871033 11.627217        74.26034 0.026
## 1635    15.1 16.120203 13.266911        74.90354 0.022
```

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## 1636    22.8 12.391104 15.486767        69.84992 0.023
## 1637    18.8 17.491110  8.767059        76.54910 0.009
## 1638    18.1 23.279794 11.083333        72.70406 0.009
## 1639    17.3 30.861708  7.396988        78.51231 0.019
## 1640    15.8 31.543434 14.155986        73.89608 0.027
## 1641     8.6 18.860109  7.956140        76.70180 0.019
## 1642     9.8 18.929340  6.727048        78.52474 0.008
## 1643    11.3 38.086829  9.716477        78.61086 0.021
## 1644     9.4 40.242941  7.393464        79.09844 0.011
## 1645    19.1 11.357915 12.389908        71.52784 0.031
## 1646    20.2 18.884370 15.387183        67.63300 0.006
## 1647    18.8 10.978707 24.036767        78.12885 0.028
## 1648    20.1 16.501650 16.558250        71.70859 0.020
## 1649    23.7  8.086400 16.941343        74.11195 0.024
## 1650    14.1 20.171654  8.352031        73.04980 0.013
## 1651    14.9 17.502091 12.945789        72.16935 0.041
## 1652    12.6 17.007763  8.311494        75.55008 0.000
## 1653    11.7 22.443392  5.615991        78.81677 0.018
## 1654     8.9 23.114211  8.337888        75.42073 0.003
## 1655    11.4 29.825898 13.328981        75.99780 0.019
## 1656    10.7 23.695625  7.310328        79.75575 0.015
## 1657    11.8 21.336554  6.562583        77.97844 0.007
## 1658    10.5 20.126679 12.591731        78.64924 0.018
## 1659    13.9 15.272173 14.869830        75.14539 0.024
## 1660     8.7 24.403129  4.851828        78.68335 0.012
## 1661    14.2 20.166280 19.957198        74.35912 0.010
## 1662    12.0 21.447155  9.232843        75.98071 0.029
## 1663    17.5 11.993165 14.735755        74.97316 0.010
## 1664     7.9 21.479858  4.415283        80.21370 0.006
## 1665    34.2 14.532209  8.800790        67.66501 0.044
## 1666     6.7 24.694377  4.642087        78.82700 0.007
## 1667    20.1 18.802063 10.832925        70.91305 0.027
## 1668    16.8 20.613456 12.850765        74.91409 0.012
## 1669    20.5 12.930690 15.118223        70.01832 0.038
## 1670    12.9 15.751861 14.620540        74.37958 0.021
## 1671     8.9 32.139130 11.804729        78.43133 0.013
## 1672    16.9 25.565587 13.844248        73.70515 0.045
## 1673    12.1 20.469023  8.504916        74.59426 0.016
## 1674    17.7 16.272160  7.011137        73.99232 0.025
## 1675     7.0 24.120677 19.112064        78.44843 0.006
## 1676    23.4 19.350332 17.899492        68.43700 0.024
## 1677    15.3 27.189542 11.245711        73.88047 0.042
## 1678    11.9 20.792269  6.846892        79.31089 0.016
## 1679    14.3 13.487654 12.836186        72.37469 0.015
## 1680     8.3 24.563820  9.772031        78.22148 0.016
## 1681    16.2 16.488970  9.246487        74.07166 0.039
## 1682    14.5 12.365560  9.058332        69.50757 0.018
## 1683     8.8 20.675853  6.741703        76.10615 0.009
## 1684    15.9 17.737527  6.400185        77.21639 0.017
## 1685    16.0 21.691890  7.751938        76.28680 0.041
## 1686    11.0 18.986498  7.146057        76.86242 0.006
## 1687    12.7 17.076239  8.259002        77.06398 0.013
## 1688    13.6 21.240799  6.925208        77.74208 0.011
## 1689    17.0 15.656525 12.630861        72.81448 0.023
```

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## 1690    23.8 27.315006 12.045569       72.13856 0.045
## 1691    13.3 22.099482  5.472556       77.05077 0.037
## 1692    14.9 15.578217  6.635758       76.68237 0.011
## 1693    21.5 16.047245 10.488771       71.99373 0.052
## 1694    10.4 23.613904  5.130525       77.50856 0.022
## 1695    15.1 20.919816 14.358744       72.17228 0.000
## 1696    23.9 10.335689  8.070110       70.92589 0.007
## 1697    10.3 21.319190 14.431495       75.37732 0.021
## 1698    14.8 21.566710  7.206030       75.78363 0.014
## 1699    19.4 15.767422 15.912693       71.78138 0.000
## 1700    11.2 21.754575 13.061758       77.90311 0.008
## 1701     9.5 19.410677  9.534859       76.81659 0.025
## 1702    18.0 15.340684 20.615911       72.80981 0.055
## 1703    18.8 17.578722  7.225975       73.82891 0.018
## 1704    24.7 17.582952  6.852713       73.69023 0.002
## 1705    20.2 16.643073  8.771261       72.92627 0.043
## 1706    17.1 18.077367 13.394985       73.70908 0.028
## 1707    17.8 19.974493  7.248523       72.56555 0.025
## 1708    14.0 18.628819 15.241636       75.51714 0.033
## 1709    17.0 12.260587  6.257644       75.81143 0.008
## 1710    14.0 18.907508 11.205457       75.37424 0.034
## 1711     6.8 37.835817 10.578377       79.00164 0.014
## 1712    12.8 18.407173 16.080789       77.07549 0.008
## 1713    12.1 18.102743  8.167893       75.00074 0.001
## 1714     8.5 22.775711  7.305591       77.91638 0.005
## 1715    19.2 13.316464 13.747386       71.06177 0.026
## 1716    11.4 19.468901  6.349595       76.44977 0.018
## 1717    21.5 12.478388 16.751965       70.27591 0.014
## 1718     9.1 33.867695  6.364343       78.35231 0.014
## 1719    10.9 24.981371  9.882747       80.68030 0.021
## 1720    20.2 12.971494  7.200478       73.26286 0.007
## 1721    15.1 20.072322 14.813459       73.92997 0.027
## 1722    22.8 20.413275 11.513419       71.60768 0.022
## 1723    14.1 23.389182  6.938307       76.24491 0.021
## 1724    21.6 14.968963 20.021182       70.61633 0.009
## 1726    17.3 16.614616  8.182501       71.25085 0.020
## 1727    10.6 19.920967 10.254237       81.44792 0.006
## 1728    16.0 18.748639 10.687336       74.47399 0.033
## 1729    10.1 24.921962 14.874887       75.25340 0.021
## 1730    15.2 18.045869 13.423524       77.03457 0.015
## 1731    12.9 23.050746 12.273555       74.31887 0.024
## 1732    22.2 12.570668 10.524685       71.09078 0.036
## 1733    13.1 23.356346 10.455629       77.35468 0.013
## 1734     9.5 27.761792  6.468036       77.10389 0.035
## 1735    13.9 26.573263 23.762811       76.93247 0.014
## 1736    18.9 16.851995 11.318046       71.54287 0.040
## 1738     8.4 48.000901 12.586124       79.90152 0.015
## 1739    10.1 15.733970  8.701657       76.97322 0.009
## 1740    16.9 16.458687 19.047310       72.32399 0.017
## 1741     6.3 27.519981  6.207322       78.29359 0.008
## 1742    14.0 18.413386  9.457364       73.74796 0.026
## 1743    15.9 14.541262 14.995355       70.95840 0.025
## 1744    21.0 10.190280 13.444763       71.78188 0.017
## 1745    14.6 25.031511  6.509309       77.12465 0.018
```

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## 1746    29.1  6.970345 23.322259        72.20975 0.029
## 1747     8.1 26.565330  5.141172        81.39334 0.008
## 1748     9.9 21.356882 11.482314        73.36182 0.032
## 1749     9.8 19.174286  7.066045        78.32659 0.014
## 1750     9.9 23.867450 10.064980        77.62684 0.015
## 1751    15.8 20.515368  5.513294        76.03634 0.021
## 1752    11.2 18.297265  6.983855        75.72479 0.020
## 1753    30.9 13.252432 14.663757        71.76330 0.000
## 1754    11.2 19.630538 11.854432        76.84008 0.011
## 1755    14.0 18.284119  6.200813        78.66578 0.015
## 1756    10.6 35.061303 13.713211        78.06920 0.015
## 1757    10.5 28.553924 11.795817        76.17012 0.018
## 1758    15.1 18.725006 13.096232        72.78076 0.034
## 1759     8.4 20.364022  5.303567        80.25907 0.011
## 1760    17.2 22.501902 19.549605        74.52617 0.023
## 1761     8.0 24.930362  4.985365        79.74460 0.006
## 1762    10.2 29.516807 10.383747        79.76235 0.001
## 1763    16.7 19.088367  8.821397        73.87827 0.024
## 1764    19.2 17.813353 15.614031        71.15809 0.033
## 1765    17.6 26.033898 12.756188        75.47337 0.023
## 1766    11.3 17.706135 12.957309        79.42355 0.011
## 1767    11.8 30.632082  6.657825        79.57855 0.025
## 1768    18.7 18.435615 14.740730        72.37024 0.000
## 1769    19.6 12.398589 16.760115        71.96106 0.000
## 1770    19.0 15.426531 12.273243        70.97678 0.027
## 1771     4.9 35.262776  4.362803        78.61715 0.014
## 1772    10.4 22.876092 17.555615        78.01821 0.015
## 1773    14.8 18.475319 10.005727        73.54705 0.030
## 1774    11.4 16.712843 12.121212        75.28085 0.023
## 1775    19.7 15.059741 15.207966        73.53484 0.034
## 1776    12.4 25.741547 11.634940        74.50324 0.036
## 1777     8.5 65.754473  9.005256        82.50367 0.020
## 1778    14.0 21.155660  5.537218        75.92740 0.023
## 1779    13.1 21.939850 15.687960        74.15936 0.022
## 1780    25.0 12.671645  9.569500        72.83840 0.017
## 1781    10.9 22.280350 13.039216        76.00160 0.009
## 1782    15.6 14.289489  8.801132        75.58640 0.010
## 1783     8.0 28.655440 12.866768        75.71744 0.006
## 1784    14.4 13.672596 20.063903        73.10552 0.031
## 1785     7.2 24.445053 13.468460        76.45861 0.004
## 1786    17.6 32.322498  7.804947        75.53591 0.027
## 1787     6.6 31.882814  6.975376        78.36711 0.013
## 1788    13.3 17.713092 17.783261        73.39026 0.000
## 1789    21.4 25.122980 17.113646        71.33055 0.008
## 1790    28.8  8.325653  9.797908        67.20089 0.009
## 1791    10.6 18.231485  4.589887        78.60293 0.008
## 1792    25.2 17.373951  9.182531        71.12460 0.034
## 1793    10.4 21.192270  6.510607        77.33417 0.018
## 1794    14.2 16.252706  8.177036        74.77993 0.007
## 1795     8.4 11.092917 24.936431        78.62480 0.005
## 1796    15.8 32.495127 21.527369        77.39059 0.018
## 1797    14.2 17.860296 20.300969        74.65351 0.030
## 1798    12.1 32.057938  5.263018        80.63133 0.021
## 1799     8.7 25.055717 13.133364        72.84262 0.021
```

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## 1800     5.1 43.972197 12.806443        79.60177 0.010
