

PhDcamp2018_Rworkshop

Welcome to the PhD camp for 2018!

This is an R Markdown script that we are going to run parts of. We are going to go through some essentials for learning to use R if you are a beginner. RStudio (the program you are in at the moment) makes R much easier to run. There are also some alternatives:

Jamovi

Jamovi is an interface for running R but with a nice, user-friendly point-and-click interface. The advantage of using it over SPSS is it gives you the underlying code for your analyses. <https://www.jamovi.org>

RKward

RKward is another user friendly interface for editing R, with a specific focus on statistics heavy users. It is good for beginners, it allows you to edit plots, and data in a spreadsheet like interface. (Thanks to Kevin Shabahang who pointed this out on the GRIPS facebook page!) <https://rkward.kde.org>

Jupyter

Jupyter is an interactive environment where you can setup your data analysis so that you can share it with your colleagues and others who may read your papers. It provides a transparent interface in which to do your data analysis and allows others to reproduce the same data analysis. I often see it used for authors who want to post their data analysis online. Like RNotebook documents, it allows you to play sections of your script. Jupyter allows you to code in a number of languages (over 40). Some of the common ones are python, R, Julia <http://jupyter.org> <https://www.datacamp.com/community/blog/jupyter-notebook-r> (gives you more info about the R specifics)

```
# We can make comments that R doesn't read using the '#' sign
# -----
#                               Workspace/Knitting settings
# -----
knitr::opts_chunk$set(echo = TRUE) # these are options for knitting the document
rm(list = ls(all = TRUE)) # delete all variables

# This creates a new section of code

# OR - we can use a keyboard shortcut to do this

# Try typing: Cmd and Option and I - on your keyboard

# I can add comments using the '#' number sign!

# I can use R just like I would a normal calculator
# ----- Adding -----
1 + 1

## [1] 2

# ----- Multiplying -----
10 * 100
```

```
## [1] 1000
# ----- Subtracting -----
100 - 50

## [1] 50
# ----- Dividing -----
100 / 50

## [1] 2
# ----- Multiple operations -----
(100 - 50) + 10 * 5 # will follow BODMAS (brackets) then runs multiplication, then addition
```

```
## [1] 100
```

Before we do anything else, we are going to learn about variables. You can think of a variable as a container that we have labelled, and holds stuff We need variables because we need to pull out data out and store it in things, and we also need to store other information, like the mean, the standard deviation, and the results of statistical tests somewhere

```
# In R, most of the time we use <- to assign something. Other languages uses the "=" sign, but when we
# I'll go over the exceptions later (they are few, and far between!)
x <- 6
y <- 1
```

```
# Task: type x and then press 'Enter' in the console
# Task: change the value of x to 5
# Task: Add x and y, and assign it to a variable called z
z <- x + y
```

```
# print(variable) will print stuff to the screen
# You can see that z is just the sum of x and y!
print(z)
```

```
## [1] 7
```

```
# We don't have to limit ourselves to one or two
```

```
# Concatenating variables
z <- c(1,2,3)
```

```
# Vectors
vector(mode="logical", length=4)
```

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

```
# Lists
participant.info <- list("firstName" = "Jimbob Ghostkeeper",
                        "age" = 29,
                        "dob" = "09.12.1988",
                        "suburb" = "Chelsea",
                        "physiological_age" = 50,
                        "educationInYears" = 21,
                        "cars" = list("toyota", "honda"),
                        "childrenAge" = c(4,7,15))
```

```

# You can have a list which contains another list
# You can have a list which contains a vector of numbers too!

# -----
#                               Tasks
# -----
# 1. create a list called 'labHeads' with the following
# fields / names:
# "names" = a list of names - "rob", "olivia", "katherine", "patrick", "jason", "philip", "hinze", "bob"
# "ages" = a bunch of numbers (be nice)
# 'title' = e.g. "prof", "dr", "assProf"

# Creating data frames that are combinations of factors (expand.grid)

```

Let's try and setup where the workshop files are on your computer. You should have all of this in a folder called 'PhDCamp_RWorkshop_2018' First things first: let's figure out what your directory format looks like. Sometimes the way we specify directories in R and

```

# ----- Setup base folder -----
exp.basedir <- "/Users/Chris/Bitbucket/2018_PhDcamp/scripts" # base folder (you can change this, everyt
exp.rawdir <- file.path(exp.basedir, "data") # raw data files only
#exp.procdir <- file.path(exp.basedir, "processed_data") # processed raw files

```

Whenever we start a script, we can add some useful settings. We can store information in R as 'variables' which are like books in a library. When we want information about a specific book, we pull it out, and when we want information about a variable in R, we just type it's name in the console, and get what's inside the book.

I usually start by deleting all of the variables. This is kind of like burning all of the books in the library and getting rid of them, which is a bad analogy, but here I am, using it!

```

# -----
#                               Load / install relevant packages
# -----
# Packages are just "folders" we download from the R website and use to do fancy stuff with R
# The beauty of R is that anyone can make a package (bunch of scripts) and post it online
# R is open source (you dont have to pay for it) and user driven unlike SPSS so you dont have to wait
# around until something you want appears, it is usually there, or you can just make it yourself!

# Although R comes with lots of packages, we don't want R to use all of them - loading these takes memo
# Instead, we only load what we need
# When we run the library command below, we are telling R to load these packages so we can use everythin
library("plyr", "ggplot2") # We can separate packages with commas

```

```

# -----
#                               Task:      Setup directories
# -----
# Now we can read the csv file - header=TRUE means that the read.csv function will take the column
# headings from your csv file and then use them for the names of your data frame
file_to_read <- "raw_data.csv"
raw_data <- read.csv(file.path(exp.rawdir, file_to_read), header = TRUE, sep = ",")
data <- raw_data

# What if I want to change some column names, I hear you ask!!
# I have commented this out because our script uses the names from the excel file

```

```
# you could do this names(data)[1] <- "col1" - this names the first column of data to "col1" and so on
# you could also do colnames(data) <- c("subj_no" = "sub_no", "stim" = "stimuli") - so we tell R that w
# want to change "subj_no" to "sub_no" and so on - this way we dont have to remember which column the
# thing we want is
```

```
# Let's have a quick look at our data se we can see the column names etc
```

```
# ----- Task -----
```

```
# Reading column and row names
```

```
data$conf # reads out the confidence column
```

```
##      [1] 2 1 4 3 4 5 2 4 1 4 5 2 1 3 3 4 4 5 4 4 3 5 4 2 3 4 2 5 2 3 5 4 4 5
##     [35] 5 4 4 1 4 5 4 3 2 4 1 2 1 1 2 2 2 4 2 5 4 3 5 4 1 2 4 2 3 3 2 3 4 1
##     [69] 2 4 5 3 3 3 4 3 5 3 2 2 3 4 3 4 2 2 3 4 3 4 4 5 5 2 4 3 3 3 4 5 5 4
##    [103] 4 5 5 5 4 5 1 3 3 3 2 2 1 1 2 3 3 4 5 4 3 3 2 5 3 2 3 5 4 3 1 3 5 2
##    [137] 3 3 4 2 3 3 3 5 3 2 3 2 2 2 1 2 5 2 1 2 5 2 2 4 2 5 4 4 2 5 4 5 3 2
##    [171] 3 3 4 3 4 2 2 3 5 5 3 3 2 4 1 2 4 4 3 4 3 2 3 4 2 2 3 2 5 2 4 4 3 2
##    [205] 3 3 2 2 3 2 2 2 4 1 3 5 2 3 4 3 5 5 3 5 3 5 3 3 2 5 5 2 2 4 2 1 4 3
##    [239] 4 5 4 5 2 3 3 2 4 5 2 1 1 2 3 2 3 3 2 4 4 3 4 2 3 3 3 4 2 3 3 2 3 2
##    [273] 4 2 4 3 4 3 2 5 5 4 4 4 3 1 4 3 4 4 5 2 4 4 3 5 5 2 2 5 4 4 4 4 2 5
##    [307] 4 4 4 3 3 3 2 2 5 1 2 4 5 3 3 2 3 5 3 4 3 1 4 4 4 5 2 3 1 3 4 5 1 2
##    [341] 5 2 2 5 2 3 3 3 3 4 4 5 2 1 3 2 2 3 2 4 4 3 4 3 1 3 2 3 3 2 4 5 4 4
##    [375] 3 4 4 4 2 3 5 1 2 4 3 3 4 4 4 4 3 3 3 5 4 4 2 3 5 5 4 1 2 5 3 3 1 3
##    [409] 3 2 4 2 3 4 2 5 3 4 4 4 2 5 4 3 1 4 5 2 4 4 3 3 2 2 4 2 3 2 4 2 4 2
##    [443] 4 2 5 2 3 2 4 3 3 5 5 3 2 2 2 3 3 5 4 1 3 4 4 3 4 4 5 4 5 3 1 4 1 2
##    [477] 3 2 3 2 5 3 2 5 4 1 4 4 1 1 2 3 2 1 3 4 4 5 3 5 3 3 2 4 1 2 2 2 1 5
##    [511] 4 3 3 4 2 3 3 4 1 4 5 2 3 3 2 4 5 4 3 3 5 5 2 5 3 3 1 3 3 3 2 3 3 3
##    [545] 3 2 3 3 2 4 2 4 2 3 4 2 2 1 1 4 3 4 1 3 3 3 3 2 2 2 5 5 5 1 4 4 2 4
##    [579] 5 5 4 4 4 2 4 1 2 5 2 4 3 4 3 3 4 4 3 2 2 5 4 2 5 4 5 1 3 5 4 4 2 4
##    [613] 4 3 4 4 4 5 4 4 3 3 4 3 2 2 3 4 5 2 2 5 4 5 2 4 4 4 3 4 3 4 3 2 4 2
##    [647] 1 3 4 4 3 4 3 3 4 3 3 5 4 3 3 1 3 5 3 3 4 2 5 3 3 3 1 3 3 4 4 5 2
##    [681] 5 4 1 1 1 3 4 1 3 4 5 5 4 5 5 4 1 4 5 2 1 3 2 2 2 2 1 2 4 4 1 2 3 3
##    [715] 2 4 3 5 3 3 3 3 2 2 3 5 2 3 1 3 2 5 3 4 5 2 4 5 4 5 3 1 2 2 2 3 4 2
##    [749] 5 2 4 4 3 2 3 4 2 4 4 4 3 3 3 4 5 3 3 1 2 4 3 4 3 2 3 4 5 3 3 2 3 3
##    [783] 2 3 2 4 2 2 5 5 5 1 4 3 3 4 2 4 2 3 3 4 5 5 5 2 4 2 3 5 2 3 2 4 5 3
##    [817] 3 3 3 4 3 3 2 4 1 3 1 5 2 2 4 3 2 3 4 4 2 3 3 2 2 3 4 1 4 5 3 3 4 3
##    [851] 4 5 1 1 3 4 5 2 2 2 2 2 2 3 2 5 2 4 4 5 2 3 3 4 4 3 3 3 2 4 2 5 2 4
##    [885] 5 2 4 1 1 3 5 2 3 1 3 2 2 3 4 4 2 5 4 2 4 1 2 4 1 4 3 2 3 1 5 4 2 2
##    [919] 3 3 1 3 3 4 4 4 3 3 5 2 5 3 3 5 2 5 2 3 3 3 1 3 3 2 2 3 3 3 2 3 5 4
##    [953] 2 3 4 4 4 3 3 1 3 5 4 4 5 2 2 3 2 2 3 2 3 4 1 4 3 2 1 5 2 5 3 2 3 3
##    [987] 2 4 4 3 3 5 3 3 4 4 2 2 2 4 2 3 4 4 2 4 3 3 3 2 5 5 2 3 3 1 3 1 2 4
##   [1021] 4 4 3 4 2 4 2 5 3 1 2 3 3 4 3 5 3 3 3 1 4 3 4 2 3 4 5 2 1 2 2 3 4 3
##   [1055] 1 2 4 5 5 3 3 2 2 4 4 4 4 3 2 1 3 4 1 3 3 2 4 3 1 3 3 4 2 4 3 4 5 4
##   [1089] 2 4 4 4 4 5 3 4 2 5 5 2 2 4 1 2 3 5 5 3 2 4 5 1 3 4 2 4 5 3 3 2 3 4
##   [1123] 3 3 5 2 5 4 1 4 1 3 4 4 2 4 3 3 4 3 3 5 5 5 1 3 4 3 3 4 2 4 1 3 3 3
##   [1157] 2 5 3 4 3 2 5 2 4 2 5 4 1 4 5 2 5 3 1 4 3 2 3 3 5 5 1 3 1 4 4 3 2 3
##   [1191] 4 2 2 1 5 4 5 3 1 5 3 4 4 4 5 4 2 3 3 3 3 3 5 3 2 3 3 2 5 2 3 5 5 5
##   [1225] 5 4 3 4 4 3 1 4 3 4 3 2 2 3 5 3 3 1 3 2 2 4 4 2 4 5 3 2 1 3 4 2 2 2
##   [1259] 3 4 4 3 5 4 4 5 4 1 3 2 3 2 5 2 2 4 2 5 4 3 5 1 2 1 3 5 3 3 4 3 2 3
##   [1293] 3 3 4 1 4 4 3 2 4 3 4 4 5 3 4 2 5 5 3 4 4 4 4 2 3 2 3 2 3 5 2 4 4 4
##   [1327] 3 3 2 1 3 2 3 4 2 2 4 2 2 5 2 3 2 2 3 3 5 3 3 1 3 4 4 4 1 3 3 3 5 4
##   [1361] 1 1 5 3 2 2 2 4 1 5 3 4 5 3 4 3 3 5 3 3 4 3 2 4 2 3 1 5 3 4 2 1 3 4
##   [1395] 3 5 2 4 1 3 4 5 5 3 2 1 2 3 3 4 3 5 3 4 3 3 3 2 4 4 5 2 4 1 1 1 5 3
##   [1429] 5 2 4 5 5 1 2 1 5 2 4 2 5 3 2 4 5 2 3 3 5 4 3 5 4 2 4 1 2 3 2 2 5 4
```

```
## [1463] 2 4 3 1 5 2 2 2 3 2 4 4 2 4 4 1 5 2 1 2 4 1 4 3 3 2 4 3 1 4 4 4 3 3
## [1497] 2 3 3 5 4 2 3 1 4 2 3 1 5 5 2 3 5 3 3 2 3 4 4 3 2 4 1 4 3 3 5 1 3 2
## [1531] 1 3 2 5 4 1 4 2 2 4 3 5 5 3 4 1 3 5 4 2 3 4 2 5 3 3 3 2 1 4 5 5 4 3
## [1565] 4 4 5 4 4 4 4 5 1 2 2 3 2 3 3 4 5 3 5 2 3 3 4 4 1 3 4 4 3 4 1 1 5 5
## [1599] 4 3 2 3 3 3 3 2 4 2 4 3 4 3 4 2 3 4 1 3 2 1 3 4 4 2 4 4 4 2 2 4 2 3
## [1633] 3 4 2 2 2 4 3 5 4 2 2 4 1 2 5 2 4 1 2 4 4 3 4 5 2 1 5 4 5 2 2 2 4 2
## [1667] 5 5 1 4 4 2 5 1 1 2 3 2 2 3 4 2 2 3 2 1 4 3 4 3 5 5 2 4 2 3 2 2 2 2
## [1701] 1 4 4 4 4 4 3 2 2 2 4 3 2 4 3 3 4 4 3 3 4 3 2 1 3 2 5 5 2 4 4 3 3 5
## [1735] 5 3 4 4 3 3 1 5 3 4 3 2 3 3 3 3 2 3 1 4 2 3 4 4 3 4 3 3 2 4 3 2 3 4
## [1769] 2 2 2 3 1 3 5 1 5 2 3 3 5 1 3 5 2 4 3 2 4 2 2 3 2 3 4 3 2 4 1 1 4 3
## [1803] 2 1 4 4 5 5 3 4 4 3 3 2 4 3 4 3 2 5 1 3 2 5 4 4 2 1 2 3 3 3 3 1 3 3
## [1837] 2 3 3 1 4 4 3 5 3 5 3 5 3 2 5 3 3 4 3 2 3 4 4 2 1 2 2 2 2 4 5 3 2 4
## [1871] 4 3 1 3 5 4 3 5 4 4 4 4 5 4 5 4 4 2 1 3 1 4 3 4 2 3 5 4 2 3 1 3 1 5
## [1905] 2 2 4 2 3 4 4 1 5 3 1 3 5 3 2 2 4 3 3 3 3 3 3 1 4 4 4 5 3 3 4 5 3 5
## [1939] 5 4 1 4 3 2 3 2 3 3 3 3 5 5 5 2 4 2 3 5 3 2 4 3 3 2 4 3 3 4 4 3 2 5
## [1973] 5 1 3 2 4 5 2 4 3 3 2 2 3 5 3 5 3 2 3 2 4 5 3 2 3 3 4 3 1 3 4 5 3 5
## [2007] 5 5 4 3 4 1 2 2 2 3 3 4 5 4 3 3 5 1 3 1 4 3 2 3 3 2 2 4 3 2 4 2 1 4
## [2041] 3 3 5 2 4 4 5 3 3 3 3 3 1 2 3 3 3 4 2 2 1 5 2 5 3 3 4 3 3 4 2 1 2 1
## [2075] 4 3 2 5 2 3 2 3 3 2 2 4 3 5 1 2 3 3 4 5 5 5 3 1 2 4 5 3 1 3 4 4 4 4
## [2109] 4 5 4 4 3 3 4 4 2 1 2 4 4 3 2 4 3 1 5 3 2 3 4 3 2 2 3 5 1 3 2 4 2 3
## [2143] 4 1 2 4 5 4 2 4 4 2 2 1 3 4 2 4 5 4 4 1 4 5 2 2 3 1 3 5 5 4 2 1 2 4
## [2177] 3 1 2 4 3 4 4 2 4 2 3 2 4 1 4 5 3 2 1 5 2 3 3 4 4 4 5 4 4 4 4 3 3
## [2211] 5 4 3 2 3 4 3 4 2 5 4 3 4 4 3 2 5 3 2 2 2 2 3 5 3 2 4 4 5 3 4 4 5 3
## [2245] 4 2 3 3 2 3 4 4 1 2 4 4 5 3 2 1 3 5 3 5 3 2 3 4 3 4 2 1 5 1 2 4 3 1
## [2279] 1 4 2 4 3 4 1 3 2 4 2 3 4 2 3 2 2 3 4 2 4 4 2 3 3 2 4 4 4 3 2 4 4 4
## [2313] 2 5 3 4 3 4 3 4 4 1 5 2 4 1 3 5 3 3 2 3 3 4 4 2 3 3 2 3 2 5 3 4 2 4
## [2347] 4 3 3 4 3 2 4 2 3 3 4 5 3 2 4 4 3 2 5 1 4 2 2 4 5 4 2 3 4 5 3 5 2 3
## [2381] 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
```

```
data$conf[data$subj_no==1] # reads out confidence values only for subject 1
```

```
## [1] 4 1 4 5 2 2 3 1 3 5 5 4 2 1 2 4 3 1 2 4 3 4 4 2 4 2 3 2 4 1 4 5 3 2 1
## [36] 5 2 3 3 4 4 4 5 4 4 4 4 4 3 3 5 4 3 2 3 4 3 4 2 5 4 3 4 4 3 2 5 3 2 2
## [71] 2 2 3 5 3 2 4 4 5 3 4 4 5 3 4 2 3 3 2 3 4 4 1 2 4 4 5 3 2 1 3 5 3 5 3
## [106] 2 3 4 3 4 2 1 5 1 2 4 3 1 1 4 2 4 3 4 1 3 2 4 2 3 4 2 3 2 2 3 4 2 4 4
## [141] 2 3 3 2 4 4 4 3 2 4 4 4 2 5 3 4 3 4 3 4 4 1 5 2 4 1 3 5 3 3 2 3 3 4 4
## [176] 2 3 3 2 3 2 5 3 4 2 4 4 3 3 4 3 2 4 2 3 3 4 5 3 2 4 4 3 2 5 1 4 2 2 4
## [211] 5 4 2 3 4 5 3 5 2 3 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
```

```
data$conf[data$subj_no==1 & data$subj_no==2] # reading out confidence values for subject 1 AND 2
```

```
## integer(0)
```

```
data[data$subj_no==1, ] # read out all rows where subject number is 1, and ALL columns for this subject
```

```
##      X subj_no age group stim trial difficulty resp corr conf   RT_day1
## 2161 2161      1  21      1      2      1      1      2      1      4 0.5111310
## 2162 2162      1  27      1      1      2      3      2      0      1 1.2946032
## 2163 2163      1  22      1      2      3      1      2      1      4 0.4647857
## 2164 2164      1  24      1      1      4      1      1      1      5 0.4657239
## 2165 2165      1  28      1      2      5      3      1      0      2 1.4165336
## 2166 2166      1  18      1      1      6      3      1      1      2 0.6995403
## 2167 2167      1  30      1      1      7      2      1      1      3 0.4745215
## 2168 2168      1  20      1      2      8      3      1      0      1 0.9338379
## 2169 2169      1  24      1      2      9      2      1      0      3 0.8805971
## 2170 2170      1  30      1      1     10      1      1      1      5 0.4453162
```

## 2171 2171	1	21	1	2	11	1	2	1	5	0.4733645
## 2172 2172	1	27	1	2	12	2	2	1	4	0.5974170
## 2173 2173	1	22	1	2	13	3	1	0	2	1.4431742
## 2174 2174	1	24	1	2	14	3	1	0	1	1.7678909
## 2175 2175	1	28	1	2	15	2	1	0	2	0.7606065
## 2176 2176	1	18	1	1	16	1	1	1	4	0.3429215
## 2177 2177	1	30	1	1	17	3	1	1	3	1.1609741
## 2178 2178	1	20	1	1	18	3	2	0	1	1.2152560
## 2179 2179	1	24	1	2	19	3	2	1	2	0.9945911
## 2180 2180	1	30	1	1	20	2	1	1	4	0.5740948
## 2181 2181	1	21	1	1	21	2	1	1	3	0.4589446
## 2182 2182	1	27	1	1	22	1	2	0	4	0.6448975
## 2183 2183	1	22	1	1	23	1	1	1	4	0.5147993
## 2184 2184	1	24	1	2	24	3	1	0	2	0.9641536
## 2185 2185	1	28	1	2	25	2	2	1	4	0.5895835
## 2186 2186	1	18	1	2	26	3	1	0	2	1.1223794
## 2187 2187	1	30	1	2	27	2	2	1	3	0.6234817
## 2188 2188	1	20	1	1	28	2	2	0	2	0.9787836
## 2189 2189	1	24	1	1	29	2	1	1	4	0.5438362
## 2190 2190	1	30	1	2	30	3	1	0	1	0.7164217
## 2191 2191	1	21	1	1	31	2	1	1	4	0.6123970
## 2192 2192	1	27	1	1	32	1	1	1	5	0.3548580
## 2193 2193	1	22	1	1	33	3	1	1	3	0.8698728
## 2194 2194	1	24	1	1	34	3	2	0	2	0.7280196
## 2195 2195	1	28	1	1	35	3	2	0	1	1.4877927
## 2196 2196	1	18	1	1	36	1	1	1	5	0.3277807
## 2197 2197	1	30	1	2	37	3	2	1	2	0.6340728
## 2198 2198	1	20	1	2	38	3	2	1	3	0.5509760
## 2199 2199	1	24	1	1	39	2	2	0	3	0.5860195
## 2200 2200	1	30	1	1	40	1	2	0	4	0.4831197
## 2201 2201	1	21	1	2	41	1	1	0	4	0.4787218
## 2202 2202	1	27	1	1	42	1	1	1	4	0.3793509
## 2203 2203	1	22	1	2	43	1	2	1	5	0.4970290
## 2204 2204	1	24	1	1	44	1	1	1	4	0.4607809
## 2205 2205	1	28	1	2	45	1	2	1	4	0.4232781
## 2206 2206	1	18	1	2	46	1	2	1	4	0.3950229
## 2207 2207	1	30	1	2	47	1	1	0	4	0.4693055
## 2208 2208	1	20	1	2	48	1	2	1	4	0.4688677
## 2209 2209	1	24	1	2	49	3	2	1	3	0.9966940
## 2210 2210	1	30	1	2	50	2	1	0	3	0.6808760
## 2211 2211	1	21	1	1	51	1	1	1	5	0.3511141
## 2212 2212	1	27	1	2	52	2	2	1	4	0.6582444
## 2213 2213	1	22	1	1	53	2	1	1	3	0.6265721
## 2214 2214	1	24	1	2	54	3	2	1	2	0.8937633
## 2215 2215	1	28	1	2	55	2	1	0	3	0.5633169
## 2216 2216	1	18	1	2	56	2	2	1	4	0.7736909
## 2217 2217	1	30	1	1	57	2	2	0	3	0.5798878
## 2218 2218	1	20	1	2	58	1	2	1	4	0.4270307
## 2219 2219	1	24	1	2	59	3	2	1	2	0.8680045
## 2220 2220	1	30	1	2	60	1	2	1	5	0.3666625
## 2221 2221	1	21	1	2	61	1	1	0	4	0.5776712
## 2222 2222	1	27	1	2	62	2	1	0	3	0.6385925
## 2223 2223	1	22	1	2	63	2	2	1	4	0.4743229
## 2224 2224	1	24	1	2	64	2	2	1	4	0.6457955

##	2225	2225	1	28	1	2	65	1	1	0	3	0.5679022
##	2226	2226	1	18	1	1	66	2	2	0	2	0.8460193
##	2227	2227	1	30	1	1	67	1	1	1	5	0.4594764
##	2228	2228	1	20	1	2	68	2	2	1	3	0.8588370
##	2229	2229	1	24	1	2	69	3	1	0	2	0.7305836
##	2230	2230	1	30	1	2	70	3	2	1	2	0.4302879
##	2231	2231	1	21	1	1	71	3	2	0	2	0.6046627
##	2232	2232	1	27	1	1	72	3	2	0	2	1.5830440
##	2233	2233	1	22	1	2	73	2	1	0	3	0.6887286
##	2234	2234	1	24	1	2	74	1	2	1	5	0.4252925
##	2235	2235	1	28	1	2	75	3	2	1	3	0.6183145
##	2236	2236	1	18	1	2	76	2	1	0	2	0.8742509
##	2237	2237	1	30	1	2	77	2	2	1	4	0.7501458
##	2238	2238	1	20	1	2	78	1	2	1	4	0.3436001
##	2239	2239	1	24	1	2	79	1	2	1	5	0.3793904
##	2240	2240	1	30	1	1	80	1	2	0	3	0.3645949
##	2241	2241	1	21	1	1	81	1	1	1	4	0.4599887
##	2242	2242	1	27	1	2	82	2	2	1	4	0.5309559
##	2243	2243	1	22	1	2	83	1	2	1	5	0.4377116
##	2244	2244	1	24	1	2	84	3	2	1	3	0.7587122
##	2245	2245	1	28	1	1	85	1	1	1	4	0.3212917
##	2246	2246	1	18	1	2	86	2	1	0	2	0.7084128
##	2247	2247	1	30	1	1	87	3	1	1	3	1.2007103
##	2248	2248	1	20	1	2	88	2	2	1	3	0.9034592
##	2249	2249	1	24	1	2	89	2	1	0	2	0.8596626
##	2250	2250	1	30	1	1	90	2	1	1	3	0.3965352
##	2251	2251	1	21	1	1	91	2	1	1	4	0.5221813
##	2252	2252	1	27	1	2	92	1	1	0	4	0.6033041
##	2253	2253	1	22	1	1	93	3	2	0	1	0.8300720
##	2254	2254	1	24	1	1	94	3	2	0	2	1.1870933
##	2255	2255	1	28	1	1	95	1	1	1	4	0.5094196
##	2256	2256	1	18	1	2	96	1	2	1	4	0.4777074
##	2257	2257	1	30	1	2	97	1	2	1	5	0.4741412
##	2258	2258	1	20	1	1	98	2	1	1	3	0.3685948
##	2259	2259	1	24	1	1	99	3	1	1	2	0.7622575
##	2260	2260	1	30	1	2	100	3	1	0	1	0.9932476
##	2261	2261	1	21	1	1	101	2	1	1	3	0.4913631
##	2262	2262	1	27	1	1	102	1	1	1	5	0.3475351
##	2263	2263	1	22	1	2	103	3	2	1	3	0.9414225
##	2264	2264	1	24	1	2	104	1	2	1	5	0.4813865
##	2265	2265	1	28	1	1	105	2	2	0	3	0.3539713
##	2266	2266	1	18	1	2	106	2	1	0	2	0.8159470
##	2267	2267	1	30	1	1	107	2	1	1	3	0.8256813
##	2268	2268	1	20	1	2	108	2	2	1	4	0.5052851
##	2269	2269	1	24	1	2	109	3	2	1	3	0.6972699
##	2270	2270	1	30	1	1	110	2	1	1	4	0.6104520
##	2271	2271	1	21	1	1	111	3	2	0	2	1.3449959
##	2272	2272	1	27	1	1	112	3	2	0	1	0.8159282
##	2273	2273	1	22	1	2	113	1	2	1	5	0.3444345
##	2274	2274	1	24	1	1	114	3	2	0	1	1.0423825
##	2275	2275	1	28	1	1	115	3	1	1	2	0.8192029
##	2276	2276	1	18	1	2	116	1	2	1	4	0.3271660
##	2277	2277	1	30	1	2	117	2	2	1	3	0.5759623
##	2278	2278	1	20	1	1	118	3	2	0	1	1.5778356

##	2279	2279	1	24	1	1	119	3	2	0	1	0.8801532
##	2280	2280	1	30	1	2	120	1	2	1	4	0.3657111
##	2281	2281	1	21	1	1	121	2	2	0	2	0.5834432
##	2282	2282	1	27	1	2	122	1	2	1	4	0.4996641
##	2283	2283	1	22	1	2	123	2	1	0	3	0.7756041
##	2284	2284	1	24	1	2	124	1	2	1	4	0.5230263
##	2285	2285	1	28	1	2	125	3	1	0	1	0.9866645
##	2286	2286	1	18	1	1	126	2	2	0	3	0.7030740
##	2287	2287	1	30	1	1	127	3	2	0	2	0.8425237
##	2288	2288	1	20	1	2	128	2	2	1	4	0.4616118
##	2289	2289	1	24	1	2	129	3	2	1	2	0.6252256
##	2290	2290	1	30	1	2	130	3	2	1	3	0.7199080
##	2291	2291	1	21	1	2	131	1	2	1	4	0.5008544
##	2292	2292	1	27	1	2	132	3	1	0	2	0.7494023
##	2293	2293	1	22	1	2	133	3	2	1	3	0.7113318
##	2294	2294	1	24	1	1	134	3	1	1	2	0.7356420
##	2295	2295	1	28	1	2	135	3	1	0	2	0.5967058
##	2296	2296	1	18	1	1	136	3	1	1	3	1.0235213
##	2297	2297	1	30	1	2	137	1	2	1	4	0.5309135
##	2298	2298	1	20	1	2	138	3	2	1	2	0.7763011
##	2299	2299	1	24	1	1	139	1	2	0	4	0.6933783
##	2300	2300	1	30	1	1	140	1	1	1	4	0.4617700
##	2301	2301	1	21	1	1	141	3	2	0	2	0.7053376
##	2302	2302	1	27	1	1	142	1	2	0	3	0.5471384
##	2303	2303	1	22	1	1	143	2	1	1	3	0.3857099
##	2304	2304	1	24	1	1	144	2	2	0	2	0.4881168
##	2305	2305	1	28	1	1	145	1	1	1	4	0.4727629
##	2306	2306	1	18	1	1	146	1	1	1	4	0.2941847
##	2307	2307	1	30	1	1	147	2	1	1	4	0.5570299
##	2308	2308	1	20	1	2	148	3	2	1	3	0.5196783
##	2309	2309	1	24	1	2	149	3	2	1	2	0.6832035
##	2310	2310	1	30	1	2	150	1	2	1	4	0.3931876
##	2311	2311	1	21	1	1	151	1	1	1	4	0.5273627
##	2312	2312	1	27	1	2	152	1	2	1	4	0.3114765
##	2313	2313	1	22	1	1	153	3	2	0	2	1.2593494
##	2314	2314	1	24	1	1	154	1	1	1	5	0.3865931
##	2315	2315	1	28	1	2	155	3	2	1	3	0.8544662
##	2316	2316	1	18	1	1	156	1	1	1	4	0.5413490
##	2317	2317	1	30	1	2	157	2	1	0	3	0.8325009
##	2318	2318	1	20	1	1	158	1	1	1	4	0.5191319
##	2319	2319	1	24	1	2	159	2	2	1	3	0.5354546
##	2320	2320	1	30	1	1	160	2	1	1	4	0.3883396
##	2321	2321	1	21	1	2	161	1	2	1	4	0.4447940
##	2322	2322	1	27	1	2	162	3	1	0	1	1.3709007
##	2323	2323	1	22	1	1	163	1	1	1	5	0.3767143
##	2324	2324	1	24	1	2	164	2	1	0	2	0.3944740
##	2325	2325	1	28	1	2	165	1	1	0	4	0.5081249
##	2326	2326	1	18	1	1	166	3	2	0	1	0.2692918
##	2327	2327	1	30	1	2	167	3	2	1	3	0.9474584
##	2328	2328	1	20	1	1	168	1	1	1	5	0.3507624
##	2329	2329	1	24	1	1	169	3	1	1	3	0.9697200
##	2330	2330	1	30	1	1	170	2	2	0	3	0.4911199
##	2331	2331	1	21	1	1	171	3	1	1	2	0.6649858
##	2332	2332	1	27	1	1	172	2	1	1	3	0.6816010

##	2333	2333	1	22	1	2	173	2	1	0	3	0.9036344
##	2334	2334	1	24	1	1	174	2	1	1	4	0.3810076
##	2335	2335	1	28	1	1	175	1	1	1	4	0.4422688
##	2336	2336	1	18	1	1	176	2	2	0	2	0.6879075
##	2337	2337	1	30	1	2	177	2	1	0	3	0.7625130
##	2338	2338	1	20	1	1	178	1	2	0	3	0.5617315
##	2339	2339	1	24	1	1	179	2	2	0	2	0.6834276
##	2340	2340	1	30	1	2	180	1	1	0	3	0.4260579
##	2341	2341	1	21	1	1	181	2	2	0	2	0.6099911
##	2342	2342	1	27	1	1	182	1	1	1	5	0.3879562
##	2343	2343	1	22	1	1	183	3	1	1	3	0.6560534
##	2344	2344	1	24	1	2	184	2	2	1	4	0.7743913
##	2345	2345	1	28	1	1	185	3	2	0	2	1.5422954
##	2346	2346	1	18	1	2	186	1	2	1	4	0.4306387
##	2347	2347	1	30	1	1	187	2	1	1	4	0.5028732
##	2348	2348	1	20	1	2	188	2	2	1	3	0.7434418
##	2349	2349	1	24	1	1	189	3	1	1	3	0.9592629
##	2350	2350	1	30	1	1	190	2	1	1	4	0.5390578
##	2351	2351	1	21	1	1	191	2	2	0	3	0.5482889
##	2352	2352	1	27	1	1	192	3	2	0	2	0.8125452
##	2353	2353	1	22	1	1	193	2	1	1	4	0.6522239
##	2354	2354	1	24	1	1	194	3	2	0	2	1.7520926
##	2355	2355	1	28	1	2	195	2	2	1	3	0.6588055
##	2356	2356	1	18	1	2	196	3	2	1	3	0.9147139
##	2357	2357	1	30	1	2	197	1	1	0	4	0.4335863
##	2358	2358	1	20	1	1	198	1	1	1	5	0.4190480
##	2359	2359	1	24	1	2	199	3	2	1	3	1.0694441
##	2360	2360	1	30	1	2	200	3	2	1	2	0.9676029
##	2361	2361	1	21	1	1	201	2	1	1	4	0.6928043
##	2362	2362	1	27	1	2	202	1	2	1	4	0.2498216
##	2363	2363	1	22	1	2	203	2	2	1	3	0.4465162
##	2364	2364	1	24	1	1	204	3	2	0	2	1.5827366
##	2365	2365	1	28	1	1	205	1	1	1	5	0.4247755
##	2366	2366	1	18	1	1	206	3	2	0	1	1.7146672
##	2367	2367	1	30	1	1	207	2	1	1	4	0.5532303
##	2368	2368	1	20	1	2	208	3	2	1	2	0.8550833
##	2369	2369	1	24	1	1	209	2	2	0	2	0.5864324
##	2370	2370	1	30	1	1	210	2	1	1	4	0.6953404
##	2371	2371	1	21	1	2	211	1	2	1	5	0.4057153
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##	2373	2373	1	22	1	1	213	3	1	1	2	0.9539656
##	2374	2374	1	24	1	1	214	2	1	1	3	0.5045059
##	2375	2375	1	28	1	2	215	2	2	1	4	0.4233018
##	2376	2376	1	18	1	2	216	1	2	1	5	0.4074139
##	2377	2377	1	30	1	2	217	2	2	1	3	0.6036208
##	2378	2378	1	20	1	1	218	1	1	1	5	0.4572729
##	2379	2379	1	24	1	2	219	3	2	1	2	0.7844514
##	2380	2380	1	30	1	2	220	2	2	1	3	0.4906638
##	2381	2381	1	21	1	1	221	3	2	0	2	1.2699846
##	2382	2382	1	27	1	1	222	1	1	1	5	0.3616624
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##	2384	2384	1	24	1	1	224	1	2	0	3	0.4760977
##	2385	2385	1	28	1	1	225	3	1	1	2	1.2629440
##	2386	2386	1	18	1	2	226	2	2	1	3	0.5120789

##	2387	2387	1	30	1	1	227	3	2	0	1	0.7084243
##	2388	2388	1	20	1	1	228	3	2	0	1	0.5183954
##	2389	2389	1	24	1	2	229	1	2	1	5	0.4536484
##	2390	2390	1	30	1	1	230	1	1	1	5	0.3084124
##	2391	2391	1	21	1	1	231	1	1	1	4	0.2881024
##	2392	2392	1	27	1	2	232	3	1	0	2	0.6400150
##	2393	2393	1	22	1	2	233	2	1	0	3	0.7629680
##	2394	2394	1	24	1	2	234	3	1	0	2	1.0502251
##	2395	2395	1	28	1	1	235	1	1	1	5	0.4934841
##	2396	2396	1	18	1	2	236	2	2	1	4	0.6415396
##	2397	2397	1	30	1	1	237	1	1	1	5	0.3102757
##	2398	2398	1	20	1	2	238	3	2	1	3	0.7538882
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##	2161	1.1317601										
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## 2362 0.7188911
## 2363 1.0296686
## 2364 2.8248969
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## 2377 1.2778938
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## 2388 1.1432378
## 2389 1.0409375
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## 2394 1.9835287
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## 2396 1.3378056
## 2397 0.8144087
## 2398 1.5153163
## 2399 1.4253272
## 2400 1.4249378
```

```
# remember the format we use is [rows, columns]
```

```
# We can also read out stuff this way:
```

```
data[,'conf'] # read out the confidence column
```

```
##      [1] 2 1 4 3 4 5 2 4 1 4 5 2 1 3 3 4 4 5 4 4 3 5 4 2 3 4 2 5 2 3 5 4 4 5
##      [35] 5 4 4 1 4 5 4 3 2 4 1 2 1 1 2 2 2 4 2 5 4 3 5 4 1 2 4 2 3 3 2 3 4 1
##      [69] 2 4 5 3 3 3 4 3 5 3 2 2 3 4 3 4 2 2 3 4 3 4 4 5 5 2 4 3 3 3 4 5 5 4
##     [103] 4 5 5 5 4 5 1 3 3 3 2 2 1 1 2 3 3 4 5 4 3 3 2 5 3 2 3 5 4 3 1 3 5 2
##     [137] 3 3 4 2 3 3 3 5 3 2 3 2 2 1 2 5 2 1 2 5 2 2 4 2 5 4 4 2 5 4 5 3 2
##     [171] 3 3 4 3 4 2 2 3 5 5 3 3 2 4 1 2 4 4 3 4 3 2 3 4 2 2 3 2 5 2 4 4 3 2
##     [205] 3 3 2 2 3 2 2 2 4 1 3 5 2 3 4 3 5 5 3 5 3 5 3 3 2 5 5 2 2 4 2 1 4 3
##     [239] 4 5 4 5 2 3 3 2 4 5 2 1 1 2 3 2 3 3 2 4 4 3 4 2 3 3 3 4 2 3 3 2 3 2
##     [273] 4 2 4 3 4 3 2 5 5 4 4 4 3 1 4 3 4 4 5 2 4 4 3 5 5 2 2 5 4 4 4 4 2 5
##     [307] 4 4 4 3 3 3 2 2 5 1 2 4 5 3 3 2 3 5 3 4 3 1 4 4 4 5 2 3 1 3 4 5 1 2
```

```

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## [2381] 2 5 3 3 2 3 1 1 5 5 4 2 3 2 5 4 5 3 2 2
```

but this is generally a bit cumbersome

We do not need every column of the dataset. So we can take only the columns we want out of raw data, and store these as a new data frame called 'data'

Create a new dataset with nicely named variables and only what we need

-----

Tasks

-----

1. Ohno! We forgot the subject number! Add something to the

code above so we can include subject number

Hint: type head(raw_data) and have a look at the names of the

first few columns so you know what to put in there

*# We can also store *both* of these datasets in a list*

```
allData <- list("raw_data" = raw_data,
               "data" = data)
```

```
allData <- list("raw_data" = raw_data,
               "my_data" = data)
```

We can access the labels in these data in two ways:

1. Using the label name we setup just before:

```
allData["raw_data"]
```

```
## $raw_data
```

```
##      X subj_no age group stim trial difficulty resp corr conf
## 1      1      10  23     2     2      1          2     1    0    2
## 2      2      10  36     2     1      2          3     2    0    1
## 3      3      10  38     2     2      3          2     2    1    4
## 4      4      10  25     2     2      4          1     1    0    3
## 5      5      10  20     2     1      5          2     1    1    4
## 6      6      10  40     2     1      6          1     1    1    5
## 7      7      10  23     2     2      7          3     1    0    2
## 8      8      10  20     2     2      8          1     1    0    4
## 9      9      10  40     2     2      9          3     1    0    1
## 10     10      10  23     2     2     10          1     1    0    4
## 11     11      10  23     2     1     11          1     1    1    5
## 12     12      10  36     2     1     12          2     2    0    2
## 13     13      10  38     2     2     13          3     1    0    1
## 14     14      10  25     2     2     14          2     2    1    3
## 15     15      10  20     2     1     15          2     2    0    3
## 16     16      10  40     2     1     16          2     1    1    4
## 17     17      10  23     2     1     17          1     1    1    4
## 18     18      10  20     2     2     18          1     2    1    5
## 19     19      10  40     2     1     19          1     1    1    4
## 20     20      10  23     2     1     20          1     2    0    4
## 21     21      10  23     2     2     21          3     2    1    3
```


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## 1868 1868	3	25	1	1	188	3	1	1	3
## 1869 1869	3	36	1	2	189	3	2	1	2
## 1870 1870	3	36	1	2	190	1	1	0	4
## 1871 1871	3	32	1	2	191	2	2	1	4
## 1872 1872	3	26	1	1	192	2	1	1	3
## 1873 1873	3	23	1	2	193	3	1	0	1
## 1874 1874	3	28	1	1	194	2	2	0	3
## 1875 1875	3	36	1	1	195	1	1	1	5
## 1876 1876	3	30	1	1	196	1	2	0	4
## 1877 1877	3	34	1	2	197	3	2	1	3
## 1878 1878	3	25	1	1	198	1	1	1	5
## 1879 1879	3	36	1	2	199	1	2	1	4
## 1880 1880	3	36	1	1	200	1	1	1	4
## 1881 1881	3	32	1	2	201	2	2	1	4
## 1882 1882	3	26	1	2	202	1	2	1	4
## 1883 1883	3	23	1	1	203	1	1	1	5
## 1884 1884	3	28	1	1	204	1	2	0	4
## 1885 1885	3	36	1	1	205	1	1	1	5
## 1886 1886	3	30	1	1	206	2	1	1	4
## 1887 1887	3	34	1	1	207	1	2	0	4
## 1888 1888	3	25	1	2	208	2	1	0	2
## 1889 1889	3	36	1	1	209	3	2	0	1
## 1890 1890	3	36	1	1	210	2	2	0	3
## 1891 1891	3	32	1	1	211	3	2	0	1
## 1892 1892	3	26	1	1	212	2	1	1	4
## 1893 1893	3	23	1	1	213	2	1	1	3
## 1894 1894	3	28	1	2	214	1	2	1	4
## 1895 1895	3	36	1	2	215	2	1	0	2
## 1896 1896	3	30	1	2	216	2	1	0	3
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## 1899 1899	3	36	1	2	219	3	2	1	2
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## 1903 1903	3	23	1	2	223	3	1	0	1
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## 1906 1906	3	30	1	1	226	3	1	1	2
## 1907 1907	3	34	1	1	227	2	1	1	4
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## 1912 1912	3	26	1	2	232	3	1	0	1
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## 1914 1914	3	28	1	1	234	2	2	0	3
## 1915 1915	3	36	1	2	235	3	1	0	1
## 1916 1916	3	30	1	2	236	1	1	0	3
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## 1930 1930	2	24	2	2	10	2	2	1	4
## 1931 1931	2	29	2	2	11	2	2	1	4
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## 1941 1941	2	29	2	2	21	3	1	0	1
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## 1954 1954	2	31	2	2	34	3	2	1	2
## 1955 1955	2	24	2	1	35	1	2	0	4
## 1956 1956	2	19	2	2	36	3	1	0	2
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## 1961 1961	2	29	2	2	41	1	2	1	4
## 1962 1962	2	30	2	1	42	1	2	0	3
## 1963 1963	2	23	2	2	43	1	1	0	3
## 1964 1964	2	31	2	1	44	3	2	0	2
## 1965 1965	2	24	2	1	45	1	1	1	4

## 1966 1966	2	19	2	1	46	2	2	0	3
## 1967 1967	2	18	2	1	47	3	1	1	3
## 1968 1968	2	30	2	1	48	1	1	1	4
## 1969 1969	2	36	2	1	49	1	1	1	4
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## 1971 1971	2	29	2	1	51	2	2	0	2
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## 1973 1973	2	23	2	1	53	1	1	1	5
## 1974 1974	2	31	2	1	54	3	2	0	1
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## 1976 1976	2	19	2	2	56	3	1	0	2
## 1977 1977	2	18	2	2	57	1	1	0	4
## 1978 1978	2	30	2	1	58	1	1	1	5
## 1979 1979	2	36	2	1	59	2	2	0	2
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## 1981 1981	2	29	2	1	61	1	2	0	3
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## 1984 1984	2	31	2	1	64	3	2	0	2
## 1985 1985	2	24	2	1	65	2	2	0	3
## 1986 1986	2	19	2	1	66	1	1	1	5
## 1987 1987	2	18	2	1	67	2	2	0	3
## 1988 1988	2	30	2	1	68	1	1	1	5
## 1989 1989	2	36	2	2	69	2	2	1	3
## 1990 1990	2	24	2	2	70	3	1	0	2
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## 1994 1994	2	31	2	1	74	1	1	1	5
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## 2011 2011	2	29	2	2	91	1	2	1	4
## 2012 2012	2	30	2	2	92	3	1	0	1
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## 2014 2014	2	31	2	2	94	2	1	0	2
## 2015 2015	2	24	2	2	95	3	2	1	2
## 2016 2016	2	19	2	2	96	2	1	0	3
## 2017 2017	2	18	2	1	97	3	1	1	3
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## 2019 2019	2	36	2	1	99	1	1	1	5

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## 2200 2200	1	30	1	1	40	1	2	0	4
## 2201 2201	1	21	1	2	41	1	1	0	4
## 2202 2202	1	27	1	1	42	1	1	1	4
## 2203 2203	1	22	1	2	43	1	2	1	5
## 2204 2204	1	24	1	1	44	1	1	1	4
## 2205 2205	1	28	1	2	45	1	2	1	4
## 2206 2206	1	18	1	2	46	1	2	1	4
## 2207 2207	1	30	1	2	47	1	1	0	4
## 2208 2208	1	20	1	2	48	1	2	1	4
## 2209 2209	1	24	1	2	49	3	2	1	3
## 2210 2210	1	30	1	2	50	2	1	0	3
## 2211 2211	1	21	1	1	51	1	1	1	5
## 2212 2212	1	27	1	2	52	2	2	1	4
## 2213 2213	1	22	1	1	53	2	1	1	3
## 2214 2214	1	24	1	2	54	3	2	1	2
## 2215 2215	1	28	1	2	55	2	1	0	3
## 2216 2216	1	18	1	2	56	2	2	1	4
## 2217 2217	1	30	1	1	57	2	2	0	3
## 2218 2218	1	20	1	2	58	1	2	1	4
## 2219 2219	1	24	1	2	59	3	2	1	2
## 2220 2220	1	30	1	2	60	1	2	1	5
## 2221 2221	1	21	1	2	61	1	1	0	4
## 2222 2222	1	27	1	2	62	2	1	0	3
## 2223 2223	1	22	1	2	63	2	2	1	4
## 2224 2224	1	24	1	2	64	2	2	1	4
## 2225 2225	1	28	1	2	65	1	1	0	3
## 2226 2226	1	18	1	1	66	2	2	0	2
## 2227 2227	1	30	1	1	67	1	1	1	5
## 2228 2228	1	20	1	2	68	2	2	1	3
## 2229 2229	1	24	1	2	69	3	1	0	2
## 2230 2230	1	30	1	2	70	3	2	1	2
## 2231 2231	1	21	1	1	71	3	2	0	2
## 2232 2232	1	27	1	1	72	3	2	0	2
## 2233 2233	1	22	1	2	73	2	1	0	3
## 2234 2234	1	24	1	2	74	1	2	1	5
## 2235 2235	1	28	1	2	75	3	2	1	3

##	2236	2236	1	18	1	2	76	2	1	0	2
##	2237	2237	1	30	1	2	77	2	2	1	4
##	2238	2238	1	20	1	2	78	1	2	1	4
##	2239	2239	1	24	1	2	79	1	2	1	5
##	2240	2240	1	30	1	1	80	1	2	0	3
##	2241	2241	1	21	1	1	81	1	1	1	4
##	2242	2242	1	27	1	2	82	2	2	1	4
##	2243	2243	1	22	1	2	83	1	2	1	5
##	2244	2244	1	24	1	2	84	3	2	1	3
##	2245	2245	1	28	1	1	85	1	1	1	4
##	2246	2246	1	18	1	2	86	2	1	0	2
##	2247	2247	1	30	1	1	87	3	1	1	3
##	2248	2248	1	20	1	2	88	2	2	1	3
##	2249	2249	1	24	1	2	89	2	1	0	2
##	2250	2250	1	30	1	1	90	2	1	1	3
##	2251	2251	1	21	1	1	91	2	1	1	4
##	2252	2252	1	27	1	2	92	1	1	0	4
##	2253	2253	1	22	1	1	93	3	2	0	1
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##	2255	2255	1	28	1	1	95	1	1	1	4
##	2256	2256	1	18	1	2	96	1	2	1	4
##	2257	2257	1	30	1	2	97	1	2	1	5
##	2258	2258	1	20	1	1	98	2	1	1	3
##	2259	2259	1	24	1	1	99	3	1	1	2
##	2260	2260	1	30	1	2	100	3	1	0	1
##	2261	2261	1	21	1	1	101	2	1	1	3
##	2262	2262	1	27	1	1	102	1	1	1	5
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##	2265	2265	1	28	1	1	105	2	2	0	3
##	2266	2266	1	18	1	2	106	2	1	0	2
##	2267	2267	1	30	1	1	107	2	1	1	3
##	2268	2268	1	20	1	2	108	2	2	1	4
##	2269	2269	1	24	1	2	109	3	2	1	3
##	2270	2270	1	30	1	1	110	2	1	1	4
##	2271	2271	1	21	1	1	111	3	2	0	2
##	2272	2272	1	27	1	1	112	3	2	0	1
##	2273	2273	1	22	1	2	113	1	2	1	5
##	2274	2274	1	24	1	1	114	3	2	0	1
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##	2276	2276	1	18	1	2	116	1	2	1	4
##	2277	2277	1	30	1	2	117	2	2	1	3
##	2278	2278	1	20	1	1	118	3	2	0	1
##	2279	2279	1	24	1	1	119	3	2	0	1
##	2280	2280	1	30	1	2	120	1	2	1	4
##	2281	2281	1	21	1	1	121	2	2	0	2
##	2282	2282	1	27	1	2	122	1	2	1	4
##	2283	2283	1	22	1	2	123	2	1	0	3
##	2284	2284	1	24	1	2	124	1	2	1	4
##	2285	2285	1	28	1	2	125	3	1	0	1
##	2286	2286	1	18	1	1	126	2	2	0	3
##	2287	2287	1	30	1	1	127	3	2	0	2
##	2288	2288	1	20	1	2	128	2	2	1	4
##	2289	2289	1	24	1	2	129	3	2	1	2

##	2290	2290	1	30	1	2	130	3	2	1	3
##	2291	2291	1	21	1	2	131	1	2	1	4
##	2292	2292	1	27	1	2	132	3	1	0	2
##	2293	2293	1	22	1	2	133	3	2	1	3
##	2294	2294	1	24	1	1	134	3	1	1	2
##	2295	2295	1	28	1	2	135	3	1	0	2
##	2296	2296	1	18	1	1	136	3	1	1	3
##	2297	2297	1	30	1	2	137	1	2	1	4
##	2298	2298	1	20	1	2	138	3	2	1	2
##	2299	2299	1	24	1	1	139	1	2	0	4
##	2300	2300	1	30	1	1	140	1	1	1	4
##	2301	2301	1	21	1	1	141	3	2	0	2
##	2302	2302	1	27	1	1	142	1	2	0	3
##	2303	2303	1	22	1	1	143	2	1	1	3
##	2304	2304	1	24	1	1	144	2	2	0	2
##	2305	2305	1	28	1	1	145	1	1	1	4
##	2306	2306	1	18	1	1	146	1	1	1	4
##	2307	2307	1	30	1	1	147	2	1	1	4
##	2308	2308	1	20	1	2	148	3	2	1	3
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##	2311	2311	1	21	1	1	151	1	1	1	4
##	2312	2312	1	27	1	2	152	1	2	1	4
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##	2319	2319	1	24	1	2	159	2	2	1	3
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##	2322	2322	1	27	1	2	162	3	1	0	1
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##	2325	2325	1	28	1	2	165	1	1	0	4
##	2326	2326	1	18	1	1	166	3	2	0	1
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##	2331	2331	1	21	1	1	171	3	1	1	2
##	2332	2332	1	27	1	1	172	2	1	1	3
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##	2336	2336	1	18	1	1	176	2	2	0	2
##	2337	2337	1	30	1	2	177	2	1	0	3
##	2338	2338	1	20	1	1	178	1	2	0	3
##	2339	2339	1	24	1	1	179	2	2	0	2
##	2340	2340	1	30	1	2	180	1	1	0	3
##	2341	2341	1	21	1	1	181	2	2	0	2
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##	2344	2344	1	24	1	2	184	2	2	1	4
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##	2346	2346	1	18	1	2	186	1	2	1	4
##	2347	2347	1	30	1	1	187	2	1	1	4
##	2348	2348	1	20	1	2	188	2	2	1	3
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##	2350	2350	1	30	1	1	190	2	1	1	4
##	2351	2351	1	21	1	1	191	2	2	0	3
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##	2368	2368	1	20	1	2	208	3	2	1	2
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##	2377	2377	1	30	1	2	217	2	2	1	3
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##	2379	2379	1	24	1	2	219	3	2	1	2
##	2380	2380	1	30	1	2	220	2	2	1	3
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##	2382	2382	1	27	1	1	222	1	1	1	5
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##	2397	2397	1	30	1	1	237	1	1	1	5

##	2398	2398	1	20	1	2	238	3	2	1	3
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##	2400	2400	1	30	1	1	240	2	2	0	2
##		RT_day1			RT_day2						
##	1	0.60761494			1.5589454195						
##	2	0.70900369			1.7191396404						
##	3	0.62320134			1.5835719316						
##	4	0.68807593			1.6860737827						
##	5	0.72964798			1.7517576138						
##	6	0.40986839			1.2465058600						
##	7	0.73163809			1.7549019885						
##	8	0.44395248			1.3003587212						
##	9	1.34663842			2.7266025145						
##	10	0.56936275			1.4985069465						
##	11	0.34670307			1.1467046633						
##	12	0.74287703			1.7726595103						
##	13	0.99696099			2.1741121766						
##	14	0.64211892			1.6134617047						
##	15	0.84022110			1.9264631512						
##	16	0.59109391			1.5328421846						
##	17	0.61122270			1.5646456801						
##	18	0.48189435			1.3603068900						
##	19	0.38717101			1.2106439993						
##	20	0.62645332			1.5887100617						
##	21	0.32772079			1.1167126619						
##	22	0.45575074			1.3189999772						
##	23	0.40837268			1.2441426473						
##	24	0.57411528			1.5060159553						
##	25	1.01032222			2.1952229145						
##	26	0.66428165			1.6484788125						
##	27	0.36358039			1.1733708290						
##	28	0.56185333			1.4866420726						
##	29	0.73812986			1.7651589875						
##	30	0.76446834			1.8067737785						
##	31	0.35769718			1.1640753480						
##	32	0.61056975			1.5636140085						
##	33	0.32598242			1.1139660340						
##	34	0.40429136			1.2376941601						
##	35	0.40053839			1.2317644636						
##	36	0.34524324			1.1443981325						
##	37	0.40056035			1.2317991609						
##	38	1.14269255			2.4043680431						
##	39	0.34943628			1.1510231246						
##	40	0.32363422			1.1102558802						
##	41	0.47646070			1.3517217134						
##	42	0.50021394			1.3892518344						
##	43	0.68535150			1.6817691861						
##	44	0.59257262			1.5351785431						
##	45	0.59787724			1.5435598465						
##	46	0.90805273			2.0336371205						
##	47	0.64412268			1.6166276401						
##	48	0.33405567			1.1267217714						
##	49	0.62489066			1.5862410517						
##	50	0.55690563			1.4788247098						

## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 55	0.70445473	1.7119522773
## 56	0.69476067	1.6966356732
## 57	0.44563960	1.3030243721
## 58	0.74958963	1.7832654260
## 59	0.56853460	1.4971984736
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 65	0.67851650	1.6709698735
## 66	0.63499179	1.6022008426
## 67	0.55528581	1.4762653837
## 68	1.27402864	2.6118790652
## 69	0.21931196	0.9454267056
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 75	0.44734902	1.3057252614
## 76	0.49218507	1.3765662157
## 77	0.38395864	1.2055684670
## 78	0.58785392	1.5277230068
## 79	0.94625190	2.0939918136
## 80	0.74990464	1.7837631469
## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045
## 85	1.91458043	3.6239508813
## 86	0.55373794	1.4738197472
## 87	0.54724735	1.4635646178
## 88	0.31761021	1.1007379391
## 89	0.54030159	1.4525903197
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433
## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 95	0.41203240	1.2499249988
## 96	0.66632349	1.6517049250
## 97	0.79565802	1.8560534858
## 98	0.60857171	1.5604571033
## 99	0.47376829	1.3474677028
## 100	0.47998040	1.3572828435
## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080

## 105	0.29301375	1.0618755413
## 106	0.58250290	1.5192683946
## 107	0.53437471	1.4432258539
## 108	0.33606437	1.1298955090
## 109	1.29100895	2.6387079516
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 115	1.35553840	2.7406644844
## 116	1.29315232	2.6420944788
## 117	0.19309507	0.9040040253
## 118	0.60223445	1.5504442452
## 119	0.22209087	0.9498173838
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 125	0.69021981	1.6894611111
## 126	0.48973040	1.3726878471
## 127	0.74215682	1.7715215808
## 128	1.11807141	2.3654666384
## 129	0.63570711	1.6033310400
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 135	0.47280888	1.3459518399
## 136	0.72299283	1.7412424831
## 137	0.84721448	1.9375126879
## 138	0.71565088	1.7296421929
## 139	0.48778778	1.3696184980
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 145	0.75924730	1.7985245428
## 146	0.91092679	2.0381781374
## 147	0.40768154	1.2430506427
## 148	0.51028754	1.4051681183
## 149	1.09781942	2.3334684967
## 150	0.55291409	1.4725180652
## 151	1.01542119	2.2032792939
## 152	0.66699475	1.6527655116
## 153	0.45711318	1.3211526307
## 154	1.03947212	2.2412797648
## 155	0.92757503	2.0644823495
## 156	1.87401850	3.5598630368
## 157	0.47707108	1.3526861221
## 158	0.91417040	2.0433030366

## 159	1.18868301	2.4770329686
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 165	0.68404229	1.6797006286
## 166	0.33918117	1.1348200589
## 167	0.53567646	1.4452826108
## 168	0.37604605	1.1930665758
## 169	0.80690257	1.8738198642
## 170	0.85511292	1.9499922220
## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 175	0.72894961	1.7506541939
## 176	0.62019085	1.5788153482
## 177	0.63930468	1.6090152036
## 178	0.46757027	1.3376748348
## 179	0.42629950	1.2724670159
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 185	0.94151579	2.0865087534
## 186	0.83289322	1.9148851046
## 187	0.66725426	1.6531755364
## 188	0.30143931	1.0751879183
## 189	0.84816082	1.9390079004
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 195	0.77474604	1.8230125557
## 196	1.28726758	2.6327965891
## 197	0.90481953	2.0285286646
## 198	0.81646739	1.8889322839
## 199	0.44550921	1.3028183539
## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 205	0.85822203	1.9549046222
## 206	0.70337238	1.7102421634
## 207	0.54769292	1.4642686170
## 208	0.57035566	1.5000757471
## 209	0.70635349	1.7149523227
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201

## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 215	0.91020537	2.0370382974
## 216	0.42990794	1.2781683576
## 217	0.72365007	1.7422809188
## 218	0.80243081	1.8667544966
## 219	0.52390364	1.4266815530
## 220	0.46708691	1.3369111306
## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 225	0.69918014	1.7036184284
## 226	0.41653834	1.2570443897
## 227	0.41718838	1.2580714571
## 228	0.52946066	1.4354616561
## 229	0.99303853	2.1679146815
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 235	0.61357056	1.5683552905
## 236	1.36973695	2.7630981940
## 237	0.52499017	1.4283982844
## 238	0.82997084	1.9102677321
## 239	0.61075838	1.5639120457
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931
## 253	0.78974393	1.4539676649
## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381
## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
## 265	0.76448938	1.4140654815
## 266	0.42322889	0.8748739073

## 267	0.74778884	1.3876786268
## 268	0.44315970	0.9063645847
## 269	0.82237355	1.5055224702
## 270	0.58070863	1.1236918901
## 271	0.64835767	1.2305773796
## 272	0.36430260	0.7817703597
## 273	0.31517256	0.7041448999
## 274	0.60539987	1.1627040453
## 275	0.65769737	1.2453340954
## 276	0.79343030	1.4597921260
## 277	0.68013169	1.2807803186
## 278	1.00679175	1.7969032153
## 279	1.52565198	2.6167023873
## 280	0.42452874	0.8769276640
## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
## 284	0.42436780	0.8766733852
## 285	0.59520731	1.1465998065
## 286	1.12367626	1.9815807409
## 287	0.50413538	1.0027061525
## 288	0.72268776	1.3480189157
## 289	0.60595022	1.1635735937
## 290	0.67219248	1.2682363647
## 291	0.45708081	0.9283599332
## 292	0.87842594	1.5940852381
## 293	0.56262020	1.0951121699
## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
## 297	0.45492038	0.9249464617
## 298	0.68032951	1.2810928728
## 299	0.47450257	0.9558863204
## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078
## 307	0.49275413	0.9847237780
## 308	0.53640915	1.0536987070
## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
## 314	0.94515695	1.6995202396
## 315	0.37260027	0.7948806855
## 316	0.73481533	1.3671804825
## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
## 320	0.64711752	1.2286179340

## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
## 326	0.76142983	1.4092313827
## 327	0.92105407	1.6614376821
## 328	1.10139356	1.9463740794
## 329	0.28982203	0.6640910630
## 330	0.46610706	0.9426214159
## 331	0.37185904	0.7937095342
## 332	0.37653795	0.8011022093
## 333	1.05002795	1.8652164154
## 334	0.68007611	1.2806925047
## 335	0.61581929	1.1791667326
## 336	0.57703146	1.1178819533
## 337	0.45378298	0.9231493657
## 338	0.34148302	0.7457154225
## 339	1.38830866	2.3996999422
## 340	1.00671690	1.7967849604
## 341	0.37045785	0.7914956549
## 342	1.27697075	2.2237860410
## 343	0.59039530	1.1389968245
## 344	0.44991128	0.9170320737
## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903
## 361	0.64999740	1.2331681388
## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
## 364	0.60068921	1.1552612063
## 365	0.75512927	1.3992764923
## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564
## 371	0.57029967	1.1072457309
## 372	0.56276979	1.0953485229
## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504

## 375	0.74269915	1.3796369180
## 376	0.53612783	1.0532542196
## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
## 382	1.25914782	2.1956258159
## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765
## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329
## 415	1.02365143	1.8235415129
## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392
## 425	0.50621102	1.0059856673
## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954

## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
## 437	0.49060529	0.9813286153
## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299
## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534
## 469	0.38331819	0.8118149983
## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712
## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449

## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 487	0.58628292	0.7280571582
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 490	1.90348342	2.8092339498
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813
## 496	0.50552613	0.6004614286
## 497	0.60919450	0.7642574655
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 500	0.34392259	0.3451278347
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 507	1.01819048	1.4104711088
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 510	0.35609971	0.3643676853
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 517	0.61831502	0.7786678831
## 518	0.42033311	0.4658564623
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## 520	0.46736755	0.5401708827
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455
## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 527	0.53822021	0.6521180843
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 530	0.66261779	0.8486662597
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## 532	0.41767299	0.4616534736
## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
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## 537	0.94027082	1.2873580369
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 540	0.47593981	0.5537150425
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 547	0.49090845	0.5773655064
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 550	0.70937442	0.9225417324
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891
## 556	0.70905772	0.9220413487
## 557	1.22170141	1.7320183711
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 560	0.46850458	0.5419673876
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
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## 567	0.50310230	0.5966317769
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 570	0.50025695	0.5921361353
## 571	0.40108908	0.4354508987
## 572	0.43565687	0.4900679986
## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 577	0.82701210	1.1084092618
## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 580	0.40090210	0.4351554685
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
## 586	1.35330739	1.9399558302
## 587	1.16115892	1.6363612425
## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
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## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
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## 596	0.63806618	0.8098747128
## 597	0.49750604	0.5877896872
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648
## 600	0.31570164	0.3005387357
## 601	0.39402241	0.4242855579
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## 603	0.52353456	0.6289147532
## 604	0.86091730	1.1619794877
## 605	0.41106882	0.4512188764
## 606	0.88780250	1.2044581047
## 607	1.02433982	1.4201870604
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 610	0.28706576	0.2552940476
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332
## 616	0.34781451	0.3512770694
## 617	0.51439983	0.6144818785
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
## 620	0.24585816	0.1901860328
## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
## 625	0.77875902	1.0321694049
## 626	0.94832174	1.3000784971
## 627	0.63177708	0.7999379357
## 628	0.56995957	0.7022662675
## 629	0.35787457	0.3671719642
## 630	0.65287127	0.8332667572
## 631	0.88718994	1.2034902579
## 632	0.37893029	0.4004400118
## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
## 636	0.55246788	0.6746294045
## 637	0.50383804	0.5977942564
## 638	0.60018745	0.7500263124
## 639	0.74792839	0.9834569968
## 640	0.75140311	0.9889470549
## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639

## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 647	1.28472747	1.8315995449
## 648	1.03623818	1.4389864676
## 649	0.59314903	0.7389056186
## 650	0.39033931	0.4184662541
## 651	1.04545731	1.4535526975
## 652	0.46486987	0.5362245385
## 653	0.70385772	0.9138253508
## 654	0.59353371	0.7395134043
## 655	0.62377497	0.7872945959
## 656	0.73737962	0.9667899470
## 657	0.90119076	1.2256115454
## 658	0.79651735	1.0602275594
## 659	0.36076479	0.3717385141
## 660	0.64633610	0.8229411864
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## 662	0.45244342	0.5165907506
## 663	0.82950338	1.1123454855
## 664	0.72642366	0.9494795307
## 665	0.38029194	0.4025914070
## 666	0.53655948	0.6494941225
## 667	0.74107884	0.9726347129
## 668	0.69899227	0.9061379329
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## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
## 675	0.89945450	1.2228682612
## 676	0.58373866	0.7240372292
## 677	0.45773403	0.5249499202
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
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## 681	0.26265128	0.2167191769
## 682	0.58468404	0.7255309236
## 683	0.74901761	0.9851779663
## 684	0.90895685	1.2378819771
## 685	1.39303355	2.0027231607
## 686	0.43417486	0.4877264298
## 687	0.42649800	0.4755969911
## 688	0.90947100	1.2386943353
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## 690	0.49605445	0.5854961778
## 691	0.48915311	0.5745920544
## 692	0.44367120	0.5027306430
## 693	0.64684720	0.8237487286
## 694	0.31034486	0.2920750300
## 695	0.35008575	0.3548656315
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## 699	0.44597139	0.5063649514
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## 708	0.88307416	1.1969873137
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## 710	0.51715392	0.6188333473
## 711	0.45506817	0.5207378608
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## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 717	0.60625536	0.7596136204
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
## 720	0.69910866	0.9063218367
## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
## 726	0.28466403	-0.0321882744
## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
## 731	0.78413029	0.7569684170
## 732	0.26113374	-0.0693661333
## 733	0.43999489	0.2132344814
## 734	0.39972812	0.1496129810
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## 736	0.55441868	0.3940240715
## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193
## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
## 742	0.76156446	0.7213143998
## 743	0.65342612	0.5504558285
## 744	0.99508350	1.0902744861
## 745	0.81869282	0.8115772190
## 746	0.94691938	1.0141751730
## 747	0.44810032	0.2260410657
## 748	0.61125278	0.4838219518
## 749	0.32716606	0.0349649404
## 750	0.24395821	-0.0965034655
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## 757	0.79898868	0.7804446781
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## 761	0.48186742	0.2793930884
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## 766	0.68089613	0.5938584413
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## 772	0.44711705	0.2244874922
## 773	0.76698250	0.7298749033
## 774	0.63535938	0.5219103719
## 775	0.52222317	0.3431551651
## 776	0.40555233	0.1588152395
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## 779	0.66978059	0.5762958827
## 780	0.65049594	0.5458261499
## 781	0.47065187	0.2616725138
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## 783	0.64421860	0.5359079447
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## 786	0.48724955	0.2878968455
## 787	0.44102791	0.2148666491
## 788	0.72810896	0.6684547104
## 789	0.33805537	0.0521700478
## 790	0.41324762	0.1709737903
## 791	0.31033991	0.0083796217
## 792	1.17430250	1.3734405111
## 793	0.53691119	0.3663622315
## 794	0.57849728	0.4320682581
## 795	0.57144092	0.4209192135
## 796	0.43119413	0.1993292913
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## 798	0.33479843	0.0470240703
## 799	0.77677098	0.7453407009
## 800	0.75104855	0.7046992690
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## 808	0.57262766	0.4227942591
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## 810	0.35441542	0.0780189199
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## 817	0.43921617	0.2120041033
## 818	0.74268529	0.6914853147
## 819	0.73212189	0.6747951411
## 820	0.34571450	0.0642714735
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## 822	0.62899253	0.5118507485
## 823	1.16034014	1.3513799869
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## 827	1.15769758	1.3472047407
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## 832	0.71932126	0.6545701487
## 833	0.64475543	0.5367561391
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## 836	0.73460511	0.6787186370
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## 839	0.83975225	0.8448511148
## 840	0.85609303	0.8706695409
## 841	1.33874227	1.6332553429
## 842	0.65106463	0.5467246709
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## 848	0.36478545	0.0944035658
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## 850	0.37493668	0.1104425201
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## 860	0.82604003	0.8231858074

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## 869	0.46753237	0.2567437065
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## 874	0.58579490	0.4435984954
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## 877	0.55168465	0.3897043001
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## 882	0.44845649	0.2266038083
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## 899	0.50160708	0.3105817399
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## 910	0.60621185	0.4758572875
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## 915	0.36552636	0.0955742129
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## 946	0.55637382	0.3971131961
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## 955	0.58634790	0.4444722329
## 956	0.22263760	-0.1301900280
## 957	0.42847847	0.1950385413
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## 1011	0.38898327	1.0522950470
## 1012	0.44491870	1.1406730258
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## 1014	0.54526113	1.2992140705
## 1015	0.45077866	1.1499317633
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## 1017	0.58318782	1.3591382381
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## 1022	0.70906827	1.5580293518

## 1023	0.50529803	1.2360723629
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## 1496	0.77819495	0.9442407133
## 1497	0.83012740	1.0262939813
## 1498	0.85260925	1.0618153100
## 1499	0.96034221	1.2320333820
## 1500	0.46446804	0.4485522008
## 1501	0.41625515	0.3723758221
## 1502	1.28105691	1.7387626084
## 1503	0.72282191	0.8567513068
## 1504	0.73529142	0.8764531400
## 1505	0.44539641	0.4184190238
## 1506	1.49065404	2.0699260680
## 1507	0.76423010	0.9221762502
## 1508	0.86766376	1.0856014300

## 1509	0.42950098	0.3933042394
## 1510	0.42648453	0.3885382529
## 1511	0.89495452	1.1287208267
## 1512	0.63655690	0.7204525947
## 1513	0.29708389	0.1840852437
## 1514	0.54621898	0.5777186843
## 1515	0.81955325	1.0095868220
## 1516	0.78894381	0.9612239074
## 1517	0.70303769	0.8254922393
## 1518	0.52959835	0.5514580897
## 1519	0.60784674	0.6750905416
## 1520	0.78137802	0.9492699562
## 1521	0.72459866	0.8595585659
## 1522	0.63103302	0.7117248615
## 1523	0.86536070	1.0819626013
## 1524	0.48249528	0.4770352278
## 1525	1.12069306	1.4853877227
## 1526	0.65293869	0.7463358278
## 1527	0.48404222	0.4794793939
## 1528	0.90891236	1.1507742168
## 1529	0.70572816	0.8297431884
## 1530	0.71095171	0.8379963905
## 1531	0.93288081	1.1886443699
## 1532	0.58527685	0.6394301109
## 1533	0.71466877	0.8438693469
## 1534	0.40323671	0.3518066943
## 1535	0.57033170	0.6158167716
## 1536	0.84457812	1.0491261185
## 1537	0.56510276	0.6075550494
## 1538	0.87484309	1.0969447674
## 1539	0.54877281	0.5817537369
## 1540	0.69959770	0.8200570610
## 1541	0.86718609	1.0848467137
## 1542	0.29468294	0.1802917354
## 1543	0.34567027	0.2608517114
## 1544	0.54171269	0.5705987432
## 1545	0.37675011	0.3099578627
## 1546	1.17092430	1.5647530843
## 1547	1.14757412	1.5278597953
## 1548	0.38519655	0.3233032322
## 1549	0.28686221	0.1679349766
## 1550	1.55963690	2.1789189936
## 1551	0.65382076	0.7477294869
## 1552	0.63817002	0.7230013277
## 1553	1.05364191	1.3794469152
## 1554	0.38723881	0.3265300135
## 1555	0.61704888	0.6896299262
## 1556	0.55954353	0.5987714736
## 1557	0.98376627	1.2690433914
## 1558	0.86015521	1.0737379254
## 1559	1.50589809	2.0940116659
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## 1563	0.79768254	0.9750311026
## 1564	0.61013632	0.6787080790
## 1565	0.30740927	0.2003993434
## 1566	0.38450784	0.3222150851
## 1567	0.37061443	0.3002634904
## 1568	0.39436408	0.3377879385
## 1569	0.60476648	0.6702237233
## 1570	0.59038913	0.6475075126
## 1571	0.85223309	1.0612209725
## 1572	0.39021391	0.3312306701
## 1573	1.29815228	1.7657733007
## 1574	0.53057493	0.5530010819
## 1575	0.87412582	1.0958114817
## 1576	0.38679248	0.3258248135
## 1577	0.62303260	0.6990842030
## 1578	0.75870810	0.9134514874
## 1579	1.14952963	1.5309495036
## 1580	0.59006294	0.6469921295
## 1581	0.49525259	0.4971917869
## 1582	0.71558448	0.8453161669
## 1583	0.36942997	0.2983920498
## 1584	1.39813960	1.9237532532
## 1585	0.44778329	0.4221902915
## 1586	0.65023360	0.7420617826
## 1587	0.47519949	0.4655078902
## 1588	0.76675577	0.9261668124
## 1589	0.52357794	0.5419458314
## 1590	0.54197047	0.5710060295
## 1591	0.46082422	0.4427949607
## 1592	0.21384908	0.0525742333
## 1593	0.83159354	1.0286104774
## 1594	0.34904567	0.2661848468
## 1595	1.36143410	1.8657585740
## 1596	1.10250397	1.4566489695
## 1597	0.41591863	0.3718441219
## 1598	0.30443737	0.1957037312
## 1599	0.55027913	0.5841337216
## 1600	0.85482218	1.0653117430
## 1601	0.95262410	1.2198387723
## 1602	0.55798188	0.5963040622
## 1603	0.71722213	0.8479036545
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## 1605	0.49887192	0.5029103301
## 1606	0.64727135	0.7373814179
## 1607	0.59609684	0.6565257020
## 1608	1.38230221	1.8987301872
## 1609	0.34784258	0.2642839645
## 1610	0.65039474	0.7423163829
## 1611	0.48536769	0.4815736369
## 1612	0.42974471	0.3936893358
## 1613	0.37510061	0.3073516614
## 1614	0.84362826	1.0476253341
## 1615	0.56765077	0.6115809009
## 1616	0.65494334	0.7495031710

## 1617	1.00286538	1.2992199896
## 1618	0.57490691	0.6230456156
## 1619	0.90767500	1.1488191977
## 1620	1.48837391	2.0663234639
## 1621	0.88351202	1.1106416795
## 1622	0.51564159	0.5294064029
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## 1624	0.92396624	1.1745593567
## 1625	0.36607584	0.2930925221
## 1626	0.70322854	0.8257937852
## 1627	0.44354810	0.4154986856
## 1628	0.82988028	1.0259035309
## 1629	0.79977508	0.9783373217
## 1630	0.31296936	0.2091842836
## 1631	0.99492062	1.2866672717
## 1632	0.50484644	0.5123500718
## 1633	0.69805328	0.8176168696
## 1634	0.45041325	0.4263456296
## 1635	0.31034517	0.2050380567
## 1636	0.91661204	1.1629397079
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## 1638	0.43292596	0.3987157088
## 1639	0.61943370	0.6933979321
## 1640	0.32181017	0.2231527521
## 1641	0.57862895	0.6289264291
## 1642	0.77573999	0.9403618699
## 1643	1.33000899	1.8161068885
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## 1645	0.50943759	0.5196040833
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## 1648	1.23432023	1.6649186549
## 1649	0.43941640	0.4089705999
## 1650	1.35075300	1.8488824344
## 1651	0.79340586	0.9682739522
## 1652	0.57048172	0.6160538092
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## 1654	0.62967427	0.7095780437
## 1655	0.46548936	0.4501658858
## 1656	0.43209387	0.3974010095
## 1657	0.57217625	0.6187311681
## 1658	0.82378983	1.0162806238
## 1659	0.57184388	0.6182060277
## 1660	0.79384568	0.9689688706
## 1661	0.42895876	0.3924475258
## 1662	0.72186005	0.8552315771
## 1663	0.82936625	1.0250913653
## 1664	0.78435625	0.9539755711
## 1665	0.46357410	0.4471397681
## 1666	0.71783812	0.8488769179
## 1667	0.40325512	0.3518357868
## 1668	0.33226588	0.2396727739
## 1669	0.97784019	1.2596801989
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## 1671	0.59797010	0.6594854465
## 1672	0.53645527	0.5622920225
## 1673	0.44192816	0.4129391829
## 1674	1.12184352	1.4872054576
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## 1678	0.67638322	0.7833781716
## 1679	0.84533515	1.0503222201
## 1680	1.09082847	1.4382016778
## 1681	0.34255897	0.0492878699
## 1682	1.03855332	1.1489589467
## 1683	0.73312145	0.6663765922
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## 1686	1.13761797	1.3054810968
## 1687	0.52048224	0.3304066387
## 1688	0.77904757	0.7389398595
## 1689	0.48884801	0.2804245629
## 1690	0.52795420	0.3422123335
## 1691	0.28708489	-0.0383611744
## 1692	0.51867610	0.3275529397
## 1693	0.87216010	0.8860576582
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## 1695	1.09507086	1.2382566544
## 1696	0.44558786	0.2120735194
## 1697	1.44942524	1.7981365797
## 1698	0.69605806	0.6078164441
## 1699	1.06256853	1.1869029752
## 1700	0.69660083	0.6086740179
## 1701	0.81563804	0.7967528029
## 1702	0.48697570	0.2774663164
## 1703	0.46906889	0.2491735526
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## 1708	0.92902774	0.9759085384
## 1709	1.25695572	1.4940347483
## 1710	0.45435976	0.2259331264
## 1711	0.46778170	0.2471397945
## 1712	0.46997251	0.2506012714
## 1713	0.68411963	0.5889537164
## 1714	0.70434662	0.6209123637
## 1715	1.04903071	1.1655132174
## 1716	0.79283739	0.7607277793
## 1717	0.63145103	0.5057373283
## 1718	0.53499151	0.3533312868
## 1719	0.66725084	0.5623010244
## 1720	0.61760894	0.4838668214
## 1721	0.54768897	0.3733932816
## 1722	0.84032925	0.8357649170
## 1723	0.59117343	0.4420987174
## 1724	1.36716374	1.6681634172

## 1725	0.74537554	0.6857380552
## 1726	0.68885149	0.5964300586
## 1727	0.42686338	0.1824888430
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## 1729	0.70416207	0.6206207806
## 1730	0.38160634	0.1109827217
## 1731	0.50344239	0.3034836822
## 1732	0.50969350	0.3133604340
## 1733	1.09607226	1.2398388688
## 1734	0.38922565	0.1230212237
## 1735	0.39166999	0.1268832946
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## 1737	0.27504707	-0.0573809322
## 1738	0.42178634	0.1744671169
## 1739	0.62929115	0.5023247138
## 1740	0.47511003	0.2587185491
## 1741	2.06703076	2.7739533109
## 1742	0.46228718	0.2384584492
## 1743	1.03295356	1.1401113246
## 1744	0.41787875	0.1682931328
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## 1753	0.56689410	0.4037373889
## 1754	0.59577878	0.4493751706
## 1755	0.42922332	0.1862175566
## 1756	0.57091169	0.4100851740
## 1757	0.29154151	-0.0313197137
## 1758	0.48623035	0.2762886531
## 1759	0.67093176	0.5681168889
## 1760	0.69658441	0.6086480639
## 1761	0.48363224	0.2721836478
## 1762	0.50675121	0.3087116205
## 1763	0.79998468	0.7720204941
## 1764	0.34011580	0.0454276607
## 1765	0.73509045	0.6694876173
## 1766	1.27186498	1.5175913672
## 1767	0.59522668	0.4485028609
## 1768	0.62062579	0.4886334468
## 1769	0.78286953	0.7449785664
## 1770	1.38501332	1.6963657440
## 1771	0.71137947	0.6320242684
## 1772	0.58629406	0.4343893232
## 1773	0.66927894	0.5655054326
## 1774	0.78576745	0.7495572702
## 1775	0.63481561	0.5110533646
## 1776	1.31194745	1.5809216741
## 1777	0.30499853	-0.0100576131
## 1778	0.85162150	0.8536066759

## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
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## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
## 1800	1.56355427	1.9784604502
## 1801	0.48287831	0.2709924398
## 1802	0.48102844	0.2680696350
## 1803	0.47372959	0.2565374490
## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
## 1808	0.53173109	0.3481798289
## 1809	0.55829285	0.3901474142
## 1810	0.55202444	0.3802433107
## 1811	0.45466418	0.2264141155
## 1812	0.73262174	0.6655870564
## 1813	0.45866930	0.2327421922
## 1814	1.00507042	1.0960559729
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## 1816	1.08595175	1.2238484761
## 1817	0.47750938	0.2625095285
## 1818	0.78031136	0.7409366513
## 1819	0.88290178	0.9030295135
## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
## 1822	0.50753329	0.3099472951
## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571
## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758
## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186
## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999

## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
## 1842	0.70924514	0.6286520318
## 1843	0.68306940	0.5872943575
## 1844	0.36527721	0.0851826876
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## 1846	0.31789123	0.0103128463
## 1847	0.93275774	0.9818019272
## 1848	0.42839373	0.1849067986
## 1849	0.26478152	-0.0736004911
## 1850	0.80667876	0.7825971386
## 1851	0.29234669	-0.0300475215
## 1852	0.87921131	0.8971985763
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## 1860	0.97391433	1.0468293369
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## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
## 1868	0.82783971	0.8160314387
## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
## 1872	0.59203556	0.4434608852
## 1873	1.13696744	1.3044532551
## 1874	0.51690971	0.3247620403
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## 1879	0.24500598	-0.1048458411
## 1880	0.27680829	-0.0545982020
## 1881	0.59780823	0.4525817134
## 1882	0.32131601	0.0157240052
## 1883	0.33194804	0.0325226088
## 1884	0.50366457	0.3038347221
## 1885	0.44209088	0.2065482944
## 1886	0.68201057	0.5856214000

## 1887	0.50611987	0.3077140904
## 1888	0.66607314	0.5604402666
## 1889	1.08875214	1.2282730769
## 1890	0.50777878	0.3103351691
## 1891	0.59042451	0.4409154347
## 1892	0.64631389	0.5292206564
## 1893	0.62750473	0.4995021709
## 1894	0.38856081	0.1219707871
## 1895	0.40356357	0.1456751407
## 1896	0.68234318	0.5861469337
## 1897	0.28981596	-0.0340460734
## 1898	0.61507616	0.4798650424
## 1899	1.12051068	1.2784515741
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## 1901	1.19154526	1.3906862070
## 1902	0.75911076	0.7074397051
## 1903	0.38049786	0.1092313259
## 1904	0.46120582	0.2367499000
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## 1906	0.75553242	0.7017859319
## 1907	0.49740579	0.2939458591
## 1908	0.96580096	1.0340102195
## 1909	0.61706401	0.4830058353
## 1910	0.67076952	0.5678605383
## 1911	0.30294764	-0.0132980204
## 1912	0.73514090	0.6695673178
## 1913	0.36498133	0.0847152051
## 1914	0.62991395	0.5033087456
## 1915	0.93843107	0.9907657981
## 1916	0.73284839	0.6659451597
## 1917	0.30263953	-0.0137848438
## 1918	0.60210611	0.4593723537
## 1919	1.35313332	1.6459953559
## 1920	0.84876687	0.8490963568
## 1921	0.30782593	1.1627402003
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## 1923	1.07345367	2.3724320325
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## 1927	0.57266864	1.5811916857
## 1928	0.22867257	1.0376778929
## 1929	0.77798138	1.9055858190
## 1930	0.51445588	1.4892155330
## 1931	0.53125821	1.5157632106
## 1932	0.36042467	1.2458462083
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## 1934	0.61551229	1.6488846463
## 1935	0.40602305	1.3178916551
## 1936	0.43688504	1.3666535959
## 1937	0.52267399	1.5022001372
## 1938	0.32972486	1.1973405088
## 1939	0.36892979	1.2592843044
## 1940	0.81388893	1.9623197381

## 1941	0.91157682	2.1166666148
## 1942	0.68355048	1.7563849990
## 1943	0.68513454	1.7588878036
## 1944	1.44148297	2.9539183247
## 1945	0.68070467	1.7518886159
## 1946	1.14451401	2.4847073750
## 1947	0.49523799	1.4588512573
## 1948	0.95557201	2.1861790153
## 1949	0.56458609	1.5684212566
## 1950	0.84334816	2.0088653281
## 1951	0.37082624	1.2622806994
## 1952	0.45481201	1.3949782065
## 1953	0.55360885	1.5510772204
## 1954	0.68912458	1.7651920635
## 1955	0.63800733	1.6844268171
## 1956	1.55474729	3.1328759546
## 1957	0.61446180	1.6472248741
## 1958	0.50570899	1.4753954456
## 1959	0.56872928	1.5749674998
## 1960	1.28249562	2.7027183143
## 1961	0.31437123	1.1730817792
## 1962	0.45527558	1.3957106495
## 1963	0.32548569	1.1906426295
## 1964	0.39348477	1.2980811643
## 1965	0.43979321	1.3712485021
## 1966	0.45644054	1.3975512937
## 1967	0.52627784	1.5078942292
## 1968	0.41550540	1.3328737683
## 1969	0.32927445	1.1966288703
## 1970	0.59661493	1.6190268182
## 1971	0.71779794	1.8104959785
## 1972	0.45842285	1.4006833438
## 1973	0.52508057	1.5060025301
## 1974	0.67095059	1.7364771607
## 1975	0.62906685	1.6703008542
## 1976	0.82598106	1.9814253104
## 1977	0.37757934	1.2729505920
## 1978	0.49977499	1.4660197178
## 1979	0.69346159	1.7720445436
## 1980	0.73933513	1.8445247382
## 1981	0.40445636	1.3154162830
## 1982	0.74721569	1.8569760211
## 1983	0.60488226	1.6320892117
## 1984	1.46969705	2.9984965707
## 1985	0.80538734	1.9488872357
## 1986	0.52577864	1.5071054848
## 1987	0.77359665	1.8986579466
## 1988	0.47110428	1.4207199909
## 1989	0.57453525	1.5841409331
## 1990	1.03744782	2.3155427858
## 1991	0.77008330	1.8931068531
## 1992	1.02969959	2.3033005822
## 1993	0.52149601	1.5003389279
## 1994	0.44314062	1.3765374082

##	1995	0.85042918	2.0200533422
##	1996	0.90931574	2.1130940983
##	1997	0.74392309	1.8517737160
##	1998	0.48276852	1.4391494898
##	1999	0.73102513	1.8313949344
##	2000	0.87087006	2.0523499273
##	2001	0.28062830	1.1197679529
##	2002	0.67830124	1.7480911909
##	2003	0.65062898	1.7043690196
##	2004	0.44326766	1.3767381413
##	2005	0.66583878	1.7284005068
##	2006	0.36771646	1.2573672373
##	2007	0.35197312	1.2324927615
##	2008	0.36620494	1.2549790456
##	2009	0.66940618	1.7340370038
##	2010	0.49923708	1.4651698144
##	2011	0.33135541	1.1999167821
##	2012	0.97549851	2.2176628839
##	2013	0.90649358	2.1086350969
##	2014	0.75013299	1.8615853587
##	2015	0.98022217	2.2251262615
##	2016	0.43384544	1.3618510355
##	2017	0.92821244	2.1429508879
##	2018	0.50774665	1.4786149391
##	2019	0.44724253	1.3830184367
##	2020	0.68332058	1.7560217487
##	2021	0.63940307	1.6866320865
##	2022	0.50599887	1.4758534460
##	2023	0.46243806	1.4070273745
##	2024	0.73190451	1.8327843612
##	2025	0.76728520	1.8886858517
##	2026	0.98332961	2.2300360200
##	2027	0.42322218	1.3450662810
##	2028	0.74185974	1.8485136266
##	2029	1.37257088	2.8450372221
##	2030	0.60056308	1.6252648941
##	2031	0.55001924	1.5454056373
##	2032	0.64764911	1.6996608300
##	2033	0.69023599	1.7669481045
##	2034	0.37508879	1.2690155262
##	2035	0.60627327	1.6342869943
##	2036	0.46433290	1.4100212239
##	2037	0.70207034	1.7856463711
##	2038	0.39461906	1.2998733509
##	2039	0.74126388	1.8475721715
##	2040	0.53445410	1.5208127100
##	2041	0.48783826	1.4471596927
##	2042	0.60889770	1.6384335943
##	2043	0.42125008	1.3419503624
##	2044	0.65361283	1.7090835102
##	2045	0.76931191	1.8918880603
##	2046	0.40996580	1.3241211929
##	2047	0.30717193	1.1617068828
##	2048	0.74748617	1.8574033883

##	2049	0.64887007	1.7015899488
##	2050	0.61289322	1.6447465161
##	2051	0.54297556	1.5342766206
##	2052	0.61439473	1.6471189059
##	2053	1.67823198	3.3279817685
##	2054	0.81596289	1.9655965979
##	2055	0.74692807	1.8565215801
##	2056	0.83135017	1.9899085066
##	2057	0.58402391	1.5991330113
##	2058	0.48609908	1.4444117791
##	2059	0.86800500	2.0478231275
##	2060	0.52414938	1.5045312525
##	2061	1.06381443	2.3572020303
##	2062	0.48830577	1.4478983541
##	2063	1.28499148	2.7066617770
##	2064	0.45512819	1.3954777695
##	2065	0.72015297	1.8142169309
##	2066	0.68745236	1.7625499596
##	2067	0.24859935	1.0691622128
##	2068	0.70670311	1.7929661412
##	2069	0.95609361	2.1870031358
##	2070	0.38250101	1.2807268236
##	2071	0.67559651	1.7438177247
##	2072	0.59103348	1.6102081406
##	2073	1.70641044	3.3725037269
##	2074	1.05231861	2.3390386376
##	2075	0.44156629	1.3740499765
##	2076	0.73142795	1.8320313998
##	2077	1.22110425	2.6057199546
##	2078	0.35982648	1.2449010686
##	2079	1.14793837	2.4901178639
##	2080	0.59805848	1.6213076385
##	2081	0.63232108	1.6754425361
##	2082	0.50706982	1.4775455451
##	2083	0.49351041	1.4561216819
##	2084	0.86492695	2.0429598150
##	2085	1.17020240	2.5252950265
##	2086	0.46438838	1.4101088702
##	2087	0.66226389	1.7227521872
##	2088	0.50195980	1.4694717148
##	2089	1.17731699	2.5365360788
##	2090	0.89939937	2.0974262343
##	2091	0.93487479	2.1534774053
##	2092	0.72309163	1.8188600170
##	2093	0.63578386	1.6809137328
##	2094	0.28603826	1.1283156868
##	2095	0.52584834	1.5072156160
##	2096	0.36522701	1.2534339124
##	2097	1.00429388	2.2631595654
##	2098	0.95851137	2.1908232020
##	2099	0.89316700	2.0875791003
##	2100	0.39637162	1.3026423894
##	2101	0.34841614	1.2268727356
##	2102	0.69406023	1.7729903961

##	2103	1.49161792	3.0331315445
##	2104	0.65730225	1.7149127921
##	2105	0.87261372	2.0551049175
##	2106	0.62314378	1.6609424083
##	2107	0.35757808	1.2413485942
##	2108	0.46030743	1.4036609797
##	2109	0.50322188	1.4714658103
##	2110	0.40464564	1.3157153481
##	2111	0.39543316	1.3011596235
##	2112	0.44151635	1.3739710739
##	2113	0.50868484	1.4800972834
##	2114	0.68744639	1.7625405367
##	2115	0.32631095	1.1919465367
##	2116	0.70303579	1.7871717785
##	2117	0.46744613	1.4149401141
##	2118	1.12953449	2.4610397287
##	2119	0.99680815	2.2513321165
##	2120	0.65189591	1.7063707764
##	2121	0.40158740	1.3108833292
##	2122	0.76033173	1.8776993721
##	2123	1.03709434	2.3149842855
##	2124	0.40891988	1.3224686457
##	2125	0.47947718	1.4339491864
##	2126	1.03996563	2.3195209225
##	2127	0.56675057	1.5718411430
##	2128	0.81139031	1.9583719297
##	2129	1.02529413	2.2963399550
##	2130	0.56135938	1.5633230611
##	2131	0.59853830	1.6220657450
##	2132	0.53984949	1.5293374293
##	2133	0.59055880	1.6094581448
##	2134	0.70740762	1.7940792677
##	2135	0.71787120	1.8106117336
##	2136	0.30082811	1.1516836550
##	2137	0.89033460	2.0831038974
##	2138	0.43608832	1.3653947770
##	2139	0.70698606	1.7934132164
##	2140	0.61088768	1.6415777751
##	2141	0.48571855	1.4438105428
##	2142	0.71492073	1.8059499841
##	2143	0.44131235	1.3736487519
##	2144	0.67385894	1.7410723535
##	2145	0.67619848	1.7447688320
##	2146	0.61306734	1.6450216327
##	2147	0.48197273	1.4378921413
##	2148	0.69694211	1.7775437723
##	2149	1.21761798	2.6002116460
##	2150	0.35124942	1.2313493183
##	2151	0.59522192	1.6168258732
##	2152	0.67366104	1.7407596770
##	2153	0.85135245	2.0215120999
##	2154	1.08627434	2.3926886942
##	2155	0.73848891	1.8431877083
##	2156	0.36354523	1.2507767003

##	2157	1.34782686	2.8059416663
##	2158	0.36613376	1.2548665731
##	2159	0.35767478	1.2415013948
##	2160	0.43238797	1.3595482211
##	2161	0.51113104	1.1317600689
##	2162	1.29460325	2.3696461515
##	2163	0.46478566	1.0585343603
##	2164	0.46572391	1.0600167950
##	2165	1.41653356	2.5622960400
##	2166	0.69954032	1.4294467175
##	2167	0.47452153	1.0739170421
##	2168	0.93383789	1.7996368819
##	2169	0.88059708	1.7155164120
##	2170	0.44531623	1.0277726555
##	2171	0.47336452	1.0720889657
##	2172	0.59741696	1.2680918162
##	2173	1.44317421	2.6043882769
##	2174	1.76789091	3.1174406547
##	2175	0.76060653	1.5259313309
##	2176	0.34292147	0.8659889464
##	2177	1.16097412	2.1585121288
##	2178	1.21525600	2.2442775050
##	2179	0.99459107	1.8956269132
##	2180	0.57409476	1.2312427324
##	2181	0.45894462	1.0493055169
##	2182	0.64489755	1.3431111440
##	2183	0.51479930	1.1375559088
##	2184	0.96415363	1.8475357605
##	2185	0.58958347	1.2557148976
##	2186	1.12237943	2.0975325210
##	2187	0.62348167	1.3092740521
##	2188	0.97878362	1.8706511403
##	2189	0.54383621	1.1834342242
##	2190	0.71642169	1.4561192836
##	2191	0.61239702	1.2917603126
##	2192	0.35485798	0.8848486200
##	2193	0.86987281	1.6985720594
##	2194	0.72801963	1.4744440332
##	2195	1.48779274	2.6748855531
##	2196	0.32778072	0.8420665572
##	2197	0.63407284	1.3260081006
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##	2199	0.58601955	1.2500839052
##	2200	0.48311966	1.0875020793
##	2201	0.47872185	1.0805535351
##	2202	0.37935092	0.9235474781
##	2203	0.49702896	1.1094787753
##	2204	0.46078093	1.0522068796
##	2205	0.42327813	0.9929524675
##	2206	0.39502285	0.9483091280
##	2207	0.46930552	1.0656757416
##	2208	0.46886769	1.0649839691
##	2209	0.99669396	1.8989494704
##	2210	0.68087598	1.3999570716

##	2211	0.35111408	0.8789332682
##	2212	0.65824440	1.3641991646
##	2213	0.62657213	1.3141569903
##	2214	0.89376333	1.7363190795
##	2215	0.56331691	1.2142137322
##	2216	0.77369090	1.5466046330
##	2217	0.57988776	1.2403956779
##	2218	0.42703071	0.9988815381
##	2219	0.86800454	1.6956201931
##	2220	0.36666248	0.9034997316
##	2221	0.57767116	1.2368934515
##	2222	0.63859249	1.3331491544
##	2223	0.47432287	1.0736031519
##	2224	0.64579547	1.3445298594
##	2225	0.56790219	1.2214584848
##	2226	0.84601927	1.6608834610
##	2227	0.45947636	1.0501456641
##	2228	0.85883700	1.6811354799
##	2229	0.73058357	1.4784950523
##	2230	0.43028795	1.0040279758
##	2231	0.60466271	1.2795401054
##	2232	1.58304403	2.8253825836
##	2233	0.68872859	1.4123641871
##	2234	0.42529251	0.9961351875
##	2235	0.61831450	1.3011099258
##	2236	0.87425093	1.7054894907
##	2237	0.75014576	1.5094033208
##	2238	0.34360008	0.8670611512
##	2239	0.37939040	0.9236098501
##	2240	0.36459487	0.9002329170
##	2241	0.45998871	1.0509551726
##	2242	0.53095586	1.1630832807
##	2243	0.43771161	1.0157573671
##	2244	0.75871221	1.5229383117
##	2245	0.32129174	0.8318139596
##	2246	0.70841275	1.4434651636
##	2247	1.20071035	2.2212953701
##	2248	0.90345924	1.7516386128
##	2249	0.85966260	1.6824399293
##	2250	0.39653523	0.9506986779
##	2251	0.52218128	1.1492194368
##	2252	0.60330406	1.2773934314
##	2253	0.83007204	1.6356868416
##	2254	1.18709335	2.1997805060
##	2255	0.50941956	1.1290559195
##	2256	0.47770736	1.0789506479
##	2257	0.47414117	1.0733160602
##	2258	0.36859483	0.9065528478
##	2259	0.76225748	1.5285398434
##	2260	0.99324759	1.8935042140
##	2261	0.49136307	1.1005266732
##	2262	0.34753505	0.8732784029
##	2263	0.94142254	1.8116206315
##	2264	0.48138647	1.0847636446

##	2265	0.35397128	0.8834476351
##	2266	0.81594704	1.6133693411
##	2267	0.82568130	1.6287494656
##	2268	0.50528512	1.1225235116
##	2269	0.69726993	1.4258595108
##	2270	0.61045203	1.2886872322
##	2271	1.34499585	2.4492664611
##	2272	0.81592824	1.6133396372
##	2273	0.34443455	0.8683795999
##	2274	1.04238249	1.9711373470
##	2275	0.81920293	1.6185136529
##	2276	0.32716598	0.8410952665
##	2277	0.57596227	1.2341933995
##	2278	1.57783560	2.8171532695
##	2279	0.88015315	1.7148149983
##	2280	0.36571111	0.9019965765
##	2281	0.58344323	1.2460133141
##	2282	0.49966408	1.1136422717
##	2283	0.77560407	1.5496274506
##	2284	0.52302631	1.1505545859
##	2285	0.98666449	1.8831029087
##	2286	0.70307398	1.4350299141
##	2287	0.84252365	1.6553603862
##	2288	0.46161176	1.0535195929
##	2289	0.62522562	1.3120294997
##	2290	0.71990803	1.4616277050
##	2291	0.50085443	1.1155230195
##	2292	0.74940230	1.5082286529
##	2293	0.71133176	1.4480771968
##	2294	0.73564198	1.4864873386
##	2295	0.59670577	1.2669681272
##	2296	1.02352128	1.9413366371
##	2297	0.53091347	1.1630163082
##	2298	0.77630110	1.5507287604
##	2299	0.69337833	1.4197107828
##	2300	0.46176998	1.0537695937
##	2301	0.70533758	1.4386063932
##	2302	0.54713841	1.1886517056
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##	2304	0.48811677	1.0953975168
##	2305	0.47276286	1.0711383433
##	2306	0.29418468	0.7889848115
##	2307	0.55702995	1.2042803384
##	2308	0.51967827	1.1452646848
##	2309	0.68320346	1.4036344904
##	2310	0.39318759	0.9454094022
##	2311	0.52736269	1.1574060628
##	2312	0.31147650	0.8163058818
##	2313	1.25934941	2.3139450822
##	2314	0.38659311	0.9349901324
##	2315	0.85446617	1.6742295687
##	2316	0.54134898	1.1795044102
##	2317	0.83250087	1.6395243975
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##	2319	0.53545460	1.1701912847
##	2320	0.38833957	0.9377495448
##	2321	0.44479395	1.0269474609
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##	2323	0.37671428	0.9193815817
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##	2325	0.50812493	1.1270104141
##	2326	0.26929184	0.7496541304
##	2327	0.94745842	1.8211573147
##	2328	0.35076243	0.8783776626
##	2329	0.96972001	1.8563306302
##	2330	0.49111991	1.1001424728
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##	2332	0.68160095	1.4011025246
##	2333	0.90363438	1.7519153353
##	2334	0.38100761	0.9261650355
##	2335	0.44226877	1.0229576796
##	2336	0.68790750	1.4110668644
##	2337	0.76251300	1.5289435508
##	2338	0.56173151	1.2117088007
##	2339	0.68342760	1.4039886232
##	2340	0.42605789	0.9973444885
##	2341	0.60999110	1.2879589554
##	2342	0.38795623	0.9371438638
##	2343	0.65605344	1.3607374523
##	2344	0.77439127	1.5477112239
##	2345	1.54229537	2.7609996963
##	2346	0.43063869	1.0045821427
##	2347	0.50287321	1.1187126919
##	2348	0.74344180	1.4988110573
##	2349	0.95926289	1.8398083842
##	2350	0.53905784	1.1758844094
##	2351	0.54828892	1.1904695129
##	2352	0.81254524	1.6079944994
##	2353	0.65222390	1.3546867771
##	2354	1.75209258	3.0924792879
##	2355	0.65880550	1.3650857123
##	2356	0.91471391	1.7694209912
##	2357	0.43358630	1.0092393781
##	2358	0.41904798	0.9862688257
##	2359	1.06944411	2.0138947107
##	2360	0.96760291	1.8529856114
##	2361	0.69280432	1.4188038391
##	2362	0.24982157	0.7188910986
##	2363	0.44651618	1.0296685884
##	2364	1.58273662	2.8248968778
##	2365	0.42477553	0.9953183551
##	2366	1.71466717	3.0333471427
##	2367	0.55323033	1.1982769388
##	2368	0.85508330	1.6752046296
##	2369	0.58643240	1.2507362176
##	2370	0.69534042	1.4228108788
##	2371	0.40571530	0.9652031977
##	2372	0.46493841	1.0587757135