## 1801    14.6 14.174063 15.360464        75.19349 0.019
## 1802    11.0 19.407913  5.068281        78.46466 0.009
## 1803    17.6 17.430787  7.245839        73.47578 0.018
## 1804    14.3 44.899856  9.024610        81.85761 0.017
## 1805    15.9 20.516252 12.572602        72.97142 0.022
## 1806     8.4 26.207931 10.913075        78.03550 0.011
## 1808    14.1 44.279059 13.953961        76.42438 0.015
## 1809    19.0 18.919331 10.519224        70.77123 0.042
## 1810     8.4 26.922473 10.700928        78.63793 0.011
## 1811    12.9 20.238095 13.098160        76.37699 0.014
## 1812    12.2 22.185802  6.899365        78.62032 0.018
## 1813    13.4 16.693679 28.611280        76.02882 0.010
## 1814    10.1 18.603530  9.185565        76.68765 0.011
## 1816    16.1 17.738192 11.157801        73.72493 0.046
## 1817    10.8 20.997638 10.453712        75.05205 0.013
## 1818    12.9 35.509294 11.459085        80.60347 0.006
## 1819    10.1 34.338505  7.582327        79.48436 0.017
## 1820    14.0 31.946575  5.068822        77.49414 0.019
## 1821    13.5 17.492342  5.999102        77.10078 0.003
## 1822    10.4 19.797802 13.774513        75.33708 0.016
## 1823    18.3 14.250402 26.143170        73.05462 0.023
## 1824    15.5 13.380800 15.946930        75.52818 0.028
## 1825     8.6 22.966584 15.359103        76.11012 0.023
## 1826    10.2 17.194175 15.368301        76.23015 0.010
## 1827    13.4 20.061908 12.264808        78.11878 0.000
## 1828    17.9 22.769563 23.206509        74.14375 0.038
## 1829    11.8 21.202771 11.889747        77.85318 0.012
## 1830    29.4 13.873410 10.844479        68.41725 0.030
## 1831    18.7 13.855103 20.414812        73.97804 0.038
## 1832    14.9 17.069777  7.295016        73.81206 0.013
## 1833    15.3 20.070939 12.678783        75.87354 0.017
## 1834    11.8 23.576390 14.018663        74.22938 0.024
## 1835     9.7 24.280320 14.025163        76.96754 0.007
## 1836    35.6 13.723094 13.848385        67.22554 0.000
## 1837    11.5 18.387785 15.337336        74.39269 0.014
## 1838    13.6 25.378671 15.385529        75.68403 0.038
## 1839     8.2 28.735211  4.907143        77.84235 0.011
## 1840    18.3 17.530611 16.611155        70.53668 0.000
## 1841     7.9 20.440624  5.796444        78.29385 0.000
## 1842     9.6 27.166737  9.066827        79.04593 0.018
## 1843    12.0 24.272475  5.947227        75.57361 0.007
## 1844     5.1 58.643712  5.022026        82.04618 0.022
## 1845    10.9 24.461165 14.832114        77.92224 0.024
## 1846    17.6 12.642264 26.792075        75.13876 0.025
## 1847    11.2 16.835536 18.113994        77.07160 0.013
## 1848    17.3 17.888415  8.343181        75.06210 0.009
## 1849    14.5 22.935413 12.611499        72.90132 0.028
## 1850    11.2 24.417744 12.113137        75.26758 0.011
## 1851    17.3 21.794767 13.396164        74.09965 0.017
## 1852    12.0 14.927417 13.276353        75.40314 0.018
## 1853    15.4 21.518752 10.676157        77.07847 0.009
## 1854    13.8 17.095663 11.122521        73.80745 0.021
## 1855    11.9 31.194398 10.643737        79.92111 0.011
```

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## 1856    14.2 33.852229  5.352840        78.32060 0.013
## 1857    18.9 18.407235 14.821937        71.46533 0.009
## 1858    18.6 15.228111 14.634730        71.41630 0.043
## 1859    15.3 15.247016 14.503220        73.48786 0.032
## 1860    21.0 19.212955 20.553896        74.05331 0.015
## 1861    13.6 29.795396 10.684131        75.82003 0.020
## 1862     7.9 26.883762  9.677157        79.03585 0.012
## 1863    18.0 16.228334  6.693489        71.81702 0.016
## 1864    15.0 22.626506 14.298872        77.69502 0.016
## 1865    23.5 20.414476 11.166995        70.68699 0.029
## 1866    12.1 22.030457  7.803609        76.37739 0.019
## 1867    13.9 18.189191  5.933080        77.29188 0.013
## 1868    13.8 27.082321  8.384614        74.62406 0.041
## 1869     8.4 28.479192  5.419940        80.65285 0.008
## 1870    13.6 29.101647 10.966471        76.35582 0.023
## 1871    17.1 20.998562 16.676751        72.49035 0.034
## 1872     5.6 52.122592 10.225997        84.02164 0.016
## 1873     8.2 28.429403  6.464654        78.05065 0.014
## 1874     8.6 18.697595  6.511764        78.54684 0.005
## 1875     6.9 49.119843 15.934312        80.68751 0.012
## 1876    12.9 21.030641 11.649835        73.80053 0.018
## 1877     7.3 43.543831  4.666625        82.02430 0.006
## 1878    16.0 14.178270  7.233311        73.93558 0.007
## 1879    11.5 47.259687 11.023457        81.11240 0.021
## 1880    19.4 20.443851  9.207402        75.18438 0.030
## 1881     5.0 47.719553  9.939979        81.50115 0.008
## 1882    16.2 16.747890 11.884376        74.34850 0.016
## 1883     9.3 23.051785 14.396415        77.27992 0.019
## 1884    21.1 14.532813 14.656189        70.53402 0.018
## 1885    16.0 28.332306  5.085802        76.70866 0.018
## 1886    18.9 18.458054 24.248482        73.29072 0.024
## 1887    23.2 18.474961 14.305268        71.88350 0.043
## 1888    10.8 17.166170  9.710769        75.20470 0.012
## 1889    20.5 12.254287 21.123835        75.58626 0.023
## 1890    10.0 33.245712  5.204014        76.14492 0.021
## 1891    23.6 16.015625 19.670212        74.89350 0.027
## 1892    11.9 28.816794  9.196499        77.55065 0.036
## 1893    12.5 23.594489 22.116641        76.50972 0.020
## 1894    19.1 38.535118  7.475396        74.11688 0.027
## 1895    19.4 21.595344 11.131941        75.55485 0.023
## 1896    13.3 23.878642  5.117397        78.36416 0.019
## 1897    26.4 14.726551 15.236686        72.61421 0.039
## 1898    23.1 15.811686 14.035129        71.69269 0.043
## 1899    15.7 17.787311  8.896861        73.92306 0.030
## 1900    16.2 26.972477  7.163633        76.02982 0.027
## 1901    14.2 20.638784  6.525828        78.37071 0.013
## 1902    11.2 28.649011  6.919073        79.35891 0.013
## 1903    21.1 12.988541  8.213623        73.29712 0.019
## 1904    10.9 16.996543  7.178207        76.38240 0.021
## 1905    16.3 26.387992 14.692615        78.13261 0.016
## 1906    18.1 22.473572 16.204816        73.00613 0.041
## 1907    10.5 18.489544 12.826921        75.44511 0.023
## 1908    21.1 15.469309 20.589746        70.02278 0.024
## 1909    16.9 18.033154 14.901388        74.38236 0.050
```

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## 1910    19.5 27.124817 15.729837        74.39391 0.037
## 1911    20.4 11.645464 13.028620        69.57945 0.039
## 1912    10.2 24.035634 10.732564        77.76512 0.020
## 1913    18.3 15.748373 20.887783        74.76816 0.023
## 1914    13.0 18.189815  6.757836        77.63638 0.012
## 1915    25.2 19.304202 16.534502        72.05216 0.029
## 1916     8.9 25.621755  8.020393        79.22469 0.014
## 1917    37.2 16.576068  8.508181        69.06549 0.009
## 1918    15.3 19.225470 23.574639        74.63357 0.030
## 1919    10.0 26.900866  6.544107        74.19068 0.029
## 1920     8.2 20.228898 10.739073        77.42066 0.020
## 1921    16.8 18.403807 13.263479        70.98959 0.039
## 1922    15.1 16.471940 11.612932        73.22888 0.025
## 1923    20.0 17.667860 14.992421        72.21547 0.038
## 1924     6.9 30.387517  6.596109        83.13095 0.005
## 1925    10.7 28.100086  6.634331        77.35058 0.017
## 1926    11.7 18.415653  5.945796        74.76900 0.006
## 1927    14.6 14.406531  8.964299        74.10932 0.010
## 1928    22.7 22.105893 11.702128        62.22233 0.008
## 1929    18.3 17.432201  8.338519        75.84361 0.017
## 1930    10.0 22.297297 11.814982        80.45355 0.000
## 1931    17.0 24.946126 18.413829        73.24582 0.032
## 1932    15.2 15.632308  7.825773        76.11410 0.030
## 1933    12.0 22.006446 10.700354        77.66005 0.026
## 1934    10.5 21.930834 11.211832        75.87766 0.019
## 1935     9.0 20.197527 11.475819        78.47469 0.009
## 1936    22.3 19.699426 12.627796        70.99586 0.058
## 1937    19.7 12.393215 14.603503        71.01183 0.026
## 1938     8.3 33.085409  9.333615        77.68691 0.020
## 1939    13.8 19.652744  7.064536        74.95238 0.014
## 1940    12.5 18.478261 13.592732        76.29956 0.017
## 1941    12.4 17.001429 14.852012        75.36302 0.039
## 1942    19.4 11.468207 11.379928        72.25137 0.010
## 1943    10.8 20.507513  5.615616        75.18059 0.020
## 1944    11.1 14.234353  7.077641        76.46762 0.012
## 1945    10.1 28.398890 11.308689        79.03420 0.009
## 1946    13.1 33.238234 14.560845        78.14115 0.017
## 1947     8.4 35.100217  5.776088        77.47881 0.020
## 1948    16.6 19.327855 11.461577        73.31227 0.031
## 1949     7.7 27.425701 11.485537        77.48223 0.017
## 1950    15.1 18.313253 25.203812        72.30339 0.035
## 1951    16.9 26.885308  4.961636        75.48534 0.025
## 1952     5.8 35.172343  8.185276        81.58287 0.001
## 1953    11.2 43.966196  8.386286        80.68746 0.015
## 1954    14.2 30.137069  6.322146        77.09623 0.029
## 1955    21.0 30.804002  7.811183        76.19418 0.018
## 1956     9.7 34.955936 12.976212        78.60269 0.017
## 1957     8.9 20.116972  7.570696        76.37138 0.014
## 1958    11.0 19.698531 13.621853        74.39097 0.021
## 1959     9.7 14.093344 18.312873        81.36117 0.003
## 1960    16.1 16.680291 11.621747        75.66433 0.016
## 1961    17.4 17.901266  8.759410        72.55115 0.028
## 1962    19.3 19.513956 12.154085        78.19375 0.008
## 1963    10.5 18.088068  7.615120        79.63224 0.014
```

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## 1964    15.4 14.994318 15.326464        74.59463 0.018
## 1965    11.9 30.690862  9.997915        77.89319 0.028
## 1966    27.4 12.765744 13.856016        67.40011 0.053
## 1967    10.4 21.276172 12.703596        74.93772 0.016
## 1968     9.6 19.913647  4.930281        78.19495 0.022
## 1969    14.2 15.620188 14.938350        71.56508 0.016
## 1970     9.9 33.646613  7.519015        77.83978 0.010
## 1971    20.8 18.046519  6.686227        73.92735 0.023
## 1972    22.5 14.889393 14.846320        72.36836 0.026
## 1973    11.3 16.349723  6.768528        77.41711 0.032
## 1974     5.3 43.308136  5.941062        79.42593 0.013
## 1975     9.6 20.994211  8.835304        74.60709 0.023
## 1976    13.0 31.302303  5.983067        78.54462 0.012
## 1977    12.0 19.767157  8.610256        77.73593 0.013
## 1978    10.2 18.719849  6.314360        76.29803 0.011
## 1979    13.3 25.877703 12.360248        76.25382 0.011
## 1980    13.8 21.046012  6.184723        74.59095 0.013
## 1981    14.4 21.723257 13.860474        74.39622 0.025
## 1982    15.1 19.078156  6.339242        74.28753 0.018
## 1983    10.8 24.639501  7.426014        76.65897 0.016
## 1984    24.3 25.613559  8.604005        71.93685 0.056
## 1985    11.4 20.879065 10.888937        78.74993 0.026
## 1986     9.6 32.864590  4.800793        79.32516 0.024
## 1987    14.6 18.495356 13.440095        74.36844 0.023
## 1988    28.4 35.950930  9.684828        74.79982 0.025
## 1989    26.2 15.494626 16.013146        71.67801 0.037
## 1990    11.0 26.757484 10.050786        76.22243 0.035
## 1991     7.8 34.321244 10.612131        98.90294 0.015
## 1992    18.7 29.416950 22.297410        74.00527 0.021
## 1993    15.5 21.102113  6.909474        74.42345 0.017
## 1994     7.8 31.637943  5.234383        77.03649 0.019
## 1995    27.0 10.923106 10.022810        71.64636 0.031
## 1996     8.0 60.600385  7.800190        81.90536 0.014
## 1997    11.1 32.424462  6.786197        76.02731 0.024
## 1998    10.5 34.615385  4.774985        78.06320 0.018
## 1999    13.2 23.789204  5.481739        79.82688 0.012
## 2000    14.1 20.017620  7.259988        76.48565 0.021
## 2001     8.3 29.766596  9.914356        78.13709 0.010
## 2002    21.0 16.390041  9.176446        71.23463 0.024
## 2003    16.8 16.353510  8.503876        77.63801 0.017
## 2004    10.6 30.278408 11.254100        81.26311 0.013
## 2005    17.7 18.557507 15.269416        72.52526 0.001
## 2006    13.7 24.497497  5.726599        77.68919 0.020
## 2007    13.0 21.475143  7.006495        76.89136 0.011
## 2008    13.7 16.425581 25.412092        75.84050 0.014
## 2009    10.9 29.231423  6.168463        80.00831 0.015
## 2010     9.6 25.602355 15.003588        76.87155 0.019
## 2011    16.7 17.517554 14.722336        73.10482 0.025
## 2012    16.6 13.372025 13.726661        73.17948 0.014
## 2013    11.7 61.822937  9.997593        81.60291 0.021
## 2014    12.8 19.976272  8.906359        77.72927 0.014
## 2015    16.5 21.528832 12.498877        74.19941 0.022
## 2016    10.2 31.308168  7.538172        75.00336 0.028
## 2017    24.8 15.368696 12.574742        70.46210 0.039
```