```
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2376 0.40741388 0.9678869468
## 2377 0.60362077 1.2778938308
## 2378 0.45727287 1.0466641549
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2386 0.51207894 1.1332577481
## 2387 0.70842425 1.4434833366
## 2388 0.51839542 1.1432377805
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2396 0.64153963 1.3378056272
## 2397 0.31027572 0.8144086632
## 2398 0.75388818 1.5153163433
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
```

```
allData["data"]
```

```
## $<NA>
## NULL
```

```
# 2. Using the order in which we made the list: remember that "raw_data" was the fist label
allData[1]
```

```
## $raw_data
##      X subj_no age group stim trial difficulty resp corr conf
## 1      1      10  23     2     2       1         2     1     0     2
## 2      2      10  36     2     1       2         3     2     0     1
## 3      3      10  38     2     2       3         2     2     1     4
## 4      4      10  25     2     2       4         1     1     0     3
## 5      5      10  20     2     1       5         2     1     1     4
## 6      6      10  40     2     1       6         1     1     1     5
## 7      7      10  23     2     2       7         3     1     0     2
## 8      8      10  20     2     2       8         1     1     0     4
## 9      9      10  40     2     2       9         3     1     0     1
## 10     10      10  23     2     2      10         1     1     0     4
## 11     11      10  23     2     1      11         1     1     1     5
## 12     12      10  36     2     1      12         2     2     0     2
## 13     13      10  38     2     2      13         3     1     0     1
## 14     14      10  25     2     2      14         2     2     1     3
## 15     15      10  20     2     1      15         2     2     0     3
## 16     16      10  40     2     1      16         2     1     1     4
## 17     17      10  23     2     1      17         1     1     1     4
```

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## 19	19	10	40	2	1	19	1	1	1	4
## 20	20	10	23	2	1	20	1	2	0	4
## 21	21	10	23	2	2	21	3	2	1	3
## 22	22	10	36	2	1	22	1	1	1	5
## 23	23	10	38	2	2	23	1	2	1	4
## 24	24	10	25	2	2	24	3	2	1	2
## 25	25	10	20	2	1	25	2	2	0	3
## 26	26	10	40	2	1	26	2	1	1	4
## 27	27	10	23	2	1	27	3	2	0	2
## 28	28	10	20	2	1	28	1	1	1	5
## 29	29	10	40	2	1	29	2	2	0	2
## 30	30	10	23	2	1	30	2	1	1	3
## 31	31	10	23	2	1	31	1	1	1	5
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## 33	33	10	38	2	1	33	1	1	1	4
## 34	34	10	25	2	1	34	1	1	1	5
## 35	35	10	20	2	2	35	1	2	1	5
## 36	36	10	40	2	2	36	2	2	1	4
## 37	37	10	23	2	1	37	1	1	1	4
## 38	38	10	20	2	2	38	3	1	0	1
## 39	39	10	40	2	1	39	1	1	1	4
## 40	40	10	23	2	1	40	1	1	1	5
## 41	41	10	23	2	1	41	1	2	0	4
## 42	42	10	36	2	2	42	3	2	1	3
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## 47	47	10	23	2	1	47	3	2	0	1
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##	283	283	9	37	1	1	43	2	1	1	4
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## 1608 1608	4	39	2	2	168	3	1	0	2
## 1609 1609	4	24	2	1	169	1	2	0	4
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## 1641 1641	4	23	2	1	201	1	1	1	4
## 1642 1642	4	33	2	1	202	3	1	1	2
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## 1645 1645	4	23	2	2	205	3	1	0	1
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## 1800 1800	3	36	1	1	120	3	2	0	1
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## 1861 1861	3	32	1	1	181	3	2	0	1
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## 1937 1937	2	18	2	1	17	3	1	1	3
## 1938 1938	2	30	2	2	18	1	2	1	5
## 1939 1939	2	36	2	2	19	1	2	1	5
## 1940 1940	2	24	2	2	20	2	2	1	4
## 1941 1941	2	29	2	2	21	3	1	0	1
## 1942 1942	2	30	2	2	22	2	2	1	4
## 1943 1943	2	23	2	2	23	2	2	1	3
## 1944 1944	2	31	2	1	24	3	1	1	2
## 1945 1945	2	24	2	2	25	3	2	1	3
## 1946 1946	2	19	2	2	26	3	1	0	2
## 1947 1947	2	18	2	2	27	1	1	0	3
## 1948 1948	2	30	2	2	28	3	2	1	3
## 1949 1949	2	36	2	2	29	3	2	1	3
## 1950 1950	2	24	2	1	30	3	1	1	3
## 1951 1951	2	29	2	2	31	1	2	1	5
## 1952 1952	2	30	2	2	32	1	2	1	5
## 1953 1953	2	23	2	1	33	1	1	1	5
## 1954 1954	2	31	2	2	34	3	2	1	2
## 1955 1955	2	24	2	1	35	1	2	0	4
## 1956 1956	2	19	2	2	36	3	1	0	2
## 1957 1957	2	18	2	2	37	2	2	1	3
## 1958 1958	2	30	2	1	38	1	1	1	5
## 1959 1959	2	36	2	2	39	2	2	1	3
## 1960 1960	2	24	2	2	40	3	1	0	2
## 1961 1961	2	29	2	2	41	1	2	1	4

## 1962 1962	2	30	2	1	42	1	2	0	3
## 1963 1963	2	23	2	2	43	1	1	0	3
## 1964 1964	2	31	2	1	44	3	2	0	2
## 1965 1965	2	24	2	1	45	1	1	1	4
## 1966 1966	2	19	2	1	46	2	2	0	3
## 1967 1967	2	18	2	1	47	3	1	1	3
## 1968 1968	2	30	2	1	48	1	1	1	4
## 1969 1969	2	36	2	1	49	1	1	1	4
## 1970 1970	2	24	2	2	50	2	2	1	3
## 1971 1971	2	29	2	1	51	2	2	0	2
## 1972 1972	2	30	2	1	52	1	1	1	5
## 1973 1973	2	23	2	1	53	1	1	1	5
## 1974 1974	2	31	2	1	54	3	2	0	1
## 1975 1975	2	24	2	2	55	2	2	1	3
## 1976 1976	2	19	2	2	56	3	1	0	2
## 1977 1977	2	18	2	2	57	1	1	0	4
## 1978 1978	2	30	2	1	58	1	1	1	5
## 1979 1979	2	36	2	1	59	2	2	0	2
## 1980 1980	2	24	2	1	60	2	1	1	4
## 1981 1981	2	29	2	1	61	1	2	0	3
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## 1983 1983	2	23	2	1	63	3	1	1	2
## 1984 1984	2	31	2	1	64	3	2	0	2
## 1985 1985	2	24	2	1	65	2	2	0	3
## 1986 1986	2	19	2	1	66	1	1	1	5
## 1987 1987	2	18	2	1	67	2	2	0	3
## 1988 1988	2	30	2	1	68	1	1	1	5
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## 1992 1992	2	30	2	1	72	3	1	1	2
## 1993 1993	2	23	2	2	73	2	2	1	4
## 1994 1994	2	31	2	1	74	1	1	1	5
## 1995 1995	2	24	2	1	75	2	2	0	3
## 1996 1996	2	19	2	1	76	3	1	1	2
## 1997 1997	2	18	2	2	77	2	2	1	3
## 1998 1998	2	30	2	2	78	2	1	0	3
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## 2000 2000	2	24	2	2	80	3	2	1	3
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## 2012 2012	2	30	2	2	92	3	1	0	1
## 2013 2013	2	23	2	2	93	3	2	1	2
## 2014 2014	2	31	2	2	94	2	1	0	2
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## 2016 2016	2	19	2	2	96	2	1	0	3
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## 2019 2019	2	36	2	1	99	1	1	1	5
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## 2021 2021	2	29	2	2	101	2	2	1	3
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## 2026 2026	2	19	2	2	106	3	1	0	1
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## 2045 2045	2	24	2	2	125	2	2	1	4
## 2046 2046	2	19	2	2	126	1	2	1	4
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##	2266	2266	1	18	1	2	106	2	1	0	2
##	2267	2267	1	30	1	1	107	2	1	1	3
##	2268	2268	1	20	1	2	108	2	2	1	4
##	2269	2269	1	24	1	2	109	3	2	1	3
##	2270	2270	1	30	1	1	110	2	1	1	4
##	2271	2271	1	21	1	1	111	3	2	0	2
##	2272	2272	1	27	1	1	112	3	2	0	1
##	2273	2273	1	22	1	2	113	1	2	1	5
##	2274	2274	1	24	1	1	114	3	2	0	1
##	2275	2275	1	28	1	1	115	3	1	1	2
##	2276	2276	1	18	1	2	116	1	2	1	4
##	2277	2277	1	30	1	2	117	2	2	1	3
##	2278	2278	1	20	1	1	118	3	2	0	1
##	2279	2279	1	24	1	1	119	3	2	0	1
##	2280	2280	1	30	1	2	120	1	2	1	4
##	2281	2281	1	21	1	1	121	2	2	0	2
##	2282	2282	1	27	1	2	122	1	2	1	4
##	2283	2283	1	22	1	2	123	2	1	0	3
##	2284	2284	1	24	1	2	124	1	2	1	4
##	2285	2285	1	28	1	2	125	3	1	0	1

##	2286	2286	1	18	1	1	126	2	2	0	3
##	2287	2287	1	30	1	1	127	3	2	0	2
##	2288	2288	1	20	1	2	128	2	2	1	4
##	2289	2289	1	24	1	2	129	3	2	1	2
##	2290	2290	1	30	1	2	130	3	2	1	3
##	2291	2291	1	21	1	2	131	1	2	1	4
##	2292	2292	1	27	1	2	132	3	1	0	2
##	2293	2293	1	22	1	2	133	3	2	1	3
##	2294	2294	1	24	1	1	134	3	1	1	2
##	2295	2295	1	28	1	2	135	3	1	0	2
##	2296	2296	1	18	1	1	136	3	1	1	3
##	2297	2297	1	30	1	2	137	1	2	1	4
##	2298	2298	1	20	1	2	138	3	2	1	2
##	2299	2299	1	24	1	1	139	1	2	0	4
##	2300	2300	1	30	1	1	140	1	1	1	4
##	2301	2301	1	21	1	1	141	3	2	0	2
##	2302	2302	1	27	1	1	142	1	2	0	3
##	2303	2303	1	22	1	1	143	2	1	1	3
##	2304	2304	1	24	1	1	144	2	2	0	2
##	2305	2305	1	28	1	1	145	1	1	1	4
##	2306	2306	1	18	1	1	146	1	1	1	4
##	2307	2307	1	30	1	1	147	2	1	1	4
##	2308	2308	1	20	1	2	148	3	2	1	3
##	2309	2309	1	24	1	2	149	3	2	1	2
##	2310	2310	1	30	1	2	150	1	2	1	4
##	2311	2311	1	21	1	1	151	1	1	1	4
##	2312	2312	1	27	1	2	152	1	2	1	4
##	2313	2313	1	22	1	1	153	3	2	0	2
##	2314	2314	1	24	1	1	154	1	1	1	5
##	2315	2315	1	28	1	2	155	3	2	1	3
##	2316	2316	1	18	1	1	156	1	1	1	4
##	2317	2317	1	30	1	2	157	2	1	0	3
##	2318	2318	1	20	1	1	158	1	1	1	4
##	2319	2319	1	24	1	2	159	2	2	1	3
##	2320	2320	1	30	1	1	160	2	1	1	4
##	2321	2321	1	21	1	2	161	1	2	1	4
##	2322	2322	1	27	1	2	162	3	1	0	1
##	2323	2323	1	22	1	1	163	1	1	1	5
##	2324	2324	1	24	1	2	164	2	1	0	2
##	2325	2325	1	28	1	2	165	1	1	0	4
##	2326	2326	1	18	1	1	166	3	2	0	1
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##	2328	2328	1	20	1	1	168	1	1	1	5
##	2329	2329	1	24	1	1	169	3	1	1	3
##	2330	2330	1	30	1	1	170	2	2	0	3
##	2331	2331	1	21	1	1	171	3	1	1	2
##	2332	2332	1	27	1	1	172	2	1	1	3
##	2333	2333	1	22	1	2	173	2	1	0	3
##	2334	2334	1	24	1	1	174	2	1	1	4
##	2335	2335	1	28	1	1	175	1	1	1	4
##	2336	2336	1	18	1	1	176	2	2	0	2
##	2337	2337	1	30	1	2	177	2	1	0	3
##	2338	2338	1	20	1	1	178	1	2	0	3
##	2339	2339	1	24	1	1	179	2	2	0	2

## 2340 2340	1	30	1	2	180	1	1	0	3
## 2341 2341	1	21	1	1	181	2	2	0	2
## 2342 2342	1	27	1	1	182	1	1	1	5
## 2343 2343	1	22	1	1	183	3	1	1	3
## 2344 2344	1	24	1	2	184	2	2	1	4
## 2345 2345	1	28	1	1	185	3	2	0	2
## 2346 2346	1	18	1	2	186	1	2	1	4
## 2347 2347	1	30	1	1	187	2	1	1	4
## 2348 2348	1	20	1	2	188	2	2	1	3
## 2349 2349	1	24	1	1	189	3	1	1	3
## 2350 2350	1	30	1	1	190	2	1	1	4
## 2351 2351	1	21	1	1	191	2	2	0	3
## 2352 2352	1	27	1	1	192	3	2	0	2
## 2353 2353	1	22	1	1	193	2	1	1	4
## 2354 2354	1	24	1	1	194	3	2	0	2
## 2355 2355	1	28	1	2	195	2	2	1	3
## 2356 2356	1	18	1	2	196	3	2	1	3
## 2357 2357	1	30	1	2	197	1	1	0	4
## 2358 2358	1	20	1	1	198	1	1	1	5
## 2359 2359	1	24	1	2	199	3	2	1	3
## 2360 2360	1	30	1	2	200	3	2	1	2
## 2361 2361	1	21	1	1	201	2	1	1	4
## 2362 2362	1	27	1	2	202	1	2	1	4
## 2363 2363	1	22	1	2	203	2	2	1	3
## 2364 2364	1	24	1	1	204	3	2	0	2
## 2365 2365	1	28	1	1	205	1	1	1	5
## 2366 2366	1	18	1	1	206	3	2	0	1
## 2367 2367	1	30	1	1	207	2	1	1	4
## 2368 2368	1	20	1	2	208	3	2	1	2
## 2369 2369	1	24	1	1	209	2	2	0	2
## 2370 2370	1	30	1	1	210	2	1	1	4
## 2371 2371	1	21	1	2	211	1	2	1	5
## 2372 2372	1	27	1	1	212	1	1	1	4
## 2373 2373	1	22	1	1	213	3	1	1	2
## 2374 2374	1	24	1	1	214	2	1	1	3
## 2375 2375	1	28	1	2	215	2	2	1	4
## 2376 2376	1	18	1	2	216	1	2	1	5
## 2377 2377	1	30	1	2	217	2	2	1	3
## 2378 2378	1	20	1	1	218	1	1	1	5
## 2379 2379	1	24	1	2	219	3	2	1	2
## 2380 2380	1	30	1	2	220	2	2	1	3
## 2381 2381	1	21	1	1	221	3	2	0	2
## 2382 2382	1	27	1	1	222	1	1	1	5
## 2383 2383	1	22	1	2	223	2	1	0	3
## 2384 2384	1	24	1	1	224	1	2	0	3
## 2385 2385	1	28	1	1	225	3	1	1	2
## 2386 2386	1	18	1	2	226	2	2	1	3
## 2387 2387	1	30	1	1	227	3	2	0	1
## 2388 2388	1	20	1	1	228	3	2	0	1
## 2389 2389	1	24	1	2	229	1	2	1	5
## 2390 2390	1	30	1	1	230	1	1	1	5
## 2391 2391	1	21	1	1	231	1	1	1	4
## 2392 2392	1	27	1	2	232	3	1	0	2
## 2393 2393	1	22	1	2	233	2	1	0	3

##	2394	2394	1	24	1	2	234	3	1	0	2
##	2395	2395	1	28	1	1	235	1	1	1	5
##	2396	2396	1	18	1	2	236	2	2	1	4
##	2397	2397	1	30	1	1	237	1	1	1	5
##	2398	2398	1	20	1	2	238	3	2	1	3
##	2399	2399	1	24	1	1	239	3	1	1	2
##	2400	2400	1	30	1	1	240	2	2	0	2
##		RT_day1				RT_day2					
##	1	0.60761494				1.5589454195					
##	2	0.70900369				1.7191396404					
##	3	0.62320134				1.5835719316					
##	4	0.68807593				1.6860737827					
##	5	0.72964798				1.7517576138					
##	6	0.40986839				1.2465058600					
##	7	0.73163809				1.7549019885					
##	8	0.44395248				1.3003587212					
##	9	1.34663842				2.7266025145					
##	10	0.56936275				1.4985069465					
##	11	0.34670307				1.1467046633					
##	12	0.74287703				1.7726595103					
##	13	0.99696099				2.1741121766					
##	14	0.64211892				1.6134617047					
##	15	0.84022110				1.9264631512					
##	16	0.59109391				1.5328421846					
##	17	0.61122270				1.5646456801					
##	18	0.48189435				1.3603068900					
##	19	0.38717101				1.2106439993					
##	20	0.62645332				1.5887100617					
##	21	0.32772079				1.1167126619					
##	22	0.45575074				1.3189999772					
##	23	0.40837268				1.2441426473					
##	24	0.57411528				1.5060159553					
##	25	1.01032222				2.1952229145					
##	26	0.66428165				1.6484788125					
##	27	0.36358039				1.1733708290					
##	28	0.56185333				1.4866420726					
##	29	0.73812986				1.7651589875					
##	30	0.76446834				1.8067737785					
##	31	0.35769718				1.1640753480					
##	32	0.61056975				1.5636140085					
##	33	0.32598242				1.1139660340					
##	34	0.40429136				1.2376941601					
##	35	0.40053839				1.2317644636					
##	36	0.34524324				1.1443981325					
##	37	0.40056035				1.2317991609					
##	38	1.14269255				2.4043680431					
##	39	0.34943628				1.1510231246					
##	40	0.32363422				1.1102558802					
##	41	0.47646070				1.3517217134					
##	42	0.50021394				1.3892518344					
##	43	0.68535150				1.6817691861					
##	44	0.59257262				1.5351785431					
##	45	0.59787724				1.5435598465					
##	46	0.90805273				2.0336371205					

## 47	0.64412268	1.6166276401
## 48	0.33405567	1.1267217714
## 49	0.62489066	1.5862410517
## 50	0.55690563	1.4788247098
## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 55	0.70445473	1.7119522773
## 56	0.69476067	1.6966356732
## 57	0.44563960	1.3030243721
## 58	0.74958963	1.7832654260
## 59	0.56853460	1.4971984736
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 65	0.67851650	1.6709698735
## 66	0.63499179	1.6022008426
## 67	0.55528581	1.4762653837
## 68	1.27402864	2.6118790652
## 69	0.21931196	0.9454267056
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 75	0.44734902	1.3057252614
## 76	0.49218507	1.3765662157
## 77	0.38395864	1.2055684670
## 78	0.58785392	1.5277230068
## 79	0.94625190	2.0939918136
## 80	0.74990464	1.7837631469
## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045
## 85	1.91458043	3.6239508813
## 86	0.55373794	1.4738197472
## 87	0.54724735	1.4635646178
## 88	0.31761021	1.1007379391
## 89	0.54030159	1.4525903197
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433
## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 95	0.41203240	1.2499249988
## 96	0.66632349	1.6517049250
## 97	0.79565802	1.8560534858
## 98	0.60857171	1.5604571033
## 99	0.47376829	1.3474677028
## 100	0.47998040	1.3572828435

## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080
## 105	0.29301375	1.0618755413
## 106	0.58250290	1.5192683946
## 107	0.53437471	1.4432258539
## 108	0.33606437	1.1298955090
## 109	1.29100895	2.6387079516
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 115	1.35553840	2.7406644844
## 116	1.29315232	2.6420944788
## 117	0.19309507	0.9040040253
## 118	0.60223445	1.5504442452
## 119	0.22209087	0.9498173838
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 125	0.69021981	1.6894611111
## 126	0.48973040	1.3726878471
## 127	0.74215682	1.7715215808
## 128	1.11807141	2.3654666384
## 129	0.63570711	1.6033310400
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 135	0.47280888	1.3459518399
## 136	0.72299283	1.7412424831
## 137	0.84721448	1.9375126879
## 138	0.71565088	1.7296421929
## 139	0.48778778	1.3696184980
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 145	0.75924730	1.7985245428
## 146	0.91092679	2.0381781374
## 147	0.40768154	1.2430506427
## 148	0.51028754	1.4051681183
## 149	1.09781942	2.3334684967
## 150	0.55291409	1.4725180652
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## 152	0.66699475	1.6527655116
## 153	0.45711318	1.3211526307
## 154	1.03947212	2.2412797648

## 155	0.92757503	2.0644823495
## 156	1.87401850	3.5598630368
## 157	0.47707108	1.3526861221
## 158	0.91417040	2.0433030366
## 159	1.18868301	2.4770329686
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 165	0.68404229	1.6797006286
## 166	0.33918117	1.1348200589
## 167	0.53567646	1.4452826108
## 168	0.37604605	1.1930665758
## 169	0.80690257	1.8738198642
## 170	0.85511292	1.9499922220
## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 175	0.72894961	1.7506541939
## 176	0.62019085	1.5788153482
## 177	0.63930468	1.6090152036
## 178	0.46757027	1.3376748348
## 179	0.42629950	1.2724670159
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 185	0.94151579	2.0865087534
## 186	0.83289322	1.9148851046
## 187	0.66725426	1.6531755364
## 188	0.30143931	1.0751879183
## 189	0.84816082	1.9390079004
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 195	0.77474604	1.8230125557
## 196	1.28726758	2.6327965891
## 197	0.90481953	2.0285286646
## 198	0.81646739	1.8889322839
## 199	0.44550921	1.3028183539
## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 205	0.85822203	1.9549046222
## 206	0.70337238	1.7102421634
## 207	0.54769292	1.4642686170
## 208	0.57035566	1.5000757471

## 209	0.70635349	1.7149523227
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201
## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 215	0.91020537	2.0370382974
## 216	0.42990794	1.2781683576
## 217	0.72365007	1.7422809188
## 218	0.80243081	1.8667544966
## 219	0.52390364	1.4266815530
## 220	0.46708691	1.3369111306
## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 225	0.69918014	1.7036184284
## 226	0.41653834	1.2570443897
## 227	0.41718838	1.2580714571
## 228	0.52946066	1.4354616561
## 229	0.99303853	2.1679146815
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 235	0.61357056	1.5683552905
## 236	1.36973695	2.7630981940
## 237	0.52499017	1.4283982844
## 238	0.82997084	1.9102677321
## 239	0.61075838	1.5639120457
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931
## 253	0.78974393	1.4539676649
## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381

## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
## 265	0.76448938	1.4140654815
## 266	0.42322889	0.8748739073
## 267	0.74778884	1.3876786268
## 268	0.44315970	0.9063645847
## 269	0.82237355	1.5055224702
## 270	0.58070863	1.1236918901
## 271	0.64835767	1.2305773796
## 272	0.36430260	0.7817703597
## 273	0.31517256	0.7041448999
## 274	0.60539987	1.1627040453
## 275	0.65769737	1.2453340954
## 276	0.79343030	1.4597921260
## 277	0.68013169	1.2807803186
## 278	1.00679175	1.7969032153
## 279	1.52565198	2.6167023873
## 280	0.42452874	0.8769276640
## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
## 284	0.42436780	0.8766733852
## 285	0.59520731	1.1465998065
## 286	1.12367626	1.9815807409
## 287	0.50413538	1.0027061525
## 288	0.72268776	1.3480189157
## 289	0.60595022	1.1635735937
## 290	0.67219248	1.2682363647
## 291	0.45708081	0.9283599332
## 292	0.87842594	1.5940852381
## 293	0.56262020	1.0951121699
## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
## 297	0.45492038	0.9249464617
## 298	0.68032951	1.2810928728
## 299	0.47450257	0.9558863204
## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078
## 307	0.49275413	0.9847237780
## 308	0.53640915	1.0536987070
## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
## 314	0.94515695	1.6995202396
## 315	0.37260027	0.7948806855
## 316	0.73481533	1.3671804825

## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
## 320	0.64711752	1.2286179340
## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
## 326	0.76142983	1.4092313827
## 327	0.92105407	1.6614376821
## 328	1.10139356	1.9463740794
## 329	0.28982203	0.6640910630
## 330	0.46610706	0.9426214159
## 331	0.37185904	0.7937095342
## 332	0.37653795	0.8011022093
## 333	1.05002795	1.8652164154
## 334	0.68007611	1.2806925047
## 335	0.61581929	1.1791667326
## 336	0.57703146	1.1178819533
## 337	0.45378298	0.9231493657
## 338	0.34148302	0.7457154225
## 339	1.38830866	2.3996999422
## 340	1.00671690	1.7967849604
## 341	0.37045785	0.7914956549
## 342	1.27697075	2.2237860410
## 343	0.59039530	1.1389968245
## 344	0.44991128	0.9170320737
## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903
## 361	0.64999740	1.2331681388
## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
## 364	0.60068921	1.1552612063
## 365	0.75512927	1.3992764923
## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564

## 371	0.57029967	1.1072457309
## 372	0.56276979	1.0953485229
## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504
## 375	0.74269915	1.3796369180
## 376	0.53612783	1.0532542196
## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
## 382	1.25914782	2.1956258159
## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765
## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329
## 415	1.02365143	1.8235415129
## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392

## 425	0.50621102	1.0059856673
## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954
## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
## 437	0.49060529	0.9813286153
## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299
## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534
## 469	0.38331819	0.8118149983
## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712

## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449
## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 487	0.58628292	0.7280571582
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 490	1.90348342	2.8092339498
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813
## 496	0.50552613	0.6004614286
## 497	0.60919450	0.7642574655
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 500	0.34392259	0.3451278347
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 507	1.01819048	1.4104711088
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 510	0.35609971	0.3643676853
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 517	0.61831502	0.7786678831
## 518	0.42033311	0.4658564623
## 519	1.37346337	1.9718022652
## 520	0.46736755	0.5401708827
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455
## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 527	0.53822021	0.6521180843
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 530	0.66261779	0.8486662597
## 531	0.53798149	0.6517408997
## 532	0.41767299	0.4616534736

## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
## 535	0.56171487	0.6892396385
## 536	0.61326604	0.7706904948
## 537	0.94027082	1.2873580369
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 540	0.47593981	0.5537150425
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 547	0.49090845	0.5773655064
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 550	0.70937442	0.9225417324
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891
## 556	0.70905772	0.9220413487
## 557	1.22170141	1.7320183711
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 560	0.46850458	0.5419673876
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
## 566	0.61692060	0.7764647030
## 567	0.50310230	0.5966317769
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 570	0.50025695	0.5921361353
## 571	0.40108908	0.4354508987
## 572	0.43565687	0.4900679986
## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 577	0.82701210	1.1084092618
## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 580	0.40090210	0.4351554685
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
## 586	1.35330739	1.9399558302

## 587	1.16115892	1.6363612425
## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
## 590	0.41261921	0.4536684997
## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
## 594	0.55557150	0.6795331136
## 595	0.54317764	0.6599508189
## 596	0.63806618	0.8098747128
## 597	0.49750604	0.5877896872
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648
## 600	0.31570164	0.3005387357
## 601	0.39402241	0.4242855579
## 602	1.17392462	1.6565310448
## 603	0.52353456	0.6289147532
## 604	0.86091730	1.1619794877
## 605	0.41106882	0.4512188764
## 606	0.88780250	1.2044581047
## 607	1.02433982	1.4201870604
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 610	0.28706576	0.2552940476
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332
## 616	0.34781451	0.3512770694
## 617	0.51439983	0.6144818785
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
## 620	0.24585816	0.1901860328
## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
## 625	0.77875902	1.0321694049
## 626	0.94832174	1.3000784971
## 627	0.63177708	0.7999379357
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## 631	0.88718994	1.2034902579
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## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
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## 637	0.50383804	0.5977942564
## 638	0.60018745	0.7500263124
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## 640	0.75140311	0.9889470549

## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639
## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 647	1.28472747	1.8315995449
## 648	1.03623818	1.4389864676
## 649	0.59314903	0.7389056186
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## 652	0.46486987	0.5362245385
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## 655	0.62377497	0.7872945959
## 656	0.73737962	0.9667899470
## 657	0.90119076	1.2256115454
## 658	0.79651735	1.0602275594
## 659	0.36076479	0.3717385141
## 660	0.64633610	0.8229411864
## 661	0.76626481	1.0124285530
## 662	0.45244342	0.5165907506
## 663	0.82950338	1.1123454855
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## 665	0.38029194	0.4025914070
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## 667	0.74107884	0.9726347129
## 668	0.69899227	0.9061379329
## 669	1.09209212	1.5272356926
## 670	0.37333420	0.3915981915
## 671	0.91086054	1.2408897999
## 672	0.58420266	0.7247703507
## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
## 675	0.89945450	1.2228682612
## 676	0.58373866	0.7240372292
## 677	0.45773403	0.5249499202
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
## 680	0.95894313	1.3168603011
## 681	0.26265128	0.2167191769
## 682	0.58468404	0.7255309236
## 683	0.74901761	0.9851779663
## 684	0.90895685	1.2378819771
## 685	1.39303355	2.0027231607
## 686	0.43417486	0.4877264298
## 687	0.42649800	0.4755969911
## 688	0.90947100	1.2386943353
## 689	0.88971827	1.2074850187
## 690	0.49605445	0.5854961778
## 691	0.48915311	0.5745920544
## 692	0.44367120	0.5027306430
## 693	0.64684720	0.8237487286
## 694	0.31034486	0.2920750300

## 695	0.35008575	0.3548656315
## 696	0.68878857	0.8900160930
## 697	0.83188379	1.1161065389
## 698	0.37023227	0.3866971273
## 699	0.44597139	0.5063649514
## 700	0.75488487	0.9944482434
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## 702	0.79288272	1.0544848487
## 703	0.78270949	1.0384111361
## 704	0.80424358	1.0724350077
## 705	0.64875053	0.8267559778
## 706	1.02080584	1.4146033813
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## 708	0.88307416	1.1969873137
## 709	0.26720137	0.2239083185
## 710	0.51715392	0.6188333473
## 711	0.45506817	0.5207378608
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## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 717	0.60625536	0.7596136204
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
## 720	0.69910866	0.9063218367
## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
## 726	0.28466403	-0.0321882744
## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
## 731	0.78413029	0.7569684170
## 732	0.26113374	-0.0693661333
## 733	0.43999489	0.2132344814
## 734	0.39972812	0.1496129810
## 735	0.39695005	0.1452236321
## 736	0.55441868	0.3940240715
## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193
## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
## 742	0.76156446	0.7213143998
## 743	0.65342612	0.5504558285
## 744	0.99508350	1.0902744861
## 745	0.81869282	0.8115772190
## 746	0.94691938	1.0141751730
## 747	0.44810032	0.2260410657
## 748	0.61125278	0.4838219518

## 749	0.32716606	0.0349649404
## 750	0.24395821	-0.0965034655
## 751	0.37857947	0.1161981215
## 752	0.39008333	0.1343742177
## 753	0.55622072	0.3968712883
## 754	1.35495043	1.6588642436
## 755	0.42001361	0.1816640587
## 756	0.55930797	0.4017491473
## 757	0.79898868	0.7804446781
## 758	0.66573327	0.5699011245
## 759	0.46494965	0.2526629991
## 760	0.30121763	-0.0060335895
## 761	0.48186742	0.2793930884
## 762	0.63157168	0.5159258128
## 763	0.58158800	0.4369515986
## 764	0.67819344	0.5895881862
## 765	0.46613616	0.2545376890
## 766	0.68089613	0.5938584413
## 767	1.13031920	1.3039469002
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## 769	0.80255699	0.7860825964
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## 771	0.56981544	0.4183509578
## 772	0.44711705	0.2244874922
## 773	0.76698250	0.7298749033
## 774	0.63535938	0.5219103719
## 775	0.52222317	0.3431551651
## 776	0.40555233	0.1588152395
## 777	0.36295022	0.0915038985
## 778	0.60084060	0.4673707020
## 779	0.66978059	0.5762958827
## 780	0.65049594	0.5458261499
## 781	0.47065187	0.2616725138
## 782	0.60275532	0.4703959573
## 783	0.64421860	0.5359079447
## 784	0.72463312	0.6629628861
## 785	0.72652782	0.6659565120
## 786	0.48724955	0.2878968455
## 787	0.44102791	0.2148666491
## 788	0.72810896	0.6684547104
## 789	0.33805537	0.0521700478
## 790	0.41324762	0.1709737903
## 791	0.31033991	0.0083796217
## 792	1.17430250	1.3734405111
## 793	0.53691119	0.3663622315
## 794	0.57849728	0.4320682581
## 795	0.57144092	0.4209192135
## 796	0.43119413	0.1993292913
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## 803	0.53378124	0.3614169162
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## 808	0.57262766	0.4227942591
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## 810	0.35441542	0.0780189199