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## 2018    12.3 22.989205 14.248415        75.66439 0.021
## 2019    11.8 21.601257  8.880059        74.33370 0.008
## 2020    12.7 37.050437  6.267984        79.16802 0.014
## 2021     7.9 26.037312  7.291287        76.56385 0.006
## 2022    22.6 16.726661 11.203501        71.17320 0.036
## 2023    17.2 21.071274 13.427798        72.70587 0.012
## 2024    18.4 22.722181  6.505895        76.99388 0.023
## 2025     6.5 30.303615  6.474238        78.51821 0.007
## 2026     9.4 30.235888  4.947365        82.43846 0.023
## 2027    24.9 11.449174 17.540908        73.43236 0.019
## 2028    14.3 22.430900 16.158531        73.40333 0.028
## 2029    15.1 19.713916  8.376460        75.31999 0.031
## 2030    12.8 32.257389 12.694014        75.35593 0.037
## 2031    13.9 30.515601 15.547780        76.14498 0.027
## 2032    18.8 20.237828 14.094406        73.73463 0.012
## 2033    10.8 18.195688  9.909437        76.75281 0.001
## 2034    18.3 47.936768  7.499971        78.61171 0.016
## 2035    13.4 21.176619  7.008066        75.40902 0.029
## 2036    23.8 48.395365  7.518091        79.39743 0.016
## 2037    19.0 12.831880 13.419304        72.44937 0.026
## 2038    15.7 27.939076  5.693594        74.80332 0.028
## 2039    18.6 25.950326 11.046122        73.96207 0.043
## 2040    22.2 15.516477 19.876916        69.07424 0.036
## 2041    12.0 18.342532  6.248892        75.33108 0.021
## 2042    10.0 33.168317 10.716874        79.45713 0.021
## 2043    22.3 15.150281 19.925636        71.59830 0.031
## 2044    16.2 17.565872 12.091764        77.83652 0.019
## 2045     7.8 27.992565  4.453049        81.36893 0.006
## 2046    17.5 14.260407 17.044603        73.67989 0.019
## 2047    20.3 15.754158 16.119419        73.73562 0.017
## 2048    17.0 16.345141 14.607811        73.18814 0.031
## 2049    19.8 12.498167 16.562199        73.01073 0.033
## 2050    15.7 18.401097 16.800781        73.48257 0.020
## 2051    10.9 19.538106  8.246433        76.75913 0.013
## 2052    35.6 16.552755 15.612502        61.35581 0.000
## 2053    23.3 12.710443  9.088304        69.45914 0.043
## 2054    12.9 23.179256 11.425143        78.14653 0.015
## 2055    11.5 29.390841 14.340166        78.75854 0.016
## 2056    12.5 20.415370  7.138080        76.08433 0.032
## 2057     9.7 24.403856  6.260494        79.12520 0.002
## 2058    12.9 23.398110  8.836740        75.80644 0.037
## 2059    13.4 22.040302 10.794654        73.07789 0.026
## 2060     8.7 41.113195  6.644156        80.31720 0.011
## 2061    16.3 16.129032 13.639802        74.70103 0.030
## 2062    10.8 31.194511 11.931051        75.43512 0.019
## 2063    15.2 35.254133  8.375242        80.28598 0.024
## 2064    15.7 17.071956 24.463138        73.79397 0.027
## 2065    13.1 15.640484 11.230621        75.60781 0.023
## 2066    15.0 24.561934  5.064554        77.49255 0.012
## 2067    10.3 19.357766  8.406572        75.65734 0.005
## 2068    18.9 26.246503 12.256760        72.97572 0.053
## 2069    15.9 20.347577  6.612686        75.65620 0.016
## 2070    17.1 13.212724  5.895824        76.49291 0.025
## 2071    10.5 17.538162 13.680194        77.45293 0.016
```

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## 2072    20.3 12.798689  8.242872        70.93341 0.021
## 2073    13.6 18.585101 13.781215        73.35523 0.033
## 2074     6.6 33.792133  8.335583        78.79555 0.013
## 2075    17.3 16.396556 14.454621        71.88079 0.007
## 2076    12.9 25.681220 11.880266        76.22306 0.017
## 2077     9.2 28.576401  6.725436        79.03536 0.025
## 2078    16.7 17.177520 13.195112        71.32918 0.026
## 2080     8.8 19.107417  8.041734        75.99720 0.023
## 2081    16.7 16.092073  8.328010        71.16610 0.024
## 2082    18.8 21.123675  6.316975        74.21823 0.035
## 2083    14.8 18.878485  9.893303        73.42495 0.022
## 2084    16.2 54.356895  5.938762        82.21123 0.025
## 2085    12.7 19.979611  7.216634        72.96258 0.031
## 2086    11.8 24.320360  4.986178        77.23323 0.007
## 2087     8.5 32.144855 13.773087        80.93867 0.005
## 2088    17.3 16.432732 16.653826        73.83346 0.020
## 2089    21.5 12.046530  9.153064        70.03899 0.009
## 2090    23.8 13.672905  7.340753        68.76806 0.003
## 2091    18.5 14.100273  8.465283        73.81455 0.017
## 2092    13.5 19.719261  8.424758        73.67692 0.016
## 2093    11.3 20.140793  8.449489        75.93007 0.018
## 2094    10.6 20.449489 12.895384        76.79532 0.007
## 2095    14.8 19.937029 19.180792        73.18095 0.025
## 2096     9.4 20.638971 20.877114        75.62039 0.010
## 2097    32.5 16.902384 14.461192        67.71780 0.001
## 2098     8.9 47.405666  3.171724        79.47241 0.018
## 2099    18.3 16.175345 18.080920        74.19671 0.026
## 2100    10.7 29.782552 12.600131        78.57666 0.012
## 2101    10.7 27.026944 12.242678        76.41505 0.017
## 2102    12.9 18.635834 14.545731        75.37285 0.018
## 2103    19.2 15.430917  7.398339        71.80333 0.007
## 2104     8.7 35.680605  4.533738        80.73288 0.011
## 2105    21.3 12.490686 13.506484        70.79302 0.026
## 2106    16.0 16.627389  6.283608        72.75174 0.017
## 2107    19.3 21.512217  9.528597        73.85769 0.013
## 2108    18.9 15.958621 14.689621        71.26295 0.011
## 2109    13.0 25.363020 11.610520        76.38337 0.027
## 2110    19.9 28.750061  9.936785        75.29336 0.004
## 2111     8.0 33.066321  4.192487        78.40055 0.008
## 2112    13.6 29.902073  8.080161        77.26808 0.012
## 2113     8.3 26.975250  6.231634        79.22483 0.011
## 2114    16.0 22.358107 22.005659        72.84790 0.041
## 2115     7.2 37.383842  6.529894        78.50223 0.016
## 2116    14.8 19.417378  7.351060        74.78060 0.010
## 2117    23.0 12.637602 15.256921        69.76787 0.041
## 2118     9.4 33.375045 14.836327        78.60680 0.014
## 2119    15.1 25.596616 10.512129        80.47245 0.014
## 2120    14.2 24.424700  6.246630        74.56248 0.014
## 2121    18.6 19.727933 19.132727        75.52999 0.028
## 2122    14.5 17.793871 16.000339        72.56721 0.026
## 2123    18.5 20.234880  7.541020        72.51624 0.024
## 2124    12.5 17.565227 17.289424        75.58764 0.018
## 2125    18.1 15.343253  9.153824        74.45832 0.023
## 2126    10.9 34.229875 15.373698        77.58519 0.019
```

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## 2127     8.8 28.536346  7.341695        77.32355 0.013
## 2128    29.7 12.701360  7.115623        66.96170 0.005
## 2129    10.6 23.977691  6.703535        73.48234 0.019
## 2130    11.8 31.819817  7.916366        77.03428 0.024
## 2131     9.3 42.811390  8.527768        78.38315 0.027
## 2132    17.6 24.835628 17.854012        73.86505 0.037
## 2133     9.6 43.840599  6.393419        79.68883 0.007
## 2134    13.9 22.811060  6.273262        74.75566 0.012
## 2135    10.1 20.274415 10.598048        74.99157 0.028
## 2136    16.3 16.667715 15.544761        74.48185 0.020
## 2137    19.0 29.462270 14.684963        71.96478 0.038
## 2138     9.1 25.310375 15.963306        79.63257 0.015
## 2139    14.4 20.976481 13.868247        75.40684 0.021
## 2140    10.5 28.930563 11.648340        78.52103 0.017
## 2141     8.6 22.008243  7.728119        74.76760 0.001
## 2142    17.8 23.996538 10.784774        75.32588 0.025
## 2143    18.2 22.071420  8.884012        72.54247 0.015
## 2144    12.5 27.708956 14.025497        75.95497 0.025
## 2145    22.1 23.725298 21.028445        73.32073 0.040
## 2146    11.9 14.636368  9.499369        74.70962 0.015
## 2147    12.1 20.437961 15.712476        74.98286 0.019
## 2148     8.1 24.193094  5.102564        79.36899 0.007
## 2149    17.3 20.215842  8.878433        72.61144 0.005
## 2150    23.1 11.802458 20.096901        70.87437 0.030
## 2151    15.1 21.675030 13.555232        73.26517 0.037
## 2152    25.0 16.594991  6.911904        70.50870 0.007
## 2153    12.7 25.146022  5.366571        77.07450 0.010
## 2154    17.0 16.102020 20.530726        73.92309 0.035
## 2155    12.7 16.208791  9.223379        75.10624 0.008
## 2156    18.2 15.607339  9.495256        71.14933 0.019
## 2157    11.1 16.834380 15.332883        74.60105 0.019
## 2158     9.5 34.517247 11.185171        76.92013 0.014
## 2159    18.0 17.810394  7.880636        74.18077 0.016
## 2160    14.9 16.310321 10.692706        74.85560 0.029
## 2161    21.5 20.082369 16.598541        74.05441 0.014
## 2162     3.3 42.504196  7.984719        84.11487 0.019
## 2163    15.4 12.673745 13.117683        73.57837 0.018
## 2164    18.4 28.892107  9.613778        71.38513 0.048
## 2165    18.6 17.303536 12.381533        71.88000 0.020
## 2166    10.5 27.370143 13.891779        75.41826 0.028
## 2167    13.5 24.636145 12.567648        75.68099 0.036
## 2168    11.2 20.622191  9.763957        80.07326 0.009
## 2169     7.4 29.663973  9.883498        77.62839 0.026
## 2170    13.3 25.674553  5.147945        77.33467 0.020
## 2171    16.0 15.801056 12.460990        72.10801 0.041
## 2172    11.8 27.537656  6.582353        76.84242 0.009
## 2173    16.3 26.695414  5.610877        77.51208 0.015
## 2174     7.9 29.256657  8.316069        77.21653 0.030
## 2175    11.6 20.713824 19.992548        76.76249 0.032
## 2176    15.0 24.639932 13.251185        74.25749 0.039
## 2177    19.1 12.389814 16.955893        70.74433 0.043
## 2178    25.1 18.106325 10.158103        72.46000 0.027
## 2179    12.1 27.097624  7.173750        80.32569 0.015
## 2180    10.7 26.471111 10.051127        75.29171 0.020
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## 2181     7.9 19.592391  5.332792        79.52251 0.014