## 811	0.81240083	0.8016358720
## 812	0.68635943	0.6024904541
## 813	0.15170334	-0.2422661649
## 814	0.57550486	0.4273402433
## 815	0.28995103	-0.0238348143
## 816	0.83330031	0.8346570526
## 817	0.43921617	0.2120041033
## 818	0.74268529	0.6914853147
## 819	0.73212189	0.6747951411
## 820	0.34571450	0.0642714735
## 821	0.30586667	0.0013118942
## 822	0.62899253	0.5118507485
## 823	1.16034014	1.3513799869
## 824	0.57761840	0.4306796339
## 825	0.82517894	0.8218252817
## 826	0.88111597	0.9102057845
## 827	1.15769758	1.3472047407
## 828	0.21328947	-0.1449600742
## 829	0.80478581	0.7896041406
## 830	0.81461394	0.8051325787
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## 832	0.71932126	0.6545701487
## 833	0.64475543	0.5367561391
## 834	0.31536716	0.0163226717
## 835	0.29939941	-0.0089063738
## 836	0.73460511	0.6787186370
## 837	0.61260962	0.4859657611
## 838	0.73533866	0.6798776478
## 839	0.83975225	0.8448511148
## 840	0.85609303	0.8706695409
## 841	1.33874227	1.6332553429
## 842	0.65106463	0.5467246709
## 843	0.38818003	0.1313670014
## 844	1.15764177	1.3471165558
## 845	0.62940103	0.5124961850
## 846	0.47727650	0.2721394351
## 847	0.54635194	0.3812786185
## 848	0.36478545	0.0944035658
## 849	0.45424569	0.2357507531
## 850	0.37493668	0.1104425201
## 851	0.73983453	0.6869811195
## 852	0.38002401	0.1184804935
## 853	1.38214468	1.7018311498
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## 855	0.51280076	0.3282677658
## 856	0.69611139	0.6178985494

## 857	0.48968271	0.2917412465
## 858	0.98714493	1.0777315477
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## 860	0.82604003	0.8231858074
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## 862	0.92312481	0.9765797525
## 863	0.73138710	0.6736341779
## 864	0.83001739	0.8294700292
## 865	0.91789212	0.9683121153
## 866	0.34280581	0.0596757423
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## 868	0.39779876	0.1465646012
## 869	0.46753237	0.2567437065
## 870	0.45899249	0.2432506987
## 871	0.77567344	0.7436065879
## 872	0.77769471	0.7468001935
## 873	0.67272193	0.5809432090
## 874	0.58579490	0.4435984954
## 875	0.31050734	0.0086441614
## 876	0.93618820	0.9972199135
## 877	0.55168465	0.3897043001
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## 879	0.81951777	0.8128806271
## 880	0.52333135	0.3449060858
## 881	0.90073382	0.9412019890
## 882	0.44845649	0.2266038083
## 883	0.80409465	0.7885121130
## 884	0.61323429	0.4869527347
## 885	0.29764857	-0.0116726968
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## 890	0.90861764	0.9536584267
## 891	0.36185274	0.0897698945
## 892	0.42450664	0.1887630439
## 893	0.74697225	0.6982587061
## 894	0.79090793	0.7676770839
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## 897	0.77387284	0.7407616441
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## 899	0.50160708	0.3105817399
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## 901	0.29291568	-0.0191506729
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## 909	0.47327228	0.2658127615
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## 912	0.93067781	0.9885135014
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## 915	0.36552636	0.0955742129
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## 917	1.12775052	1.2998883834
## 918	0.74747786	0.6990575803
## 919	0.61472375	0.4893060848
## 920	0.72590510	0.6649726182
## 921	0.63366048	0.5192261164
## 922	0.89629703	0.9341918659
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## 925	0.59765579	0.4623387054
## 926	0.48865820	0.2901225166
## 927	0.63694220	0.5244112348
## 928	0.91945797	0.9707861500
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## 931	0.43865656	0.2111199261
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## 933	0.85406809	0.8674701469
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## 936	0.38087915	0.1198316092
## 937	0.52873486	0.3534436377
## 938	0.89003533	0.9242983824
## 939	0.76693662	0.7298024247
## 940	0.52419798	0.3462753589
## 941	1.11091859	1.2732939315
## 942	0.74920797	0.7017911577
## 943	0.98071178	1.0675671684
## 944	0.59429059	0.4570216981
## 945	1.77343222	2.3200654728
## 946	0.55637382	0.3971131961
## 947	0.62301219	0.5024018175
## 948	0.52900647	0.3538727819
## 949	0.61001379	0.4818643493
## 950	0.69685155	0.6190680048
## 951	0.28387782	-0.0334304908
## 952	0.44912294	0.2276568036
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## 955	0.58634790	0.4444722329
## 956	0.22263760	-0.1301900280
## 957	0.42847847	0.1950385413
## 958	0.62394815	0.5038806349
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## 960	1.13581379	1.3126283489
## 961	1.03824040	2.0781213054
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## 965	0.29041806	0.8965620106
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## 1011	0.38898327	1.0522950470
## 1012	0.44491870	1.1406730258
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## 1014	0.54526113	1.2992140705
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##	1019	0.46965780	1.1797608075
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##	1021	0.58465635	1.3614585054
##	1022	0.70906827	1.5580293518
##	1023	0.50529803	1.2360723629
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## 1110	0.43230315	1.1207404606
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## 1589	0.52357794	0.5419458314
## 1590	0.54197047	0.5710060295
## 1591	0.46082422	0.4427949607
## 1592	0.21384908	0.0525742333
## 1593	0.83159354	1.0286104774
## 1594	0.34904567	0.2661848468
## 1595	1.36143410	1.8657585740
## 1596	1.10250397	1.4566489695
## 1597	0.41591863	0.3718441219
## 1598	0.30443737	0.1957037312
## 1599	0.55027913	0.5841337216
## 1600	0.85482218	1.0653117430
## 1601	0.95262410	1.2198387723
## 1602	0.55798188	0.5963040622
## 1603	0.71722213	0.8479036545
## 1604	0.75483671	0.9073346885
## 1605	0.49887192	0.5029103301
## 1606	0.64727135	0.7373814179
## 1607	0.59609684	0.6565257020
## 1608	1.38230221	1.8987301872
## 1609	0.34784258	0.2642839645
## 1610	0.65039474	0.7423163829
## 1611	0.48536769	0.4815736369
## 1612	0.42974471	0.3936893358

## 1613	0.37510061	0.3073516614
## 1614	0.84362826	1.0476253341
## 1615	0.56765077	0.6115809009
## 1616	0.65494334	0.7495031710
## 1617	1.00286538	1.2992199896
## 1618	0.57490691	0.6230456156
## 1619	0.90767500	1.1488191977
## 1620	1.48837391	2.0663234639
## 1621	0.88351202	1.1106416795
## 1622	0.51564159	0.5294064029
## 1623	0.28469303	0.1645076838
## 1624	0.92396624	1.1745593567
## 1625	0.36607584	0.2930925221
## 1626	0.70322854	0.8257937852
## 1627	0.44354810	0.4154986856
## 1628	0.82988028	1.0259035309
## 1629	0.79977508	0.9783373217
## 1630	0.31296936	0.2091842836
## 1631	0.99492062	1.2866672717
## 1632	0.50484644	0.5123500718
## 1633	0.69805328	0.8176168696
## 1634	0.45041325	0.4263456296
## 1635	0.31034517	0.2050380567
## 1636	0.91661204	1.1629397079
## 1637	1.00235323	1.2984107974
## 1638	0.43292596	0.3987157088
## 1639	0.61943370	0.6933979321
## 1640	0.32181017	0.2231527521
## 1641	0.57862895	0.6289264291
## 1642	0.77573999	0.9403618699
## 1643	1.33000899	1.8161068885
## 1644	0.38786464	0.3275188202
## 1645	0.50943759	0.5196040833
## 1646	0.46369448	0.4473299631
## 1647	0.42013383	0.3785041370
## 1648	1.23432023	1.6649186549
## 1649	0.43941640	0.4089705999
## 1650	1.35075300	1.8488824344
## 1651	0.79340586	0.9682739522
## 1652	0.57048172	0.6160538092
## 1653	0.48193519	0.4761502919
## 1654	0.62967427	0.7095780437
## 1655	0.46548936	0.4501658858
## 1656	0.43209387	0.3974010095
## 1657	0.57217625	0.6187311681
## 1658	0.82378983	1.0162806238
## 1659	0.57184388	0.6182060277
## 1660	0.79384568	0.9689688706
## 1661	0.42895876	0.3924475258
## 1662	0.72186005	0.8552315771
## 1663	0.82936625	1.0250913653
## 1664	0.78435625	0.9539755711
## 1665	0.46357410	0.4471397681
## 1666	0.71783812	0.8488769179

## 1667	0.40325512	0.3518357868
## 1668	0.33226588	0.2396727739
## 1669	0.97784019	1.2596801989
## 1670	0.53622171	0.5619229941
## 1671	0.59797010	0.6594854465
## 1672	0.53645527	0.5622920225
## 1673	0.44192816	0.4129391829
## 1674	1.12184352	1.4872054576
## 1675	0.76070265	0.9166028702
## 1676	0.80836494	0.9919092996
## 1677	0.62470328	0.7017238730
## 1678	0.67638322	0.7833781716
## 1679	0.84533515	1.0503222201
## 1680	1.09082847	1.4382016778
## 1681	0.34255897	0.0492878699
## 1682	1.03855332	1.1489589467
## 1683	0.73312145	0.6663765922
## 1684	0.85785717	0.8634590350
## 1685	1.35506723	1.6490509253
## 1686	1.13761797	1.3054810968
## 1687	0.52048224	0.3304066387
## 1688	0.77904757	0.7389398595
## 1689	0.48884801	0.2804245629
## 1690	0.52795420	0.3422123335
## 1691	0.28708489	-0.0383611744
## 1692	0.51867610	0.3275529397
## 1693	0.87216010	0.8860576582
## 1694	0.30170796	-0.0152567252
## 1695	1.09507086	1.2382566544
## 1696	0.44558786	0.2120735194
## 1697	1.44942524	1.7981365797
## 1698	0.69605806	0.6078164441
## 1699	1.06256853	1.1869029752
## 1700	0.69660083	0.6086740179
## 1701	0.81563804	0.7967528029
## 1702	0.48697570	0.2774663164
## 1703	0.46906889	0.2491735526
## 1704	0.70891306	0.6281273415
## 1705	0.56443994	0.3998598010
## 1706	0.25941013	-0.0820872842
## 1707	0.68239825	0.5862339372
## 1708	0.92902774	0.9759085384
## 1709	1.25695572	1.4940347483
## 1710	0.45435976	0.2259331264
## 1711	0.46778170	0.2471397945
## 1712	0.46997251	0.2506012714
## 1713	0.68411963	0.5889537164
## 1714	0.70434662	0.6209123637
## 1715	1.04903071	1.1655132174
## 1716	0.79283739	0.7607277793
## 1717	0.63145103	0.5057373283
## 1718	0.53499151	0.3533312868
## 1719	0.66725084	0.5623010244
## 1720	0.61760894	0.4838668214

## 1721	0.54768897	0.3733932816
## 1722	0.84032925	0.8357649170
## 1723	0.59117343	0.4420987174
## 1724	1.36716374	1.6681634172
## 1725	0.74537554	0.6857380552
## 1726	0.68885149	0.5964300586
## 1727	0.42686338	0.1824888430
## 1728	0.47640773	0.2607689205
## 1729	0.70416207	0.6206207806
## 1730	0.38160634	0.1109827217
## 1731	0.50344239	0.3034836822
## 1732	0.50969350	0.3133604340
## 1733	1.09607226	1.2398388688
## 1734	0.38922565	0.1230212237
## 1735	0.39166999	0.1268832946
## 1736	0.82868350	0.8173646298
## 1737	0.27504707	-0.0573809322
## 1738	0.42178634	0.1744671169
## 1739	0.62929115	0.5023247138
## 1740	0.47511003	0.2587185491
## 1741	2.06703076	2.7739533109
## 1742	0.46228718	0.2384584492
## 1743	1.03295356	1.1401113246
## 1744	0.41787875	0.1682931328
## 1745	0.50375853	0.3039831872
## 1746	0.73854933	0.6749526519
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## 1748	0.62455650	0.4948439801
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## 1751	0.53135018	0.3475779855
## 1752	0.75198963	0.6961883162
## 1753	0.56689410	0.4037373889
## 1754	0.59577878	0.4493751706
## 1755	0.42922332	0.1862175566
## 1756	0.57091169	0.4100851740
## 1757	0.29154151	-0.0313197137
## 1758	0.48623035	0.2762886531
## 1759	0.67093176	0.5681168889
## 1760	0.69658441	0.6086480639
## 1761	0.48363224	0.2721836478
## 1762	0.50675121	0.3087116205
## 1763	0.79998468	0.7720204941
## 1764	0.34011580	0.0454276607
## 1765	0.73509045	0.6694876173
## 1766	1.27186498	1.5175913672
## 1767	0.59522668	0.4485028609
## 1768	0.62062579	0.4886334468
## 1769	0.78286953	0.7449785664
## 1770	1.38501332	1.6963657440
## 1771	0.71137947	0.6320242684
## 1772	0.58629406	0.4343893232
## 1773	0.66927894	0.5655054326
## 1774	0.78576745	0.7495572702

## 1775	0.63481561	0.5110533646
## 1776	1.31194745	1.5809216741
## 1777	0.30499853	-0.0100576131
## 1778	0.85162150	0.8536066759
## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
## 1784	0.51696206	0.3248447635
## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
## 1800	1.56355427	1.9784604502
## 1801	0.48287831	0.2709924398
## 1802	0.48102844	0.2680696350
## 1803	0.47372959	0.2565374490
## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
## 1808	0.53173109	0.3481798289
## 1809	0.55829285	0.3901474142
## 1810	0.55202444	0.3802433107
## 1811	0.45466418	0.2264141155
## 1812	0.73262174	0.6655870564
## 1813	0.45866930	0.2327421922
## 1814	1.00507042	1.0960559729
## 1815	0.56258853	0.3969345853
## 1816	1.08595175	1.2238484761
## 1817	0.47750938	0.2625095285
## 1818	0.78031136	0.7409366513
## 1819	0.88290178	0.9030295135
## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
## 1822	0.50753329	0.3099472951
## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571
## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758
## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186

## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999
## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
## 1842	0.70924514	0.6286520318
## 1843	0.68306940	0.5872943575
## 1844	0.36527721	0.0851826876
## 1845	0.72529162	0.6540054658
## 1846	0.31789123	0.0103128463
## 1847	0.93275774	0.9818019272
## 1848	0.42839373	0.1849067986
## 1849	0.26478152	-0.0736004911
## 1850	0.80667876	0.7825971386
## 1851	0.29234669	-0.0300475215
## 1852	0.87921131	0.8971985763
## 1853	0.71828512	0.6429351979
## 1854	0.34827055	0.0583121744
## 1855	0.58829881	0.4375568211
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## 1858	0.55824557	0.3900727105
## 1859	0.39554888	0.1330119305
## 1860	0.97391433	1.0468293369
## 1861	0.85946053	0.8659923360
## 1862	0.58055985	0.4253292684
## 1863	0.53987832	0.3610524561
## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
## 1868	0.82783971	0.8160314387
## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
## 1872	0.59203556	0.4434608852
## 1873	1.13696744	1.3044532551
## 1874	0.51690971	0.3247620403
## 1875	0.35787909	0.0734936670
## 1876	0.62642039	0.4977889198
## 1877	0.90485939	0.9377225445
## 1878	0.54011916	0.3614329705
## 1879	0.24500598	-0.1048458411
## 1880	0.27680829	-0.0545982020
## 1881	0.59780823	0.4525817134
## 1882	0.32131601	0.0157240052

## 1883	0.33194804	0.0325226088
## 1884	0.50366457	0.3038347221
## 1885	0.44209088	0.2065482944
## 1886	0.68201057	0.5856214000
## 1887	0.50611987	0.3077140904
## 1888	0.66607314	0.5604402666
## 1889	1.08875214	1.2282730769
## 1890	0.50777878	0.3103351691
## 1891	0.59042451	0.4409154347
## 1892	0.64631389	0.5292206564
## 1893	0.62750473	0.4995021709
## 1894	0.38856081	0.1219707871
## 1895	0.40356357	0.1456751407
## 1896	0.68234318	0.5861469337
## 1897	0.28981596	-0.0340460734
## 1898	0.61507616	0.4798650424
## 1899	1.12051068	1.2784515741
## 1900	0.35377302	0.0670060798
## 1901	1.19154526	1.3906862070
## 1902	0.75911076	0.7074397051
## 1903	0.38049786	0.1092313259
## 1904	0.46120582	0.2367499000
## 1905	0.43079406	0.1886993155
## 1906	0.75553242	0.7017859319
## 1907	0.49740579	0.2939458591
## 1908	0.96580096	1.0340102195
## 1909	0.61706401	0.4830058353
## 1910	0.67076952	0.5678605383
## 1911	0.30294764	-0.0132980204
## 1912	0.73514090	0.6695673178
## 1913	0.36498133	0.0847152051
## 1914	0.62991395	0.5033087456
## 1915	0.93843107	0.9907657981
## 1916	0.73284839	0.6659451597
## 1917	0.30263953	-0.0137848438
## 1918	0.60210611	0.4593723537
## 1919	1.35313332	1.6459953559
## 1920	0.84876687	0.8490963568
## 1921	0.30782593	1.1627402003
## 1922	0.63852414	1.6852433713
## 1923	1.07345367	2.3724320325
## 1924	0.53721074	1.5251682097
## 1925	0.64535246	1.6960321293
## 1926	1.30700477	2.7414427730
## 1927	0.57266864	1.5811916857
## 1928	0.22867257	1.0376778929
## 1929	0.77798138	1.9055858190
## 1930	0.51445588	1.4892155330
## 1931	0.53125821	1.5157632106
## 1932	0.36042467	1.2458462083
## 1933	0.52579805	1.5071361534
## 1934	0.61551229	1.6488846463
## 1935	0.40602305	1.3178916551
## 1936	0.43688504	1.3666535959

## 1937	0.52267399	1.5022001372
## 1938	0.32972486	1.1973405088
## 1939	0.36892979	1.2592843044
## 1940	0.81388893	1.9623197381
## 1941	0.91157682	2.1166666148
## 1942	0.68355048	1.7563849990
## 1943	0.68513454	1.7588878036
## 1944	1.44148297	2.9539183247
## 1945	0.68070467	1.7518886159
## 1946	1.14451401	2.4847073750
## 1947	0.49523799	1.4588512573
## 1948	0.95557201	2.1861790153
## 1949	0.56458609	1.5684212566
## 1950	0.84334816	2.0088653281
## 1951	0.37082624	1.2622806994
## 1952	0.45481201	1.3949782065
## 1953	0.55360885	1.5510772204
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## 1955	0.63800733	1.6844268171
## 1956	1.55474729	3.1328759546
## 1957	0.61446180	1.6472248741
## 1958	0.50570899	1.4753954456
## 1959	0.56872928	1.5749674998
## 1960	1.28249562	2.7027183143
## 1961	0.31437123	1.1730817792
## 1962	0.45527558	1.3957106495
## 1963	0.32548569	1.1906426295
## 1964	0.39348477	1.2980811643
## 1965	0.43979321	1.3712485021
## 1966	0.45644054	1.3975512937
## 1967	0.52627784	1.5078942292
## 1968	0.41550540	1.3328737683
## 1969	0.32927445	1.1966288703
## 1970	0.59661493	1.6190268182
## 1971	0.71779794	1.8104959785
## 1972	0.45842285	1.4006833438
## 1973	0.52508057	1.5060025301
## 1974	0.67095059	1.7364771607
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## 1976	0.82598106	1.9814253104
## 1977	0.37757934	1.2729505920
## 1978	0.49977499	1.4660197178
## 1979	0.69346159	1.7720445436
## 1980	0.73933513	1.8445247382
## 1981	0.40445636	1.3154162830
## 1982	0.74721569	1.8569760211
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## 1985	0.80538734	1.9488872357
## 1986	0.52577864	1.5071054848
## 1987	0.77359665	1.8986579466
## 1988	0.47110428	1.4207199909
## 1989	0.57453525	1.5841409331
## 1990	1.03744782	2.3155427858

##	1991	0.77008330	1.8931068531
##	1992	1.02969959	2.3033005822
##	1993	0.52149601	1.5003389279
##	1994	0.44314062	1.3765374082
##	1995	0.85042918	2.0200533422
##	1996	0.90931574	2.1130940983
##	1997	0.74392309	1.8517737160
##	1998	0.48276852	1.4391494898
##	1999	0.73102513	1.8313949344
##	2000	0.87087006	2.0523499273
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##	2005	0.66583878	1.7284005068
##	2006	0.36771646	1.2573672373
##	2007	0.35197312	1.2324927615
##	2008	0.36620494	1.2549790456
##	2009	0.66940618	1.7340370038
##	2010	0.49923708	1.4651698144
##	2011	0.33135541	1.1999167821
##	2012	0.97549851	2.2176628839
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##	2015	0.98022217	2.2251262615
##	2016	0.43384544	1.3618510355
##	2017	0.92821244	2.1429508879
##	2018	0.50774665	1.4786149391
##	2019	0.44724253	1.3830184367
##	2020	0.68332058	1.7560217487
##	2021	0.63940307	1.6866320865
##	2022	0.50599887	1.4758534460
##	2023	0.46243806	1.4070273745
##	2024	0.73190451	1.8327843612
##	2025	0.76728520	1.8886858517
##	2026	0.98332961	2.2300360200
##	2027	0.42322218	1.3450662810
##	2028	0.74185974	1.8485136266
##	2029	1.37257088	2.8450372221
##	2030	0.60056308	1.6252648941
##	2031	0.55001924	1.5454056373
##	2032	0.64764911	1.6996608300
##	2033	0.69023599	1.7669481045
##	2034	0.37508879	1.2690155262
##	2035	0.60627327	1.6342869943
##	2036	0.46433290	1.4100212239
##	2037	0.70207034	1.7856463711
##	2038	0.39461906	1.2998733509
##	2039	0.74126388	1.8475721715
##	2040	0.53445410	1.5208127100
##	2041	0.48783826	1.4471596927
##	2042	0.60889770	1.6384335943
##	2043	0.42125008	1.3419503624
##	2044	0.65361283	1.7090835102

##	2045	0.76931191	1.8918880603
##	2046	0.40996580	1.3241211929
##	2047	0.30717193	1.1617068828
##	2048	0.74748617	1.8574033883
##	2049	0.64887007	1.7015899488
##	2050	0.61289322	1.6447465161
##	2051	0.54297556	1.5342766206
##	2052	0.61439473	1.6471189059
##	2053	1.67823198	3.3279817685
##	2054	0.81596289	1.9655965979
##	2055	0.74692807	1.8565215801
##	2056	0.83135017	1.9899085066
##	2057	0.58402391	1.5991330113
##	2058	0.48609908	1.4444117791
##	2059	0.86800500	2.0478231275
##	2060	0.52414938	1.5045312525
##	2061	1.06381443	2.3572020303
##	2062	0.48830577	1.4478983541
##	2063	1.28499148	2.7066617770
##	2064	0.45512819	1.3954777695
##	2065	0.72015297	1.8142169309
##	2066	0.68745236	1.7625499596
##	2067	0.24859935	1.0691622128
##	2068	0.70670311	1.7929661412
##	2069	0.95609361	2.1870031358
##	2070	0.38250101	1.2807268236
##	2071	0.67559651	1.7438177247
##	2072	0.59103348	1.6102081406
##	2073	1.70641044	3.3725037269
##	2074	1.05231861	2.3390386376
##	2075	0.44156629	1.3740499765
##	2076	0.73142795	1.8320313998
##	2077	1.22110425	2.6057199546
##	2078	0.35982648	1.2449010686
##	2079	1.14793837	2.4901178639
##	2080	0.59805848	1.6213076385
##	2081	0.63232108	1.6754425361
##	2082	0.50706982	1.4775455451
##	2083	0.49351041	1.4561216819
##	2084	0.86492695	2.0429598150
##	2085	1.17020240	2.5252950265
##	2086	0.46438838	1.4101088702
##	2087	0.66226389	1.7227521872
##	2088	0.50195980	1.4694717148
##	2089	1.17731699	2.5365360788
##	2090	0.89939937	2.0974262343
##	2091	0.93487479	2.1534774053
##	2092	0.72309163	1.8188600170
##	2093	0.63578386	1.6809137328
##	2094	0.28603826	1.1283156868
##	2095	0.52584834	1.5072156160
##	2096	0.36522701	1.2534339124
##	2097	1.00429388	2.2631595654
##	2098	0.95851137	2.1908232020

##	2099	0.89316700	2.0875791003
##	2100	0.39637162	1.3026423894
##	2101	0.34841614	1.2268727356
##	2102	0.69406023	1.7729903961
##	2103	1.49161792	3.0331315445
##	2104	0.65730225	1.7149127921
##	2105	0.87261372	2.0551049175
##	2106	0.62314378	1.6609424083
##	2107	0.35757808	1.2413485942
##	2108	0.46030743	1.4036609797
##	2109	0.50322188	1.4714658103
##	2110	0.40464564	1.3157153481
##	2111	0.39543316	1.3011596235
##	2112	0.44151635	1.3739710739
##	2113	0.50868484	1.4800972834
##	2114	0.68744639	1.7625405367
##	2115	0.32631095	1.1919465367
##	2116	0.70303579	1.7871717785
##	2117	0.46744613	1.4149401141
##	2118	1.12953449	2.4610397287
##	2119	0.99680815	2.2513321165
##	2120	0.65189591	1.7063707764
##	2121	0.40158740	1.3108833292
##	2122	0.76033173	1.8776993721
##	2123	1.03709434	2.3149842855
##	2124	0.40891988	1.3224686457
##	2125	0.47947718	1.4339491864
##	2126	1.03996563	2.3195209225
##	2127	0.56675057	1.5718411430
##	2128	0.81139031	1.9583719297
##	2129	1.02529413	2.2963399550
##	2130	0.56135938	1.5633230611
##	2131	0.59853830	1.6220657450
##	2132	0.53984949	1.5293374293
##	2133	0.59055880	1.6094581448
##	2134	0.70740762	1.7940792677
##	2135	0.71787120	1.8106117336
##	2136	0.30082811	1.1516836550
##	2137	0.89033460	2.0831038974
##	2138	0.43608832	1.3653947770
##	2139	0.70698606	1.7934132164
##	2140	0.61088768	1.6415777751
##	2141	0.48571855	1.4438105428
##	2142	0.71492073	1.8059499841
##	2143	0.44131235	1.3736487519
##	2144	0.67385894	1.7410723535
##	2145	0.67619848	1.7447688320
##	2146	0.61306734	1.6450216327
##	2147	0.48197273	1.4378921413
##	2148	0.69694211	1.7775437723
##	2149	1.21761798	2.6002116460
##	2150	0.35124942	1.2313493183
##	2151	0.59522192	1.6168258732
##	2152	0.67366104	1.7407596770

##	2153	0.85135245	2.0215120999
##	2154	1.08627434	2.3926886942
##	2155	0.73848891	1.8431877083
##	2156	0.36354523	1.2507767003
##	2157	1.34782686	2.8059416663
##	2158	0.36613376	1.2548665731
##	2159	0.35767478	1.2415013948
##	2160	0.43238797	1.3595482211
##	2161	0.51113104	1.1317600689
##	2162	1.29460325	2.3696461515
##	2163	0.46478566	1.0585343603
##	2164	0.46572391	1.0600167950
##	2165	1.41653356	2.5622960400
##	2166	0.69954032	1.4294467175
##	2167	0.47452153	1.0739170421
##	2168	0.93383789	1.7996368819
##	2169	0.88059708	1.7155164120
##	2170	0.44531623	1.0277726555
##	2171	0.47336452	1.0720889657
##	2172	0.59741696	1.2680918162
##	2173	1.44317421	2.6043882769
##	2174	1.76789091	3.1174406547
##	2175	0.76060653	1.5259313309
##	2176	0.34292147	0.8659889464
##	2177	1.16097412	2.1585121288
##	2178	1.21525600	2.2442775050
##	2179	0.99459107	1.8956269132
##	2180	0.57409476	1.2312427324
##	2181	0.45894462	1.0493055169
##	2182	0.64489755	1.3431111440
##	2183	0.51479930	1.1375559088
##	2184	0.96415363	1.8475357605
##	2185	0.58958347	1.2557148976
##	2186	1.12237943	2.0975325210
##	2187	0.62348167	1.3092740521
##	2188	0.97878362	1.8706511403
##	2189	0.54383621	1.1834342242
##	2190	0.71642169	1.4561192836
##	2191	0.61239702	1.2917603126
##	2192	0.35485798	0.8848486200
##	2193	0.86987281	1.6985720594
##	2194	0.72801963	1.4744440332
##	2195	1.48779274	2.6748855531
##	2196	0.32778072	0.8420665572
##	2197	0.63407284	1.3260081006
##	2198	0.55097602	1.1947151217
##	2199	0.58601955	1.2500839052
##	2200	0.48311966	1.0875020793
##	2201	0.47872185	1.0805535351
##	2202	0.37935092	0.9235474781
##	2203	0.49702896	1.1094787753
##	2204	0.46078093	1.0522068796
##	2205	0.42327813	0.9929524675
##	2206	0.39502285	0.9483091280

##	2207	0.46930552	1.0656757416
##	2208	0.46886769	1.0649839691
##	2209	0.99669396	1.8989494704
##	2210	0.68087598	1.3999570716
##	2211	0.35111408	0.8789332682
##	2212	0.65824440	1.3641991646
##	2213	0.62657213	1.3141569903
##	2214	0.89376333	1.7363190795
##	2215	0.56331691	1.2142137322
##	2216	0.77369090	1.5466046330
##	2217	0.57988776	1.2403956779
##	2218	0.42703071	0.9988815381
##	2219	0.86800454	1.6956201931
##	2220	0.36666248	0.9034997316
##	2221	0.57767116	1.2368934515
##	2222	0.63859249	1.3331491544
##	2223	0.47432287	1.0736031519
##	2224	0.64579547	1.3445298594
##	2225	0.56790219	1.2214584848
##	2226	0.84601927	1.6608834610
##	2227	0.45947636	1.0501456641
##	2228	0.85883700	1.6811354799
##	2229	0.73058357	1.4784950523
##	2230	0.43028795	1.0040279758
##	2231	0.60466271	1.2795401054
##	2232	1.58304403	2.8253825836
##	2233	0.68872859	1.4123641871
##	2234	0.42529251	0.9961351875
##	2235	0.61831450	1.3011099258
##	2236	0.87425093	1.7054894907
##	2237	0.75014576	1.5094033208
##	2238	0.34360008	0.8670611512
##	2239	0.37939040	0.9236098501
##	2240	0.36459487	0.9002329170
##	2241	0.45998871	1.0509551726
##	2242	0.53095586	1.1630832807
##	2243	0.43771161	1.0157573671
##	2244	0.75871221	1.5229383117
##	2245	0.32129174	0.8318139596
##	2246	0.70841275	1.4434651636
##	2247	1.20071035	2.2212953701
##	2248	0.90345924	1.7516386128
##	2249	0.85966260	1.6824399293
##	2250	0.39653523	0.9506986779
##	2251	0.52218128	1.1492194368
##	2252	0.60330406	1.2773934314
##	2253	0.83007204	1.6356868416
##	2254	1.18709335	2.1997805060
##	2255	0.50941956	1.1290559195
##	2256	0.47770736	1.0789506479
##	2257	0.47414117	1.0733160602
##	2258	0.36859483	0.9065528478
##	2259	0.76225748	1.5285398434
##	2260	0.99324759	1.8935042140

##	2261	0.49136307	1.1005266732
##	2262	0.34753505	0.8732784029
##	2263	0.94142254	1.8116206315
##	2264	0.48138647	1.0847636446
##	2265	0.35397128	0.8834476351
##	2266	0.81594704	1.6133693411
##	2267	0.82568130	1.6287494656
##	2268	0.50528512	1.1225235116
##	2269	0.69726993	1.4258595108
##	2270	0.61045203	1.2886872322
##	2271	1.34499585	2.4492664611
##	2272	0.81592824	1.6133396372
##	2273	0.34443455	0.8683795999
##	2274	1.04238249	1.9711373470
##	2275	0.81920293	1.6185136529
##	2276	0.32716598	0.8410952665
##	2277	0.57596227	1.2341933995
##	2278	1.57783560	2.8171532695
##	2279	0.88015315	1.7148149983
##	2280	0.36571111	0.9019965765
##	2281	0.58344323	1.2460133141
##	2282	0.49966408	1.1136422717
##	2283	0.77560407	1.5496274506
##	2284	0.52302631	1.1505545859
##	2285	0.98666449	1.8831029087
##	2286	0.70307398	1.4350299141
##	2287	0.84252365	1.6553603862
##	2288	0.46161176	1.0535195929
##	2289	0.62522562	1.3120294997
##	2290	0.71990803	1.4616277050
##	2291	0.50085443	1.1155230195
##	2292	0.74940230	1.5082286529
##	2293	0.71133176	1.4480771968
##	2294	0.73564198	1.4864873386
##	2295	0.59670577	1.2669681272
##	2296	1.02352128	1.9413366371
##	2297	0.53091347	1.1630163082
##	2298	0.77630110	1.5507287604
##	2299	0.69337833	1.4197107828
##	2300	0.46176998	1.0537695937
##	2301	0.70533758	1.4386063932
##	2302	0.54713841	1.1886517056
##	2303	0.38570986	0.9335946043
##	2304	0.48811677	1.0953975168
##	2305	0.47276286	1.0711383433
##	2306	0.29418468	0.7889848115
##	2307	0.55702995	1.2042803384
##	2308	0.51967827	1.1452646848
##	2309	0.68320346	1.4036344904
##	2310	0.39318759	0.9454094022
##	2311	0.52736269	1.1574060628
##	2312	0.31147650	0.8163058818
##	2313	1.25934941	2.3139450822
##	2314	0.38659311	0.9349901324

##	2315	0.85446617	1.6742295687
##	2316	0.54134898	1.1795044102
##	2317	0.83250087	1.6395243975
##	2318	0.51913193	1.1444014661
##	2319	0.53545460	1.1701912847
##	2320	0.38833957	0.9377495448
##	2321	0.44479395	1.0269474609
##	2322	1.37090070	2.4901961316
##	2323	0.37671428	0.9193815817
##	2324	0.39447399	0.9474419167
##	2325	0.50812493	1.1270104141
##	2326	0.26929184	0.7496541304
##	2327	0.94745842	1.8211573147
##	2328	0.35076243	0.8783776626
##	2329	0.96972001	1.8563306302
##	2330	0.49111991	1.1001424728
##	2331	0.66498583	1.3748506322
##	2332	0.68160095	1.4011025246
##	2333	0.90363438	1.7519153353
##	2334	0.38100761	0.9261650355
##	2335	0.44226877	1.0229576796
##	2336	0.68790750	1.4110668644
##	2337	0.76251300	1.5289435508
##	2338	0.56173151	1.2117088007
##	2339	0.68342760	1.4039886232
##	2340	0.42605789	0.9973444885
##	2341	0.60999110	1.2879589554
##	2342	0.38795623	0.9371438638
##	2343	0.65605344	1.3607374523
##	2344	0.77439127	1.5477112239
##	2345	1.54229537	2.7609996963
##	2346	0.43063869	1.0045821427
##	2347	0.50287321	1.1187126919
##	2348	0.74344180	1.4988110573
##	2349	0.95926289	1.8398083842
##	2350	0.53905784	1.1758844094
##	2351	0.54828892	1.1904695129
##	2352	0.81254524	1.6079944994
##	2353	0.65222390	1.3546867771
##	2354	1.75209258	3.0924792879
##	2355	0.65880550	1.3650857123
##	2356	0.91471391	1.7694209912
##	2357	0.43358630	1.0092393781
##	2358	0.41904798	0.9862688257
##	2359	1.06944411	2.0138947107
##	2360	0.96760291	1.8529856114
##	2361	0.69280432	1.4188038391
##	2362	0.24982157	0.7188910986
##	2363	0.44651618	1.0296685884
##	2364	1.58273662	2.8248968778
##	2365	0.42477553	0.9953183551
##	2366	1.71466717	3.0333471427
##	2367	0.55323033	1.1982769388
##	2368	0.85508330	1.6752046296

```
## 2369 0.58643240 1.2507362176
## 2370 0.69534042 1.4228108788
## 2371 0.40571530 0.9652031977
## 2372 0.46493841 1.0587757135
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2376 0.40741388 0.9678869468
## 2377 0.60362077 1.2778938308
## 2378 0.45727287 1.0466641549
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2386 0.51207894 1.1332577481
## 2387 0.70842425 1.4434833366
## 2388 0.51839542 1.1432377805
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2396 0.64153963 1.3378056272
## 2397 0.31027572 0.8144086632
## 2398 0.75388818 1.5153163433
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
```

```
# and "data" was the second label
allData[2]
```

```
## $my_data
##      X subj_no age group stim trial difficulty resp corr conf
## 1      1      10  23      2      2      1      2      1      0      2
## 2      2      10  36      2      1      2      3      2      0      1
## 3      3      10  38      2      2      3      2      2      1      4
## 4      4      10  25      2      2      4      1      1      0      3
## 5      5      10  20      2      1      5      2      1      1      4
## 6      6      10  40      2      1      6      1      1      1      5
## 7      7      10  23      2      2      7      3      1      0      2
## 8      8      10  20      2      2      8      1      1      0      4
## 9      9      10  40      2      2      9      3      1      0      1
## 10     10     10  23      2      2     10      1      1      0      4
## 11     11     10  23      2      1     11      1      1      1      5
## 12     12     10  36      2      1     12      2      2      0      2
## 13     13     10  38      2      2     13      3      1      0      1
## 14     14     10  25      2      2     14      2      2      1      3
## 15     15     10  20      2      1     15      2      2      0      3
## 16     16     10  40      2      1     16      2      1      1      4
## 17     17     10  23      2      1     17      1      1      1      4
```

## 18	18	10	20	2	2	18	1	2	1	5
## 19	19	10	40	2	1	19	1	1	1	4
## 20	20	10	23	2	1	20	1	2	0	4
## 21	21	10	23	2	2	21	3	2	1	3
## 22	22	10	36	2	1	22	1	1	1	5
## 23	23	10	38	2	2	23	1	2	1	4
## 24	24	10	25	2	2	24	3	2	1	2
## 25	25	10	20	2	1	25	2	2	0	3
## 26	26	10	40	2	1	26	2	1	1	4
## 27	27	10	23	2	1	27	3	2	0	2
## 28	28	10	20	2	1	28	1	1	1	5
## 29	29	10	40	2	1	29	2	2	0	2
## 30	30	10	23	2	1	30	2	1	1	3
## 31	31	10	23	2	1	31	1	1	1	5
## 32	32	10	36	2	2	32	1	1	0	4
## 33	33	10	38	2	1	33	1	1	1	4
## 34	34	10	25	2	1	34	1	1	1	5
## 35	35	10	20	2	2	35	1	2	1	5
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## 705	705	8	26	2	2	225	3	2	1	2
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## 708	708	8	29	2	2	228	3	2	1	2
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## 717	717	8	18	2	1	237	2	1	1	3
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## 720	720	8	40	2	1	240	2	1	1	3
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## 722	722	7	21	1	2	2	2	1	0	3
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## 740	740	7	38	1	1	20	1	1	1	5
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## 812	812	7	21	1	1	92	3	1	1	3
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## 2012 2012	2	30	2	2	92	3	1	0	1
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## 2015 2015	2	24	2	2	95	3	2	1	2

## 2016 2016	2	19	2	2	96	2	1	0	3
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## 2018 2018	2	30	2	2	98	2	2	1	4
## 2019 2019	2	36	2	1	99	1	1	1	5
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## 2021 2021	2	29	2	2	101	2	2	1	3
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##	2327	2327	1	30	1	2	167	3	2	1	3
##	2328	2328	1	20	1	1	168	1	1	1	5
##	2329	2329	1	24	1	1	169	3	1	1	3
##	2330	2330	1	30	1	1	170	2	2	0	3
##	2331	2331	1	21	1	1	171	3	1	1	2
##	2332	2332	1	27	1	1	172	2	1	1	3
##	2333	2333	1	22	1	2	173	2	1	0	3
##	2334	2334	1	24	1	1	174	2	1	1	4
##	2335	2335	1	28	1	1	175	1	1	1	4
##	2336	2336	1	18	1	1	176	2	2	0	2
##	2337	2337	1	30	1	2	177	2	1	0	3
##	2338	2338	1	20	1	1	178	1	2	0	3
##	2339	2339	1	24	1	1	179	2	2	0	2

## 2340 2340	1	30	1	2	180	1	1	0	3
## 2341 2341	1	21	1	1	181	2	2	0	2
## 2342 2342	1	27	1	1	182	1	1	1	5
## 2343 2343	1	22	1	1	183	3	1	1	3
## 2344 2344	1	24	1	2	184	2	2	1	4
## 2345 2345	1	28	1	1	185	3	2	0	2
## 2346 2346	1	18	1	2	186	1	2	1	4
## 2347 2347	1	30	1	1	187	2	1	1	4
## 2348 2348	1	20	1	2	188	2	2	1	3
## 2349 2349	1	24	1	1	189	3	1	1	3
## 2350 2350	1	30	1	1	190	2	1	1	4
## 2351 2351	1	21	1	1	191	2	2	0	3
## 2352 2352	1	27	1	1	192	3	2	0	2
## 2353 2353	1	22	1	1	193	2	1	1	4
## 2354 2354	1	24	1	1	194	3	2	0	2
## 2355 2355	1	28	1	2	195	2	2	1	3
## 2356 2356	1	18	1	2	196	3	2	1	3
## 2357 2357	1	30	1	2	197	1	1	0	4
## 2358 2358	1	20	1	1	198	1	1	1	5
## 2359 2359	1	24	1	2	199	3	2	1	3
## 2360 2360	1	30	1	2	200	3	2	1	2
## 2361 2361	1	21	1	1	201	2	1	1	4
## 2362 2362	1	27	1	2	202	1	2	1	4
## 2363 2363	1	22	1	2	203	2	2	1	3
## 2364 2364	1	24	1	1	204	3	2	0	2
## 2365 2365	1	28	1	1	205	1	1	1	5
## 2366 2366	1	18	1	1	206	3	2	0	1
## 2367 2367	1	30	1	1	207	2	1	1	4
## 2368 2368	1	20	1	2	208	3	2	1	2
## 2369 2369	1	24	1	1	209	2	2	0	2
## 2370 2370	1	30	1	1	210	2	1	1	4
## 2371 2371	1	21	1	2	211	1	2	1	5
## 2372 2372	1	27	1	1	212	1	1	1	4
## 2373 2373	1	22	1	1	213	3	1	1	2
## 2374 2374	1	24	1	1	214	2	1	1	3
## 2375 2375	1	28	1	2	215	2	2	1	4
## 2376 2376	1	18	1	2	216	1	2	1	5
## 2377 2377	1	30	1	2	217	2	2	1	3
## 2378 2378	1	20	1	1	218	1	1	1	5
## 2379 2379	1	24	1	2	219	3	2	1	2
## 2380 2380	1	30	1	2	220	2	2	1	3
## 2381 2381	1	21	1	1	221	3	2	0	2
## 2382 2382	1	27	1	1	222	1	1	1	5
## 2383 2383	1	22	1	2	223	2	1	0	3
## 2384 2384	1	24	1	1	224	1	2	0	3
## 2385 2385	1	28	1	1	225	3	1	1	2
## 2386 2386	1	18	1	2	226	2	2	1	3
## 2387 2387	1	30	1	1	227	3	2	0	1
## 2388 2388	1	20	1	1	228	3	2	0	1
## 2389 2389	1	24	1	2	229	1	2	1	5
## 2390 2390	1	30	1	1	230	1	1	1	5
## 2391 2391	1	21	1	1	231	1	1	1	4
## 2392 2392	1	27	1	2	232	3	1	0	2
## 2393 2393	1	22	1	2	233	2	1	0	3

##	2394	2394	1	24	1	2	234	3	1	0	2
##	2395	2395	1	28	1	1	235	1	1	1	5
##	2396	2396	1	18	1	2	236	2	2	1	4
##	2397	2397	1	30	1	1	237	1	1	1	5
##	2398	2398	1	20	1	2	238	3	2	1	3
##	2399	2399	1	24	1	1	239	3	1	1	2
##	2400	2400	1	30	1	1	240	2	2	0	2
##		RT_day1					RT_day2				
##	1	0.60761494					1.5589454195				
##	2	0.70900369					1.7191396404				
##	3	0.62320134					1.5835719316				
##	4	0.68807593					1.6860737827				
##	5	0.72964798					1.7517576138				
##	6	0.40986839					1.2465058600				
##	7	0.73163809					1.7549019885				
##	8	0.44395248					1.3003587212				
##	9	1.34663842					2.7266025145				
##	10	0.56936275					1.4985069465				
##	11	0.34670307					1.1467046633				
##	12	0.74287703					1.7726595103				
##	13	0.99696099					2.1741121766				
##	14	0.64211892					1.6134617047				
##	15	0.84022110					1.9264631512				
##	16	0.59109391					1.5328421846				
##	17	0.61122270					1.5646456801				
##	18	0.48189435					1.3603068900				
##	19	0.38717101					1.2106439993				
##	20	0.62645332					1.5887100617				
##	21	0.32772079					1.1167126619				
##	22	0.45575074					1.3189999772				
##	23	0.40837268					1.2441426473				
##	24	0.57411528					1.5060159553				
##	25	1.01032222					2.1952229145				
##	26	0.66428165					1.6484788125				
##	27	0.36358039					1.1733708290				
##	28	0.56185333					1.4866420726				
##	29	0.73812986					1.7651589875				
##	30	0.76446834					1.8067737785				
##	31	0.35769718					1.1640753480				
##	32	0.61056975					1.5636140085				
##	33	0.32598242					1.1139660340				
##	34	0.40429136					1.2376941601				
##	35	0.40053839					1.2317644636				
##	36	0.34524324					1.1443981325				
##	37	0.40056035					1.2317991609				
##	38	1.14269255					2.4043680431				
##	39	0.34943628					1.1510231246				
##	40	0.32363422					1.1102558802				
##	41	0.47646070					1.3517217134				
##	42	0.50021394					1.3892518344				
##	43	0.68535150					1.6817691861				
##	44	0.59257262					1.5351785431				
##	45	0.59787724					1.5435598465				
##	46	0.90805273					2.0336371205				

## 47	0.64412268	1.6166276401
## 48	0.33405567	1.1267217714
## 49	0.62489066	1.5862410517
## 50	0.55690563	1.4788247098
## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 55	0.70445473	1.7119522773
## 56	0.69476067	1.6966356732
## 57	0.44563960	1.3030243721
## 58	0.74958963	1.7832654260
## 59	0.56853460	1.4971984736
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 65	0.67851650	1.6709698735
## 66	0.63499179	1.6022008426
## 67	0.55528581	1.4762653837
## 68	1.27402864	2.6118790652
## 69	0.21931196	0.9454267056
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 75	0.44734902	1.3057252614
## 76	0.49218507	1.3765662157
## 77	0.38395864	1.2055684670
## 78	0.58785392	1.5277230068
## 79	0.94625190	2.0939918136
## 80	0.74990464	1.7837631469
## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045
## 85	1.91458043	3.6239508813
## 86	0.55373794	1.4738197472
## 87	0.54724735	1.4635646178
## 88	0.31761021	1.1007379391
## 89	0.54030159	1.4525903197
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433
## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 95	0.41203240	1.2499249988
## 96	0.66632349	1.6517049250
## 97	0.79565802	1.8560534858
## 98	0.60857171	1.5604571033
## 99	0.47376829	1.3474677028
## 100	0.47998040	1.3572828435

## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080
## 105	0.29301375	1.0618755413
## 106	0.58250290	1.5192683946
## 107	0.53437471	1.4432258539
## 108	0.33606437	1.1298955090
## 109	1.29100895	2.6387079516
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 115	1.35553840	2.7406644844
## 116	1.29315232	2.6420944788
## 117	0.19309507	0.9040040253
## 118	0.60223445	1.5504442452
## 119	0.22209087	0.9498173838
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 125	0.69021981	1.6894611111
## 126	0.48973040	1.3726878471
## 127	0.74215682	1.7715215808
## 128	1.11807141	2.3654666384
## 129	0.63570711	1.6033310400
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 135	0.47280888	1.3459518399
## 136	0.72299283	1.7412424831
## 137	0.84721448	1.9375126879
## 138	0.71565088	1.7296421929
## 139	0.48778778	1.3696184980
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 145	0.75924730	1.7985245428
## 146	0.91092679	2.0381781374
## 147	0.40768154	1.2430506427
## 148	0.51028754	1.4051681183
## 149	1.09781942	2.3334684967
## 150	0.55291409	1.4725180652
## 151	1.01542119	2.2032792939
## 152	0.66699475	1.6527655116
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## 154	1.03947212	2.2412797648

## 155	0.92757503	2.0644823495
## 156	1.87401850	3.5598630368
## 157	0.47707108	1.3526861221
## 158	0.91417040	2.0433030366
## 159	1.18868301	2.4770329686
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 165	0.68404229	1.6797006286
## 166	0.33918117	1.1348200589
## 167	0.53567646	1.4452826108
## 168	0.37604605	1.1930665758
## 169	0.80690257	1.8738198642
## 170	0.85511292	1.9499922220
## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 175	0.72894961	1.7506541939
## 176	0.62019085	1.5788153482
## 177	0.63930468	1.6090152036
## 178	0.46757027	1.3376748348
## 179	0.42629950	1.2724670159
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 185	0.94151579	2.0865087534
## 186	0.83289322	1.9148851046
## 187	0.66725426	1.6531755364
## 188	0.30143931	1.0751879183
## 189	0.84816082	1.9390079004
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 195	0.77474604	1.8230125557
## 196	1.28726758	2.6327965891
## 197	0.90481953	2.0285286646
## 198	0.81646739	1.8889322839
## 199	0.44550921	1.3028183539
## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 205	0.85822203	1.9549046222
## 206	0.70337238	1.7102421634
## 207	0.54769292	1.4642686170
## 208	0.57035566	1.5000757471

## 209	0.70635349	1.7149523227
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201
## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 215	0.91020537	2.0370382974
## 216	0.42990794	1.2781683576
## 217	0.72365007	1.7422809188
## 218	0.80243081	1.8667544966
## 219	0.52390364	1.4266815530
## 220	0.46708691	1.3369111306
## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 225	0.69918014	1.7036184284
## 226	0.41653834	1.2570443897
## 227	0.41718838	1.2580714571
## 228	0.52946066	1.4354616561
## 229	0.99303853	2.1679146815
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 235	0.61357056	1.5683552905
## 236	1.36973695	2.7630981940
## 237	0.52499017	1.4283982844
## 238	0.82997084	1.9102677321
## 239	0.61075838	1.5639120457
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931
## 253	0.78974393	1.4539676649
## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381

## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
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## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
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## 291	0.45708081	0.9283599332
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## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
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## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078
## 307	0.49275413	0.9847237780
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## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
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## 315	0.37260027	0.7948806855
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## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
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## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
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## 332	0.37653795	0.8011022093
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## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903
## 361	0.64999740	1.2331681388
## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
## 364	0.60068921	1.1552612063
## 365	0.75512927	1.3992764923
## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564

## 371	0.57029967	1.1072457309
## 372	0.56276979	1.0953485229
## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504
## 375	0.74269915	1.3796369180
## 376	0.53612783	1.0532542196
## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
## 382	1.25914782	2.1956258159
## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765
## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329
## 415	1.02365143	1.8235415129
## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392

## 425	0.50621102	1.0059856673
## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954
## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
## 437	0.49060529	0.9813286153
## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299
## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534
## 469	0.38331819	0.8118149983
## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712

## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449
## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 487	0.58628292	0.7280571582
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 490	1.90348342	2.8092339498
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813
## 496	0.50552613	0.6004614286
## 497	0.60919450	0.7642574655
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 500	0.34392259	0.3451278347
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 507	1.01819048	1.4104711088
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 510	0.35609971	0.3643676853
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 517	0.61831502	0.7786678831
## 518	0.42033311	0.4658564623
## 519	1.37346337	1.9718022652
## 520	0.46736755	0.5401708827
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455
## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 527	0.53822021	0.6521180843
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 530	0.66261779	0.8486662597
## 531	0.53798149	0.6517408997
## 532	0.41767299	0.4616534736

## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
## 535	0.56171487	0.6892396385
## 536	0.61326604	0.7706904948
## 537	0.94027082	1.2873580369
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 540	0.47593981	0.5537150425
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 547	0.49090845	0.5773655064
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 550	0.70937442	0.9225417324
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891
## 556	0.70905772	0.9220413487
## 557	1.22170141	1.7320183711
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 560	0.46850458	0.5419673876
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
## 566	0.61692060	0.7764647030
## 567	0.50310230	0.5966317769
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 570	0.50025695	0.5921361353
## 571	0.40108908	0.4354508987
## 572	0.43565687	0.4900679986
## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 577	0.82701210	1.1084092618
## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 580	0.40090210	0.4351554685
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
## 586	1.35330739	1.9399558302

## 587	1.16115892	1.6363612425
## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
## 590	0.41261921	0.4536684997
## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
## 594	0.55557150	0.6795331136
## 595	0.54317764	0.6599508189
## 596	0.63806618	0.8098747128
## 597	0.49750604	0.5877896872
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648
## 600	0.31570164	0.3005387357
## 601	0.39402241	0.4242855579
## 602	1.17392462	1.6565310448
## 603	0.52353456	0.6289147532
## 604	0.86091730	1.1619794877
## 605	0.41106882	0.4512188764
## 606	0.88780250	1.2044581047
## 607	1.02433982	1.4201870604
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 610	0.28706576	0.2552940476
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332
## 616	0.34781451	0.3512770694
## 617	0.51439983	0.6144818785
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
## 620	0.24585816	0.1901860328
## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
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## 626	0.94832174	1.3000784971
## 627	0.63177708	0.7999379357
## 628	0.56995957	0.7022662675
## 629	0.35787457	0.3671719642
## 630	0.65287127	0.8332667572
## 631	0.88718994	1.2034902579
## 632	0.37893029	0.4004400118
## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
## 636	0.55246788	0.6746294045
## 637	0.50383804	0.5977942564
## 638	0.60018745	0.7500263124
## 639	0.74792839	0.9834569968
## 640	0.75140311	0.9889470549

## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639
## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 647	1.28472747	1.8315995449
## 648	1.03623818	1.4389864676
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## 650	0.39033931	0.4184662541
## 651	1.04545731	1.4535526975
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## 655	0.62377497	0.7872945959
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## 665	0.38029194	0.4025914070
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## 667	0.74107884	0.9726347129
## 668	0.69899227	0.9061379329
## 669	1.09209212	1.5272356926
## 670	0.37333420	0.3915981915
## 671	0.91086054	1.2408897999
## 672	0.58420266	0.7247703507
## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
## 675	0.89945450	1.2228682612
## 676	0.58373866	0.7240372292
## 677	0.45773403	0.5249499202
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
## 680	0.95894313	1.3168603011
## 681	0.26265128	0.2167191769
## 682	0.58468404	0.7255309236
## 683	0.74901761	0.9851779663
## 684	0.90895685	1.2378819771
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## 686	0.43417486	0.4877264298
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## 690	0.49605445	0.5854961778
## 691	0.48915311	0.5745920544
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## 693	0.64684720	0.8237487286
## 694	0.31034486	0.2920750300

## 695	0.35008575	0.3548656315
## 696	0.68878857	0.8900160930
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## 698	0.37023227	0.3866971273
## 699	0.44597139	0.5063649514
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## 703	0.78270949	1.0384111361
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## 705	0.64875053	0.8267559778
## 706	1.02080584	1.4146033813
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## 708	0.88307416	1.1969873137
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## 710	0.51715392	0.6188333473
## 711	0.45506817	0.5207378608
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## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 717	0.60625536	0.7596136204
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
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## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
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## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
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## 736	0.55441868	0.3940240715
## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193
## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
## 742	0.76156446	0.7213143998
## 743	0.65342612	0.5504558285
## 744	0.99508350	1.0902744861
## 745	0.81869282	0.8115772190
## 746	0.94691938	1.0141751730
## 747	0.44810032	0.2260410657
## 748	0.61125278	0.4838219518

## 749	0.32716606	0.0349649404
## 750	0.24395821	-0.0965034655
## 751	0.37857947	0.1161981215
## 752	0.39008333	0.1343742177
## 753	0.55622072	0.3968712883
## 754	1.35495043	1.6588642436
## 755	0.42001361	0.1816640587
## 756	0.55930797	0.4017491473
## 757	0.79898868	0.7804446781
## 758	0.66573327	0.5699011245
## 759	0.46494965	0.2526629991
## 760	0.30121763	-0.0060335895
## 761	0.48186742	0.2793930884
## 762	0.63157168	0.5159258128
## 763	0.58158800	0.4369515986
## 764	0.67819344	0.5895881862
## 765	0.46613616	0.2545376890
## 766	0.68089613	0.5938584413
## 767	1.13031920	1.3039469002
## 768	0.33163207	0.0420212347
## 769	0.80255699	0.7860825964
## 770	0.73266090	0.6756467869
## 771	0.56981544	0.4183509578
## 772	0.44711705	0.2244874922
## 773	0.76698250	0.7298749033
## 774	0.63535938	0.5219103719
## 775	0.52222317	0.3431551651
## 776	0.40555233	0.1588152395
## 777	0.36295022	0.0915038985
## 778	0.60084060	0.4673707020
## 779	0.66978059	0.5762958827
## 780	0.65049594	0.5458261499
## 781	0.47065187	0.2616725138
## 782	0.60275532	0.4703959573
## 783	0.64421860	0.5359079447
## 784	0.72463312	0.6629628861
## 785	0.72652782	0.6659565120
## 786	0.48724955	0.2878968455
## 787	0.44102791	0.2148666491
## 788	0.72810896	0.6684547104
## 789	0.33805537	0.0521700478
## 790	0.41324762	0.1709737903
## 791	0.31033991	0.0083796217
## 792	1.17430250	1.3734405111
## 793	0.53691119	0.3663622315
## 794	0.57849728	0.4320682581
## 795	0.57144092	0.4209192135
## 796	0.43119413	0.1993292913
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## 803	0.53378124	0.3614169162
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## 832	0.71932126	0.6545701487
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## 837	0.61260962	0.4859657611
## 838	0.73533866	0.6798776478
## 839	0.83975225	0.8448511148
## 840	0.85609303	0.8706695409
## 841	1.33874227	1.6332553429
## 842	0.65106463	0.5467246709
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## 844	1.15764177	1.3471165558
## 845	0.62940103	0.5124961850
## 846	0.47727650	0.2721394351
## 847	0.54635194	0.3812786185
## 848	0.36478545	0.0944035658
## 849	0.45424569	0.2357507531
## 850	0.37493668	0.1104425201
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## 869	0.46753237	0.2567437065
## 870	0.45899249	0.2432506987
## 871	0.77567344	0.7436065879
## 872	0.77769471	0.7468001935
## 873	0.67272193	0.5809432090
## 874	0.58579490	0.4435984954
## 875	0.31050734	0.0086441614
## 876	0.93618820	0.9972199135
## 877	0.55168465	0.3897043001
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## 879	0.81951777	0.8128806271
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## 891	0.36185274	0.0897698945
## 892	0.42450664	0.1887630439
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## 894	0.79090793	0.7676770839
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## 905	0.39146754	0.1365612698
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## 925	0.59765579	0.4623387054
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## 927	0.63694220	0.5244112348
## 928	0.91945797	0.9707861500
## 929	0.51666141	0.3343675825
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## 931	0.43865656	0.2111199261
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## 945	1.77343222	2.3200654728
## 946	0.55637382	0.3971131961
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## 951	0.28387782	-0.0334304908
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## 956	0.22263760	-0.1301900280
## 957	0.42847847	0.1950385413
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## 1011	0.38898327	1.0522950470
## 1012	0.44491870	1.1406730258
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## 1014	0.54526113	1.2992140705
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## 1019	0.46965780	1.1797608075
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## 1021	0.58465635	1.3614585054
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## 1023	0.50529803	1.2360723629
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## 1032	0.66647171	1.4907267837
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## 1226	0.29612748	-0.6399152606
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## 1233	0.69592917	-0.0082286015
## 1234	0.49849085	-0.3201811370

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## 1683	0.73312145	0.6663765922
## 1684	0.85785717	0.8634590350
## 1685	1.35506723	1.6490509253
## 1686	1.13761797	1.3054810968
## 1687	0.52048224	0.3304066387
## 1688	0.77904757	0.7389398595
## 1689	0.48884801	0.2804245629
## 1690	0.52795420	0.3422123335
## 1691	0.28708489	-0.0383611744
## 1692	0.51867610	0.3275529397
## 1693	0.87216010	0.8860576582
## 1694	0.30170796	-0.0152567252
## 1695	1.09507086	1.2382566544
## 1696	0.44558786	0.2120735194
## 1697	1.44942524	1.7981365797
## 1698	0.69605806	0.6078164441
## 1699	1.06256853	1.1869029752
## 1700	0.69660083	0.6086740179
## 1701	0.81563804	0.7967528029
## 1702	0.48697570	0.2774663164
## 1703	0.46906889	0.2491735526
## 1704	0.70891306	0.6281273415
## 1705	0.56443994	0.3998598010
## 1706	0.25941013	-0.0820872842
## 1707	0.68239825	0.5862339372
## 1708	0.92902774	0.9759085384
## 1709	1.25695572	1.4940347483
## 1710	0.45435976	0.2259331264
## 1711	0.46778170	0.2471397945
## 1712	0.46997251	0.2506012714
## 1713	0.68411963	0.5889537164
## 1714	0.70434662	0.6209123637
## 1715	1.04903071	1.1655132174
## 1716	0.79283739	0.7607277793
## 1717	0.63145103	0.5057373283
## 1718	0.53499151	0.3533312868
## 1719	0.66725084	0.5623010244
## 1720	0.61760894	0.4838668214

## 1721	0.54768897	0.3733932816
## 1722	0.84032925	0.8357649170
## 1723	0.59117343	0.4420987174
## 1724	1.36716374	1.6681634172
## 1725	0.74537554	0.6857380552
## 1726	0.68885149	0.5964300586
## 1727	0.42686338	0.1824888430
## 1728	0.47640773	0.2607689205
## 1729	0.70416207	0.6206207806
## 1730	0.38160634	0.1109827217
## 1731	0.50344239	0.3034836822
## 1732	0.50969350	0.3133604340
## 1733	1.09607226	1.2398388688
## 1734	0.38922565	0.1230212237
## 1735	0.39166999	0.1268832946
## 1736	0.82868350	0.8173646298
## 1737	0.27504707	-0.0573809322
## 1738	0.42178634	0.1744671169
## 1739	0.62929115	0.5023247138
## 1740	0.47511003	0.2587185491
## 1741	2.06703076	2.7739533109
## 1742	0.46228718	0.2384584492
## 1743	1.03295356	1.1401113246
## 1744	0.41787875	0.1682931328
## 1745	0.50375853	0.3039831872
## 1746	0.73854933	0.6749526519
## 1747	0.80681528	0.7828128419
## 1748	0.62455650	0.4948439801
## 1749	0.88612747	0.9081261109
## 1750	0.50926181	0.3126783670
## 1751	0.53135018	0.3475779855
## 1752	0.75198963	0.6961883162
## 1753	0.56689410	0.4037373889
## 1754	0.59577878	0.4493751706
## 1755	0.42922332	0.1862175566
## 1756	0.57091169	0.4100851740
## 1757	0.29154151	-0.0313197137
## 1758	0.48623035	0.2762886531
## 1759	0.67093176	0.5681168889
## 1760	0.69658441	0.6086480639
## 1761	0.48363224	0.2721836478
## 1762	0.50675121	0.3087116205
## 1763	0.79998468	0.7720204941
## 1764	0.34011580	0.0454276607
## 1765	0.73509045	0.6694876173
## 1766	1.27186498	1.5175913672
## 1767	0.59522668	0.4485028609
## 1768	0.62062579	0.4886334468
## 1769	0.78286953	0.7449785664
## 1770	1.38501332	1.6963657440
## 1771	0.71137947	0.6320242684
## 1772	0.58629406	0.4343893232
## 1773	0.66927894	0.5655054326
## 1774	0.78576745	0.7495572702

## 1775	0.63481561	0.5110533646
## 1776	1.31194745	1.5809216741
## 1777	0.30499853	-0.0100576131
## 1778	0.85162150	0.8536066759
## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
## 1784	0.51696206	0.3248447635
## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
## 1800	1.56355427	1.9784604502
## 1801	0.48287831	0.2709924398
## 1802	0.48102844	0.2680696350
## 1803	0.47372959	0.2565374490
## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
## 1808	0.53173109	0.3481798289
## 1809	0.55829285	0.3901474142
## 1810	0.55202444	0.3802433107
## 1811	0.45466418	0.2264141155
## 1812	0.73262174	0.6655870564
## 1813	0.45866930	0.2327421922
## 1814	1.00507042	1.0960559729
## 1815	0.56258853	0.3969345853
## 1816	1.08595175	1.2238484761
## 1817	0.47750938	0.2625095285
## 1818	0.78031136	0.7409366513
## 1819	0.88290178	0.9030295135
## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
## 1822	0.50753329	0.3099472951
## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571
## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758
## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186

## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999
## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
## 1842	0.70924514	0.6286520318
## 1843	0.68306940	0.5872943575
## 1844	0.36527721	0.0851826876
## 1845	0.72529162	0.6540054658
## 1846	0.31789123	0.0103128463
## 1847	0.93275774	0.9818019272
## 1848	0.42839373	0.1849067986
## 1849	0.26478152	-0.0736004911
## 1850	0.80667876	0.7825971386
## 1851	0.29234669	-0.0300475215
## 1852	0.87921131	0.8971985763
## 1853	0.71828512	0.6429351979
## 1854	0.34827055	0.0583121744
## 1855	0.58829881	0.4375568211
## 1856	0.67010139	0.5668048916
## 1857	0.55058873	0.3779748889
## 1858	0.55824557	0.3900727105
## 1859	0.39554888	0.1330119305
## 1860	0.97391433	1.0468293369
## 1861	0.85946053	0.8659923360
## 1862	0.58055985	0.4253292684
## 1863	0.53987832	0.3610524561
## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
## 1868	0.82783971	0.8160314387
## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
## 1872	0.59203556	0.4434608852
## 1873	1.13696744	1.3044532551
## 1874	0.51690971	0.3247620403
## 1875	0.35787909	0.0734936670
## 1876	0.62642039	0.4977889198
## 1877	0.90485939	0.9377225445
## 1878	0.54011916	0.3614329705
## 1879	0.24500598	-0.1048458411
## 1880	0.27680829	-0.0545982020
## 1881	0.59780823	0.4525817134
## 1882	0.32131601	0.0157240052

## 1883	0.33194804	0.0325226088
## 1884	0.50366457	0.3038347221
## 1885	0.44209088	0.2065482944
## 1886	0.68201057	0.5856214000
## 1887	0.50611987	0.3077140904
## 1888	0.66607314	0.5604402666
## 1889	1.08875214	1.2282730769
## 1890	0.50777878	0.3103351691
## 1891	0.59042451	0.4409154347
## 1892	0.64631389	0.5292206564
## 1893	0.62750473	0.4995021709
## 1894	0.38856081	0.1219707871
## 1895	0.40356357	0.1456751407
## 1896	0.68234318	0.5861469337
## 1897	0.28981596	-0.0340460734
## 1898	0.61507616	0.4798650424
## 1899	1.12051068	1.2784515741
## 1900	0.35377302	0.0670060798
## 1901	1.19154526	1.3906862070
## 1902	0.75911076	0.7074397051
## 1903	0.38049786	0.1092313259
## 1904	0.46120582	0.2367499000
## 1905	0.43079406	0.1886993155
## 1906	0.75553242	0.7017859319
## 1907	0.49740579	0.2939458591
## 1908	0.96580096	1.0340102195
## 1909	0.61706401	0.4830058353
## 1910	0.67076952	0.5678605383
## 1911	0.30294764	-0.0132980204
## 1912	0.73514090	0.6695673178
## 1913	0.36498133	0.0847152051
## 1914	0.62991395	0.5033087456
## 1915	0.93843107	0.9907657981
## 1916	0.73284839	0.6659451597
## 1917	0.30263953	-0.0137848438
## 1918	0.60210611	0.4593723537
## 1919	1.35313332	1.6459953559
## 1920	0.84876687	0.8490963568
## 1921	0.30782593	1.1627402003
## 1922	0.63852414	1.6852433713
## 1923	1.07345367	2.3724320325
## 1924	0.53721074	1.5251682097
## 1925	0.64535246	1.6960321293
## 1926	1.30700477	2.7414427730
## 1927	0.57266864	1.5811916857
## 1928	0.22867257	1.0376778929
## 1929	0.77798138	1.9055858190
## 1930	0.51445588	1.4892155330
## 1931	0.53125821	1.5157632106
## 1932	0.36042467	1.2458462083
## 1933	0.52579805	1.5071361534
## 1934	0.61551229	1.6488846463
## 1935	0.40602305	1.3178916551
## 1936	0.43688504	1.3666535959

## 1937	0.52267399	1.5022001372
## 1938	0.32972486	1.1973405088
## 1939	0.36892979	1.2592843044
## 1940	0.81388893	1.9623197381
## 1941	0.91157682	2.1166666148
## 1942	0.68355048	1.7563849990
## 1943	0.68513454	1.7588878036
## 1944	1.44148297	2.9539183247
## 1945	0.68070467	1.7518886159
## 1946	1.14451401	2.4847073750
## 1947	0.49523799	1.4588512573
## 1948	0.95557201	2.1861790153
## 1949	0.56458609	1.5684212566
## 1950	0.84334816	2.0088653281
## 1951	0.37082624	1.2622806994
## 1952	0.45481201	1.3949782065
## 1953	0.55360885	1.5510772204
## 1954	0.68912458	1.7651920635
## 1955	0.63800733	1.6844268171
## 1956	1.55474729	3.1328759546
## 1957	0.61446180	1.6472248741
## 1958	0.50570899	1.4753954456
## 1959	0.56872928	1.5749674998
## 1960	1.28249562	2.7027183143
## 1961	0.31437123	1.1730817792
## 1962	0.45527558	1.3957106495
## 1963	0.32548569	1.1906426295
## 1964	0.39348477	1.2980811643
## 1965	0.43979321	1.3712485021
## 1966	0.45644054	1.3975512937
## 1967	0.52627784	1.5078942292
## 1968	0.41550540	1.3328737683
## 1969	0.32927445	1.1966288703
## 1970	0.59661493	1.6190268182
## 1971	0.71779794	1.8104959785
## 1972	0.45842285	1.4006833438
## 1973	0.52508057	1.5060025301
## 1974	0.67095059	1.7364771607
## 1975	0.62906685	1.6703008542
## 1976	0.82598106	1.9814253104
## 1977	0.37757934	1.2729505920
## 1978	0.49977499	1.4660197178
## 1979	0.69346159	1.7720445436
## 1980	0.73933513	1.8445247382
## 1981	0.40445636	1.3154162830
## 1982	0.74721569	1.8569760211
## 1983	0.60488226	1.6320892117
## 1984	1.46969705	2.9984965707
## 1985	0.80538734	1.9488872357
## 1986	0.52577864	1.5071054848
## 1987	0.77359665	1.8986579466
## 1988	0.47110428	1.4207199909
## 1989	0.57453525	1.5841409331
## 1990	1.03744782	2.3155427858

##	1991	0.77008330	1.8931068531
##	1992	1.02969959	2.3033005822
##	1993	0.52149601	1.5003389279
##	1994	0.44314062	1.3765374082
##	1995	0.85042918	2.0200533422
##	1996	0.90931574	2.1130940983
##	1997	0.74392309	1.8517737160
##	1998	0.48276852	1.4391494898
##	1999	0.73102513	1.8313949344
##	2000	0.87087006	2.0523499273
##	2001	0.28062830	1.1197679529
##	2002	0.67830124	1.7480911909
##	2003	0.65062898	1.7043690196
##	2004	0.44326766	1.3767381413
##	2005	0.66583878	1.7284005068
##	2006	0.36771646	1.2573672373
##	2007	0.35197312	1.2324927615
##	2008	0.36620494	1.2549790456
##	2009	0.66940618	1.7340370038
##	2010	0.49923708	1.4651698144
##	2011	0.33135541	1.1999167821
##	2012	0.97549851	2.2176628839
##	2013	0.90649358	2.1086350969
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##	2015	0.98022217	2.2251262615
##	2016	0.43384544	1.3618510355
##	2017	0.92821244	2.1429508879
##	2018	0.50774665	1.4786149391
##	2019	0.44724253	1.3830184367
##	2020	0.68332058	1.7560217487
##	2021	0.63940307	1.6866320865
##	2022	0.50599887	1.4758534460
##	2023	0.46243806	1.4070273745
##	2024	0.73190451	1.8327843612
##	2025	0.76728520	1.8886858517
##	2026	0.98332961	2.2300360200
##	2027	0.42322218	1.3450662810
##	2028	0.74185974	1.8485136266
##	2029	1.37257088	2.8450372221
##	2030	0.60056308	1.6252648941
##	2031	0.55001924	1.5454056373
##	2032	0.64764911	1.6996608300
##	2033	0.69023599	1.7669481045
##	2034	0.37508879	1.2690155262
##	2035	0.60627327	1.6342869943
##	2036	0.46433290	1.4100212239
##	2037	0.70207034	1.7856463711
##	2038	0.39461906	1.2998733509
##	2039	0.74126388	1.8475721715
##	2040	0.53445410	1.5208127100
##	2041	0.48783826	1.4471596927
##	2042	0.60889770	1.6384335943
##	2043	0.42125008	1.3419503624
##	2044	0.65361283	1.7090835102

##	2045	0.76931191	1.8918880603
##	2046	0.40996580	1.3241211929
##	2047	0.30717193	1.1617068828
##	2048	0.74748617	1.8574033883
##	2049	0.64887007	1.7015899488
##	2050	0.61289322	1.6447465161
##	2051	0.54297556	1.5342766206
##	2052	0.61439473	1.6471189059
##	2053	1.67823198	3.3279817685
##	2054	0.81596289	1.9655965979
##	2055	0.74692807	1.8565215801
##	2056	0.83135017	1.9899085066
##	2057	0.58402391	1.5991330113
##	2058	0.48609908	1.4444117791
##	2059	0.86800500	2.0478231275
##	2060	0.52414938	1.5045312525
##	2061	1.06381443	2.3572020303
##	2062	0.48830577	1.4478983541
##	2063	1.28499148	2.7066617770
##	2064	0.45512819	1.3954777695
##	2065	0.72015297	1.8142169309
##	2066	0.68745236	1.7625499596
##	2067	0.24859935	1.0691622128
##	2068	0.70670311	1.7929661412
##	2069	0.95609361	2.1870031358
##	2070	0.38250101	1.2807268236
##	2071	0.67559651	1.7438177247
##	2072	0.59103348	1.6102081406
##	2073	1.70641044	3.3725037269
##	2074	1.05231861	2.3390386376
##	2075	0.44156629	1.3740499765
##	2076	0.73142795	1.8320313998
##	2077	1.22110425	2.6057199546
##	2078	0.35982648	1.2449010686
##	2079	1.14793837	2.4901178639
##	2080	0.59805848	1.6213076385
##	2081	0.63232108	1.6754425361
##	2082	0.50706982	1.4775455451
##	2083	0.49351041	1.4561216819
##	2084	0.86492695	2.0429598150
##	2085	1.17020240	2.5252950265
##	2086	0.46438838	1.4101088702
##	2087	0.66226389	1.7227521872
##	2088	0.50195980	1.4694717148
##	2089	1.17731699	2.5365360788
##	2090	0.89939937	2.0974262343
##	2091	0.93487479	2.1534774053
##	2092	0.72309163	1.8188600170
##	2093	0.63578386	1.6809137328
##	2094	0.28603826	1.1283156868
##	2095	0.52584834	1.5072156160
##	2096	0.36522701	1.2534339124
##	2097	1.00429388	2.2631595654
##	2098	0.95851137	2.1908232020

##	2099	0.89316700	2.0875791003
##	2100	0.39637162	1.3026423894
##	2101	0.34841614	1.2268727356
##	2102	0.69406023	1.7729903961
##	2103	1.49161792	3.0331315445
##	2104	0.65730225	1.7149127921
##	2105	0.87261372	2.0551049175
##	2106	0.62314378	1.6609424083
##	2107	0.35757808	1.2413485942
##	2108	0.46030743	1.4036609797
##	2109	0.50322188	1.4714658103
##	2110	0.40464564	1.3157153481
##	2111	0.39543316	1.3011596235
##	2112	0.44151635	1.3739710739
##	2113	0.50868484	1.4800972834
##	2114	0.68744639	1.7625405367
##	2115	0.32631095	1.1919465367
##	2116	0.70303579	1.7871717785
##	2117	0.46744613	1.4149401141
##	2118	1.12953449	2.4610397287
##	2119	0.99680815	2.2513321165
##	2120	0.65189591	1.7063707764
##	2121	0.40158740	1.3108833292
##	2122	0.76033173	1.8776993721
##	2123	1.03709434	2.3149842855
##	2124	0.40891988	1.3224686457
##	2125	0.47947718	1.4339491864
##	2126	1.03996563	2.3195209225
##	2127	0.56675057	1.5718411430
##	2128	0.81139031	1.9583719297
##	2129	1.02529413	2.2963399550
##	2130	0.56135938	1.5633230611
##	2131	0.59853830	1.6220657450
##	2132	0.53984949	1.5293374293
##	2133	0.59055880	1.6094581448
##	2134	0.70740762	1.7940792677
##	2135	0.71787120	1.8106117336
##	2136	0.30082811	1.1516836550
##	2137	0.89033460	2.0831038974
##	2138	0.43608832	1.3653947770
##	2139	0.70698606	1.7934132164
##	2140	0.61088768	1.6415777751
##	2141	0.48571855	1.4438105428
##	2142	0.71492073	1.8059499841
##	2143	0.44131235	1.3736487519
##	2144	0.67385894	1.7410723535
##	2145	0.67619848	1.7447688320
##	2146	0.61306734	1.6450216327
##	2147	0.48197273	1.4378921413
##	2148	0.69694211	1.7775437723
##	2149	1.21761798	2.6002116460
##	2150	0.35124942	1.2313493183
##	2151	0.59522192	1.6168258732
##	2152	0.67366104	1.7407596770

##	2153	0.85135245	2.0215120999
##	2154	1.08627434	2.3926886942
##	2155	0.73848891	1.8431877083
##	2156	0.36354523	1.2507767003
##	2157	1.34782686	2.8059416663
##	2158	0.36613376	1.2548665731
##	2159	0.35767478	1.2415013948
##	2160	0.43238797	1.3595482211
##	2161	0.51113104	1.1317600689
##	2162	1.29460325	2.3696461515
##	2163	0.46478566	1.0585343603
##	2164	0.46572391	1.0600167950
##	2165	1.41653356	2.5622960400
##	2166	0.69954032	1.4294467175
##	2167	0.47452153	1.0739170421
##	2168	0.93383789	1.7996368819
##	2169	0.88059708	1.7155164120
##	2170	0.44531623	1.0277726555
##	2171	0.47336452	1.0720889657
##	2172	0.59741696	1.2680918162
##	2173	1.44317421	2.6043882769
##	2174	1.76789091	3.1174406547
##	2175	0.76060653	1.5259313309
##	2176	0.34292147	0.8659889464
##	2177	1.16097412	2.1585121288
##	2178	1.21525600	2.2442775050
##	2179	0.99459107	1.8956269132
##	2180	0.57409476	1.2312427324
##	2181	0.45894462	1.0493055169
##	2182	0.64489755	1.3431111440
##	2183	0.51479930	1.1375559088
##	2184	0.96415363	1.8475357605
##	2185	0.58958347	1.2557148976
##	2186	1.12237943	2.0975325210
##	2187	0.62348167	1.3092740521
##	2188	0.97878362	1.8706511403
##	2189	0.54383621	1.1834342242
##	2190	0.71642169	1.4561192836
##	2191	0.61239702	1.2917603126
##	2192	0.35485798	0.8848486200
##	2193	0.86987281	1.6985720594
##	2194	0.72801963	1.4744440332
##	2195	1.48779274	2.6748855531
##	2196	0.32778072	0.8420665572
##	2197	0.63407284	1.3260081006
##	2198	0.55097602	1.1947151217
##	2199	0.58601955	1.2500839052
##	2200	0.48311966	1.0875020793
##	2201	0.47872185	1.0805535351
##	2202	0.37935092	0.9235474781
##	2203	0.49702896	1.1094787753
##	2204	0.46078093	1.0522068796
##	2205	0.42327813	0.9929524675
##	2206	0.39502285	0.9483091280

##	2207	0.46930552	1.0656757416
##	2208	0.46886769	1.0649839691
##	2209	0.99669396	1.8989494704
##	2210	0.68087598	1.3999570716
##	2211	0.35111408	0.8789332682
##	2212	0.65824440	1.3641991646
##	2213	0.62657213	1.3141569903
##	2214	0.89376333	1.7363190795
##	2215	0.56331691	1.2142137322
##	2216	0.77369090	1.5466046330
##	2217	0.57988776	1.2403956779
##	2218	0.42703071	0.9988815381
##	2219	0.86800454	1.6956201931
##	2220	0.36666248	0.9034997316
##	2221	0.57767116	1.2368934515
##	2222	0.63859249	1.3331491544
##	2223	0.47432287	1.0736031519
##	2224	0.64579547	1.3445298594
##	2225	0.56790219	1.2214584848
##	2226	0.84601927	1.6608834610
##	2227	0.45947636	1.0501456641
##	2228	0.85883700	1.6811354799
##	2229	0.73058357	1.4784950523
##	2230	0.43028795	1.0040279758
##	2231	0.60466271	1.2795401054
##	2232	1.58304403	2.8253825836
##	2233	0.68872859	1.4123641871
##	2234	0.42529251	0.9961351875
##	2235	0.61831450	1.3011099258
##	2236	0.87425093	1.7054894907
##	2237	0.75014576	1.5094033208
##	2238	0.34360008	0.8670611512
##	2239	0.37939040	0.9236098501
##	2240	0.36459487	0.9002329170
##	2241	0.45998871	1.0509551726
##	2242	0.53095586	1.1630832807
##	2243	0.43771161	1.0157573671
##	2244	0.75871221	1.5229383117
##	2245	0.32129174	0.8318139596
##	2246	0.70841275	1.4434651636
##	2247	1.20071035	2.2212953701
##	2248	0.90345924	1.7516386128
##	2249	0.85966260	1.6824399293
##	2250	0.39653523	0.9506986779
##	2251	0.52218128	1.1492194368
##	2252	0.60330406	1.2773934314
##	2253	0.83007204	1.6356868416
##	2254	1.18709335	2.1997805060
##	2255	0.50941956	1.1290559195
##	2256	0.47770736	1.0789506479
##	2257	0.47414117	1.0733160602
##	2258	0.36859483	0.9065528478
##	2259	0.76225748	1.5285398434
##	2260	0.99324759	1.8935042140

##	2261	0.49136307	1.1005266732
##	2262	0.34753505	0.8732784029
##	2263	0.94142254	1.8116206315
##	2264	0.48138647	1.0847636446
##	2265	0.35397128	0.8834476351
##	2266	0.81594704	1.6133693411
##	2267	0.82568130	1.6287494656
##	2268	0.50528512	1.1225235116
##	2269	0.69726993	1.4258595108
##	2270	0.61045203	1.2886872322
##	2271	1.34499585	2.4492664611
##	2272	0.81592824	1.6133396372
##	2273	0.34443455	0.8683795999
##	2274	1.04238249	1.9711373470
##	2275	0.81920293	1.6185136529
##	2276	0.32716598	0.8410952665
##	2277	0.57596227	1.2341933995
##	2278	1.57783560	2.8171532695
##	2279	0.88015315	1.7148149983
##	2280	0.36571111	0.9019965765
##	2281	0.58344323	1.2460133141
##	2282	0.49966408	1.1136422717
##	2283	0.77560407	1.5496274506
##	2284	0.52302631	1.1505545859
##	2285	0.98666449	1.8831029087
##	2286	0.70307398	1.4350299141
##	2287	0.84252365	1.6553603862
##	2288	0.46161176	1.0535195929
##	2289	0.62522562	1.3120294997
##	2290	0.71990803	1.4616277050
##	2291	0.50085443	1.1155230195
##	2292	0.74940230	1.5082286529
##	2293	0.71133176	1.4480771968
##	2294	0.73564198	1.4864873386
##	2295	0.59670577	1.2669681272
##	2296	1.02352128	1.9413366371
##	2297	0.53091347	1.1630163082
##	2298	0.77630110	1.5507287604
##	2299	0.69337833	1.4197107828
##	2300	0.46176998	1.0537695937
##	2301	0.70533758	1.4386063932
##	2302	0.54713841	1.1886517056
##	2303	0.38570986	0.9335946043
##	2304	0.48811677	1.0953975168
##	2305	0.47276286	1.0711383433
##	2306	0.29418468	0.7889848115
##	2307	0.55702995	1.2042803384
##	2308	0.51967827	1.1452646848
##	2309	0.68320346	1.4036344904
##	2310	0.39318759	0.9454094022
##	2311	0.52736269	1.1574060628
##	2312	0.31147650	0.8163058818
##	2313	1.25934941	2.3139450822
##	2314	0.38659311	0.9349901324

##	2315	0.85446617	1.6742295687
##	2316	0.54134898	1.1795044102
##	2317	0.83250087	1.6395243975
##	2318	0.51913193	1.1444014661
##	2319	0.53545460	1.1701912847
##	2320	0.38833957	0.9377495448
##	2321	0.44479395	1.0269474609
##	2322	1.37090070	2.4901961316
##	2323	0.37671428	0.9193815817
##	2324	0.39447399	0.9474419167
##	2325	0.50812493	1.1270104141
##	2326	0.26929184	0.7496541304
##	2327	0.94745842	1.8211573147
##	2328	0.35076243	0.8783776626
##	2329	0.96972001	1.8563306302
##	2330	0.49111991	1.1001424728
##	2331	0.66498583	1.3748506322
##	2332	0.68160095	1.4011025246
##	2333	0.90363438	1.7519153353
##	2334	0.38100761	0.9261650355
##	2335	0.44226877	1.0229576796
##	2336	0.68790750	1.4110668644
##	2337	0.76251300	1.5289435508
##	2338	0.56173151	1.2117088007
##	2339	0.68342760	1.4039886232
##	2340	0.42605789	0.9973444885
##	2341	0.60999110	1.2879589554
##	2342	0.38795623	0.9371438638
##	2343	0.65605344	1.3607374523
##	2344	0.77439127	1.5477112239
##	2345	1.54229537	2.7609996963
##	2346	0.43063869	1.0045821427
##	2347	0.50287321	1.1187126919
##	2348	0.74344180	1.4988110573
##	2349	0.95926289	1.8398083842
##	2350	0.53905784	1.1758844094
##	2351	0.54828892	1.1904695129
##	2352	0.81254524	1.6079944994
##	2353	0.65222390	1.3546867771
##	2354	1.75209258	3.0924792879
##	2355	0.65880550	1.3650857123
##	2356	0.91471391	1.7694209912
##	2357	0.43358630	1.0092393781
##	2358	0.41904798	0.9862688257
##	2359	1.06944411	2.0138947107
##	2360	0.96760291	1.8529856114
##	2361	0.69280432	1.4188038391
##	2362	0.24982157	0.7188910986
##	2363	0.44651618	1.0296685884
##	2364	1.58273662	2.8248968778
##	2365	0.42477553	0.9953183551
##	2366	1.71466717	3.0333471427
##	2367	0.55323033	1.1982769388
##	2368	0.85508330	1.6752046296