## 2182    14.2 23.287077  7.585546        75.94753 0.013
## 2183     8.6 35.735046  6.513783        80.83112 0.012
## 2184     4.7 50.486796  5.783260        78.00927 0.004
## 2185    20.6 14.644843 14.066989        72.13647 0.022
## 2186    12.5 16.273191  7.763178        76.72292 0.016
## 2187    12.0 18.199733 20.676583        74.23490 0.009
## 2188    13.3 25.599884  4.477453        78.99010 0.010
## 2189    11.0 25.532338  5.742528        77.94941 0.018
## 2190    11.0 28.017101  4.220413        79.64896 0.015
## 2191    14.8 17.991895  6.258432        78.12623 0.015
## 2192    14.3 19.178366  5.129124        75.79219 0.021
## 2193     9.1 50.480817  3.716607        80.41241 0.012
## 2194    21.4 13.121568 10.316365        72.88872 0.045
## 2195    22.1 10.729139 25.022164        75.41714 0.026
## 2196    12.3 21.562011  7.227168        76.81587 0.017
## 2197    15.1 18.058243  9.023260        72.22003 0.023
## 2198     9.4 24.623886 11.062459        76.80991 0.015
## 2199     7.8 29.682034  5.107144        80.52293 0.020
## 2200    12.8 24.383048 13.169120        74.20177 0.051
## 2201    13.7 15.413911  9.682016        75.26149 0.008
## 2202     8.6 30.391301 11.329551        76.43837 0.017
## 2203    10.8 23.235203  8.196684        79.22304 0.012
## 2204    14.6 21.521608 14.498129        73.58437 0.025
## 2205    15.0 18.838166  7.443683        75.39750 0.013
## 2206    14.2 21.498322 14.508344        76.59974 0.027
## 2207    19.0 20.025146 15.594634        72.25915 0.028
## 2208    11.9 30.804702 14.565662        76.05406 0.035
## 2209    18.7 23.198373  6.883409        72.11438 0.064
## 2210    12.6 24.877960  5.983133        77.45955 0.015
## 2211    20.8 11.934641  7.733413        69.80242 0.021
## 2212    21.0 20.163786 23.857045        73.46763 0.034
## 2213    11.8 20.548979 11.494843        76.45319 0.041
## 2214    14.7 25.438480  8.193548        75.79137 0.016
## 2215    13.8 32.491641 13.565158        73.82695 0.033
## 2216    12.7 16.696681  7.295760        74.20732 0.000
## 2217    14.9 15.499206 12.342066        72.74949 0.027
## 2218     9.2 22.231854  6.360702        78.36346 0.019
## 2219     8.0 32.574671  7.174733        76.83659 0.025
## 2220    24.9 14.178270  9.772741        68.28797 0.057
## 2221     9.6 32.040920 13.013931        76.41239 0.032
## 2222    12.0 31.213207 22.548225        76.33663 0.020
## 2223     8.3 35.502245  6.314755        77.06522 0.015
## 2224    14.1 28.563645  5.056865        77.17166 0.013
## 2225    30.8 18.973146 15.344145        66.20759 0.001
## 2226     9.4 34.670822 10.619925        81.76923 0.007
## 2227    24.8 50.158065  7.197335        78.91050 0.022
## 2228    10.7 23.059642 12.114279        76.61753 0.026
## 2229    10.7 28.266284 13.387842        78.69906 0.025
## 2230    11.9 18.857732  5.821457        75.34812 0.008
## 2231     5.8 32.684190  3.805241        78.72123 0.016
## 2232     8.3 36.430107  6.918680        78.93791 0.012
## 2233    35.0 13.545388  7.189703        70.63662 0.009
## 2234    20.5 25.843736 15.905449        68.47290 0.003
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## 2235     8.5 22.213203 14.727646        76.70262 0.022
## 2236     9.4 37.447324  7.633169        76.75528 0.032
## 2237    15.9 20.170863 14.601394        75.13262 0.024
## 2238    11.9 41.159657  5.140136        77.27599 0.017
## 2239    24.3 19.859889 15.580125        61.17339 0.018
## 2240    12.9 22.832093  5.532383        74.66716 0.011
## 2241     9.6 23.725463  7.782125        79.93169 0.004
## 2242    14.0 35.058898  5.031309        77.66906 0.029
## 2243    11.8 20.229885  7.446119        79.25299 0.008
## 2244    11.3 33.433231 16.955809        78.97627 0.019
## 2245    13.6 27.084135 12.714550        75.36504 0.022
## 2246    11.7 13.417181 16.657868        77.78992 0.005
## 2247    10.0 20.375790 15.548980        75.16597 0.021
## 2248     6.6 37.221404  9.628496        76.58235 0.016
## 2249     8.2 23.282410  8.733655        78.56189 0.010
## 2250    17.1 14.585035 12.626882        72.46020 0.041
## 2251     9.9 28.801411  4.403908        78.41533 0.017
## 2252    29.7 14.238139  6.382979        65.40448 0.012
## 2253    11.3 24.348661  6.813531        73.75038 0.020
## 2254     8.4 18.434854 12.244782        76.05564 0.012
## 2255    13.5 20.169817  7.972136        75.55806 0.015
## 2256    19.5 14.556996  8.604398        70.55360 0.017
## 2257    11.9 19.735205 18.558487        75.93385 0.032
## 2258    11.6 23.494728  9.976579        78.60662 0.019
## 2259    10.6 17.777917 12.668346        75.75590 0.014
## 2260    14.3 21.708217  7.524820        74.79425 0.029
## 2261    19.3 19.042838  7.732684        72.68332 0.024
## 2262     8.2 37.171338  4.476715        79.89974 0.017
## 2263    12.8 20.712358  7.589536        75.66945 0.016
## 2264    11.7 28.282680 10.018560        75.26350 0.032
## 2265    16.9 20.212119 21.691176        72.80996 0.024
## 2266     9.9 21.086243 10.668874        73.57815 0.017
## 2267    15.4 15.349493  9.901672        73.18935 0.014
## 2268    20.5 14.248576  8.558500        73.90072 0.012
## 2269    14.3 35.831946  5.451804        77.94741 0.016
## 2270    10.4 17.897638  7.208533        74.39468 0.009
## 2271     4.6 32.534572  4.286920        80.95783 0.010
## 2272    10.8 19.882464  8.261709        76.44239 0.000
## 2273    18.8 20.263853 15.999087        73.90660 0.037
## 2274    14.6 23.770981  5.888922        77.82031 0.015
## 2275    20.6 13.236475 13.618313        69.97981 0.039
## 2276    10.0 35.380498  8.659283        76.89040 0.031
## 2277     7.8 35.225627  3.811339        79.98266 0.011
## 2278    19.6 26.505261 21.985463        74.16325 0.021
## 2279    14.7 19.080400 11.892995        70.81375 0.027
## 2280    18.9 18.961968  8.312983        74.85366 0.017
## 2281    20.8 26.471875 13.561973        71.89360 0.043
## 2282    22.1 14.654319 10.281765        72.60579 0.025
## 2283     8.7 29.036264  4.432807        79.33846 0.015
## 2285    16.8 27.313955 12.978575        74.89479 0.034
## 2286    23.7 18.834323 11.831757        71.54690 0.021
## 2287    19.0 25.581163 12.013039        74.04489 0.039
## 2288    28.9 13.943109  7.711642        67.69237 0.033
## 2289    20.0 20.381480  8.245682        71.91129 0.027
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## 2290    28.0 18.055055 17.665615        68.86064 0.012
## 2291    13.1 39.046363  4.709637        78.90393 0.019
## 2292    12.7 21.893115 20.463352        74.73803 0.019
## 2293    13.8 34.179747  6.843402        74.30337 0.028
## 2294    12.6 33.873796 11.641989        75.72147 0.029
## 2295    15.1 15.425344 16.318391        78.09975 0.028
## 2296    27.8 12.181917 23.066685        74.07862 0.037
## 2297    13.6 21.853243  7.844960        77.91992 0.016
## 2298    11.3 30.597713  4.586013        79.40927 0.014
## 2299    15.7 19.802971 11.496883        73.75177 0.021
## 2300    15.7 16.983895 19.477155        72.01500 0.003
## 2301    18.4 19.707885 19.558224        72.04686 0.034
## 2302    14.4 19.868327  5.457655        76.90632 0.016
## 2303    21.7 20.876771 15.441583        65.04767 0.038
## 2304    25.5 15.457313 12.779128        71.23056 0.043
## 2305    18.6 20.673886  6.468549        75.51314 0.017
## 2306     8.4 24.086646  9.578572        79.43651 0.018
## 2307     5.8 45.626679  3.741954        79.58096 0.010
## 2308     9.8 21.546308  9.567331        76.04264 0.021
## 2309     6.8 31.883449  5.478839        78.52230 0.011
## 2310     7.7 19.604212  6.147482        78.84926 0.018
## 2311    20.6 40.320435  7.286726        79.36750 0.005
## 2312    28.8 19.988352 14.191987        67.07691 0.042
## 2313     9.4 37.467841 10.439726        77.49191 0.025
## 2314    12.3 19.173231  6.148287        75.47332 0.016
## 2315    18.5 37.060236 12.059055        77.86289 0.021
## 2316    21.6 13.880406 19.529819        72.61479 0.024
## 2317    26.5 15.086569  7.552339        68.79337 0.005
## 2318     6.6 50.269268 14.208073        88.90852 0.016
## 2319    38.7 26.551358 14.497515        68.11080 0.000
## 2320    21.1 14.094668 18.086486        71.50024 0.031
## 2321    10.6 17.591241  5.526283        77.22375 0.008
## 2322    15.5 54.568503  5.536154        82.00335 0.020
## 2323    15.4 20.271853 10.728171        73.54943 0.027
## 2324     4.9 38.231041  4.119929        79.80656 0.005
## 2325    17.5 16.844490  9.949456        74.99797 0.026
## 2326    25.3 35.426465  9.793906        75.80531 0.024
## 2327    17.1 21.334201 14.813588        73.61921 0.037
## 2328    14.9 16.591612 15.852914        74.28953 0.023
## 2329    10.1 32.566185  8.666767        77.83227 0.025
## 2330    24.7 26.237574 10.514781        75.01337 0.021
## 2331    15.5 19.347222 23.427912        75.70350 0.028
## 2332    14.6 21.019381 13.255492        74.65892 0.035
## 2333    16.0 13.698392  6.972705        74.02406 0.041
## 2334    12.8 26.527574  8.427827        74.95592 0.020
## 2335    12.5 20.055208  7.686377        73.63409 0.019
## 2336    17.1 36.597583  7.559128        77.98089 0.013
## 2337    15.9 18.322945  5.999351        72.61728 0.005
## 2338    13.4 27.479448  6.954992        75.00274 0.038
## 2339     7.7 24.310954  8.133061        78.08596 0.009
## 2340    11.5 20.766228 16.349011        74.08470 0.014
## 2341    13.1 22.158023 18.889457        76.63028 0.020
## 2342     9.4 26.493158  7.497714        78.16292 0.024
## 2343    10.0 37.800586 18.658128        80.64824 0.029
```

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## 2344    15.1 23.346154 12.930671        74.64277 0.063
## 2345     7.7 38.721844  7.217916        79.60780 0.030
## 2346     6.1 45.599733  8.454614        79.57264 0.008
## 2347     8.8 10.954344 28.895380        78.24971 0.007
## 2348    20.2 25.871468  8.954349        74.31570 0.042
## 2349     9.1 25.497869  5.507175        77.27886 0.026
## 2350     8.8 22.319948  5.345518        79.38186 0.011
## 2351    14.9 14.923560  6.805892        73.94461 0.016
## 2352    12.8 15.579030 12.819978        73.37657 0.028
## 2353    14.9 16.896052  8.056197        76.12114 0.019
## 2354     8.5 20.755733  6.501407        77.23189 0.010
## 2355     9.8 25.669418 11.964002        78.70180 0.002
## 2356    10.1 19.353421  6.415094        77.74284 0.015
## 2357     6.6 39.453069 12.619733        79.60062 0.012
## 2358    10.8 35.658369  5.970744        78.87022 0.021
## 2359     5.4 39.102290  4.981363        78.87348 0.007
## 2360    15.4 20.057063  7.152585        76.15439 0.019
## 2361    14.3 34.485292  5.400712        79.73406 0.024
## 2362    17.3 29.193912 12.196607        74.34862 0.031
## 2363     9.3 24.765907  7.582302        79.35733 0.010
## 2364    17.0 17.913118  7.338716        72.62695 0.017
## 2365    10.7 27.135567 12.290384        78.82499 0.006
## 2366    12.6 21.224073  8.397889        75.77654 0.014
## 2367    11.2 19.418090  8.360172        75.57942 0.026
## 2368    11.6 30.306233 11.023560        78.62265 0.017
## 2369    15.4 17.896407  7.141563        75.60820 0.027
## 2370    12.1 15.603076 10.391425        73.90445 0.019
## 2371    10.8 21.113306 12.683966        77.21409 0.032
## 2372     8.7 43.472296  4.203755        81.01738 0.009
## 2373    11.9 40.301318  2.799427        79.66337 0.015
## 2374    10.5 23.944468  6.063679        77.01295 0.027
## 2375    13.7 15.038482  8.968779        73.93784 0.012
## 2376    20.8 19.029117 18.150159        70.81975 0.035
## 2377     8.0 18.837662  7.571033        76.93672 0.014
## 2378     7.8 27.180993 11.193871        77.96564 0.006
## 2379     9.3 22.351102  7.595358        76.13181 0.021
## 2380    17.2 16.785291 10.980710        72.05273 0.021
## 2381     9.3 28.128463  6.340100        78.70717 0.015
## 2382    10.3 29.698952  6.362153        79.84944 0.015
## 2383    14.0 18.405854  7.399227        76.49325 0.015
## 2384    14.4 26.340477 12.129634        73.27910 0.031
## 2385    10.3 19.105330  7.577534        75.22328 0.024
## 2386    14.9 53.337522  5.363449        81.83609 0.017
## 2387    16.5 26.918558  8.049896        76.13592 0.017
## 2388    11.8 14.210382  6.752256        76.29768 0.006
## 2390    20.6 17.195150 10.060960        70.41116 0.060
## 2391    17.0 16.614835  8.014180        78.02491 0.012
## 2392     5.3 42.364273  5.937339        78.32563 0.013
## 2393     8.8 38.794968  7.331200        80.14257 0.016
## 2394    11.7 26.738213  7.671283        75.95628 0.029
## 2395    13.9 21.209130  7.927039        77.57312 0.017
## 2396    14.8 22.071386 17.224085        73.17661 0.035
## 2398    12.1 20.192002  6.512631        76.65021 0.022
## 2399    15.1 15.778105  9.122081        73.42320 0.013
```

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## 2400    11.4 19.485165  6.988060        76.24040 0.016
## 2401    14.1 31.052895 12.002338        74.19870 0.040
## 2402    11.5 24.417042 25.122680        75.52448 0.016
## 2403    11.2 16.347751  8.099403        76.49357 0.009
## 2404     9.1 30.516160  7.020066        78.40053 0.013
## 2405     8.6 39.102891  8.387007        78.64245 0.012
## 2406    11.5 21.229668  5.797164        77.45661 0.010
## 2407    16.9 20.657277 13.490148        73.10364 0.027
## 2408     9.1 23.665523  6.495712        78.06448 0.013
## 2409    11.8 21.863001 12.650789        81.12742 0.020
## 2410    17.7 49.120379  8.615542        78.45469 0.032
## 2411    12.9 26.596010 16.663042        75.33325 0.043
## 2412    18.1 19.375146  5.913891        72.49907 0.025
## 2413     9.1 37.661738 10.846237        77.64915 0.017
## 2414    15.7 20.400404 15.879656        73.15784 0.014
## 2415    19.4 13.839850  8.078451        66.72500 0.018
## 2416     7.4 35.376014  4.479589        78.28205 0.019
## 2417    19.4 33.866058 12.593299        76.01270 0.034
## 2418    11.2 23.765177 11.158998        77.14534 0.018
## 2420    10.6 29.242267  7.837528        78.82395 0.018
## 2421    10.0 36.420578  7.037930        77.18863 0.028
## 2422    17.0 17.942147 11.154719        73.99107 0.043
## 2423    16.5 19.821514 11.892950        73.00495 0.040
## 2424    12.4 15.503929  8.686584        73.86542 0.027
## 2425     5.7 34.196590  6.626081        77.86346 0.012
## 2426    15.5 25.146818 15.321658        74.56508 0.046
## 2427    14.1 22.616274  5.442940        78.05302 0.018
## 2428    12.4 37.272206  4.578277        78.26990 0.023
## 2429    13.0 24.187267  6.162826        78.00479 0.010
## 2430    19.3 15.631885 24.221617        73.05607 0.031
## 2431     9.7 36.520085  4.828202        79.56216 0.003
## 2432    10.4 20.611946  6.963289        75.61609 0.026
## 2433    15.5 17.630138 16.141769        73.69497 0.016
## 2434     8.6 47.005374  4.065685        79.08777 0.018
## 2435    12.4 27.925008  7.770329        75.31289 0.024
## 2436    15.9 20.895400  7.932054        74.08994 0.014
## 2437     6.3 38.724295 10.574404        80.00642 0.007
## 2438    10.7 17.554926  7.509900        74.56998 0.026
## 2439    10.8 27.630389 12.927288        76.59756 0.017
## 2440    19.9 31.804318  6.633499        77.31119 0.019
## 2441    14.8 17.679612 11.432819        72.42821 0.026
## 2442     9.4 30.073664  5.134038        82.03694 0.039
## 2443    17.1 40.064173  8.881699        78.34256 0.026
## 2444     9.8 26.000422  5.324132        77.43842 0.018
## 2445    13.5 22.064225  9.265545        76.00711 0.014
## 2446    13.9 19.401278 15.139856        74.48812 0.031
## 2447    14.8 20.630336  7.550523        75.58773 0.011
## 2448    16.3 33.524448 11.920968        74.31984 0.028
## 2449     8.1 34.637335  8.413891        79.95032 0.019
## 2450    12.3 14.523980 11.603329        79.50742 0.018
## 2451    27.7 14.559300 16.868213        69.33240 0.044
## 2452    18.2 17.682091  8.906626        71.14017 0.022
## 2453     8.1 30.979876 11.929982        76.76087 0.011
## 2454     9.8 21.423580  5.964688        77.34426 0.019
```

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## 2455    18.9 21.291584 13.164475       74.18175 0.059
## 2456     8.3 24.256313  5.727133       78.13957 0.010
## 2457    15.5 25.902353 10.203791       74.62919 0.029
## 2458    23.6 15.876897 14.726674       70.33121 0.020
## 2459    12.5 38.260080  3.114079       77.33464 0.022
## 2460    17.5 16.002406 12.416946       68.37513 0.038
## 2461    11.5 20.898711 14.829185       77.04108 0.016
## 2462     8.7 32.052278 15.728752       77.06001 0.039
## 2463    13.8 27.319056  8.876807       76.06748 0.037
## 2464    10.1 42.354490  5.144088       78.55954 0.020
## 2465     4.8 50.364593  4.054017       81.27308 0.009
## 2466    11.3 23.345594 22.812165       77.35583 0.020
## 2467     7.0 34.235286  4.415353       80.09475 0.009
## 2468    10.1 39.175981  8.951843       78.26843 0.014
## 2469    11.6 34.055278 12.334128       76.42944 0.036
## 2470    16.0 15.550277 13.829075       71.51023 0.016
## 2471    11.3 30.761603  6.842364       77.17917 0.021
## 2472    14.7 25.839273  7.802494       74.35908 0.013
## 2473    25.0 13.426355  9.805326       71.51463 0.033
## 2474     8.3 31.983984  5.774669       80.33367 0.012
## 2475    12.1 36.082580  5.189953       79.14293 0.029
## 2476    13.3 15.983338  7.180954       75.90598 0.013
## 2477    11.9 24.933452 13.472787       74.93712 0.029
## 2478     7.6 22.156246  7.259953       78.01485 0.005
## 2479    17.3 27.144319  7.783888       76.45309 0.018
## 2480    12.5 24.842115  9.798789       78.59228 0.007
## 2481    21.2 15.177271 21.743165       72.20112 0.052
## 2482    11.4 24.345291  8.296382       77.04583 0.021
## 2483     7.9 28.694542 11.141222       75.71701 0.018
## 2484    17.5 23.158455 11.179735       72.69794 0.040
## 2485    12.7 34.818746  8.656787       77.33120 0.011
## 2486    19.7 20.667559  8.569397       69.86977 0.023
## 2487     8.4 18.906429  5.352387       76.87273 0.019
## 2488     8.7 36.525068  6.665537       79.53849 0.028
## 2489     9.4 25.461469  7.977622       73.81894 0.031
## 2490    17.1 20.470533 17.949060       74.02773 0.004
## 2491    13.6 22.779502  6.924462       74.72709 0.018
## 2492    10.3 39.454982  4.835809       77.14314 0.020
## 2493    23.5 16.568462 14.311143       68.19670 0.008
## 2494    13.1 23.467812  7.997537       78.97851 0.019
## 2495     7.5 24.445624  6.070879       79.74591 0.011
## 2496    19.9 26.555556 14.049303       72.25658 0.014
## 2498    13.5 16.482337 11.599983       76.24487 0.024
## 2499    13.5 25.254506 22.066906       71.20927 0.028
## 2500    11.6 23.540014  6.497416       76.00348 0.048
## 2501    10.7 28.473354  7.012348       77.63224 0.032
## 2502    12.8 20.702694  8.304772       75.99725 0.013
## 2503    10.2 18.989679  5.785986       78.63191 0.006
## 2504     9.8 29.941744 10.712622       77.20923 0.024
## 2505    11.6 21.256981  8.236419       74.34514 0.026
## 2506    16.8 30.586797  5.312255       77.17794 0.027
## 2507    13.7 16.377803 15.752937       74.53267 0.017
## 2508    15.3 18.718611  8.022928       74.55929 0.011
## 2509    23.6 21.698171 13.396526       71.62580 0.038
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## 2510    13.2 16.944640  8.759185        74.64876 0.015
## 2511    12.1 44.766828 11.135247        78.07725 0.034
## 2512     9.3 28.499604  8.402889        75.93794 0.030
## 2513    20.2 21.332229 24.487196        75.23448 0.023
## 2514    12.8 24.799030  6.531096        76.50310 0.018
## 2515    35.5 20.534571 14.461592        67.44194 0.058
## 2516    16.1 20.556689  7.867745        72.56971 0.022
## 2517    11.8 28.041329 15.870757        74.54738 0.040
## 2518     9.8 20.561413  9.003825        75.80925 0.005
## 2519    18.2 21.626878  7.211889        69.96092 0.037
## 2520    13.6 20.145117  6.056549        74.84401 0.013
## 2521    21.0 14.827829 20.908352        72.07024 0.027
## 2522     7.4 32.572584 11.638915        77.76045 0.015
## 2523    16.5 17.992813  9.604736        76.59131 0.025
## 2524    16.3 19.019415  5.831968        76.06477 0.015
## 2525    15.1 17.621114  8.963961        75.49328 0.026
## 2526    16.2 25.241515  6.273001        75.45233 0.033
## 2527    12.1 36.349286  4.900714        79.51841 0.012
## 2528    26.9 19.811402  6.724372        69.95359 0.012
## 2529    12.4 51.120090  2.478495        80.27633 0.017
## 2530    26.4 23.238269 16.481709        71.41195 0.062
## 2531     5.6 23.988797  4.373817        79.30586 0.011
## 2532    21.8 16.521839  7.899371        72.98978 0.014
## 2533    19.8 32.448349  7.961287        70.43417 0.044
## 2534     9.8 33.696643  5.864906        79.80210 0.012
## 2535    11.0 36.227288  5.172004        77.99397 0.039
## 2536    12.7 21.732208  6.570842        76.69660 0.020
## 2537    12.8 21.403098  6.028908        75.25193 0.023
## 2539    17.8 17.335566 24.443950        71.07169 0.053
## 2540    14.5 22.498825  8.298219        76.67597 0.020
## 2541    10.3 28.404612  6.013753        75.57808 0.015
## 2542    12.1 28.736878 10.589173        76.16582 0.040
## 2543    19.7 15.457794 10.897214        75.90422 0.030
## 2544    14.7 18.202731  6.987265        74.78269 0.016
## 2545    23.7 42.537213 18.197509        79.20057 0.026
## 2546    11.5 23.521339  6.806921        75.05352 0.024
## 2547     7.7 23.743663 11.993837        78.01579 0.027
## 2548    24.3 20.641171  8.699061        70.95151 0.066
## 2549    19.0 22.228371  9.746388        72.99086 0.049
## 2550    10.0 22.282169  8.331008        77.76913 0.012
## 2551     9.7 26.789286 11.349929        75.84492 0.022
## 2552     9.0 34.296542  3.966462        78.28009 0.015
## 2553    16.5 17.105793  7.171463        73.16906 0.043
## 2554     6.5 26.299322  6.418338        79.53092 0.005
## 2555    12.9 44.624845 12.576389        77.80774 0.026
## 2556     9.0 35.315413  7.276779        79.25332 0.016
## 2557    13.2 17.006681  8.244307        75.67509 0.034
## 2558     8.6 28.761089  7.055037        80.68408 0.010
## 2559    10.8 19.943081 10.604832        73.58728 0.022
## 2560    14.2 26.021210  5.674595        77.07608 0.017
## 2561     7.3 39.482784  5.124932        78.05639 0.015
## 2562    16.0 18.946672  7.225827        75.31174 0.028
## 2563    10.7 27.986119  7.040167        76.46525 0.021
## 2564    12.1 16.548415  6.819785        75.62834 0.009
```

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## 2565    19.4 25.690478  8.378215        73.14856 0.033