```
## 2369 0.58643240 1.2507362176
## 2370 0.69534042 1.4228108788
## 2371 0.40571530 0.9652031977
## 2372 0.46493841 1.0587757135
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2376 0.40741388 0.9678869468
## 2377 0.60362077 1.2778938308
## 2378 0.45727287 1.0466641549
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2386 0.51207894 1.1332577481
## 2387 0.70842425 1.4434833366
## 2388 0.51839542 1.1432377805
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2396 0.64153963 1.3378056272
## 2397 0.31027572 0.8144086632
## 2398 0.75388818 1.5153163433
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
```

```
# -----
#                               Tasks
# -----
# Task: get the column names of the new dataset
# Task: get the rownames of the new dataset
# Task: get the head (first few rows) of the new dataset

# Let's look at each column and row a bit more
# We have constructed the data into a data frame, which you can think of as being very similar to an ex
# We can look at the whole dataset by typing the following in the console:
data
```

```
##      X subj_no age group stim trial difficulty resp corr conf
## 1      1      10  23      2    2         1         2    1    0    2
## 2      2      10  36      2    1         2         3    2    0    1
## 3      3      10  38      2    2         3         2    2    1    4
## 4      4      10  25      2    2         4         1    1    0    3
## 5      5      10  20      2    1         5         2    1    1    4
## 6      6      10  40      2    1         6         1    1    1    5
## 7      7      10  23      2    2         7         3    1    0    2
## 8      8      10  20      2    2         8         1    1    0    4
```

## 9	9	10 40	2 2	9	3 1 0 1
## 10	10	10 23	2 2	10	1 1 0 4
## 11	11	10 23	2 1	11	1 1 1 5
## 12	12	10 36	2 1	12	2 2 0 2
## 13	13	10 38	2 2	13	3 1 0 1
## 14	14	10 25	2 2	14	2 2 1 3
## 15	15	10 20	2 1	15	2 2 0 3
## 16	16	10 40	2 1	16	2 1 1 4
## 17	17	10 23	2 1	17	1 1 1 4
## 18	18	10 20	2 2	18	1 2 1 5
## 19	19	10 40	2 1	19	1 1 1 4
## 20	20	10 23	2 1	20	1 2 0 4
## 21	21	10 23	2 2	21	3 2 1 3
## 22	22	10 36	2 1	22	1 1 1 5
## 23	23	10 38	2 2	23	1 2 1 4
## 24	24	10 25	2 2	24	3 2 1 2
## 25	25	10 20	2 1	25	2 2 0 3
## 26	26	10 40	2 1	26	2 1 1 4
## 27	27	10 23	2 1	27	3 2 0 2
## 28	28	10 20	2 1	28	1 1 1 5
## 29	29	10 40	2 1	29	2 2 0 2
## 30	30	10 23	2 1	30	2 1 1 3
## 31	31	10 23	2 1	31	1 1 1 5
## 32	32	10 36	2 2	32	1 1 0 4
## 33	33	10 38	2 1	33	1 1 1 4
## 34	34	10 25	2 1	34	1 1 1 5
## 35	35	10 20	2 2	35	1 2 1 5
## 36	36	10 40	2 2	36	2 2 1 4
## 37	37	10 23	2 1	37	1 1 1 4
## 38	38	10 20	2 2	38	3 1 0 1
## 39	39	10 40	2 1	39	1 1 1 4
## 40	40	10 23	2 1	40	1 1 1 5
## 41	41	10 23	2 1	41	1 2 0 4
## 42	42	10 36	2 2	42	3 2 1 3
## 43	43	10 38	2 1	43	2 2 0 2
## 44	44	10 25	2 2	44	1 1 0 4
## 45	45	10 20	2 2	45	3 1 0 1
## 46	46	10 40	2 2	46	3 2 1 2
## 47	47	10 23	2 1	47	3 2 0 1
## 48	48	10 20	2 2	48	3 1 0 1
## 49	49	10 40	2 1	49	3 1 1 2
## 50	50	10 23	2 2	50	2 1 0 2
## 51	51	10 23	2 2	51	3 2 1 2
## 52	52	10 36	2 1	52	2 1 1 4
## 53	53	10 38	2 2	53	2 1 0 2
## 54	54	10 25	2 2	54	1 2 1 5
## 55	55	10 20	2 2	55	2 2 1 4
## 56	56	10 40	2 1	56	2 2 0 3
## 57	57	10 23	2 1	57	1 1 1 5
## 58	58	10 20	2 1	58	2 1 1 4
## 59	59	10 40	2 1	59	3 2 0 1
## 60	60	10 23	2 1	60	3 2 0 2
## 61	61	10 23	2 1	61	1 1 1 4
## 62	62	10 36	2 2	62	3 1 0 2

## 63	63	10	38	2	1	63	2	2	0	3
## 64	64	10	25	2	2	64	2	1	0	3
## 65	65	10	20	2	2	65	3	2	1	2
## 66	66	10	40	2	2	66	2	2	1	3
## 67	67	10	23	2	2	67	2	2	1	4
## 68	68	10	20	2	1	68	3	2	0	1
## 69	69	10	40	2	1	69	3	1	1	2
## 70	70	10	23	2	1	70	1	1	1	4
## 71	71	10	23	2	2	71	1	2	1	5
## 72	72	10	36	2	1	72	3	1	1	3
## 73	73	10	38	2	2	73	2	1	0	3
## 74	74	10	25	2	2	74	2	2	1	3
## 75	75	10	20	2	1	75	1	1	1	4
## 76	76	10	40	2	1	76	2	2	0	3
## 77	77	10	23	2	2	77	1	2	1	5
## 78	78	10	20	2	2	78	1	1	0	3
## 79	79	10	40	2	1	79	3	2	0	2
## 80	80	10	23	2	1	80	2	2	0	2
## 81	81	10	23	2	1	81	2	2	0	3
## 82	82	10	36	2	2	82	2	2	1	4
## 83	83	10	38	2	2	83	3	2	1	3
## 84	84	10	25	2	2	84	2	2	1	4
## 85	85	10	20	2	1	85	3	2	0	2
## 86	86	10	40	2	2	86	2	1	0	2
## 87	87	10	23	2	2	87	2	1	0	3
## 88	88	10	20	2	1	88	1	1	1	4
## 89	89	10	40	2	1	89	2	1	1	3
## 90	90	10	23	2	1	90	1	1	1	4
## 91	91	10	23	2	1	91	1	1	1	4
## 92	92	10	36	2	2	92	1	2	1	5
## 93	93	10	38	2	1	93	1	1	1	5
## 94	94	10	25	2	1	94	3	2	0	2
## 95	95	10	20	2	1	95	1	1	1	4
## 96	96	10	40	2	1	96	1	2	0	3
## 97	97	10	23	2	2	97	2	1	0	3
## 98	98	10	20	2	1	98	3	1	1	3
## 99	99	10	40	2	1	99	1	1	1	4
## 100	100	10	23	2	2	100	1	2	1	5
## 101	101	10	23	2	2	101	1	2	1	5
## 102	102	10	36	2	2	102	1	2	1	4
## 103	103	10	38	2	2	103	1	1	0	4
## 104	104	10	25	2	1	104	1	1	1	5
## 105	105	10	20	2	1	105	1	1	1	5
## 106	106	10	40	2	1	106	1	1	1	5
## 107	107	10	23	2	1	107	2	1	1	4
## 108	108	10	20	2	2	108	1	2	1	5
## 109	109	10	40	2	1	109	3	2	0	1
## 110	110	10	23	2	1	110	2	1	1	3
## 111	111	10	23	2	2	111	2	1	0	3
## 112	112	10	36	2	1	112	3	1	1	3
## 113	113	10	38	2	2	113	3	2	1	2
## 114	114	10	25	2	1	114	2	2	0	2
## 115	115	10	20	2	1	115	3	2	0	1
## 116	116	10	40	2	2	116	3	1	0	1

## 117	117	10	23	2	2	117	2	1	0	2
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## 787	787	7	30	1	1	67	3	1	1	2
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## 789	789	7	34	1	1	69	1	1	1	5
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## 800	800	7	38	1	1	80	2	1	1	3
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## 812	812	7	21	1	1	92	3	1	1	3
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## 815	815	7	22	1	2	95	1	2	1	5
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## 888	888	7	23	1	1	168	3	2	0	1
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## 1762 1762	3	26	1	2	82	1	1	0	3
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## 1764 1764	3	28	1	2	84	1	2	1	4
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## 1794 1794	3	28	1	1	114	3	1	1	3
## 1795 1795	3	36	1	2	115	1	2	1	4
## 1796 1796	3	30	1	1	116	1	2	0	3
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## 1827 1827	3	34	1	1	147	3	1	1	2
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## 1860 1860	3	36	1	1	180	3	2	0	2
## 1861 1861	3	32	1	1	181	3	2	0	1
## 1862 1862	3	26	1	2	182	3	2	1	2
## 1863 1863	3	23	1	1	183	3	1	1	2
## 1864 1864	3	28	1	2	184	3	2	1	2
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## 1866 1866	3	30	1	2	186	2	2	1	4
## 1867 1867	3	34	1	2	187	1	2	1	5
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## 1880 1880	3	36	1	1	200	1	1	1	4
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## 1886 1886	3	30	1	1	206	2	1	1	4
## 1887 1887	3	34	1	1	207	1	2	0	4
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## 1894 1894	3	28	1	2	214	1	2	1	4
## 1895 1895	3	36	1	2	215	2	1	0	2
## 1896 1896	3	30	1	2	216	2	1	0	3
## 1897 1897	3	34	1	1	217	1	1	1	5
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## 1899 1899	3	36	1	2	219	3	2	1	2
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## 1901 1901	3	32	1	1	221	3	2	0	1
## 1902 1902	3	26	1	2	222	3	2	1	3
## 1903 1903	3	23	1	2	223	3	1	0	1
## 1904 1904	3	28	1	2	224	1	2	1	5
## 1905 1905	3	36	1	2	225	3	1	0	2
## 1906 1906	3	30	1	1	226	3	1	1	2
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## 1908 1908	3	25	1	2	228	3	2	1	2
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## 1911 1911	3	32	1	1	231	1	1	1	4
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## 1915 1915	3	36	1	2	235	3	1	0	1
## 1916 1916	3	30	1	2	236	1	1	0	3
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## 1921 1921	2	29	2	2	1	1	2	1	4
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## 1926 1926	2	19	2	1	6	3	1	1	3
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## 1928 1928	2	30	2	1	8	3	2	0	1
## 1929 1929	2	36	2	2	9	2	2	1	4
## 1930 1930	2	24	2	2	10	2	2	1	4
## 1931 1931	2	29	2	2	11	2	2	1	4
## 1932 1932	2	30	2	2	12	1	2	1	5
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## 1936 1936	2	19	2	2	16	1	2	1	5
## 1937 1937	2	18	2	1	17	3	1	1	3
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## 1939 1939	2	36	2	2	19	1	2	1	5
## 1940 1940	2	24	2	2	20	2	2	1	4
## 1941 1941	2	29	2	2	21	3	1	0	1
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## 1946 1946	2	19	2	2	26	3	1	0	2
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## 1954 1954	2	31	2	2	34	3	2	1	2
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## 1974 1974	2	31	2	1	54	3	2	0	1
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##	2007	2007	2	18	2	2	87	1	2	1	5
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##	2088	2088	2	30	2	1	168	1	1	1	5
##	2089	2089	2	36	2	2	169	3	1	0	1
##	2090	2090	2	24	2	2	170	3	2	1	2
##	2091	2091	2	29	2	2	171	3	2	1	3
##	2092	2092	2	30	2	1	172	2	2	0	3
##	2093	2093	2	23	2	2	173	2	2	1	4
##	2094	2094	2	31	2	2	174	1	2	1	5
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##	2097	2097	2	18	2	2	177	3	2	1	3
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##	2100	2100	2	24	2	1	180	1	1	1	4
##	2101	2101	2	29	2	2	181	1	2	1	5
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##	2106	2106	2	19	2	2	186	1	2	1	4
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##	2110	2110	2	24	2	2	190	1	2	1	5
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##	2112	2112	2	30	2	1	192	1	1	1	4
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##	2120	2120	2	24	2	2	200	2	2	1	4
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##	2161	2161	1	21	1	2	1	1	2	1	4
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##	2164	2164	1	24	1	1	4	1	1	1	5
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##	2166	2166	1	18	1	1	6	3	1	1	2
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## 2176 2176	1	18	1	1	16	1	1	1	4
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## 2180 2180	1	30	1	1	20	2	1	1	4
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## 2198 2198	1	20	1	2	38	3	2	1	3
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## 2219 2219	1	24	1	2	59	3	2	1	2
## 2220 2220	1	30	1	2	60	1	2	1	5
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##	2247	2247	1	30	1	1	87	3	1	1	3
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##	2250	2250	1	30	1	1	90	2	1	1	3
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## 2280 2280	1	30	1	2	120	1	2	1	4
## 2281 2281	1	21	1	1	121	2	2	0	2
## 2282 2282	1	27	1	2	122	1	2	1	4
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##	2395	2395	1	28	1	1	235	1	1	1	5
##	2396	2396	1	18	1	2	236	2	2	1	4
##	2397	2397	1	30	1	1	237	1	1	1	5
##	2398	2398	1	20	1	2	238	3	2	1	3
##	2399	2399	1	24	1	1	239	3	1	1	2
##	2400	2400	1	30	1	1	240	2	2	0	2
##		RT_day1				RT_day2					
##	1	0.60761494				1.5589454195					
##	2	0.70900369				1.7191396404					
##	3	0.62320134				1.5835719316					
##	4	0.68807593				1.6860737827					
##	5	0.72964798				1.7517576138					
##	6	0.40986839				1.2465058600					
##	7	0.73163809				1.7549019885					
##	8	0.44395248				1.3003587212					
##	9	1.34663842				2.7266025145					
##	10	0.56936275				1.4985069465					
##	11	0.34670307				1.1467046633					
##	12	0.74287703				1.7726595103					
##	13	0.99696099				2.1741121766					
##	14	0.64211892				1.6134617047					
##	15	0.84022110				1.9264631512					
##	16	0.59109391				1.5328421846					
##	17	0.61122270				1.5646456801					
##	18	0.48189435				1.3603068900					
##	19	0.38717101				1.2106439993					
##	20	0.62645332				1.5887100617					
##	21	0.32772079				1.1167126619					
##	22	0.45575074				1.3189999772					
##	23	0.40837268				1.2441426473					
##	24	0.57411528				1.5060159553					
##	25	1.01032222				2.1952229145					
##	26	0.66428165				1.6484788125					
##	27	0.36358039				1.1733708290					
##	28	0.56185333				1.4866420726					
##	29	0.73812986				1.7651589875					
##	30	0.76446834				1.8067737785					
##	31	0.35769718				1.1640753480					
##	32	0.61056975				1.5636140085					
##	33	0.32598242				1.1139660340					
##	34	0.40429136				1.2376941601					
##	35	0.40053839				1.2317644636					
##	36	0.34524324				1.1443981325					
##	37	0.40056035				1.2317991609					

## 38	1.14269255	2.4043680431
## 39	0.34943628	1.1510231246
## 40	0.32363422	1.1102558802
## 41	0.47646070	1.3517217134
## 42	0.50021394	1.3892518344
## 43	0.68535150	1.6817691861
## 44	0.59257262	1.5351785431
## 45	0.59787724	1.5435598465
## 46	0.90805273	2.0336371205
## 47	0.64412268	1.6166276401
## 48	0.33405567	1.1267217714
## 49	0.62489066	1.5862410517
## 50	0.55690563	1.4788247098
## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 55	0.70445473	1.7119522773
## 56	0.69476067	1.6966356732
## 57	0.44563960	1.3030243721
## 58	0.74958963	1.7832654260
## 59	0.56853460	1.4971984736
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 65	0.67851650	1.6709698735
## 66	0.63499179	1.6022008426
## 67	0.55528581	1.4762653837
## 68	1.27402864	2.6118790652
## 69	0.21931196	0.9454267056
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 75	0.44734902	1.3057252614
## 76	0.49218507	1.3765662157
## 77	0.38395864	1.2055684670
## 78	0.58785392	1.5277230068
## 79	0.94625190	2.0939918136
## 80	0.74990464	1.7837631469
## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045
## 85	1.91458043	3.6239508813
## 86	0.55373794	1.4738197472
## 87	0.54724735	1.4635646178
## 88	0.31761021	1.1007379391
## 89	0.54030159	1.4525903197
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433

## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 95	0.41203240	1.2499249988
## 96	0.66632349	1.6517049250
## 97	0.79565802	1.8560534858
## 98	0.60857171	1.5604571033
## 99	0.47376829	1.3474677028
## 100	0.47998040	1.3572828435
## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080
## 105	0.29301375	1.0618755413
## 106	0.58250290	1.5192683946
## 107	0.53437471	1.4432258539
## 108	0.33606437	1.1298955090
## 109	1.29100895	2.6387079516
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 115	1.35553840	2.7406644844
## 116	1.29315232	2.6420944788
## 117	0.19309507	0.9040040253
## 118	0.60223445	1.5504442452
## 119	0.22209087	0.9498173838
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 125	0.69021981	1.6894611111
## 126	0.48973040	1.3726878471
## 127	0.74215682	1.7715215808
## 128	1.11807141	2.3654666384
## 129	0.63570711	1.6033310400
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 135	0.47280888	1.3459518399
## 136	0.72299283	1.7412424831
## 137	0.84721448	1.9375126879
## 138	0.71565088	1.7296421929
## 139	0.48778778	1.3696184980
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 145	0.75924730	1.7985245428

## 146	0.91092679	2.0381781374
## 147	0.40768154	1.2430506427
## 148	0.51028754	1.4051681183
## 149	1.09781942	2.3334684967
## 150	0.55291409	1.4725180652
## 151	1.01542119	2.2032792939
## 152	0.66699475	1.6527655116
## 153	0.45711318	1.3211526307
## 154	1.03947212	2.2412797648
## 155	0.92757503	2.0644823495
## 156	1.87401850	3.5598630368
## 157	0.47707108	1.3526861221
## 158	0.91417040	2.0433030366
## 159	1.18868301	2.4770329686
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 165	0.68404229	1.6797006286
## 166	0.33918117	1.1348200589
## 167	0.53567646	1.4452826108
## 168	0.37604605	1.1930665758
## 169	0.80690257	1.8738198642
## 170	0.85511292	1.9499922220
## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 175	0.72894961	1.7506541939
## 176	0.62019085	1.5788153482
## 177	0.63930468	1.6090152036
## 178	0.46757027	1.3376748348
## 179	0.42629950	1.2724670159
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 185	0.94151579	2.0865087534
## 186	0.83289322	1.9148851046
## 187	0.66725426	1.6531755364
## 188	0.30143931	1.0751879183
## 189	0.84816082	1.9390079004
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 195	0.77474604	1.8230125557
## 196	1.28726758	2.6327965891
## 197	0.90481953	2.0285286646
## 198	0.81646739	1.8889322839
## 199	0.44550921	1.3028183539

## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 205	0.85822203	1.9549046222
## 206	0.70337238	1.7102421634
## 207	0.54769292	1.4642686170
## 208	0.57035566	1.5000757471
## 209	0.70635349	1.7149523227
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201
## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 215	0.91020537	2.0370382974
## 216	0.42990794	1.2781683576
## 217	0.72365007	1.7422809188
## 218	0.80243081	1.8667544966
## 219	0.52390364	1.4266815530
## 220	0.46708691	1.3369111306
## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 225	0.69918014	1.7036184284
## 226	0.41653834	1.2570443897
## 227	0.41718838	1.2580714571
## 228	0.52946066	1.4354616561
## 229	0.99303853	2.1679146815
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 235	0.61357056	1.5683552905
## 236	1.36973695	2.7630981940
## 237	0.52499017	1.4283982844
## 238	0.82997084	1.9102677321
## 239	0.61075838	1.5639120457
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931
## 253	0.78974393	1.4539676649

## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381
## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
## 265	0.76448938	1.4140654815
## 266	0.42322889	0.8748739073
## 267	0.74778884	1.3876786268
## 268	0.44315970	0.9063645847
## 269	0.82237355	1.5055224702
## 270	0.58070863	1.1236918901
## 271	0.64835767	1.2305773796
## 272	0.36430260	0.7817703597
## 273	0.31517256	0.7041448999
## 274	0.60539987	1.1627040453
## 275	0.65769737	1.2453340954
## 276	0.79343030	1.4597921260
## 277	0.68013169	1.2807803186
## 278	1.00679175	1.7969032153
## 279	1.52565198	2.6167023873
## 280	0.42452874	0.8769276640
## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
## 284	0.42436780	0.8766733852
## 285	0.59520731	1.1465998065
## 286	1.12367626	1.9815807409
## 287	0.50413538	1.0027061525
## 288	0.72268776	1.3480189157
## 289	0.60595022	1.1635735937
## 290	0.67219248	1.2682363647
## 291	0.45708081	0.9283599332
## 292	0.87842594	1.5940852381
## 293	0.56262020	1.0951121699
## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
## 297	0.45492038	0.9249464617
## 298	0.68032951	1.2810928728
## 299	0.47450257	0.9558863204
## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078
## 307	0.49275413	0.9847237780

## 308	0.53640915	1.0536987070
## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
## 314	0.94515695	1.6995202396
## 315	0.37260027	0.7948806855
## 316	0.73481533	1.3671804825
## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
## 320	0.64711752	1.2286179340
## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
## 326	0.76142983	1.4092313827
## 327	0.92105407	1.6614376821
## 328	1.10139356	1.9463740794
## 329	0.28982203	0.6640910630
## 330	0.46610706	0.9426214159
## 331	0.37185904	0.7937095342
## 332	0.37653795	0.8011022093
## 333	1.05002795	1.8652164154
## 334	0.68007611	1.2806925047
## 335	0.61581929	1.1791667326
## 336	0.57703146	1.1178819533
## 337	0.45378298	0.9231493657
## 338	0.34148302	0.7457154225
## 339	1.38830866	2.3996999422
## 340	1.00671690	1.7967849604
## 341	0.37045785	0.7914956549
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## 343	0.59039530	1.1389968245
## 344	0.44991128	0.9170320737
## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903
## 361	0.64999740	1.2331681388

## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
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## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564
## 371	0.57029967	1.1072457309
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## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504
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## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
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## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765
## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329
## 415	1.02365143	1.8235415129

## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392
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## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954
## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
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## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299
## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534
## 469	0.38331819	0.8118149983

## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712
## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449
## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 487	0.58628292	0.7280571582
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 490	1.90348342	2.8092339498
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813
## 496	0.50552613	0.6004614286
## 497	0.60919450	0.7642574655
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 500	0.34392259	0.3451278347
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 507	1.01819048	1.4104711088
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 510	0.35609971	0.3643676853
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 517	0.61831502	0.7786678831
## 518	0.42033311	0.4658564623
## 519	1.37346337	1.9718022652
## 520	0.46736755	0.5401708827
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455

## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 527	0.53822021	0.6521180843
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 530	0.66261779	0.8486662597
## 531	0.53798149	0.6517408997
## 532	0.41767299	0.4616534736
## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
## 535	0.56171487	0.6892396385
## 536	0.61326604	0.7706904948
## 537	0.94027082	1.2873580369
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 540	0.47593981	0.5537150425
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 547	0.49090845	0.5773655064
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 550	0.70937442	0.9225417324
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891
## 556	0.70905772	0.9220413487
## 557	1.22170141	1.7320183711
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 560	0.46850458	0.5419673876
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
## 566	0.61692060	0.7764647030
## 567	0.50310230	0.5966317769
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 570	0.50025695	0.5921361353
## 571	0.40108908	0.4354508987
## 572	0.43565687	0.4900679986
## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 577	0.82701210	1.1084092618

## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 580	0.40090210	0.4351554685
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
## 586	1.35330739	1.9399558302
## 587	1.16115892	1.6363612425
## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
## 590	0.41261921	0.4536684997
## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
## 594	0.55557150	0.6795331136
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## 596	0.63806618	0.8098747128
## 597	0.49750604	0.5877896872
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648
## 600	0.31570164	0.3005387357
## 601	0.39402241	0.4242855579
## 602	1.17392462	1.6565310448
## 603	0.52353456	0.6289147532
## 604	0.86091730	1.1619794877
## 605	0.41106882	0.4512188764
## 606	0.88780250	1.2044581047
## 607	1.02433982	1.4201870604
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 610	0.28706576	0.2552940476
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332
## 616	0.34781451	0.3512770694
## 617	0.51439983	0.6144818785
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
## 620	0.24585816	0.1901860328
## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
## 625	0.77875902	1.0321694049
## 626	0.94832174	1.3000784971
## 627	0.63177708	0.7999379357
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## 629	0.35787457	0.3671719642
## 630	0.65287127	0.8332667572
## 631	0.88718994	1.2034902579

## 632	0.37893029	0.4004400118
## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
## 636	0.55246788	0.6746294045
## 637	0.50383804	0.5977942564
## 638	0.60018745	0.7500263124
## 639	0.74792839	0.9834569968
## 640	0.75140311	0.9889470549
## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639
## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 647	1.28472747	1.8315995449
## 648	1.03623818	1.4389864676
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## 650	0.39033931	0.4184662541
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## 655	0.62377497	0.7872945959
## 656	0.73737962	0.9667899470
## 657	0.90119076	1.2256115454
## 658	0.79651735	1.0602275594
## 659	0.36076479	0.3717385141
## 660	0.64633610	0.8229411864
## 661	0.76626481	1.0124285530
## 662	0.45244342	0.5165907506
## 663	0.82950338	1.1123454855
## 664	0.72642366	0.9494795307
## 665	0.38029194	0.4025914070
## 666	0.53655948	0.6494941225
## 667	0.74107884	0.9726347129
## 668	0.69899227	0.9061379329
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## 672	0.58420266	0.7247703507
## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
## 675	0.89945450	1.2228682612
## 676	0.58373866	0.7240372292
## 677	0.45773403	0.5249499202
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
## 680	0.95894313	1.3168603011
## 681	0.26265128	0.2167191769
## 682	0.58468404	0.7255309236
## 683	0.74901761	0.9851779663
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## 686	0.43417486	0.4877264298
## 687	0.42649800	0.4755969911
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## 690	0.49605445	0.5854961778
## 691	0.48915311	0.5745920544
## 692	0.44367120	0.5027306430
## 693	0.64684720	0.8237487286
## 694	0.31034486	0.2920750300
## 695	0.35008575	0.3548656315
## 696	0.68878857	0.8900160930
## 697	0.83188379	1.1161065389
## 698	0.37023227	0.3866971273
## 699	0.44597139	0.5063649514
## 700	0.75488487	0.9944482434
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## 706	1.02080584	1.4146033813
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## 708	0.88307416	1.1969873137
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## 710	0.51715392	0.6188333473
## 711	0.45506817	0.5207378608
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## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 717	0.60625536	0.7596136204
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
## 720	0.69910866	0.9063218367
## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
## 726	0.28466403	-0.0321882744
## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
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## 732	0.26113374	-0.0693661333
## 733	0.43999489	0.2132344814
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## 735	0.39695005	0.1452236321
## 736	0.55441868	0.3940240715
## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193

## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
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## 743	0.65342612	0.5504558285
## 744	0.99508350	1.0902744861
## 745	0.81869282	0.8115772190
## 746	0.94691938	1.0141751730
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## 748	0.61125278	0.4838219518
## 749	0.32716606	0.0349649404
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## 751	0.37857947	0.1161981215
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## 753	0.55622072	0.3968712883
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## 755	0.42001361	0.1816640587
## 756	0.55930797	0.4017491473
## 757	0.79898868	0.7804446781
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## 759	0.46494965	0.2526629991
## 760	0.30121763	-0.0060335895
## 761	0.48186742	0.2793930884
## 762	0.63157168	0.5159258128
## 763	0.58158800	0.4369515986
## 764	0.67819344	0.5895881862
## 765	0.46613616	0.2545376890
## 766	0.68089613	0.5938584413
## 767	1.13031920	1.3039469002
## 768	0.33163207	0.0420212347
## 769	0.80255699	0.7860825964
## 770	0.73266090	0.6756467869
## 771	0.56981544	0.4183509578
## 772	0.44711705	0.2244874922
## 773	0.76698250	0.7298749033
## 774	0.63535938	0.5219103719
## 775	0.52222317	0.3431551651
## 776	0.40555233	0.1588152395
## 777	0.36295022	0.0915038985
## 778	0.60084060	0.4673707020
## 779	0.66978059	0.5762958827
## 780	0.65049594	0.5458261499
## 781	0.47065187	0.2616725138
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## 783	0.64421860	0.5359079447
## 784	0.72463312	0.6629628861
## 785	0.72652782	0.6659565120
## 786	0.48724955	0.2878968455
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## 788	0.72810896	0.6684547104
## 789	0.33805537	0.0521700478
## 790	0.41324762	0.1709737903
## 791	0.31033991	0.0083796217
## 792	1.17430250	1.3734405111
## 793	0.53691119	0.3663622315

## 794	0.57849728	0.4320682581
## 795	0.57144092	0.4209192135
## 796	0.43119413	0.1993292913
## 797	0.65613398	0.5547342463
## 798	0.33479843	0.0470240703
## 799	0.77677098	0.7453407009
## 800	0.75104855	0.7046992690
## 801	0.47407797	0.2670857474
## 802	0.24243682	-0.0989072643
## 803	0.53378124	0.3614169162
## 804	0.32506742	0.0316490753
## 805	0.31606323	0.0174224565
## 806	1.04530509	1.1696245948
## 807	0.43827262	0.2105133017
## 808	0.57262766	0.4227942591
## 809	0.68159567	0.5949637215
## 810	0.35441542	0.0780189199
## 811	0.81240083	0.8016358720
## 812	0.68635943	0.6024904541
## 813	0.15170334	-0.2422661649
## 814	0.57550486	0.4273402433
## 815	0.28995103	-0.0238348143
## 816	0.83330031	0.8346570526
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## 819	0.73212189	0.6747951411
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## 821	0.30586667	0.0013118942
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## 827	1.15769758	1.3472047407
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## 830	0.81461394	0.8051325787
## 831	0.50702162	0.3191367255
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## 833	0.64475543	0.5367561391
## 834	0.31536716	0.0163226717
## 835	0.29939941	-0.0089063738
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## 840	0.85609303	0.8706695409
## 841	1.33874227	1.6332553429
## 842	0.65106463	0.5467246709
## 843	0.38818003	0.1313670014
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## 845	0.62940103	0.5124961850
## 846	0.47727650	0.2721394351
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## 848	0.36478545	0.0944035658
## 849	0.45424569	0.2357507531
## 850	0.37493668	0.1104425201
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## 853	1.38214468	1.7018311498
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## 858	0.98714493	1.0777315477
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## 861	0.74847189	0.7006281461
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## 864	0.83001739	0.8294700292
## 865	0.91789212	0.9683121153
## 866	0.34280581	0.0596757423
## 867	0.55310634	0.3919505817
## 868	0.39779876	0.1465646012
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## 872	0.77769471	0.7468001935
## 873	0.67272193	0.5809432090
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## 882	0.44845649	0.2266038083
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## 884	0.61323429	0.4869527347
## 885	0.29764857	-0.0116726968
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## 1778	0.85162150	0.8536066759
## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
## 1784	0.51696206	0.3248447635
## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
## 1800	1.56355427	1.9784604502
## 1801	0.48287831	0.2709924398
## 1802	0.48102844	0.2680696350
## 1803	0.47372959	0.2565374490
## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
## 1808	0.53173109	0.3481798289
## 1809	0.55829285	0.3901474142
## 1810	0.55202444	0.3802433107
## 1811	0.45466418	0.2264141155
## 1812	0.73262174	0.6655870564
## 1813	0.45866930	0.2327421922
## 1814	1.00507042	1.0960559729
## 1815	0.56258853	0.3969345853
## 1816	1.08595175	1.2238484761
## 1817	0.47750938	0.2625095285
## 1818	0.78031136	0.7409366513
## 1819	0.88290178	0.9030295135

## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
## 1822	0.50753329	0.3099472951
## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571
## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758
## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186
## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999
## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
## 1842	0.70924514	0.6286520318
## 1843	0.68306940	0.5872943575
## 1844	0.36527721	0.0851826876
## 1845	0.72529162	0.6540054658
## 1846	0.31789123	0.0103128463
## 1847	0.93275774	0.9818019272
## 1848	0.42839373	0.1849067986
## 1849	0.26478152	-0.0736004911
## 1850	0.80667876	0.7825971386
## 1851	0.29234669	-0.0300475215
## 1852	0.87921131	0.8971985763
## 1853	0.71828512	0.6429351979
## 1854	0.34827055	0.0583121744
## 1855	0.58829881	0.4375568211
## 1856	0.67010139	0.5668048916
## 1857	0.55058873	0.3779748889
## 1858	0.55824557	0.3900727105
## 1859	0.39554888	0.1330119305
## 1860	0.97391433	1.0468293369
## 1861	0.85946053	0.8659923360
## 1862	0.58055985	0.4253292684
## 1863	0.53987832	0.3610524561
## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
## 1868	0.82783971	0.8160314387
## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
## 1872	0.59203556	0.4434608852
## 1873	1.13696744	1.3044532551

## 1874	0.51690971	0.3247620403
## 1875	0.35787909	0.0734936670
## 1876	0.62642039	0.4977889198
## 1877	0.90485939	0.9377225445
## 1878	0.54011916	0.3614329705
## 1879	0.24500598	-0.1048458411
## 1880	0.27680829	-0.0545982020
## 1881	0.59780823	0.4525817134
## 1882	0.32131601	0.0157240052
## 1883	0.33194804	0.0325226088
## 1884	0.50366457	0.3038347221
## 1885	0.44209088	0.2065482944
## 1886	0.68201057	0.5856214000
## 1887	0.50611987	0.3077140904
## 1888	0.66607314	0.5604402666
## 1889	1.08875214	1.2282730769
## 1890	0.50777878	0.3103351691
## 1891	0.59042451	0.4409154347
## 1892	0.64631389	0.5292206564
## 1893	0.62750473	0.4995021709
## 1894	0.38856081	0.1219707871
## 1895	0.40356357	0.1456751407
## 1896	0.68234318	0.5861469337
## 1897	0.28981596	-0.0340460734
## 1898	0.61507616	0.4798650424
## 1899	1.12051068	1.2784515741
## 1900	0.35377302	0.0670060798
## 1901	1.19154526	1.3906862070
## 1902	0.75911076	0.7074397051
## 1903	0.38049786	0.1092313259
## 1904	0.46120582	0.2367499000
## 1905	0.43079406	0.1886993155
## 1906	0.75553242	0.7017859319
## 1907	0.49740579	0.2939458591
## 1908	0.96580096	1.0340102195
## 1909	0.61706401	0.4830058353
## 1910	0.67076952	0.5678605383
## 1911	0.30294764	-0.0132980204
## 1912	0.73514090	0.6695673178
## 1913	0.36498133	0.0847152051
## 1914	0.62991395	0.5033087456
## 1915	0.93843107	0.9907657981
## 1916	0.73284839	0.6659451597
## 1917	0.30263953	-0.0137848438
## 1918	0.60210611	0.4593723537
## 1919	1.35313332	1.6459953559
## 1920	0.84876687	0.8490963568
## 1921	0.30782593	1.1627402003
## 1922	0.63852414	1.6852433713
## 1923	1.07345367	2.3724320325
## 1924	0.53721074	1.5251682097
## 1925	0.64535246	1.6960321293
## 1926	1.30700477	2.7414427730
## 1927	0.57266864	1.5811916857

##	1928	0.22867257	1.0376778929
##	1929	0.77798138	1.9055858190
##	1930	0.51445588	1.4892155330
##	1931	0.53125821	1.5157632106
##	1932	0.36042467	1.2458462083
##	1933	0.52579805	1.5071361534
##	1934	0.61551229	1.6488846463
##	1935	0.40602305	1.3178916551
##	1936	0.43688504	1.3666535959
##	1937	0.52267399	1.5022001372
##	1938	0.32972486	1.1973405088
##	1939	0.36892979	1.2592843044
##	1940	0.81388893	1.9623197381
##	1941	0.91157682	2.1166666148
##	1942	0.68355048	1.7563849990
##	1943	0.68513454	1.7588878036
##	1944	1.44148297	2.9539183247
##	1945	0.68070467	1.7518886159
##	1946	1.14451401	2.4847073750
##	1947	0.49523799	1.4588512573
##	1948	0.95557201	2.1861790153
##	1949	0.56458609	1.5684212566
##	1950	0.84334816	2.0088653281
##	1951	0.37082624	1.2622806994
##	1952	0.45481201	1.3949782065
##	1953	0.55360885	1.5510772204
##	1954	0.68912458	1.7651920635
##	1955	0.63800733	1.6844268171
##	1956	1.55474729	3.1328759546
##	1957	0.61446180	1.6472248741
##	1958	0.50570899	1.4753954456
##	1959	0.56872928	1.5749674998
##	1960	1.28249562	2.7027183143
##	1961	0.31437123	1.1730817792
##	1962	0.45527558	1.3957106495
##	1963	0.32548569	1.1906426295
##	1964	0.39348477	1.2980811643
##	1965	0.43979321	1.3712485021
##	1966	0.45644054	1.3975512937
##	1967	0.52627784	1.5078942292
##	1968	0.41550540	1.3328737683
##	1969	0.32927445	1.1966288703
##	1970	0.59661493	1.6190268182
##	1971	0.71779794	1.8104959785
##	1972	0.45842285	1.4006833438
##	1973	0.52508057	1.5060025301
##	1974	0.67095059	1.7364771607
##	1975	0.62906685	1.6703008542
##	1976	0.82598106	1.9814253104
##	1977	0.37757934	1.2729505920
##	1978	0.49977499	1.4660197178
##	1979	0.69346159	1.7720445436
##	1980	0.73933513	1.8445247382
##	1981	0.40445636	1.3154162830

##	1982	0.74721569	1.8569760211
##	1983	0.60488226	1.6320892117
##	1984	1.46969705	2.9984965707
##	1985	0.80538734	1.9488872357
##	1986	0.52577864	1.5071054848
##	1987	0.77359665	1.8986579466
##	1988	0.47110428	1.4207199909
##	1989	0.57453525	1.5841409331
##	1990	1.03744782	2.3155427858
##	1991	0.77008330	1.8931068531
##	1992	1.02969959	2.3033005822
##	1993	0.52149601	1.5003389279
##	1994	0.44314062	1.3765374082
##	1995	0.85042918	2.0200533422
##	1996	0.90931574	2.1130940983
##	1997	0.74392309	1.8517737160
##	1998	0.48276852	1.4391494898
##	1999	0.73102513	1.8313949344
##	2000	0.87087006	2.0523499273
##	2001	0.28062830	1.1197679529
##	2002	0.67830124	1.7480911909
##	2003	0.65062898	1.7043690196
##	2004	0.44326766	1.3767381413
##	2005	0.66583878	1.7284005068
##	2006	0.36771646	1.2573672373
##	2007	0.35197312	1.2324927615
##	2008	0.36620494	1.2549790456
##	2009	0.66940618	1.7340370038
##	2010	0.49923708	1.4651698144
##	2011	0.33135541	1.1999167821
##	2012	0.97549851	2.2176628839
##	2013	0.90649358	2.1086350969
##	2014	0.75013299	1.8615853587
##	2015	0.98022217	2.2251262615
##	2016	0.43384544	1.3618510355
##	2017	0.92821244	2.1429508879
##	2018	0.50774665	1.4786149391
##	2019	0.44724253	1.3830184367
##	2020	0.68332058	1.7560217487
##	2021	0.63940307	1.6866320865
##	2022	0.50599887	1.4758534460
##	2023	0.46243806	1.4070273745
##	2024	0.73190451	1.8327843612
##	2025	0.76728520	1.8886858517
##	2026	0.98332961	2.2300360200
##	2027	0.42322218	1.3450662810
##	2028	0.74185974	1.8485136266
##	2029	1.37257088	2.8450372221
##	2030	0.60056308	1.6252648941
##	2031	0.55001924	1.5454056373
##	2032	0.64764911	1.6996608300
##	2033	0.69023599	1.7669481045
##	2034	0.37508879	1.2690155262
##	2035	0.60627327	1.6342869943

##	2036	0.46433290	1.4100212239
##	2037	0.70207034	1.7856463711
##	2038	0.39461906	1.2998733509
##	2039	0.74126388	1.8475721715
##	2040	0.53445410	1.5208127100
##	2041	0.48783826	1.4471596927
##	2042	0.60889770	1.6384335943
##	2043	0.42125008	1.3419503624
##	2044	0.65361283	1.7090835102
##	2045	0.76931191	1.8918880603
##	2046	0.40996580	1.3241211929
##	2047	0.30717193	1.1617068828
##	2048	0.74748617	1.8574033883
##	2049	0.64887007	1.7015899488
##	2050	0.61289322	1.6447465161
##	2051	0.54297556	1.5342766206
##	2052	0.61439473	1.6471189059
##	2053	1.67823198	3.3279817685
##	2054	0.81596289	1.9655965979
##	2055	0.74692807	1.8565215801
##	2056	0.83135017	1.9899085066
##	2057	0.58402391	1.5991330113
##	2058	0.48609908	1.4444117791
##	2059	0.86800500	2.0478231275
##	2060	0.52414938	1.5045312525
##	2061	1.06381443	2.3572020303
##	2062	0.48830577	1.4478983541
##	2063	1.28499148	2.7066617770
##	2064	0.45512819	1.3954777695
##	2065	0.72015297	1.8142169309
##	2066	0.68745236	1.7625499596
##	2067	0.24859935	1.0691622128
##	2068	0.70670311	1.7929661412
##	2069	0.95609361	2.1870031358
##	2070	0.38250101	1.2807268236
##	2071	0.67559651	1.7438177247
##	2072	0.59103348	1.6102081406
##	2073	1.70641044	3.3725037269
##	2074	1.05231861	2.3390386376
##	2075	0.44156629	1.3740499765
##	2076	0.73142795	1.8320313998
##	2077	1.22110425	2.6057199546
##	2078	0.35982648	1.2449010686
##	2079	1.14793837	2.4901178639
##	2080	0.59805848	1.6213076385
##	2081	0.63232108	1.6754425361
##	2082	0.50706982	1.4775455451
##	2083	0.49351041	1.4561216819
##	2084	0.86492695	2.0429598150
##	2085	1.17020240	2.5252950265
##	2086	0.46438838	1.4101088702
##	2087	0.66226389	1.7227521872
##	2088	0.50195980	1.4694717148
##	2089	1.17731699	2.5365360788

##	2090	0.89939937	2.0974262343
##	2091	0.93487479	2.1534774053
##	2092	0.72309163	1.8188600170
##	2093	0.63578386	1.6809137328
##	2094	0.28603826	1.1283156868
##	2095	0.52584834	1.5072156160
##	2096	0.36522701	1.2534339124
##	2097	1.00429388	2.2631595654
##	2098	0.95851137	2.1908232020
##	2099	0.89316700	2.0875791003
##	2100	0.39637162	1.3026423894
##	2101	0.34841614	1.2268727356
##	2102	0.69406023	1.7729903961
##	2103	1.49161792	3.0331315445
##	2104	0.65730225	1.7149127921
##	2105	0.87261372	2.0551049175
##	2106	0.62314378	1.6609424083
##	2107	0.35757808	1.2413485942
##	2108	0.46030743	1.4036609797
##	2109	0.50322188	1.4714658103
##	2110	0.40464564	1.3157153481
##	2111	0.39543316	1.3011596235
##	2112	0.44151635	1.3739710739
##	2113	0.50868484	1.4800972834
##	2114	0.68744639	1.7625405367
##	2115	0.32631095	1.1919465367
##	2116	0.70303579	1.7871717785
##	2117	0.46744613	1.4149401141
##	2118	1.12953449	2.4610397287
##	2119	0.99680815	2.2513321165
##	2120	0.65189591	1.7063707764
##	2121	0.40158740	1.3108833292
##	2122	0.76033173	1.8776993721
##	2123	1.03709434	2.3149842855
##	2124	0.40891988	1.3224686457
##	2125	0.47947718	1.4339491864
##	2126	1.03996563	2.3195209225
##	2127	0.56675057	1.5718411430
##	2128	0.81139031	1.9583719297
##	2129	1.02529413	2.2963399550
##	2130	0.56135938	1.5633230611
##	2131	0.59853830	1.6220657450
##	2132	0.53984949	1.5293374293
##	2133	0.59055880	1.6094581448
##	2134	0.70740762	1.7940792677
##	2135	0.71787120	1.8106117336
##	2136	0.30082811	1.1516836550
##	2137	0.89033460	2.0831038974
##	2138	0.43608832	1.3653947770
##	2139	0.70698606	1.7934132164
##	2140	0.61088768	1.6415777751
##	2141	0.48571855	1.4438105428
##	2142	0.71492073	1.8059499841
##	2143	0.44131235	1.3736487519

##	2144	0.67385894	1.7410723535
##	2145	0.67619848	1.7447688320
##	2146	0.61306734	1.6450216327
##	2147	0.48197273	1.4378921413
##	2148	0.69694211	1.7775437723
##	2149	1.21761798	2.6002116460
##	2150	0.35124942	1.2313493183
##	2151	0.59522192	1.6168258732
##	2152	0.67366104	1.7407596770
##	2153	0.85135245	2.0215120999
##	2154	1.08627434	2.3926886942
##	2155	0.73848891	1.8431877083
##	2156	0.36354523	1.2507767003
##	2157	1.34782686	2.8059416663
##	2158	0.36613376	1.2548665731
##	2159	0.35767478	1.2415013948
##	2160	0.43238797	1.3595482211
##	2161	0.51113104	1.1317600689
##	2162	1.29460325	2.3696461515
##	2163	0.46478566	1.0585343603
##	2164	0.46572391	1.0600167950
##	2165	1.41653356	2.5622960400
##	2166	0.69954032	1.4294467175
##	2167	0.47452153	1.0739170421
##	2168	0.93383789	1.7996368819
##	2169	0.88059708	1.7155164120
##	2170	0.44531623	1.0277726555
##	2171	0.47336452	1.0720889657
##	2172	0.59741696	1.2680918162
##	2173	1.44317421	2.6043882769
##	2174	1.76789091	3.1174406547
##	2175	0.76060653	1.5259313309
##	2176	0.34292147	0.8659889464
##	2177	1.16097412	2.1585121288
##	2178	1.21525600	2.2442775050
##	2179	0.99459107	1.8956269132
##	2180	0.57409476	1.2312427324
##	2181	0.45894462	1.0493055169
##	2182	0.64489755	1.3431111440
##	2183	0.51479930	1.1375559088
##	2184	0.96415363	1.8475357605
##	2185	0.58958347	1.2557148976
##	2186	1.12237943	2.0975325210
##	2187	0.62348167	1.3092740521
##	2188	0.97878362	1.8706511403
##	2189	0.54383621	1.1834342242
##	2190	0.71642169	1.4561192836
##	2191	0.61239702	1.2917603126
##	2192	0.35485798	0.8848486200
##	2193	0.86987281	1.6985720594
##	2194	0.72801963	1.4744440332
##	2195	1.48779274	2.6748855531
##	2196	0.32778072	0.8420665572
##	2197	0.63407284	1.3260081006

##	2198	0.55097602	1.1947151217
##	2199	0.58601955	1.2500839052
##	2200	0.48311966	1.0875020793
##	2201	0.47872185	1.0805535351
##	2202	0.37935092	0.9235474781
##	2203	0.49702896	1.1094787753
##	2204	0.46078093	1.0522068796
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##	2212	0.65824440	1.3641991646
##	2213	0.62657213	1.3141569903
##	2214	0.89376333	1.7363190795
##	2215	0.56331691	1.2142137322
##	2216	0.77369090	1.5466046330
##	2217	0.57988776	1.2403956779
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##	2221	0.57767116	1.2368934515
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##	2358	0.41904798	0.9862688257
##	2359	1.06944411	2.0138947107

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## 2360 0.96760291 1.8529856114
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## 2398 0.75388818 1.5153163433
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
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```
# If we want to look at individual columns, we can look at it using two methods:
data$group
```