## 2566    17.2 18.012761 22.517958        73.35072 0.028
## 2567    13.7 26.820872  5.306047        78.68047 0.018
## 2568    18.3 32.663396  9.292773        74.00562 0.051
## 2569    12.9 33.196941  9.543154        75.78981 0.038
## 2570    16.3 20.295940  7.205629        75.48837 0.027
## 2571    13.8 27.163515  4.490389        76.15125 0.029
## 2572    11.8 33.534529  4.216192        76.93868 0.014
## 2573    10.6 27.369372  6.123587        79.61972 0.015
## 2574    15.7 29.095909  7.605790        74.63336 0.036
## 2575    13.0 20.050472  8.992596        73.81440 0.026
## 2576     7.4 40.263932  5.442168        79.14959 0.012
## 2577     5.1 58.069746  8.398611        84.82655 0.020
## 2578     9.2 32.570540  8.544526        76.26014 0.023
## 2579    16.9 18.577835  8.574273        71.04285 0.019
## 2580    11.9 30.205853  9.142310        75.99670 0.028
## 2581     7.0 28.849913  9.612499        77.64165 0.024
## 2582    17.3 20.809564 12.593141        74.76338 0.043
## 2583    12.2 26.957138  5.838086        77.18547 0.027
## 2584     8.2 31.581848 16.869151        77.20708 0.011
## 2585     7.9 25.678378  6.176293        78.37618 0.014
## 2586    14.1 19.934220  8.209296        75.24758 0.040
## 2587    11.9 21.780193  8.208047        78.33506 0.017
## 2588    20.7 35.052195  7.854568        76.10355 0.037
## 2589    20.1 24.910541 10.551601        74.25694 0.014
## 2590    13.3 20.310489  8.290410        75.33906 0.020
## 2591    10.1 34.221325 13.919293        76.49089 0.026
## 2592    16.7 25.097428  5.517048        76.73470 0.026
## 2593     9.0 24.140466  6.381305        78.81288 0.012
## 2594    16.1 27.766622  9.344889        75.06404 0.040
## 2595     9.2 33.331336 11.740797        76.91421 0.023
## 2596    11.2 33.108050 11.341416        76.73173 0.027
## 2597    17.6 17.743946  8.253678        74.63447 0.031
## 2598     8.9 37.678901 11.465244        77.09381 0.064
## 2599     8.5 26.712386  9.986692        77.86219 0.019
## 2600     9.1 33.408894 15.650562        80.15801 0.019
## 2601    14.5 11.237589 23.238133        72.92422 0.020
## 2602     9.8 32.786677 12.110147        77.38344 0.008
## 2603    13.0 23.440359  7.131614        75.51059 0.018
## 2604    10.9 23.733260 19.439817        74.77156 0.020
## 2605    18.9 18.930380  6.677572        73.38517 0.024
## 2606    12.5 24.394341 11.752377        74.60137 0.022
## 2607     8.6 19.922009  5.805840        77.18482 0.012
## 2608    18.8 23.646395 11.503387        71.29251 0.048
## 2609     5.4 39.971987  5.726402        78.37852 0.009
## 2610    13.5 28.749096 13.997707        72.39368 0.009
## 2611     9.2 22.610841  5.612476        78.59481 0.015
## 2612     9.6 38.112302 10.060167        76.81862 0.023
## 2613     9.9 37.175424  6.778488        79.25253 0.029
## 2614    14.4 25.892742  8.196564        73.83225 0.011
## 2615    23.4 16.010320  7.565578        70.33849 0.011
## 2616    13.2 27.741018 21.184092        75.88311 0.030
## 2617     6.0 34.788414  4.810795        79.85634 0.013
## 2618     9.9 41.911597  4.462345        78.99498 0.010
```

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## 2619    16.8 27.457267  6.083904        76.49761 0.024
## 2620    11.4 45.893990  8.964768        78.89696 0.038
## 2621    17.1 46.496724  6.857811        81.56695 0.012
## 2622     8.2 23.952405  9.115617        77.94687 0.016
## 2623     8.2 39.562942  6.074709        79.60311 0.011
## 2624     9.4 19.804328  6.489751        76.02481 0.013
## 2625    14.2 33.359393  8.256101        75.76279 0.026
## 2626    13.3 29.009935 18.864804        73.78384 0.034
## 2627    11.4 21.418259  7.751877        77.19245 0.012
## 2628    14.0 20.722273 13.508794        74.34523 0.022
## 2629    10.0 32.797637 10.997067        76.73831 0.018
## 2630    14.2 20.774516  7.814913        76.36571 0.026
## 2631     9.9 41.286985  6.573598        77.54836 0.024
## 2632     8.1 30.922779 14.845291        78.41151 0.018
## 2633    16.7 23.984324 14.293835        76.79927 0.016
## 2634    14.1 19.687021 20.393124        75.65471 0.035
## 2635     9.8 16.483175  8.771418        75.84369 0.009
## 2636    16.1 30.135799  6.516542        76.29618 0.018
## 2637    13.7 22.945228  6.972967        73.54700 0.033
## 2638     6.4 39.741109  4.661487        78.25358 0.013
## 2639    17.1 23.083616  7.449139        74.25328 0.024
## 2640     9.9 33.922314  9.604624        76.32550 0.039
## 2641     7.3 27.897868  6.058126        78.66164 0.019
## 2642    10.3 28.036619 11.880911        76.01889 0.024
## 2643    12.6 25.075909  6.946463        75.04818 0.020
## 2644    14.9 30.087805  8.713818        78.94419 0.034
## 2645     9.2 28.315942 11.363016        74.76080 0.022
## 2646     9.0 17.537644 11.245510        76.56934 0.020
## 2647     9.3 38.494875  6.222864        77.65885 0.020
## 2648    10.6 37.600241  5.824984        76.07537 0.019
## 2649    17.9 17.123159  8.115051        73.30519 0.021
## 2650    14.4 24.084358  6.999342        75.44936 0.016
## 2651    11.1 18.471135  6.917215        76.10495 0.016
## 2652    18.5 18.828302 13.119931        70.87885 0.022
## 2653    14.2 18.452405 21.561520        73.17188 0.018
## 2654    31.4 17.007096 10.756436        69.27831 0.065
## 2655    13.5 25.968111 12.370863        73.76649 0.026
## 2656    11.1 20.787208 11.859171        75.65337 0.015
## 2657    14.4 51.004340 10.982839        78.69139 0.026
## 2658     6.0 51.626408  4.273495        82.05458 0.013
## 2659     6.8 23.201708  8.982295        77.19473 0.027
## 2660    13.7 20.150599  9.243849        76.21993 0.028
## 2661    12.3 16.731044  8.507765        75.02802 0.018
## 2662     8.4 35.783020  5.412889        77.03517 0.019
## 2663     9.6 24.341388  5.780181        77.71857 0.015
## 2664    13.1 36.637333 15.695021        80.68238 0.018
## 2665    15.2 36.753915 14.163241        76.30267 0.040
## 2666    17.3 20.324215  8.746073        74.17798 0.031
## 2667    14.0 22.204048  6.561802        74.35399 0.039
## 2668    13.7 24.562427  7.994808        77.93368 0.014
## 2669     7.4 28.601322 18.912352        77.09602 0.014
## 2670     8.7 23.952162  8.000604        77.73964 0.015
## 2671    12.0 17.285007  8.265438        76.14645 0.012
## 2672     5.7 39.388245  4.345344        80.05641 0.010
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## 2673    22.8 15.327176 27.874902       73.75411 0.022
## 2674    15.2 18.535856  8.312583       72.94319 0.043
## 2675     8.0 39.725613  5.009028       79.67880 0.014
## 2676     9.1 22.386651  7.735630       80.42276 0.010
## 2677    11.7 17.125545  9.022006       75.15966 0.019
## 2678     5.1 56.603047  9.717827       81.30234 0.007
## 2679     7.8 36.607533 11.528628       78.50195 0.019
## 2680    14.3 17.620384  6.615398       76.93250 0.010
## 2681    11.8 17.639066  6.349074       75.31358 0.012
## 2682    12.7 32.242337  5.353922       79.17866 0.018
## 2683    11.7 33.395045  9.051651       77.31961 0.022
## 2684    17.2 17.241228 20.665278       73.99487 0.031
## 2685    12.2 21.438839 16.753499       73.97548 0.033
## 2686    17.3 14.591322 13.461474       75.02293 0.018
## 2687    14.0 28.929787 14.312475       73.05720 0.038
## 2688     9.5 39.657696 14.765005       80.28235 0.020
## 2689     8.9 32.625587 10.563183       76.23453 0.015
## 2690    15.3 15.983763 12.743913       72.59247 0.027
## 2691    16.5 30.904404  5.127352       80.16239 0.026
## 2692    16.0 17.289683  7.008904       73.36796 0.031
## 2693    17.8 15.970845 10.850107       74.24660 0.008
## 2694     9.9 26.272169 16.900353       77.20474 0.011
## 2695    14.7 22.882807  8.749467       76.10621 0.021
## 2696    13.4 24.898858 13.646442       73.79163 0.030
## 2697    15.0 22.375784 16.463613       74.35814 0.023
## 2698     4.9 41.868253  5.580860       80.24310 0.013
## 2699    14.2 19.120554  6.866917       74.58345 0.019
## 2700    20.7 29.738295 13.672551       72.28674 0.054
## 2701     6.4 44.882634  6.088604       79.94702 0.013
## 2702     7.2 33.314611  7.571822       76.87206 0.029
## 2703    13.5 26.414672 13.159193       73.73757 0.051
## 2704     6.8 24.223408  4.950824       76.68605 0.014
## 2705    14.2 32.624372  8.782394       75.48352 0.038
## 2706    13.9 23.259549  6.791013       76.35622 0.025
## 2707    15.3 20.207452  8.705942       77.54549 0.031
## 2708    14.3 15.531716  6.083955       75.30180 0.014
## 2709    18.6 17.951034  8.008775       69.69560 0.034
## 2710    10.5 23.003796 13.429604       76.58485 0.018
## 2711    13.3 18.022370  6.092756       77.84043 0.012
## 2712     9.8 33.767661  6.218361       79.33991 0.016
## 2713    17.1 32.289323  8.646542       75.08917 0.033
## 2714    10.6 29.732306  7.397858       76.89817 0.022
## 2715     9.8 22.958443 11.729870       75.48045 0.027
## 2716    14.9 21.924221  5.475149       76.83686 0.020
## 2717     8.4 46.198526  7.961986       79.55789 0.016
## 2718     9.7 43.284921  7.980520       79.15107 0.027
## 2719    10.7 26.782512 14.624706       77.42930 0.018
## 2720     9.2 24.041405  7.153722       77.75591 0.009
## 2721    17.9 41.333333 11.730116       77.15683 0.028
## 2722    15.4 18.373191  7.120920       74.96561 0.034
## 2723     9.1 34.388547  9.794784       76.17079 0.025
## 2724     7.8 55.798223  3.976930       81.29836 0.022
## 2725    12.2 19.489416  5.547986       76.55211 0.016
## 2726    15.5 19.086538 12.143578       72.94815 0.019
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## 2727    15.2 42.119620  5.151652        80.96486 0.010
## 2729    16.5 21.326410 14.603878        72.59788 0.030
## 2730    15.0 18.843192  7.651781        75.03025 0.035
## 2731     8.9 27.319025  5.700093        78.30775 0.016
## 2732    12.9 45.153502  4.735044        78.74666 0.028
## 2733    11.7 19.731802 13.253727        77.02573 0.022
## 2734     5.6 64.475392  4.454442        82.52935 0.019
## 2735    10.3 31.042220  5.398777        78.42640 0.018
## 2736     5.3 43.077461  4.142272        81.57204 0.014
## 2737    21.7 19.362034 13.024322        70.98087 0.039
## 2738    15.7 47.310324  7.793132        77.37980 0.047
## 2739     4.8 56.499703  4.587736        82.86618 0.006
## 2740    10.5 32.317227  7.279143        78.16169 0.014
## 2741     9.8 37.364549  5.824548        77.68110 0.014
## 2742    11.0 26.731726 20.860850        77.66566 0.048
## 2743    12.1 22.373820  9.040764        76.64969 0.014
## 2744    16.0 25.471832 14.437498        73.08445 0.045
## 2745     9.9 36.034145 10.843989        77.68209 0.030
## 2746     9.6 25.297211 19.006450        74.78579 0.012
## 2747     9.6 24.923509  7.106857        76.44099 0.021
## 2748    13.0 18.776992  6.812350        75.86523 0.016
## 2749     8.4 39.027426 10.251583        78.94311 0.020
## 2750     5.6 39.584177  5.869990        78.76611 0.013
## 2751    11.2 25.734156  7.002474        77.10966 0.024
## 2752    13.5 26.617557 11.388751        73.45021 0.033
## 2753    19.0 24.640043  5.657428        77.62893 0.016
## 2754    12.9 34.289624  6.841196        77.25320 0.022
## 2755    18.4 15.266559 22.010214        74.98741 0.028
## 2756    10.4 25.369705 15.525611        78.73183 0.018
## 2757    10.0 48.850645 10.945094        75.47067 0.012
## 2758    11.9 31.161307  9.938171        75.94516 0.029
## 2759    13.2 22.991992  5.806551        74.92058 0.016
## 2760    10.4 28.295205  5.336606        75.88768 0.021
## 2761     6.9 42.663147  7.648517        77.98043 0.019
## 2762    15.1 33.715839 16.960322        75.15393 0.051
## 2763    28.8 13.297018 28.997280        74.29681 0.014
## 2764     5.5 57.350992  5.337081        81.83558 0.011
## 2765    11.9 36.565437  8.046701        76.87956 0.015
## 2766    20.1 18.200005 14.867718        72.93632 0.044
## 2767     9.3 38.638740  4.695147        77.88230 0.012
## 2768    10.1 30.406084  5.395865        77.58824 0.017
## 2769    13.8 14.886569  7.315443        76.14443 0.017
## 2770    13.5 34.614289 12.839774        77.14534 0.023
## 2771    14.0 25.737327 12.369799        74.30547 0.030
## 2773     9.7 29.134936  8.805112        79.12700 0.035
## 2774    20.1 20.545105 13.217086        71.69408 0.041
## 2775     9.3 30.080825  6.263314        77.45410 0.011
## 2776     7.1 42.214068 14.821764        78.33328 0.014
## 2777     8.8 53.142171  8.038684        82.03486 0.019
## 2778    22.1 25.987132 15.711398        71.37937 0.058
## 2779    10.9 30.943330 18.517106        76.46493 0.027
## 2780    17.0 15.277333 16.631569        73.12504 0.042
## 2781    23.2 14.329862 10.339701        70.04763 0.042
## 2782     7.2 43.766169  4.078334        80.72749 0.012
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## 2783    12.9 38.086014  8.008011        80.02846 0.031
## 2784     6.9 36.079370  5.334769        78.82964 0.007
## 2785     9.7 32.433339  6.981105        78.97239 0.018
## 2786    17.0 16.823850 11.462054        71.09071 0.042
## 2787    12.0 23.240455 13.853435        73.15098 0.030
## 2788    15.7 16.035328  9.268065        74.45279 0.006
## 2789    16.5 22.768157 12.436318        74.09319 0.038
## 2790    10.6 53.542611 12.502174        79.39446 0.036
## 2791    12.2 44.165446 12.593104        79.72243 0.031
## 2792    12.9 36.964969 11.845210        75.97358 0.042
## 2793     5.7 28.125239  4.471207        79.39722 0.014
## 2794     4.6 50.477985  3.081125        82.50590 0.009
## 2795    13.1 35.775538  4.940640        79.18266 0.020
## 2796    11.5 20.382698  7.842833        75.40782 0.025
## 2797     8.9 38.517125  7.910884        81.35300 0.023
## 2798    20.1 24.069519 17.936587        79.60163 0.016
## 2799    12.6 30.583521  7.922815        77.91098 0.045
## 2800    10.9 39.460033  6.317896        79.97787 0.020
## 2801     9.8 41.877442 16.392843        79.81520 0.016
## 2802     9.6 27.271974  6.680774        79.13891 0.014
## 2803     7.8 36.005562  8.763019        78.50192 0.011
## 2804     8.1 34.570620  6.763089        78.86615 0.017
## 2805     7.1 77.109227  5.043314        84.71797 0.017
## 2806    10.1 30.527612  6.705645        77.46207 0.016
## 2807    12.8 20.415929 12.369498        79.42026 0.021
## 2808     8.7 43.365906  7.756742        81.22606 0.021
## 2809    17.7 18.847189 16.008690        70.71799 0.040
## 2810     4.1 64.013746  5.841920        84.14753 0.009
## 2811     4.9 61.835700  5.808719        81.25681 0.010
## 2812     9.4 44.837467  6.629438        80.29454 0.017
## 2813    11.9 27.184961 15.946659        75.29582 0.032
## 2814    14.4 17.881392  9.352571        74.67253 0.038
## 2815     8.4 31.908762  7.236793        76.72331 0.025
## 2816    12.9 31.521102  7.683653        76.96216 0.016
## 2817    10.7 40.424480  9.740054        80.70580 0.011
## 2818    11.9 30.627177 11.034822        76.99411 0.032
## 2819    10.2 30.220258 12.022595        79.74391 0.024
## 2820    19.6 17.476919 13.138784        71.22959 0.043
## 2821    12.5 32.670148  7.449516        77.81304 0.025
## 2822    10.6 22.273211  6.196347        76.65214 0.013
## 2823    10.5 45.690291  9.329785        76.65173 0.037
## 2824     9.9 34.832996  4.663596        79.18591 0.031
## 2825     8.7 40.415478  7.044518        79.19502 0.023
## 2826     9.3 28.759579  9.429867        78.50893 0.022
## 2827    17.6 48.582541 11.267150        77.51468 0.055
## 2828    13.6 30.249213  7.444442        76.90852 0.028
## 2829     7.7 38.079813  6.367193        79.37251 0.013
## 2830    17.6 24.705298  8.578199        73.34337 0.049
## 2831    13.9 24.923686  9.741159        77.24768 0.023
## 2832    10.3 33.539886 13.595493        76.25316 0.028
## 2833    19.5 16.232939  6.547217        73.21004 0.047
## 2834    16.9 34.857046  9.070997        76.49197 0.040
## 2835    14.1 20.280003  8.570191        74.80513 0.029
## 2836    18.5 47.669934 12.423710        77.88282 0.033
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## 2837     6.1 48.610002  9.672330        81.12559 0.014
## 2838     7.6 36.246830  5.259262        79.33373 0.009
## 2839    15.7 24.126571  6.231612        75.23033 0.034
## 2840     9.5 32.785181  5.084150        76.08604 0.017
## 2841    12.1 33.378351  8.184787        78.39345 0.022
## 2842    11.7 16.647463 25.256121        72.42634 0.046
## 2843     6.3 45.240294  5.475018        78.86405 0.026
## 2844    14.0 21.445692  5.727613        75.61156 0.034
## 2845    22.2 24.060322 15.265506        72.11525 0.048
## 2846     9.9 23.541655 19.386567        75.64047 0.015
## 2847     9.2 24.715299 14.224897        76.40593 0.015
## 2848     6.7 44.477574  9.604790        81.00060 0.013
## 2849    19.9 22.419165  9.655427        71.22906 0.066
## 2850    17.6 44.071693  9.105937        75.01090 0.044
## 2851    16.4 24.985029  7.804673        75.03326 0.020
## 2852    13.0 31.134840  9.769788        76.01937 0.029
## 2853     8.9 31.392010  7.647008        76.74121 0.020
## 2854     5.1 36.444644  6.052621        80.58942 0.011
## 2855    14.8 36.872521 12.928178        76.66839 0.045
## 2856    11.5 30.893207  7.322652        76.78388 0.019
## 2857     5.5 42.397779  6.216464        79.29056 0.015
## 2858    12.6 30.476242  7.935046        76.07374 0.020
## 2859    10.5 28.036983 14.358879        76.42473 0.020
## 2860     8.0 48.524478  4.134706        81.82017 0.018
## 2861    14.5 29.627087  6.199451        76.60100 0.022
## 2862    11.7 20.325740  6.035639        75.13439 0.017
## 2863     9.2 42.384891 12.438976        79.52346 0.025
## 2864    10.4 34.343975 16.468107        80.03319 0.022
## 2865    16.7 32.085138  7.404755        76.44178 0.035
## 2866    11.3 23.409284  4.760541        76.61503 0.016
## 2867    11.2 32.975266  8.542074        78.79213 0.023
## 2868     9.7 34.565453 10.944287        76.95835 0.030
## 2869     5.9 45.686895  5.175833        78.41793 0.012
## 2870     5.6 39.200475  4.072435        80.00811 0.009
## 2871     9.9 26.066277  6.241592        77.63943 0.014
## 2872    14.1 32.427877 11.849494        75.63429 0.062
## 2873     8.8 50.382749 13.277213        79.50144 0.026
## 2874    11.5 27.178031 15.403075        76.04238 0.027
## 2875     5.0 58.036642  4.350956        81.17704 0.013
## 2876    13.2 23.266686  7.419280        74.88270 0.038
## 2877    13.4 19.591837 10.559722        75.33568 0.010
## 2878    16.0 35.094767 16.380423        74.43929 0.040
## 2879    14.8 24.063986  8.436873        76.76681 0.031
## 2880    10.3 28.367041  5.723879        79.43889 0.031
## 2881    15.7 27.750222  5.257027        76.55655 0.023
## 2882    13.8 40.161517 10.334779        74.88375 0.035
## 2883    12.8 48.618307  6.858287        78.50973 0.054
## 2884    13.6 38.134168  4.785656        78.07666 0.024
## 2885    10.2 32.213525  9.809111        76.71116 0.019
## 2886     9.2 23.615406  9.711811        75.25038 0.019
## 2887     7.0 38.824102  4.823277        81.12715 0.018
## 2888     6.3 31.983654  5.225802        78.99873 0.015
## 2889    19.5 26.360600  7.329717        74.13124 0.029
## 2890    13.5 25.017439  8.905250        73.57088 0.059
```

```
## 2891    19.9 31.720564  7.487839        76.55300 0.040
## 2892    19.9 16.646082 14.865408        71.30808 0.036
## 2893    15.3 44.083851  6.640346        80.64389 0.027
## 2894     4.8 61.834416  5.099014        80.99885 0.006
## 2895    14.7 33.432876  7.601336        77.85123 0.035
## 2896    13.7 22.989027  6.147257        75.35367 0.027
## 2897    13.6 31.585494 12.496982        75.49078 0.052
## 2898    29.3 10.391906 15.969842        69.78755 0.020
## 2899    11.5 34.258259 16.081120        76.46175 0.027
## 2900    23.1 41.951480  8.584959        74.54424 0.055
## 2901    11.0 27.895332  7.164820        76.55865 0.013
## 2902     9.7 29.280839  6.684536        76.09274 0.015
## 2903    10.5 39.541416 17.494249        84.69536 0.014
## 2904    11.0 46.873936  6.218708        78.96105 0.019
## 2905    11.3 40.032258 12.181502        76.83446 0.031
## 2906    15.6 29.274427  6.788262        71.45617 0.052
## 2907    16.2 41.252944  6.043240        76.09048 0.030
## 2908    10.8 41.074533  7.154758        79.57970 0.031
## 2909    19.2 31.377681  9.907954        74.85537 0.031
## 2910     8.7 60.459166  4.817616        84.70388 0.021
## 2911    11.0 28.588073  5.473235        80.47216 0.026
## 2912    17.5 13.919096  7.615826        77.32868 0.025
## 2913    10.6 33.287575 13.046135        80.74576 0.015
## 2914    17.3 21.342848 16.699305        74.39925 0.046
## 2915    10.9 39.221113  5.934999        77.44181 0.034
## 2916    13.0 40.843255  5.143720        77.66811 0.035
## 2917    11.5 39.545523  5.412304        77.54806 0.031
## 2918    16.2 46.557089  6.472448        79.14600 0.034
## 2919     8.5 27.210760  6.266777        77.68888 0.018
## 2920    11.4 20.072128  6.839974        76.62780 0.018
## 2921     6.8 41.996230  5.315388        78.92240 0.016
## 2922     8.6 30.975160 11.306447        79.27502 0.015
## 2923     3.7 60.933816  4.331535        82.75908 0.013
## 2924    17.2 20.293488  9.099723        74.04130 0.021
## 2925     8.1 46.689874  5.958509        81.80656 0.017
## 2926    11.0 49.034686 10.618293        78.07672 0.032
## 2927     6.9 52.163542  5.753961        79.82939 0.018
## 2928    34.3 12.461770 17.575424        65.17617 0.035
## 2929    10.9 28.255428 15.269765        78.09897 0.023
## 2930    15.2 18.164513 13.764890        77.58875 0.039
## 2931    10.6 44.900185  7.668368        78.72074 0.021
## 2932    13.3 32.500760  5.183964        77.66378 0.033
## 2933    21.4 27.544250  8.632493        72.51364 0.066
## 2934    10.2 51.738041  7.789978        80.98073 0.023
## 2935     5.0 48.878280  3.401220        81.50634 0.019
## 2936    14.6 58.130506  5.054954        80.44858 0.020
## 2937     7.5 32.960434  7.848614        78.83788 0.020
## 2938    10.0 33.696207  6.390388        78.09093 0.012
## 2939     5.4 34.008720  4.439032        80.10255 0.015
## 2940    11.9 32.530441  7.912022        75.72430 0.033
## 2941    11.0 63.908995  7.126181        82.21512 0.025
## 2942     8.9 28.353695  5.635417        77.38868 0.019
## 2943    10.1 45.742431  9.819680        79.66582 0.030
## 2944    16.2 23.446640  5.912336        75.33010 0.024
```

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## 2945    22.8 25.288800  8.811428       72.24697 0.059