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## [1] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [35] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [69] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [103] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [137] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [171] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [205] 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [239] 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [273] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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[illegible]

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data['group']
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## 1920	1
## 1921	2
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## 2367      1
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## 2380      1
## 2381      1
## 2382      1
## 2383      1
## 2384      1
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## 2390      1
## 2391      1
## 2392      1
## 2393      1
## 2394      1
## 2395      1
## 2396      1
## 2397      1
## 2398      1
## 2399      1
## 2400      1
```

```
# Let's explore the data further by calculating the mean
# and the standard deviation
data[data$subj_no==1, 'RT_day1']
```

```
## [1] 0.5111310 1.2946032 0.4647857 0.4657239 1.4165336 0.6995403 0.4745215
## [8] 0.9338379 0.8805971 0.4453162 0.4733645 0.5974170 1.4431742 1.7678909
## [15] 0.7606065 0.3429215 1.1609741 1.2152560 0.9945911 0.5740948 0.4589446
## [22] 0.6448975 0.5147993 0.9641536 0.5895835 1.1223794 0.6234817 0.9787836
## [29] 0.5438362 0.7164217 0.6123970 0.3548580 0.8698728 0.7280196 1.4877927
## [36] 0.3277807 0.6340728 0.5509760 0.5860195 0.4831197 0.4787218 0.3793509
## [43] 0.4970290 0.4607809 0.4232781 0.3950229 0.4693055 0.4688677 0.9966940
## [50] 0.6808760 0.3511141 0.6582444 0.6265721 0.8937633 0.5633169 0.7736909
## [57] 0.5798878 0.4270307 0.8680045 0.3666625 0.5776712 0.6385925 0.4743229
## [64] 0.6457955 0.5679022 0.8460193 0.4594764 0.8588370 0.7305836 0.4302879
## [71] 0.6046627 1.5830440 0.6887286 0.4252925 0.6183145 0.8742509 0.7501458
## [78] 0.3436001 0.3793904 0.3645949 0.4599887 0.5309559 0.4377116 0.7587122
## [85] 0.3212917 0.7084128 1.2007103 0.9034592 0.8596626 0.3965352 0.5221813
## [92] 0.6033041 0.8300720 1.1870933 0.5094196 0.4777074 0.4741412 0.3685948
## [99] 0.7622575 0.9932476 0.4913631 0.3475351 0.9414225 0.4813865 0.3539713
## [106] 0.8159470 0.8256813 0.5052851 0.6972699 0.6104520 1.3449959 0.8159282
```

```
## [113] 0.3444345 1.0423825 0.8192029 0.3271660 0.5759623 1.5778356 0.8801532
## [120] 0.3657111 0.5834432 0.4996641 0.7756041 0.5230263 0.9866645 0.7030740
## [127] 0.8425237 0.4616118 0.6252256 0.7199080 0.5008544 0.7494023 0.7113318
## [134] 0.7356420 0.5967058 1.0235213 0.5309135 0.7763011 0.6933783 0.4617700
## [141] 0.7053376 0.5471384 0.3857099 0.4881168 0.4727629 0.2941847 0.5570299
## [148] 0.5196783 0.6832035 0.3931876 0.5273627 0.3114765 1.2593494 0.3865931
## [155] 0.8544662 0.5413490 0.8325009 0.5191319 0.5354546 0.3883396 0.4447940
## [162] 1.3709007 0.3767143 0.3944740 0.5081249 0.2692918 0.9474584 0.3507624
## [169] 0.9697200 0.4911199 0.6649858 0.6816010 0.9036344 0.3810076 0.4422688
## [176] 0.6879075 0.7625130 0.5617315 0.6834276 0.4260579 0.6099911 0.3879562
## [183] 0.6560534 0.7743913 1.5422954 0.4306387 0.5028732 0.7434418 0.9592629
## [190] 0.5390578 0.5482889 0.8125452 0.6522239 1.7520926 0.6588055 0.9147139
## [197] 0.4335863 0.4190480 1.0694441 0.9676029 0.6928043 0.2498216 0.4465162
## [204] 1.5827366 0.4247755 1.7146672 0.5532303 0.8550833 0.5864324 0.6953404
## [211] 0.4057153 0.4649384 0.9539656 0.5045059 0.4233018 0.4074139 0.6036208
## [218] 0.4572729 0.7844514 0.4906638 1.2699846 0.3616624 0.7704546 0.4760977
## [225] 1.2629440 0.5120789 0.7084243 0.5183954 0.4536484 0.3084124 0.2881024
## [232] 0.6400150 0.7629680 1.0502251 0.4934841 0.6415396 0.3102757 0.7538882
## [239] 0.6969330 0.6966866
```

```
mean(data[data$subj_no==1, 'RT_day1'], na.rm = TRUE)
```

```
## [1] 0.6711149
```

```
sd(data[data$subj_no==1, 'RT_day1'], na.rm = TRUE)
```

```
## [1] 0.2990333
```

```
# We will learn how to do this for all subjects later
```

Often we need to learn how to get specific columns and rows of data. For example, we might want just the ages of subjects, or only subjects over 40 etc. There are a number of ways you can do this in R, it's good to know some of them. One thing that you will notice in R, is that the same thing can be done a few different ways. A lot of the actual work you will do is figure out how to filter and subset your data before you do the actual data analysis.

```
library("plyr") # we are going to use a package called plyr
library("dplyr")
```

```
##
```

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

```
## The following objects are masked from 'package:plyr':
```

```
##
```

```
##      arrange, count, desc, failwith, id, mutate, rename, summarise,
##      summarize
```

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

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
# -----
```

```
# Ex. Splitting data by gender
```

```
# -----
```

```
# Filter = Filter a data frame by a specific value, return all columns that
```

```

# Select = Select a column from the resulting data frame
filterData <- filter(data, group==2)

## Warning: package 'bindrcpp' was built under R version 3.4.4
dataBygroup <- select(filterData, RT_day1)

# -----
# Ex. Splitting data by Age using subset, or select + filter
# -----
dataByAge1 <- subset.data.frame(data, age>25, select=c(RT_day1, RT_day2))
dataByAge2 <- select(filter(data, age>25), c(RT_day1, RT_day2)) # you could do the same thing using 'se

# We can prove subset and select + filter do the same thing by using "=="

# -----
# Ex. Splitting data using just data frames (no fancy stuff)
# -----

# Say I want Av.SSRT, RT.go, RT.go.sd for people who are older than 20
data$age>20 # tells us which people are older than 20

```

```

##      [1]  TRUE  TRUE  TRUE  TRUE FALSE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE
##      [12]  TRUE  TRUE  TRUE FALSE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE
##      [23]  TRUE  TRUE FALSE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE
##      [34]  TRUE FALSE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##      [45] FALSE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##      [56]  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##      [67]  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##      [78] FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##      [89]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##     [100]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##     [111]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##     [122]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE
##     [133]  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [144]  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [155] FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [166]  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [177]  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [188] FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [199]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [210]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [221]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [232]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [243]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [254]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [265]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [276]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [287]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [298]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [309]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
##     [320]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE

```

[illegible]

[illegible]

[illegible]

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## [2113] TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [2124] TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [2135] TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [2146] FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE
## [2157] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
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## [2223] TRUE TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE
## [2234] TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [2245] TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [2256] FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE
## [2267] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
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## [2311] TRUE TRUE TRUE TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE
## [2322] TRUE TRUE TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE
## [2333] TRUE TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE
## [2344] TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [2355] TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [2366] FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE
## [2377] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
## [2388] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE TRUE FALSE
## [2399] TRUE TRUE
```

```
# Now that we know this gives us true or false values, we put those true and false values
# in the rows of the data frame - R will select only the rows where this is equal to 'TRUE'
# i.e. the columns where that person's age is above 20
data[data$age > 20, ] # gives us all of the data for a single person that is older than 20
```

```
##      X subj_no age group stim trial difficulty resp corr conf
## 1      1      10  23     2    2      1          2    1    0    2
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## 744	744	7	38	1	2	24	3	1	0	2
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## 1831 1831	3	32	1	2	151	1	1	0	3
## 1832 1832	3	26	1	1	152	2	1	1	3
## 1833 1833	3	23	1	1	153	3	1	1	3

## 1834 1834	3	28	1	2	154	3	1	0	1
## 1835 1835	3	36	1	2	155	2	1	0	3
## 1836 1836	3	30	1	2	156	2	2	1	3
## 1837 1837	3	34	1	1	157	2	2	0	2
## 1838 1838	3	25	1	1	158	1	2	0	3
## 1839 1839	3	36	1	2	159	2	1	0	3
## 1840 1840	3	36	1	2	160	3	1	0	1
## 1841 1841	3	32	1	2	161	2	2	1	4
## 1842 1842	3	26	1	1	162	2	1	1	4
## 1843 1843	3	23	1	1	163	2	1	1	3
## 1844 1844	3	28	1	1	164	1	1	1	5
## 1845 1845	3	36	1	1	165	2	2	0	3
## 1846 1846	3	30	1	2	166	1	2	1	5
## 1847 1847	3	34	1	2	167	3	2	1	3
## 1848 1848	3	25	1	1	168	1	1	1	5
## 1849 1849	3	36	1	2	169	2	1	0	3
## 1850 1850	3	36	1	1	170	3	1	1	2
## 1851 1851	3	32	1	2	171	1	2	1	5
## 1852 1852	3	26	1	2	172	3	2	1	3
## 1853 1853	3	23	1	1	173	3	1	1	3
## 1854 1854	3	28	1	2	174	1	2	1	4
## 1855 1855	3	36	1	1	175	1	2	0	3
## 1856 1856	3	30	1	2	176	2	1	0	2
## 1857 1857	3	34	1	2	177	2	2	1	3
## 1858 1858	3	25	1	2	178	1	1	0	4
## 1859 1859	3	36	1	1	179	1	2	0	4
## 1860 1860	3	36	1	1	180	3	2	0	2
## 1861 1861	3	32	1	1	181	3	2	0	1
## 1862 1862	3	26	1	2	182	3	2	1	2
## 1863 1863	3	23	1	1	183	3	1	1	2
## 1864 1864	3	28	1	2	184	3	2	1	2
## 1865 1865	3	36	1	1	185	2	2	0	2
## 1866 1866	3	30	1	2	186	2	2	1	4
## 1867 1867	3	34	1	2	187	1	2	1	5
## 1868 1868	3	25	1	1	188	3	1	1	3
## 1869 1869	3	36	1	2	189	3	2	1	2
## 1870 1870	3	36	1	2	190	1	1	0	4
## 1871 1871	3	32	1	2	191	2	2	1	4
## 1872 1872	3	26	1	1	192	2	1	1	3
## 1873 1873	3	23	1	2	193	3	1	0	1
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## 1875 1875	3	36	1	1	195	1	1	1	5
## 1876 1876	3	30	1	1	196	1	2	0	4
## 1877 1877	3	34	1	2	197	3	2	1	3
## 1878 1878	3	25	1	1	198	1	1	1	5
## 1879 1879	3	36	1	2	199	1	2	1	4
## 1880 1880	3	36	1	1	200	1	1	1	4
## 1881 1881	3	32	1	2	201	2	2	1	4
## 1882 1882	3	26	1	2	202	1	2	1	4
## 1883 1883	3	23	1	1	203	1	1	1	5
## 1884 1884	3	28	1	1	204	1	2	0	4
## 1885 1885	3	36	1	1	205	1	1	1	5
## 1886 1886	3	30	1	1	206	2	1	1	4
## 1887 1887	3	34	1	1	207	1	2	0	4

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## 1889 1889	3	36	1	1	209	3	2	0	1
## 1890 1890	3	36	1	1	210	2	2	0	3
## 1891 1891	3	32	1	1	211	3	2	0	1
## 1892 1892	3	26	1	1	212	2	1	1	4
## 1893 1893	3	23	1	1	213	2	1	1	3
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## 1895 1895	3	36	1	2	215	2	1	0	2
## 1896 1896	3	30	1	2	216	2	1	0	3
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## 1899 1899	3	36	1	2	219	3	2	1	2
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## 1902 1902	3	26	1	2	222	3	2	1	3
## 1903 1903	3	23	1	2	223	3	1	0	1
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## 1906 1906	3	30	1	1	226	3	1	1	2
## 1907 1907	3	34	1	1	227	2	1	1	4
## 1908 1908	3	25	1	2	228	3	2	1	2
## 1909 1909	3	36	1	2	229	1	1	0	3
## 1910 1910	3	36	1	1	230	2	1	1	4
## 1911 1911	3	32	1	1	231	1	1	1	4
## 1912 1912	3	26	1	2	232	3	1	0	1
## 1913 1913	3	23	1	1	233	1	1	1	5
## 1914 1914	3	28	1	1	234	2	2	0	3
## 1915 1915	3	36	1	2	235	3	1	0	1
## 1916 1916	3	30	1	2	236	1	1	0	3
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## 1918 1918	3	25	1	2	238	2	1	0	3
## 1919 1919	3	36	1	1	239	3	2	0	2
## 1920 1920	3	36	1	1	240	3	2	0	2
## 1921 1921	2	29	2	2	1	1	2	1	4
## 1922 1922	2	30	2	1	2	1	2	0	3
## 1923 1923	2	23	2	2	3	3	2	1	3
## 1924 1924	2	31	2	2	4	2	2	1	3
## 1925 1925	2	24	2	1	5	1	2	0	3
## 1928 1928	2	30	2	1	8	3	2	0	1
## 1929 1929	2	36	2	2	9	2	2	1	4
## 1930 1930	2	24	2	2	10	2	2	1	4
## 1931 1931	2	29	2	2	11	2	2	1	4
## 1932 1932	2	30	2	2	12	1	2	1	5
## 1933 1933	2	23	2	1	13	1	2	0	3
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## 1935 1935	2	24	2	1	15	2	1	1	4
## 1938 1938	2	30	2	2	18	1	2	1	5
## 1939 1939	2	36	2	2	19	1	2	1	5
## 1940 1940	2	24	2	2	20	2	2	1	4
## 1941 1941	2	29	2	2	21	3	1	0	1
## 1942 1942	2	30	2	2	22	2	2	1	4
## 1943 1943	2	23	2	2	23	2	2	1	3
## 1944 1944	2	31	2	1	24	3	1	1	2
## 1945 1945	2	24	2	2	25	3	2	1	3

## 1948 1948	2	30	2	2	28	3	2	1	3
## 1949 1949	2	36	2	2	29	3	2	1	3
## 1950 1950	2	24	2	1	30	3	1	1	3
## 1951 1951	2	29	2	2	31	1	2	1	5
## 1952 1952	2	30	2	2	32	1	2	1	5
## 1953 1953	2	23	2	1	33	1	1	1	5
## 1954 1954	2	31	2	2	34	3	2	1	2
## 1955 1955	2	24	2	1	35	1	2	0	4
## 1958 1958	2	30	2	1	38	1	1	1	5
## 1959 1959	2	36	2	2	39	2	2	1	3
## 1960 1960	2	24	2	2	40	3	1	0	2
## 1961 1961	2	29	2	2	41	1	2	1	4
## 1962 1962	2	30	2	1	42	1	2	0	3
## 1963 1963	2	23	2	2	43	1	1	0	3
## 1964 1964	2	31	2	1	44	3	2	0	2
## 1965 1965	2	24	2	1	45	1	1	1	4
## 1968 1968	2	30	2	1	48	1	1	1	4
## 1969 1969	2	36	2	1	49	1	1	1	4
## 1970 1970	2	24	2	2	50	2	2	1	3
## 1971 1971	2	29	2	1	51	2	2	0	2
## 1972 1972	2	30	2	1	52	1	1	1	5
## 1973 1973	2	23	2	1	53	1	1	1	5
## 1974 1974	2	31	2	1	54	3	2	0	1
## 1975 1975	2	24	2	2	55	2	2	1	3
## 1978 1978	2	30	2	1	58	1	1	1	5
## 1979 1979	2	36	2	1	59	2	2	0	2
## 1980 1980	2	24	2	1	60	2	1	1	4
## 1981 1981	2	29	2	1	61	1	2	0	3
## 1982 1982	2	30	2	1	62	2	1	1	3
## 1983 1983	2	23	2	1	63	3	1	1	2
## 1984 1984	2	31	2	1	64	3	2	0	2
## 1985 1985	2	24	2	1	65	2	2	0	3
## 1988 1988	2	30	2	1	68	1	1	1	5
## 1989 1989	2	36	2	2	69	2	2	1	3
## 1990 1990	2	24	2	2	70	3	1	0	2
## 1991 1991	2	29	2	2	71	2	1	0	3
## 1992 1992	2	30	2	1	72	3	1	1	2
## 1993 1993	2	23	2	2	73	2	2	1	4
## 1994 1994	2	31	2	1	74	1	1	1	5
## 1995 1995	2	24	2	1	75	2	2	0	3
## 1998 1998	2	30	2	2	78	2	1	0	3
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## 2000 2000	2	24	2	2	80	3	2	1	3
## 2001 2001	2	29	2	1	81	3	2	0	1
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## 2008 2008	2	30	2	2	88	1	2	1	5
## 2009 2009	2	36	2	1	89	1	2	0	4
## 2010 2010	2	24	2	2	90	2	1	0	3
## 2011 2011	2	29	2	2	91	1	2	1	4
## 2012 2012	2	30	2	2	92	3	1	0	1
## 2013 2013	2	23	2	2	93	3	2	1	2

## 2014 2014	2	31	2	2	94	2	1	0	2
## 2015 2015	2	24	2	2	95	3	2	1	2
## 2018 2018	2	30	2	2	98	2	2	1	4
## 2019 2019	2	36	2	1	99	1	1	1	5
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## 2021 2021	2	29	2	2	101	2	2	1	3
## 2022 2022	2	30	2	2	102	2	2	1	3
## 2023 2023	2	23	2	2	103	1	2	1	5
## 2024 2024	2	31	2	2	104	3	1	0	1
## 2025 2025	2	24	2	2	105	3	2	1	3
## 2028 2028	2	30	2	1	108	3	1	1	3
## 2029 2029	2	36	2	1	109	3	2	0	2
## 2030 2030	2	24	2	2	110	2	1	0	3
## 2031 2031	2	29	2	1	111	1	2	0	3
## 2032 2032	2	30	2	1	112	3	1	1	2
## 2033 2033	2	23	2	2	113	2	1	0	2
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## 2040 2040	2	24	2	2	120	2	2	1	4
## 2041 2041	2	29	2	2	121	2	2	1	3
## 2042 2042	2	30	2	1	122	3	1	1	3
## 2043 2043	2	23	2	1	123	1	1	1	5
## 2044 2044	2	31	2	2	124	3	1	0	2
## 2045 2045	2	24	2	2	125	2	2	1	4
## 2048 2048	2	30	2	2	128	2	2	1	3
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## 2050 2050	2	24	2	2	130	2	2	1	3
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## 2071 2071	2	29	2	2	151	2	1	0	2
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##	2082	2082	2	30	2	2	162	2	2	1	3
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##	2100	2100	2	24	2	1	180	1	1	1	4
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## 2153 2153	2	23	2	2	233	3	1	0	2
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## 2159 2159	2	36	2	1	239	1	1	1	5
## 2160 2160	2	24	2	1	240	1	1	1	4
## 2161 2161	1	21	1	2	1	1	2	1	4
## 2162 2162	1	27	1	1	2	3	2	0	1
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## 2164 2164	1	24	1	1	4	1	1	1	5
## 2165 2165	1	28	1	2	5	3	1	0	2
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## 2199 2199	1	24	1	1	39	2	2	0	3
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## 2209 2209	1	24	1	2	49	3	2	1	3
## 2210 2210	1	30	1	2	50	2	1	0	3
## 2211 2211	1	21	1	1	51	1	1	1	5
## 2212 2212	1	27	1	2	52	2	2	1	4
## 2213 2213	1	22	1	1	53	2	1	1	3
## 2214 2214	1	24	1	2	54	3	2	1	2
## 2215 2215	1	28	1	2	55	2	1	0	3

##	2217	2217	1	30	1	1	57	2	2	0	3
##	2219	2219	1	24	1	2	59	3	2	1	2
##	2220	2220	1	30	1	2	60	1	2	1	5
##	2221	2221	1	21	1	2	61	1	1	0	4
##	2222	2222	1	27	1	2	62	2	1	0	3
##	2223	2223	1	22	1	2	63	2	2	1	4
##	2224	2224	1	24	1	2	64	2	2	1	4
##	2225	2225	1	28	1	2	65	1	1	0	3
##	2227	2227	1	30	1	1	67	1	1	1	5
##	2229	2229	1	24	1	2	69	3	1	0	2
##	2230	2230	1	30	1	2	70	3	2	1	2
##	2231	2231	1	21	1	1	71	3	2	0	2
##	2232	2232	1	27	1	1	72	3	2	0	2
##	2233	2233	1	22	1	2	73	2	1	0	3
##	2234	2234	1	24	1	2	74	1	2	1	5
##	2235	2235	1	28	1	2	75	3	2	1	3
##	2237	2237	1	30	1	2	77	2	2	1	4
##	2239	2239	1	24	1	2	79	1	2	1	5
##	2240	2240	1	30	1	1	80	1	2	0	3
##	2241	2241	1	21	1	1	81	1	1	1	4
##	2242	2242	1	27	1	2	82	2	2	1	4
##	2243	2243	1	22	1	2	83	1	2	1	5
##	2244	2244	1	24	1	2	84	3	2	1	3
##	2245	2245	1	28	1	1	85	1	1	1	4
##	2247	2247	1	30	1	1	87	3	1	1	3
##	2249	2249	1	24	1	2	89	2	1	0	2
##	2250	2250	1	30	1	1	90	2	1	1	3
##	2251	2251	1	21	1	1	91	2	1	1	4
##	2252	2252	1	27	1	2	92	1	1	0	4
##	2253	2253	1	22	1	1	93	3	2	0	1
##	2254	2254	1	24	1	1	94	3	2	0	2
##	2255	2255	1	28	1	1	95	1	1	1	4
##	2257	2257	1	30	1	2	97	1	2	1	5
##	2259	2259	1	24	1	1	99	3	1	1	2
##	2260	2260	1	30	1	2	100	3	1	0	1
##	2261	2261	1	21	1	1	101	2	1	1	3
##	2262	2262	1	27	1	1	102	1	1	1	5
##	2263	2263	1	22	1	2	103	3	2	1	3
##	2264	2264	1	24	1	2	104	1	2	1	5
##	2265	2265	1	28	1	1	105	2	2	0	3
##	2267	2267	1	30	1	1	107	2	1	1	3
##	2269	2269	1	24	1	2	109	3	2	1	3
##	2270	2270	1	30	1	1	110	2	1	1	4
##	2271	2271	1	21	1	1	111	3	2	0	2
##	2272	2272	1	27	1	1	112	3	2	0	1
##	2273	2273	1	22	1	2	113	1	2	1	5
##	2274	2274	1	24	1	1	114	3	2	0	1
##	2275	2275	1	28	1	1	115	3	1	1	2
##	2277	2277	1	30	1	2	117	2	2	1	3
##	2279	2279	1	24	1	1	119	3	2	0	1
##	2280	2280	1	30	1	2	120	1	2	1	4
##	2281	2281	1	21	1	1	121	2	2	0	2
##	2282	2282	1	27	1	2	122	1	2	1	4
##	2283	2283	1	22	1	2	123	2	1	0	3