## 2946     9.4 45.741480  7.563919       77.92248 0.027
## 2947     5.4 44.780565  5.007505       80.54502 0.012
## 2948    12.7 30.631985  3.511237       77.71801 0.022
## 2949    11.9 27.169392  7.807382       77.96172 0.018
## 2950     9.9 33.182900 11.995832       77.26817 0.028
## 2951    16.8 14.885456 14.210679       73.76983 0.031
## 2952     9.4 32.091352 15.637152       77.47350 0.016
## 2953    15.1 49.892277  3.274459       80.40056 0.031
## 2954    12.3 35.275544  7.504238       76.24442 0.028
## 2955    12.8 39.201400  6.532207       81.22903 0.028
## 2956     6.5 40.620348  6.697447       78.94655 0.017
## 2957     6.5 31.660664  4.973626       80.27421 0.022
## 2958    10.1 22.830433 12.360727       77.99160 0.019
## 2959     6.2 56.581624  5.637814       81.05341 0.013
## 2960    14.6 25.117170 20.189104       75.46510 0.050
## 2961    20.1 19.449853 22.683933       73.97337 0.041
## 2962     6.9 52.252624  4.665894       80.11457 0.016
## 2963    14.8 38.101678 11.834018       76.69074 0.032
## 2964    15.9 41.116786  9.952435       76.12610 0.052
## 2965     6.9 39.688364  5.690363       80.22128 0.021
## 2966     9.0 37.521175  4.710257       80.54064 0.014
## 2967    18.3 34.274028 12.200149       73.71813 0.047
## 2968     6.0 44.608125  4.392125       81.11385 0.020
## 2969    10.8 41.596937  5.455945       77.60580 0.022
## 2970    17.1 29.945952 10.831503       75.62261 0.039
## 2971    18.0 17.128785 10.715447       77.36589 0.030
## 2972    11.3 35.844937 14.338191       77.94777 0.038
## 2973     6.5 42.890644  3.864908       81.77006 0.019
## 2974    29.6 15.268524 16.454288       66.09483 0.006
## 2975     6.7 43.949640  4.768567       79.32413 0.015
## 2976    10.8 31.843783  4.731316       76.94238 0.015
## 2977    14.7 24.595912  8.523343       75.26037 0.040
## 2978    11.9 35.119879  6.153551       77.34178 0.040
## 2979    18.2 28.500270  7.462405       73.81527 0.043
## 2980    11.4 38.728299 16.768719       79.63437 0.022
## 2981    12.3 24.982833  7.646395       75.43496 0.027
## 2982    17.8 39.619389 14.308994       76.71235 0.033
## 2983    16.3 27.657715 11.940266       76.70546 0.023
## 2984    14.1 25.982328  9.671364       78.43790 0.031
## 2985    22.5 20.941556 29.685036       76.78853 0.034
## 2986    12.6 43.557965  7.744373       82.08472 0.040
## 2987    15.7 37.361053 10.656330       74.32154 0.066
## 2988    13.1 41.176538  4.644074       78.57880 0.025
## 2989     5.3 56.875139  6.528678       80.85093 0.016
## 2990    17.1 33.324505 17.382436       74.01419 0.053
## 2991    16.8 34.466725  7.194490       75.92336 0.039
## 2992    10.0 54.449587  4.801881       81.15613 0.021
## 2993    12.7 32.201012  5.609537       78.23236 0.024
## 2994    11.1 30.784075  5.890877       75.74112 0.022
## 2995     7.2 60.285797  7.306123       83.53788 0.017
## 2996    10.1 37.895105 17.904962       78.42102 0.014
## 2997     7.3 41.122052  7.681520       76.91961 0.031
## 2998    17.6 28.925090  3.712965       76.88380 0.033
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## 2999     8.0 41.209935  2.688133        79.04264 0.014
## 3000    12.5 32.099950  6.192333        77.37724 0.052
## 3001     5.5 47.936762  4.070800        80.67125 0.012
## 3002    16.7 27.771644 19.528045        75.77922 0.031
## 3003    11.9 60.120764  4.414170        82.89469 0.068
## 3004    14.3 24.896028  9.274126        74.74747 0.031
## 3005    17.3 16.100269  7.911188        77.44820 0.033
## 3006     8.5 28.049440 10.707717        77.35677 0.029
## 3007    15.2 47.902997 11.474766        80.04551 0.018
## 3008     9.9 30.147817  7.174405        78.14061 0.041
## 3009    12.8 29.602253 15.315718        76.99002 0.020
## 3010    10.5 55.646665 10.904407        78.05092 0.042
## 3011    15.9 16.671988 19.541018        78.55312 0.021
## 3012    12.1 30.759320 16.409978        81.17164 0.017
## 3013     4.8 57.247335  5.639003        81.72645 0.009
## 3014     9.1 31.956224 10.277014        79.25935 0.019
## 3015    21.0 31.058970 14.609231        71.85407 0.048
## 3016     6.3 35.191171  5.895181        79.95924 0.010
## 3017    13.4 30.743477  6.840447        74.67576 0.032
## 3018     8.8 36.842688  7.054777        79.77839 0.028
## 3020    24.7 17.631495 16.976433        68.75628 0.022
## 3021    16.3 25.150224 13.423833        73.04481 0.047
## 3022     8.0 43.900882  7.446952        79.97881 0.017
## 3024     9.8 41.422139  6.356908        77.02363 0.033
## 3025     6.7 50.601272  6.009099        79.76748 0.015
## 3026    11.8 22.150216 13.195504        79.41643 0.015
## 3027     8.9 38.563798 11.666002        79.44363 0.021
## 3028    13.0 22.640908 16.922530        76.49323 0.023
## 3029    12.9 35.286154  7.431180        75.72569 0.031
## 3030    20.1 40.174244 12.607204        72.37489 0.089
## 3031     6.1 48.392357 12.079581        80.91870 0.015
## 3032    13.3 46.747631 14.173086        78.87446 0.050
## 3033    11.5 42.236559  8.976262        78.07991 0.035
## 3034     6.4 47.402316 13.330580        80.97887 0.015
## 3035    13.9 30.311067 12.246100        78.57293 0.020
## 3036    15.2 30.521120  7.910356        73.73617 0.036
## 3037    17.9 22.838229  6.404843        73.89439 0.030
## 3038    12.0 33.456992 13.327564        75.53268 0.060
## 3039     6.1 64.266993  7.441778        84.86967 0.015
## 3040     6.0 38.689396  7.679277        79.48564 0.018
## 3041    17.3 23.684954 21.156172        75.49229 0.046
## 3042    16.1 18.865054 15.265822        75.90190 0.038
## 3043     7.7 57.645597  2.389743        81.27037 0.012
## 3044    12.3 47.320545 13.804152        75.44055 0.047
## 3045     8.5 49.291838 13.726476        81.40005 0.014
## 3046    18.6 14.780215  9.729428        76.88505 0.032
## 3048    20.0 38.230443  8.798415        73.86338 0.047
## 3049     7.4 50.746024  6.973626        79.51604 0.035
## 3050     9.7 28.022550 13.200126        77.54845 0.035
## 3051     9.1 37.722995  4.100006        82.00096 0.033
## 3052    14.9 35.869940 10.076056        80.98580 0.026
## 3053    14.1 36.926832  4.028308        77.54422 0.027
## 3054    15.6 34.061214 10.012666        73.83505 0.058
## 3055    20.2 35.427405  6.862429        71.03006 0.073
```

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## 3056    14.5 33.090805 13.578122       74.34138 0.039
## 3057     7.2 56.276910  9.170938       81.15864 0.008
## 3058     8.6 45.127548  7.664797       80.30477 0.014
## 3059    10.8 39.551637 16.494733       81.00847 0.032
## 3060     9.1 37.846939  7.680404       81.14083 0.020
## 3061    10.2 48.608483 12.652427       79.19285 0.042
## 3062     9.3 52.510033  5.994842       82.10040 0.013
## 3063    13.0 57.995139 10.574644       78.07800 0.051
## 3064    12.6 19.136946  8.636619       75.96513 0.039
## 3065     9.6 42.314104  3.146040       79.70932 0.017
## 3066    13.5 37.442857 11.651943       75.99284 0.074
## 3067    16.2 36.577859  6.545674       74.07878 0.050
## 3068    13.6 41.359645  7.053866       75.83173 0.039
## 3069    10.5 39.631756  6.353304       78.69839 0.022
## 3070     7.3 53.071234  4.716929       84.46998 0.023
## 3071    14.2 37.887942 11.748317       77.80199 0.023
## 3072    11.0 36.078754 10.777324       77.87144 0.026
## 3073    13.2 37.155223 13.668540       77.90401 0.019
## 3074    14.0 27.883727 11.970613       81.29846 0.028
## 3075    10.9 39.025645  3.013789       79.01085 0.019
## 3076    11.9 45.516931  6.020979       78.37562 0.035
## 3077    15.2 63.563622  3.726775       77.06607 0.061
## 3078    12.6 21.572958  7.681364       76.62345 0.036
## 3079     6.4 54.913394 10.903158       81.55906 0.014
## 3080     8.4 37.479096  8.771216       80.32240 0.015
## 3081    11.6 44.776726  4.944526       77.22374 0.024
## 3082     6.6 52.615043  7.262299       81.85577 0.010
## 3083    12.4 38.408425 14.990809       79.29779 0.038
## 3084    17.1 33.892417  8.219240       75.10120 0.050
## 3085     7.0 39.861801  5.443818       79.63168 0.015
## 3086    11.9 33.283782  5.999079       78.42732 0.030
## 3087     9.7 46.927028  7.667762       76.77713 0.029
## 3088     8.3 44.910159  5.215377       81.55897 0.029
## 3089    16.0 35.936761 10.341124       72.92252 0.047
## 3090     9.0 43.836367  8.567406       79.66688 0.016
## 3091    10.6 27.169256  6.101653       76.54674 0.020
## 3092     5.8 48.713802  4.234446       81.50184 0.011
## 3093     8.2 46.953930  7.760214       80.69960 0.015
## 3094    27.7 21.956129  8.322132       77.26095 0.022
## 3095     7.7 58.986717  2.414920       81.70208 0.013
## 3096    17.5 15.839491 10.319130       76.18562 0.028
## 3097     7.2 36.458558  6.610902       78.82164 0.014
## 3098    20.3 34.639278  8.392108       74.51705 0.042
## 3099    10.2 55.514768 15.000044       80.63928 0.032
## 3100    16.5 64.002783  5.404376       83.30817 0.021
## 3101    13.8 35.261146  9.554457       81.41168 0.021
## 3102    12.9 27.308582 14.350125       77.19465 0.033
## 3103    23.5 20.558114 30.076569       77.28424 0.032
## 3104    18.2 34.197790 12.900878       72.54083 0.061
## 3105     9.8 35.665760  9.602719       81.32913 0.022
## 3106    18.5 25.361191 23.518463       77.02885 0.020
## 3107    19.0 18.573576  8.991841       74.92474 0.042
## 3108    15.1 41.970529  9.156629       75.89935 0.038
## 3109    14.0 35.870627 12.181074       77.12532 0.046
```
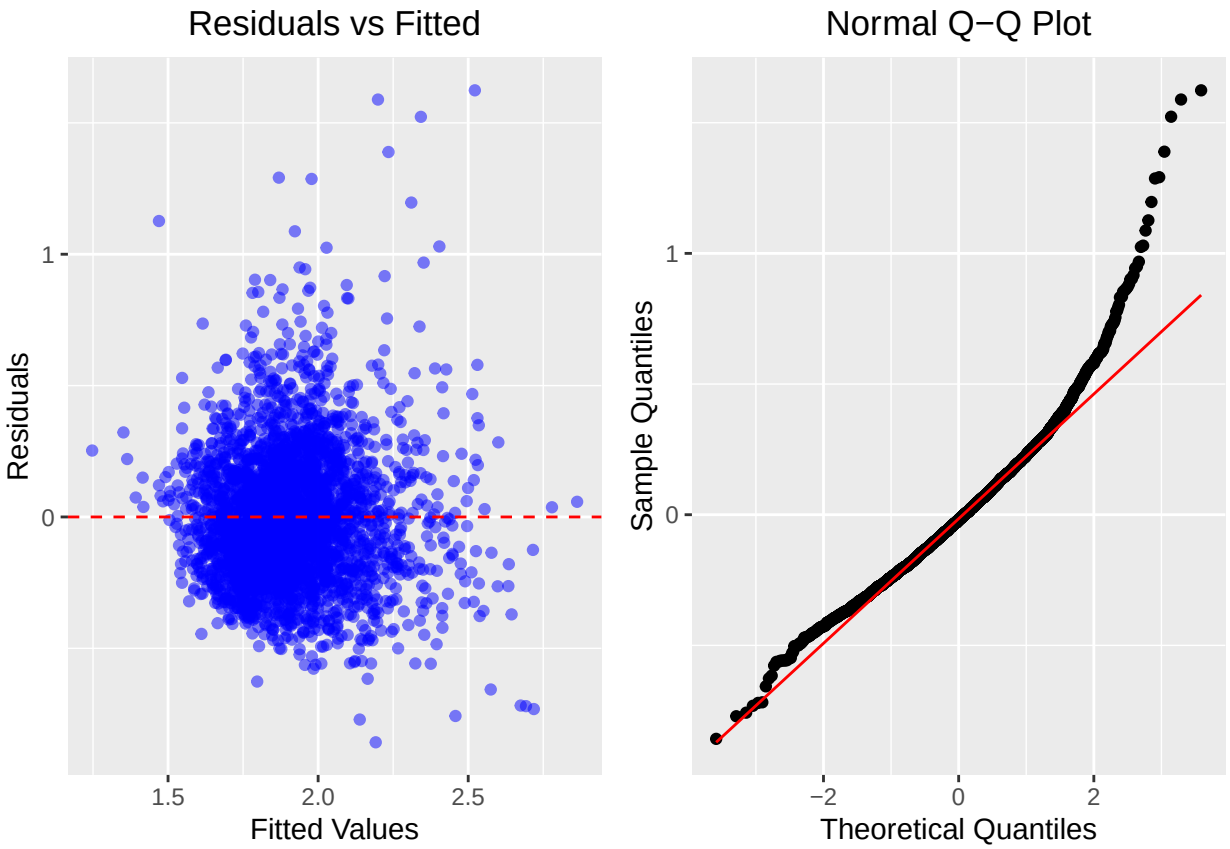
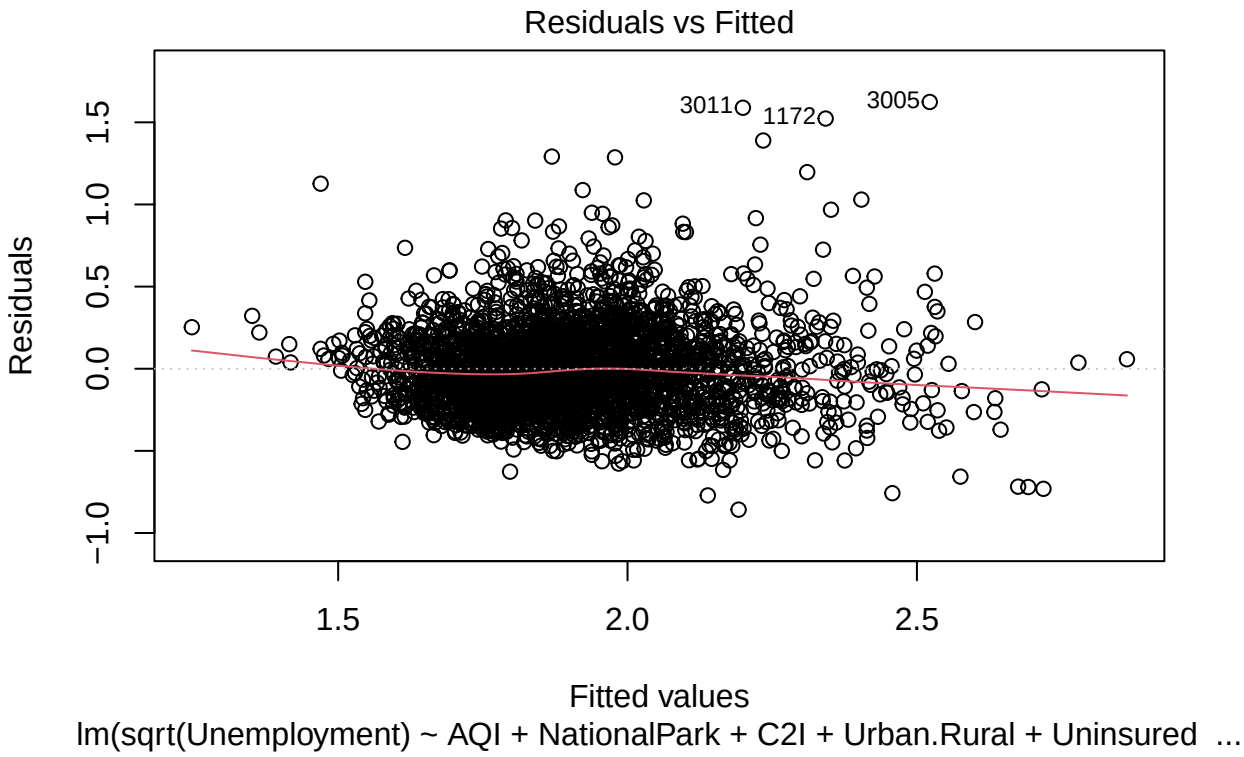
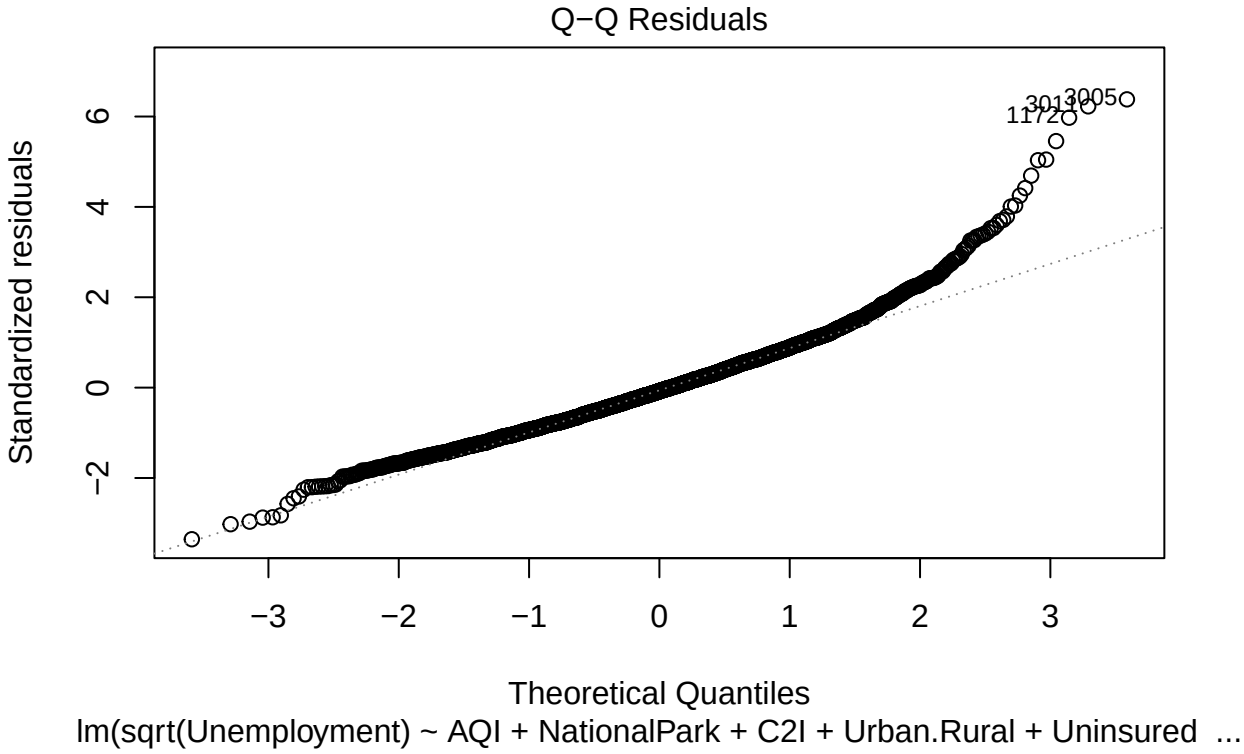

```
## 3110    12.7 35.798915 14.999968        79.72313 0.034
## 3111     9.5 38.630206 10.957270        78.82264 0.049
## 3112     8.8 55.929893  6.097354        81.61570 0.044
## 3113    19.1 41.325918  7.114227        80.26258 0.021
## 3114     9.5 51.469365  5.013036        82.20373 0.043
## 3115     6.6 51.446849  5.815028        81.64645 0.014
## 3116    10.1 53.325825  5.222649        79.88574 0.032
## 3117    16.0 35.917460  6.878234        75.67316 0.033
## 3118     8.3 50.208179  4.575128        79.37391 0.014
## 3119    17.7 23.854496  7.586317        76.63794 0.038
## 3120    11.0 34.548001 19.874341        77.45596 0.030
## 3121     7.6 55.865627  4.436741        84.14831 0.026
## 3122    11.3 25.084018  9.202751        78.53050 0.030
## 3123    14.7 31.539646 18.911034        76.73776 0.050
## 3124    26.9 20.326667 32.047724        77.92431 0.030
## 3125    13.8 34.847246 24.154772        77.28249 0.036
## 3126    13.2 22.901440  9.502020        76.07008 0.030
## 3127    20.6 26.887440  6.637029        73.43564 0.042
## 3128    10.1 42.089871  7.401034        80.81437 0.022
## 3129    14.1 33.206215 16.696120        80.18693 0.042
## 3130     9.2 43.401038  7.863286        81.77747 0.023
## 3131    11.1 35.858006 12.717714        78.16054 0.032
## 3132    16.0 33.746549 23.760926        77.87631 0.041
## 3133    13.2 41.948690 10.067538        77.88864 0.033
## 3134    13.7 35.470992 10.110688        80.05585 0.032
```

```r
lm2_data <- data.frame(fitted = fitted(lm2), residuals = residuals(lm2))

# Plot 1: Residuals vs Fitted (Check for homoscedasticity)
p1 <- ggplot(lm2_data, aes(x = fitted, y = residuals)) +
  geom_point(color = "blue", alpha = 0.5) +
  geom_hline(yintercept = 0, linetype = "dashed", color = "red") +
  labs(title = "Residuals vs Fitted", x = "Fitted Values", y = "Residuals") +

  theme(plot.title = element_text(hjust = 0.5))

# Plot 2: Q-Q plot (Check for normality of residuals)
p2 <- ggplot(lm2_data, aes(sample = residuals)) +
  geom_qq() +
  geom_qq_line(color = "red") +
  labs(title = "Normal Q-Q Plot", x = "Theoretical Quantiles", y = "Sample Quantiles") +

  theme(plot.title = element_text(hjust = 0.5))

# Display the plots
grid.arrange(p1, p2, ncol = 2)
```


Residuals vs Fitted
Residuals
1
0
1.5
2.0
2.5
Fitted Values
Normal Q−Q Plot
Sample Quantiles
1
0
−2
0
2
Theoretical Quantiles

```
plot(lm2,1:2)
```


Residuals vs Fitted
3011
1172
3005
Residuals
1.5
1.0
0.5
0.0
−1.0
1.5
2.0
2.5
Fitted values
lm(sqrt(Unemployment) ~ AQI + NationalPark + C2I + Urban.Rural + Uninsured ...


Q−Q Residuals
Standardized residuals
Theoretical Quantiles
lm(sqrt(Unemployment) ~ AQI + NationalPark + C2I + Urban.Rural + Uninsured ...
3005
30136
11722
−2
0
2
4
6
−3
−2
−1
0
1
2
3