##	2284	2284	1	24	1	2	124	1	2	1	4
##	2285	2285	1	28	1	2	125	3	1	0	1
##	2287	2287	1	30	1	1	127	3	2	0	2
##	2289	2289	1	24	1	2	129	3	2	1	2
##	2290	2290	1	30	1	2	130	3	2	1	3
##	2291	2291	1	21	1	2	131	1	2	1	4
##	2292	2292	1	27	1	2	132	3	1	0	2
##	2293	2293	1	22	1	2	133	3	2	1	3
##	2294	2294	1	24	1	1	134	3	1	1	2
##	2295	2295	1	28	1	2	135	3	1	0	2
##	2297	2297	1	30	1	2	137	1	2	1	4
##	2299	2299	1	24	1	1	139	1	2	0	4
##	2300	2300	1	30	1	1	140	1	1	1	4
##	2301	2301	1	21	1	1	141	3	2	0	2
##	2302	2302	1	27	1	1	142	1	2	0	3
##	2303	2303	1	22	1	1	143	2	1	1	3
##	2304	2304	1	24	1	1	144	2	2	0	2
##	2305	2305	1	28	1	1	145	1	1	1	4
##	2307	2307	1	30	1	1	147	2	1	1	4
##	2309	2309	1	24	1	2	149	3	2	1	2
##	2310	2310	1	30	1	2	150	1	2	1	4
##	2311	2311	1	21	1	1	151	1	1	1	4
##	2312	2312	1	27	1	2	152	1	2	1	4
##	2313	2313	1	22	1	1	153	3	2	0	2
##	2314	2314	1	24	1	1	154	1	1	1	5
##	2315	2315	1	28	1	2	155	3	2	1	3
##	2317	2317	1	30	1	2	157	2	1	0	3
##	2319	2319	1	24	1	2	159	2	2	1	3
##	2320	2320	1	30	1	1	160	2	1	1	4
##	2321	2321	1	21	1	2	161	1	2	1	4
##	2322	2322	1	27	1	2	162	3	1	0	1
##	2323	2323	1	22	1	1	163	1	1	1	5
##	2324	2324	1	24	1	2	164	2	1	0	2
##	2325	2325	1	28	1	2	165	1	1	0	4
##	2327	2327	1	30	1	2	167	3	2	1	3
##	2329	2329	1	24	1	1	169	3	1	1	3
##	2330	2330	1	30	1	1	170	2	2	0	3
##	2331	2331	1	21	1	1	171	3	1	1	2
##	2332	2332	1	27	1	1	172	2	1	1	3
##	2333	2333	1	22	1	2	173	2	1	0	3
##	2334	2334	1	24	1	1	174	2	1	1	4
##	2335	2335	1	28	1	1	175	1	1	1	4
##	2337	2337	1	30	1	2	177	2	1	0	3
##	2339	2339	1	24	1	1	179	2	2	0	2
##	2340	2340	1	30	1	2	180	1	1	0	3
##	2341	2341	1	21	1	1	181	2	2	0	2
##	2342	2342	1	27	1	1	182	1	1	1	5
##	2343	2343	1	22	1	1	183	3	1	1	3
##	2344	2344	1	24	1	2	184	2	2	1	4
##	2345	2345	1	28	1	1	185	3	2	0	2
##	2347	2347	1	30	1	1	187	2	1	1	4
##	2349	2349	1	24	1	1	189	3	1	1	3
##	2350	2350	1	30	1	1	190	2	1	1	4
##	2351	2351	1	21	1	1	191	2	2	0	3

##	2352	2352	1	27	1	1	192	3	2	0	2
##	2353	2353	1	22	1	1	193	2	1	1	4
##	2354	2354	1	24	1	1	194	3	2	0	2
##	2355	2355	1	28	1	2	195	2	2	1	3
##	2357	2357	1	30	1	2	197	1	1	0	4
##	2359	2359	1	24	1	2	199	3	2	1	3
##	2360	2360	1	30	1	2	200	3	2	1	2
##	2361	2361	1	21	1	1	201	2	1	1	4
##	2362	2362	1	27	1	2	202	1	2	1	4
##	2363	2363	1	22	1	2	203	2	2	1	3
##	2364	2364	1	24	1	1	204	3	2	0	2
##	2365	2365	1	28	1	1	205	1	1	1	5
##	2367	2367	1	30	1	1	207	2	1	1	4
##	2369	2369	1	24	1	1	209	2	2	0	2
##	2370	2370	1	30	1	1	210	2	1	1	4
##	2371	2371	1	21	1	2	211	1	2	1	5
##	2372	2372	1	27	1	1	212	1	1	1	4
##	2373	2373	1	22	1	1	213	3	1	1	2
##	2374	2374	1	24	1	1	214	2	1	1	3
##	2375	2375	1	28	1	2	215	2	2	1	4
##	2377	2377	1	30	1	2	217	2	2	1	3
##	2379	2379	1	24	1	2	219	3	2	1	2
##	2380	2380	1	30	1	2	220	2	2	1	3
##	2381	2381	1	21	1	1	221	3	2	0	2
##	2382	2382	1	27	1	1	222	1	1	1	5
##	2383	2383	1	22	1	2	223	2	1	0	3
##	2384	2384	1	24	1	1	224	1	2	0	3
##	2385	2385	1	28	1	1	225	3	1	1	2
##	2387	2387	1	30	1	1	227	3	2	0	1
##	2389	2389	1	24	1	2	229	1	2	1	5
##	2390	2390	1	30	1	1	230	1	1	1	5
##	2391	2391	1	21	1	1	231	1	1	1	4
##	2392	2392	1	27	1	2	232	3	1	0	2
##	2393	2393	1	22	1	2	233	2	1	0	3
##	2394	2394	1	24	1	2	234	3	1	0	2
##	2395	2395	1	28	1	1	235	1	1	1	5
##	2397	2397	1	30	1	1	237	1	1	1	5
##	2399	2399	1	24	1	1	239	3	1	1	2
##	2400	2400	1	30	1	1	240	2	2	0	2
##		RT_day1					RT_day2				
##	1	0.60761494					1.5589454195				
##	2	0.70900369					1.7191396404				
##	3	0.62320134					1.5835719316				
##	4	0.68807593					1.6860737827				
##	6	0.40986839					1.2465058600				
##	7	0.73163809					1.7549019885				
##	9	1.34663842					2.7266025145				
##	10	0.56936275					1.4985069465				
##	11	0.34670307					1.1467046633				
##	12	0.74287703					1.7726595103				
##	13	0.99696099					2.1741121766				
##	14	0.64211892					1.6134617047				
##	16	0.59109391					1.5328421846				
##	17	0.61122270					1.5646456801				

## 19	0.38717101	1.2106439993
## 20	0.62645332	1.5887100617
## 21	0.32772079	1.1167126619
## 22	0.45575074	1.3189999772
## 23	0.40837268	1.2441426473
## 24	0.57411528	1.5060159553
## 26	0.66428165	1.6484788125
## 27	0.36358039	1.1733708290
## 29	0.73812986	1.7651589875
## 30	0.76446834	1.8067737785
## 31	0.35769718	1.1640753480
## 32	0.61056975	1.5636140085
## 33	0.32598242	1.1139660340
## 34	0.40429136	1.2376941601
## 36	0.34524324	1.1443981325
## 37	0.40056035	1.2317991609
## 39	0.34943628	1.1510231246
## 40	0.32363422	1.1102558802
## 41	0.47646070	1.3517217134
## 42	0.50021394	1.3892518344
## 43	0.68535150	1.6817691861
## 44	0.59257262	1.5351785431
## 46	0.90805273	2.0336371205
## 47	0.64412268	1.6166276401
## 49	0.62489066	1.5862410517
## 50	0.55690563	1.4788247098
## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 56	0.69476067	1.6966356732
## 57	0.44563960	1.3030243721
## 59	0.56853460	1.4971984736
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 66	0.63499179	1.6022008426
## 67	0.55528581	1.4762653837
## 69	0.21931196	0.9454267056
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 76	0.49218507	1.3765662157
## 77	0.38395864	1.2055684670
## 79	0.94625190	2.0939918136
## 80	0.74990464	1.7837631469
## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045

## 86	0.55373794	1.4738197472
## 87	0.54724735	1.4635646178
## 89	0.54030159	1.4525903197
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433
## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 96	0.66632349	1.6517049250
## 97	0.79565802	1.8560534858
## 99	0.47376829	1.3474677028
## 100	0.47998040	1.3572828435
## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080
## 106	0.58250290	1.5192683946
## 107	0.53437471	1.4432258539
## 109	1.29100895	2.6387079516
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 116	1.29315232	2.6420944788
## 117	0.19309507	0.9040040253
## 119	0.22209087	0.9498173838
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 126	0.48973040	1.3726878471
## 127	0.74215682	1.7715215808
## 129	0.63570711	1.6033310400
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 136	0.72299283	1.7412424831
## 137	0.84721448	1.9375126879
## 139	0.48778778	1.3696184980
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 146	0.91092679	2.0381781374
## 147	0.40768154	1.2430506427
## 149	1.09781942	2.3334684967
## 150	0.55291409	1.4725180652
## 151	1.01542119	2.2032792939
## 152	0.66699475	1.6527655116

## 153	0.45711318	1.3211526307
## 154	1.03947212	2.2412797648
## 156	1.87401850	3.5598630368
## 157	0.47707108	1.3526861221
## 159	1.18868301	2.4770329686
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 166	0.33918117	1.1348200589
## 167	0.53567646	1.4452826108
## 169	0.80690257	1.8738198642
## 170	0.85511292	1.9499922220
## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 176	0.62019085	1.5788153482
## 177	0.63930468	1.6090152036
## 179	0.42629950	1.2724670159
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 186	0.83289322	1.9148851046
## 187	0.66725426	1.6531755364
## 189	0.84816082	1.9390079004
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 196	1.28726758	2.6327965891
## 197	0.90481953	2.0285286646
## 199	0.44550921	1.3028183539
## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 206	0.70337238	1.7102421634
## 207	0.54769292	1.4642686170
## 209	0.70635349	1.7149523227
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201
## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 216	0.42990794	1.2781683576
## 217	0.72365007	1.7422809188
## 219	0.52390364	1.4266815530
## 220	0.46708691	1.3369111306

## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 226	0.41653834	1.2570443897
## 227	0.41718838	1.2580714571
## 229	0.99303853	2.1679146815
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 236	1.36973695	2.7630981940
## 237	0.52499017	1.4283982844
## 239	0.61075838	1.5639120457
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931
## 253	0.78974393	1.4539676649
## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381
## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
## 265	0.76448938	1.4140654815
## 266	0.42322889	0.8748739073
## 267	0.74778884	1.3876786268
## 268	0.44315970	0.9063645847
## 269	0.82237355	1.5055224702
## 270	0.58070863	1.1236918901
## 271	0.64835767	1.2305773796
## 272	0.36430260	0.7817703597
## 273	0.31517256	0.7041448999
## 274	0.60539987	1.1627040453
## 275	0.65769737	1.2453340954
## 276	0.79343030	1.4597921260
## 277	0.68013169	1.2807803186
## 278	1.00679175	1.7969032153

## 279	1.52565198	2.6167023873
## 280	0.42452874	0.8769276640
## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
## 284	0.42436780	0.8766733852
## 285	0.59520731	1.1465998065
## 286	1.12367626	1.9815807409
## 287	0.50413538	1.0027061525
## 288	0.72268776	1.3480189157
## 289	0.60595022	1.1635735937
## 290	0.67219248	1.2682363647
## 291	0.45708081	0.9283599332
## 292	0.87842594	1.5940852381
## 293	0.56262020	1.0951121699
## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
## 297	0.45492038	0.9249464617
## 298	0.68032951	1.2810928728
## 299	0.47450257	0.9558863204
## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078
## 307	0.49275413	0.9847237780
## 308	0.53640915	1.0536987070
## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
## 314	0.94515695	1.6995202396
## 315	0.37260027	0.7948806855
## 316	0.73481533	1.3671804825
## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
## 320	0.64711752	1.2286179340
## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
## 326	0.76142983	1.4092313827
## 327	0.92105407	1.6614376821
## 328	1.10139356	1.9463740794
## 329	0.28982203	0.6640910630
## 330	0.46610706	0.9426214159
## 331	0.37185904	0.7937095342
## 332	0.37653795	0.8011022093

## 333	1.05002795	1.8652164154
## 334	0.68007611	1.2806925047
## 335	0.61581929	1.1791667326
## 336	0.57703146	1.1178819533
## 337	0.45378298	0.9231493657
## 338	0.34148302	0.7457154225
## 339	1.38830866	2.3996999422
## 340	1.00671690	1.7967849604
## 341	0.37045785	0.7914956549
## 342	1.27697075	2.2237860410
## 343	0.59039530	1.1389968245
## 344	0.44991128	0.9170320737
## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903
## 361	0.64999740	1.2331681388
## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
## 364	0.60068921	1.1552612063
## 365	0.75512927	1.3992764923
## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564
## 371	0.57029967	1.1072457309
## 372	0.56276979	1.0953485229
## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504
## 375	0.74269915	1.3796369180
## 376	0.53612783	1.0532542196
## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
## 382	1.25914782	2.1956258159
## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765

## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329
## 415	1.02365143	1.8235415129
## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392
## 425	0.50621102	1.0059856673
## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954
## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
## 437	0.49060529	0.9813286153
## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299

## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534
## 469	0.38331819	0.8118149983
## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712
## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449
## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 490	1.90348342	2.8092339498
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813

## 496	0.50552613	0.6004614286
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 500	0.34392259	0.3451278347
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 510	0.35609971	0.3643676853
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 518	0.42033311	0.4658564623
## 519	1.37346337	1.9718022652
## 520	0.46736755	0.5401708827
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455
## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 530	0.66261779	0.8486662597
## 531	0.53798149	0.6517408997
## 532	0.41767299	0.4616534736
## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
## 535	0.56171487	0.6892396385
## 536	0.61326604	0.7706904948
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 540	0.47593981	0.5537150425
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 550	0.70937442	0.9225417324
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891

## 556	0.70905772	0.9220413487
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 560	0.46850458	0.5419673876
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
## 566	0.61692060	0.7764647030
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 570	0.50025695	0.5921361353
## 571	0.40108908	0.4354508987
## 572	0.43565687	0.4900679986
## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 580	0.40090210	0.4351554685
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
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## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
## 590	0.41261921	0.4536684997
## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
## 594	0.55557150	0.6795331136
## 595	0.54317764	0.6599508189
## 596	0.63806618	0.8098747128
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648
## 600	0.31570164	0.3005387357
## 601	0.39402241	0.4242855579
## 602	1.17392462	1.6565310448
## 603	0.52353456	0.6289147532
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## 606	0.88780250	1.2044581047
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 610	0.28706576	0.2552940476
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332

## 616	0.34781451	0.3512770694
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
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## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
## 625	0.77875902	1.0321694049
## 626	0.94832174	1.3000784971
## 628	0.56995957	0.7022662675
## 629	0.35787457	0.3671719642
## 630	0.65287127	0.8332667572
## 631	0.88718994	1.2034902579
## 632	0.37893029	0.4004400118
## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
## 636	0.55246788	0.6746294045
## 638	0.60018745	0.7500263124
## 639	0.74792839	0.9834569968
## 640	0.75140311	0.9889470549
## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639
## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 648	1.03623818	1.4389864676
## 649	0.59314903	0.7389056186
## 650	0.39033931	0.4184662541
## 651	1.04545731	1.4535526975
## 652	0.46486987	0.5362245385
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## 655	0.62377497	0.7872945959
## 656	0.73737962	0.9667899470
## 658	0.79651735	1.0602275594
## 659	0.36076479	0.3717385141
## 660	0.64633610	0.8229411864
## 661	0.76626481	1.0124285530
## 662	0.45244342	0.5165907506
## 663	0.82950338	1.1123454855
## 664	0.72642366	0.9494795307
## 665	0.38029194	0.4025914070
## 666	0.53655948	0.6494941225
## 668	0.69899227	0.9061379329
## 669	1.09209212	1.5272356926
## 670	0.37333420	0.3915981915
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## 672	0.58420266	0.7247703507
## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
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## 676	0.58373866	0.7240372292
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
## 680	0.95894313	1.3168603011
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## 682	0.58468404	0.7255309236
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## 684	0.90895685	1.2378819771
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## 686	0.43417486	0.4877264298
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## 690	0.49605445	0.5854961778
## 691	0.48915311	0.5745920544
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## 694	0.31034486	0.2920750300
## 695	0.35008575	0.3548656315
## 696	0.68878857	0.8900160930
## 698	0.37023227	0.3866971273
## 699	0.44597139	0.5063649514
## 700	0.75488487	0.9944482434
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## 703	0.78270949	1.0384111361
## 704	0.80424358	1.0724350077
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## 706	1.02080584	1.4146033813
## 708	0.88307416	1.1969873137
## 709	0.26720137	0.2239083185
## 710	0.51715392	0.6188333473
## 711	0.45506817	0.5207378608
## 712	1.28697940	1.8351575961
## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
## 720	0.69910866	0.9063218367
## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
## 731	0.78413029	0.7569684170
## 732	0.26113374	-0.0693661333
## 733	0.43999489	0.2132344814
## 734	0.39972812	0.1496129810
## 735	0.39695005	0.1452236321

## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193
## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
## 742	0.76156446	0.7213143998
## 743	0.65342612	0.5504558285
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## 747	0.44810032	0.2260410657
## 748	0.61125278	0.4838219518
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## 755	0.42001361	0.1816640587
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## 760	0.30121763	-0.0060335895
## 761	0.48186742	0.2793930884
## 762	0.63157168	0.5159258128
## 763	0.58158800	0.4369515986
## 764	0.67819344	0.5895881862
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## 1762	0.50675121	0.3087116205
## 1763	0.79998468	0.7720204941
## 1764	0.34011580	0.0454276607
## 1765	0.73509045	0.6694876173
## 1766	1.27186498	1.5175913672
## 1767	0.59522668	0.4485028609
## 1768	0.62062579	0.4886334468
## 1769	0.78286953	0.7449785664
## 1770	1.38501332	1.6963657440
## 1771	0.71137947	0.6320242684
## 1772	0.58629406	0.4343893232

## 1773	0.66927894	0.5655054326
## 1774	0.78576745	0.7495572702
## 1775	0.63481561	0.5110533646
## 1776	1.31194745	1.5809216741
## 1777	0.30499853	-0.0100576131
## 1778	0.85162150	0.8536066759
## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
## 1784	0.51696206	0.3248447635
## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
## 1800	1.56355427	1.9784604502
## 1801	0.48287831	0.2709924398
## 1802	0.48102844	0.2680696350
## 1803	0.47372959	0.2565374490
## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
## 1808	0.53173109	0.3481798289
## 1809	0.55829285	0.3901474142
## 1810	0.55202444	0.3802433107
## 1811	0.45466418	0.2264141155
## 1812	0.73262174	0.6655870564
## 1813	0.45866930	0.2327421922
## 1814	1.00507042	1.0960559729
## 1815	0.56258853	0.3969345853
## 1816	1.08595175	1.2238484761
## 1817	0.47750938	0.2625095285
## 1818	0.78031136	0.7409366513
## 1819	0.88290178	0.9030295135
## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
## 1822	0.50753329	0.3099472951
## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571
## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758

## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186
## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999
## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
## 1842	0.70924514	0.6286520318
## 1843	0.68306940	0.5872943575
## 1844	0.36527721	0.0851826876
## 1845	0.72529162	0.6540054658
## 1846	0.31789123	0.0103128463
## 1847	0.93275774	0.9818019272
## 1848	0.42839373	0.1849067986
## 1849	0.26478152	-0.0736004911
## 1850	0.80667876	0.7825971386
## 1851	0.29234669	-0.0300475215
## 1852	0.87921131	0.8971985763
## 1853	0.71828512	0.6429351979
## 1854	0.34827055	0.0583121744
## 1855	0.58829881	0.4375568211
## 1856	0.67010139	0.5668048916
## 1857	0.55058873	0.3779748889
## 1858	0.55824557	0.3900727105
## 1859	0.39554888	0.1330119305
## 1860	0.97391433	1.0468293369
## 1861	0.85946053	0.8659923360
## 1862	0.58055985	0.4253292684
## 1863	0.53987832	0.3610524561
## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
## 1868	0.82783971	0.8160314387
## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
## 1872	0.59203556	0.4434608852
## 1873	1.13696744	1.3044532551
## 1874	0.51690971	0.3247620403
## 1875	0.35787909	0.0734936670
## 1876	0.62642039	0.4977889198
## 1877	0.90485939	0.9377225445
## 1878	0.54011916	0.3614329705
## 1879	0.24500598	-0.1048458411
## 1880	0.27680829	-0.0545982020

##	1881	0.59780823	0.4525817134
##	1882	0.32131601	0.0157240052
##	1883	0.33194804	0.0325226088
##	1884	0.50366457	0.3038347221
##	1885	0.44209088	0.2065482944
##	1886	0.68201057	0.5856214000
##	1887	0.50611987	0.3077140904
##	1888	0.66607314	0.5604402666
##	1889	1.08875214	1.2282730769
##	1890	0.50777878	0.3103351691
##	1891	0.59042451	0.4409154347
##	1892	0.64631389	0.5292206564
##	1893	0.62750473	0.4995021709
##	1894	0.38856081	0.1219707871
##	1895	0.40356357	0.1456751407
##	1896	0.68234318	0.5861469337
##	1897	0.28981596	-0.0340460734
##	1898	0.61507616	0.4798650424
##	1899	1.12051068	1.2784515741
##	1900	0.35377302	0.0670060798
##	1901	1.19154526	1.3906862070
##	1902	0.75911076	0.7074397051
##	1903	0.38049786	0.1092313259
##	1904	0.46120582	0.2367499000
##	1905	0.43079406	0.1886993155
##	1906	0.75553242	0.7017859319
##	1907	0.49740579	0.2939458591
##	1908	0.96580096	1.0340102195
##	1909	0.61706401	0.4830058353
##	1910	0.67076952	0.5678605383
##	1911	0.30294764	-0.0132980204
##	1912	0.73514090	0.6695673178
##	1913	0.36498133	0.0847152051
##	1914	0.62991395	0.5033087456
##	1915	0.93843107	0.9907657981
##	1916	0.73284839	0.6659451597
##	1917	0.30263953	-0.0137848438
##	1918	0.60210611	0.4593723537
##	1919	1.35313332	1.6459953559
##	1920	0.84876687	0.8490963568
##	1921	0.30782593	1.1627402003
##	1922	0.63852414	1.6852433713
##	1923	1.07345367	2.3724320325
##	1924	0.53721074	1.5251682097
##	1925	0.64535246	1.6960321293
##	1928	0.22867257	1.0376778929
##	1929	0.77798138	1.9055858190
##	1930	0.51445588	1.4892155330
##	1931	0.53125821	1.5157632106
##	1932	0.36042467	1.2458462083
##	1933	0.52579805	1.5071361534
##	1934	0.61551229	1.6488846463
##	1935	0.40602305	1.3178916551
##	1938	0.32972486	1.1973405088

##	1939	0.36892979	1.2592843044
##	1940	0.81388893	1.9623197381
##	1941	0.91157682	2.1166666148
##	1942	0.68355048	1.7563849990
##	1943	0.68513454	1.7588878036
##	1944	1.44148297	2.9539183247
##	1945	0.68070467	1.7518886159
##	1948	0.95557201	2.1861790153
##	1949	0.56458609	1.5684212566
##	1950	0.84334816	2.0088653281
##	1951	0.37082624	1.2622806994
##	1952	0.45481201	1.3949782065
##	1953	0.55360885	1.5510772204
##	1954	0.68912458	1.7651920635
##	1955	0.63800733	1.6844268171
##	1958	0.50570899	1.4753954456
##	1959	0.56872928	1.5749674998
##	1960	1.28249562	2.7027183143
##	1961	0.31437123	1.1730817792
##	1962	0.45527558	1.3957106495
##	1963	0.32548569	1.1906426295
##	1964	0.39348477	1.2980811643
##	1965	0.43979321	1.3712485021
##	1968	0.41550540	1.3328737683
##	1969	0.32927445	1.1966288703
##	1970	0.59661493	1.6190268182
##	1971	0.71779794	1.8104959785
##	1972	0.45842285	1.4006833438
##	1973	0.52508057	1.5060025301
##	1974	0.67095059	1.7364771607
##	1975	0.62906685	1.6703008542
##	1978	0.49977499	1.4660197178
##	1979	0.69346159	1.7720445436
##	1980	0.73933513	1.8445247382
##	1981	0.40445636	1.3154162830
##	1982	0.74721569	1.8569760211
##	1983	0.60488226	1.6320892117
##	1984	1.46969705	2.9984965707
##	1985	0.80538734	1.9488872357
##	1988	0.47110428	1.4207199909
##	1989	0.57453525	1.5841409331
##	1990	1.03744782	2.3155427858
##	1991	0.77008330	1.8931068531
##	1992	1.02969959	2.3033005822
##	1993	0.52149601	1.5003389279
##	1994	0.44314062	1.3765374082
##	1995	0.85042918	2.0200533422
##	1998	0.48276852	1.4391494898
##	1999	0.73102513	1.8313949344
##	2000	0.87087006	2.0523499273
##	2001	0.28062830	1.1197679529
##	2002	0.67830124	1.7480911909
##	2003	0.65062898	1.7043690196
##	2004	0.44326766	1.3767381413

##	2005	0.66583878	1.7284005068
##	2008	0.36620494	1.2549790456
##	2009	0.66940618	1.7340370038
##	2010	0.49923708	1.4651698144
##	2011	0.33135541	1.1999167821
##	2012	0.97549851	2.2176628839
##	2013	0.90649358	2.1086350969
##	2014	0.75013299	1.8615853587
##	2015	0.98022217	2.2251262615
##	2018	0.50774665	1.4786149391
##	2019	0.44724253	1.3830184367
##	2020	0.68332058	1.7560217487
##	2021	0.63940307	1.6866320865
##	2022	0.50599887	1.4758534460
##	2023	0.46243806	1.4070273745
##	2024	0.73190451	1.8327843612
##	2025	0.76728520	1.8886858517
##	2028	0.74185974	1.8485136266
##	2029	1.37257088	2.8450372221
##	2030	0.60056308	1.6252648941
##	2031	0.55001924	1.5454056373
##	2032	0.64764911	1.6996608300
##	2033	0.69023599	1.7669481045
##	2034	0.37508879	1.2690155262
##	2035	0.60627327	1.6342869943
##	2038	0.39461906	1.2998733509
##	2039	0.74126388	1.8475721715
##	2040	0.53445410	1.5208127100
##	2041	0.48783826	1.4471596927
##	2042	0.60889770	1.6384335943
##	2043	0.42125008	1.3419503624
##	2044	0.65361283	1.7090835102
##	2045	0.76931191	1.8918880603
##	2048	0.74748617	1.8574033883
##	2049	0.64887007	1.7015899488
##	2050	0.61289322	1.6447465161
##	2051	0.54297556	1.5342766206
##	2052	0.61439473	1.6471189059
##	2053	1.67823198	3.3279817685
##	2054	0.81596289	1.9655965979
##	2055	0.74692807	1.8565215801
##	2058	0.48609908	1.4444117791
##	2059	0.86800500	2.0478231275
##	2060	0.52414938	1.5045312525
##	2061	1.06381443	2.3572020303
##	2062	0.48830577	1.4478983541
##	2063	1.28499148	2.7066617770
##	2064	0.45512819	1.3954777695
##	2065	0.72015297	1.8142169309
##	2068	0.70670311	1.7929661412
##	2069	0.95609361	2.1870031358
##	2070	0.38250101	1.2807268236
##	2071	0.67559651	1.7438177247
##	2072	0.59103348	1.6102081406

##	2073	1.70641044	3.3725037269
##	2074	1.05231861	2.3390386376
##	2075	0.44156629	1.3740499765
##	2078	0.35982648	1.2449010686
##	2079	1.14793837	2.4901178639
##	2080	0.59805848	1.6213076385
##	2081	0.63232108	1.6754425361
##	2082	0.50706982	1.4775455451
##	2083	0.49351041	1.4561216819
##	2084	0.86492695	2.0429598150
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##	2088	0.50195980	1.4694717148
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##	2090	0.89939937	2.0974262343
##	2091	0.93487479	2.1534774053
##	2092	0.72309163	1.8188600170
##	2093	0.63578386	1.6809137328
##	2094	0.28603826	1.1283156868
##	2095	0.52584834	1.5072156160
##	2098	0.95851137	2.1908232020
##	2099	0.89316700	2.0875791003
##	2100	0.39637162	1.3026423894
##	2101	0.34841614	1.2268727356
##	2102	0.69406023	1.7729903961
##	2103	1.49161792	3.0331315445
##	2104	0.65730225	1.7149127921
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##	2108	0.46030743	1.4036609797
##	2109	0.50322188	1.4714658103
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##	2112	0.44151635	1.3739710739
##	2113	0.50868484	1.4800972834
##	2114	0.68744639	1.7625405367
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##	2118	1.12953449	2.4610397287
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##	2120	0.65189591	1.7063707764
##	2121	0.40158740	1.3108833292
##	2122	0.76033173	1.8776993721
##	2123	1.03709434	2.3149842855
##	2124	0.40891988	1.3224686457
##	2125	0.47947718	1.4339491864
##	2128	0.81139031	1.9583719297
##	2129	1.02529413	2.2963399550
##	2130	0.56135938	1.5633230611
##	2131	0.59853830	1.6220657450
##	2132	0.53984949	1.5293374293
##	2133	0.59055880	1.6094581448
##	2134	0.70740762	1.7940792677
##	2135	0.71787120	1.8106117336
##	2138	0.43608832	1.3653947770
##	2139	0.70698606	1.7934132164
##	2140	0.61088768	1.6415777751

##	2141	0.48571855	1.4438105428
##	2142	0.71492073	1.8059499841
##	2143	0.44131235	1.3736487519
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##	2150	0.35124942	1.2313493183
##	2151	0.59522192	1.6168258732
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##	2154	1.08627434	2.3926886942
##	2155	0.73848891	1.8431877083
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##	2159	0.35767478	1.2415013948
##	2160	0.43238797	1.3595482211
##	2161	0.51113104	1.1317600689
##	2162	1.29460325	2.3696461515
##	2163	0.46478566	1.0585343603
##	2164	0.46572391	1.0600167950
##	2165	1.41653356	2.5622960400
##	2167	0.47452153	1.0739170421
##	2169	0.88059708	1.7155164120
##	2170	0.44531623	1.0277726555
##	2171	0.47336452	1.0720889657
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##	2175	0.76060653	1.5259313309
##	2177	1.16097412	2.1585121288
##	2179	0.99459107	1.8956269132
##	2180	0.57409476	1.2312427324
##	2181	0.45894462	1.0493055169
##	2182	0.64489755	1.3431111440
##	2183	0.51479930	1.1375559088
##	2184	0.96415363	1.8475357605
##	2185	0.58958347	1.2557148976
##	2187	0.62348167	1.3092740521
##	2189	0.54383621	1.1834342242
##	2190	0.71642169	1.4561192836
##	2191	0.61239702	1.2917603126
##	2192	0.35485798	0.8848486200
##	2193	0.86987281	1.6985720594
##	2194	0.72801963	1.4744440332
##	2195	1.48779274	2.6748855531
##	2197	0.63407284	1.3260081006
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##	2200	0.48311966	1.0875020793
##	2201	0.47872185	1.0805535351
##	2202	0.37935092	0.9235474781
##	2203	0.49702896	1.1094787753
##	2204	0.46078093	1.0522068796
##	2205	0.42327813	0.9929524675
##	2207	0.46930552	1.0656757416

##	2209	0.99669396	1.8989494704
##	2210	0.68087598	1.3999570716
##	2211	0.35111408	0.8789332682
##	2212	0.65824440	1.3641991646
##	2213	0.62657213	1.3141569903
##	2214	0.89376333	1.7363190795
##	2215	0.56331691	1.2142137322
##	2217	0.57988776	1.2403956779
##	2219	0.86800454	1.6956201931
##	2220	0.36666248	0.9034997316
##	2221	0.57767116	1.2368934515
##	2222	0.63859249	1.3331491544
##	2223	0.47432287	1.0736031519
##	2224	0.64579547	1.3445298594
##	2225	0.56790219	1.2214584848
##	2227	0.45947636	1.0501456641
##	2229	0.73058357	1.4784950523
##	2230	0.43028795	1.0040279758
##	2231	0.60466271	1.2795401054
##	2232	1.58304403	2.8253825836
##	2233	0.68872859	1.4123641871
##	2234	0.42529251	0.9961351875
##	2235	0.61831450	1.3011099258
##	2237	0.75014576	1.5094033208
##	2239	0.37939040	0.9236098501
##	2240	0.36459487	0.9002329170
##	2241	0.45998871	1.0509551726
##	2242	0.53095586	1.1630832807
##	2243	0.43771161	1.0157573671
##	2244	0.75871221	1.5229383117
##	2245	0.32129174	0.8318139596
##	2247	1.20071035	2.2212953701
##	2249	0.85966260	1.6824399293
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##	2251	0.52218128	1.1492194368
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##	2259	0.76225748	1.5285398434
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##	2263	0.94142254	1.8116206315
##	2264	0.48138647	1.0847636446
##	2265	0.35397128	0.8834476351
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##	2269	0.69726993	1.4258595108
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##	2271	1.34499585	2.4492664611
##	2272	0.81592824	1.6133396372
##	2273	0.34443455	0.8683795999
##	2274	1.04238249	1.9711373470

##	2275	0.81920293	1.6185136529
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##	2279	0.88015315	1.7148149983
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##	2281	0.58344323	1.2460133141
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##	2284	0.52302631	1.1505545859
##	2285	0.98666449	1.8831029087
##	2287	0.84252365	1.6553603862
##	2289	0.62522562	1.3120294997
##	2290	0.71990803	1.4616277050
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##	2292	0.74940230	1.5082286529
##	2293	0.71133176	1.4480771968
##	2294	0.73564198	1.4864873386
##	2295	0.59670577	1.2669681272
##	2297	0.53091347	1.1630163082
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##	2300	0.46176998	1.0537695937
##	2301	0.70533758	1.4386063932
##	2302	0.54713841	1.1886517056
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##	2304	0.48811677	1.0953975168
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##	2307	0.55702995	1.2042803384
##	2309	0.68320346	1.4036344904
##	2310	0.39318759	0.9454094022
##	2311	0.52736269	1.1574060628
##	2312	0.31147650	0.8163058818
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##	2314	0.38659311	0.9349901324
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##	2333	0.90363438	1.7519153353
##	2334	0.38100761	0.9261650355
##	2335	0.44226877	1.0229576796
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##	2339	0.68342760	1.4039886232
##	2340	0.42605789	0.9973444885
##	2341	0.60999110	1.2879589554
##	2342	0.38795623	0.9371438638

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## 2343 0.65605344 1.3607374523
## 2344 0.77439127 1.5477112239
## 2345 1.54229537 2.7609996963
## 2347 0.50287321 1.1187126919
## 2349 0.95926289 1.8398083842
## 2350 0.53905784 1.1758844094
## 2351 0.54828892 1.1904695129
## 2352 0.81254524 1.6079944994
## 2353 0.65222390 1.3546867771
## 2354 1.75209258 3.0924792879
## 2355 0.65880550 1.3650857123
## 2357 0.43358630 1.0092393781
## 2359 1.06944411 2.0138947107
## 2360 0.96760291 1.8529856114
## 2361 0.69280432 1.4188038391
## 2362 0.24982157 0.7188910986
## 2363 0.44651618 1.0296685884
## 2364 1.58273662 2.8248968778
## 2365 0.42477553 0.9953183551
## 2367 0.55323033 1.1982769388
## 2369 0.58643240 1.2507362176
## 2370 0.69534042 1.4228108788
## 2371 0.40571530 0.9652031977
## 2372 0.46493841 1.0587757135
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2377 0.60362077 1.2778938308
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2387 0.70842425 1.4434833366
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2397 0.31027572 0.8144086632
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
```

```
data[data$age >20, c("group","RT_day1")] # gives us specific columns
```

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## 1      2 0.60761494
## 2      2 0.70900369
## 3      2 0.62320134
## 4      2 0.68807593
## 6      2 0.40986839
```

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## 14	2	0.64211892
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## 17	2	0.61122270
## 19	2	0.38717101
## 20	2	0.62645332
## 21	2	0.32772079
## 22	2	0.45575074
## 23	2	0.40837268
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## 27	2	0.36358039
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## 30	2	0.76446834
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## 40	2	0.32363422
## 41	2	0.47646070
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## 43	2	0.68535150
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## 83	2	0.78170110
## 84	2	0.74014709
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## 87	2	0.54724735
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## 94	2	0.45796969
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## 1887	1	0.50611987
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## 1889	1	1.08875214
## 1890	1	0.50777878
## 1891	1	0.59042451
## 1892	1	0.64631389
## 1893	1	0.62750473
## 1894	1	0.38856081
## 1895	1	0.40356357
## 1896	1	0.68234318
## 1897	1	0.28981596
## 1898	1	0.61507616
## 1899	1	1.12051068
## 1900	1	0.35377302
## 1901	1	1.19154526
## 1902	1	0.75911076
## 1903	1	0.38049786
## 1904	1	0.46120582
## 1905	1	0.43079406
## 1906	1	0.75553242
## 1907	1	0.49740579
## 1908	1	0.96580096
## 1909	1	0.61706401
## 1910	1	0.67076952
## 1911	1	0.30294764
## 1912	1	0.73514090
## 1913	1	0.36498133
## 1914	1	0.62991395
## 1915	1	0.93843107
## 1916	1	0.73284839
## 1917	1	0.30263953
## 1918	1	0.60210611
## 1919	1	1.35313332
## 1920	1	0.84876687
## 1921	2	0.30782593
## 1922	2	0.63852414
## 1923	2	1.07345367
## 1924	2	0.53721074
## 1925	2	0.64535246

## 1928	2	0.22867257
## 1929	2	0.77798138
## 1930	2	0.51445588
## 1931	2	0.53125821
## 1932	2	0.36042467
## 1933	2	0.52579805
## 1934	2	0.61551229
## 1935	2	0.40602305
## 1938	2	0.32972486
## 1939	2	0.36892979
## 1940	2	0.81388893
## 1941	2	0.91157682
## 1942	2	0.68355048
## 1943	2	0.68513454
## 1944	2	1.44148297
## 1945	2	0.68070467
## 1948	2	0.95557201
## 1949	2	0.56458609
## 1950	2	0.84334816
## 1951	2	0.37082624
## 1952	2	0.45481201
## 1953	2	0.55360885
## 1954	2	0.68912458
## 1955	2	0.63800733
## 1958	2	0.50570899
## 1959	2	0.56872928
## 1960	2	1.28249562
## 1961	2	0.31437123
## 1962	2	0.45527558
## 1963	2	0.32548569
## 1964	2	0.39348477
## 1965	2	0.43979321
## 1968	2	0.41550540
## 1969	2	0.32927445
## 1970	2	0.59661493
## 1971	2	0.71779794
## 1972	2	0.45842285
## 1973	2	0.52508057
## 1974	2	0.67095059
## 1975	2	0.62906685
## 1978	2	0.49977499
## 1979	2	0.69346159
## 1980	2	0.73933513
## 1981	2	0.40445636
## 1982	2	0.74721569
## 1983	2	0.60488226
## 1984	2	1.46969705
## 1985	2	0.80538734
## 1988	2	0.47110428
## 1989	2	0.57453525
## 1990	2	1.03744782
## 1991	2	0.77008330
## 1992	2	1.02969959
## 1993	2	0.52149601

## 1994	2	0.44314062
## 1995	2	0.85042918
## 1998	2	0.48276852
## 1999	2	0.73102513
## 2000	2	0.87087006
## 2001	2	0.28062830
## 2002	2	0.67830124
## 2003	2	0.65062898
## 2004	2	0.44326766
## 2005	2	0.66583878
## 2008	2	0.36620494
## 2009	2	0.66940618
## 2010	2	0.49923708
## 2011	2	0.33135541
## 2012	2	0.97549851
## 2013	2	0.90649358
## 2014	2	0.75013299
## 2015	2	0.98022217
## 2018	2	0.50774665
## 2019	2	0.44724253
## 2020	2	0.68332058
## 2021	2	0.63940307
## 2022	2	0.50599887
## 2023	2	0.46243806
## 2024	2	0.73190451
## 2025	2	0.76728520
## 2028	2	0.74185974
## 2029	2	1.37257088
## 2030	2	0.60056308
## 2031	2	0.55001924
## 2032	2	0.64764911
## 2033	2	0.69023599
## 2034	2	0.37508879
## 2035	2	0.60627327
## 2038	2	0.39461906
## 2039	2	0.74126388
## 2040	2	0.53445410
## 2041	2	0.48783826
## 2042	2	0.60889770
## 2043	2	0.42125008
## 2044	2	0.65361283
## 2045	2	0.76931191
## 2048	2	0.74748617
## 2049	2	0.64887007
## 2050	2	0.61289322
## 2051	2	0.54297556
## 2052	2	0.61439473
## 2053	2	1.67823198
## 2054	2	0.81596289
## 2055	2	0.74692807
## 2058	2	0.48609908
## 2059	2	0.86800500
## 2060	2	0.52414938
## 2061	2	1.06381443

## 2062	2	0.48830577
## 2063	2	1.28499148
## 2064	2	0.45512819
## 2065	2	0.72015297
## 2068	2	0.70670311
## 2069	2	0.95609361
## 2070	2	0.38250101
## 2071	2	0.67559651
## 2072	2	0.59103348
## 2073	2	1.70641044
## 2074	2	1.05231861
## 2075	2	0.44156629
## 2078	2	0.35982648
## 2079	2	1.14793837
## 2080	2	0.59805848
## 2081	2	0.63232108
## 2082	2	0.50706982
## 2083	2	0.49351041
## 2084	2	0.86492695
## 2085	2	1.17020240
## 2088	2	0.50195980
## 2089	2	1.17731699
## 2090	2	0.89939937
## 2091	2	0.93487479
## 2092	2	0.72309163
## 2093	2	0.63578386
## 2094	2	0.28603826
## 2095	2	0.52584834
## 2098	2	0.95851137
## 2099	2	0.89316700
## 2100	2	0.39637162
## 2101	2	0.34841614
## 2102	2	0.69406023
## 2103	2	1.49161792
## 2104	2	0.65730225
## 2105	2	0.87261372
## 2108	2	0.46030743
## 2109	2	0.50322188
## 2110	2	0.40464564
## 2111	2	0.39543316
## 2112	2	0.44151635
## 2113	2	0.50868484
## 2114	2	0.68744639
## 2115	2	0.32631095
## 2118	2	1.12953449
## 2119	2	0.99680815
## 2120	2	0.65189591
## 2121	2	0.40158740
## 2122	2	0.76033173
## 2123	2	1.03709434
## 2124	2	0.40891988
## 2125	2	0.47947718
## 2128	2	0.81139031
## 2129	2	1.02529413

## 2130	2	0.56135938
## 2131	2	0.59853830
## 2132	2	0.53984949
## 2133	2	0.59055880
## 2134	2	0.70740762
## 2135	2	0.71787120
## 2138	2	0.43608832
## 2139	2	0.70698606
## 2140	2	0.61088768
## 2141	2	0.48571855
## 2142	2	0.71492073
## 2143	2	0.44131235
## 2144	2	0.67385894
## 2145	2	0.67619848
## 2148	2	0.69694211
## 2149	2	1.21761798
## 2150	2	0.35124942
## 2151	2	0.59522192
## 2152	2	0.67366104
## 2153	2	0.85135245
## 2154	2	1.08627434
## 2155	2	0.73848891
## 2158	2	0.36613376
## 2159	2	0.35767478
## 2160	2	0.43238797
## 2161	1	0.51113104
## 2162	1	1.29460325
## 2163	1	0.46478566
## 2164	1	0.46572391
## 2165	1	1.41653356
## 2167	1	0.47452153
## 2169	1	0.88059708
## 2170	1	0.44531623
## 2171	1	0.47336452
## 2172	1	0.59741696
## 2173	1	1.44317421
## 2174	1	1.76789091
## 2175	1	0.76060653
## 2177	1	1.16097412
## 2179	1	0.99459107
## 2180	1	0.57409476
## 2181	1	0.45894462
## 2182	1	0.64489755
## 2183	1	0.51479930
## 2184	1	0.96415363
## 2185	1	0.58958347
## 2187	1	0.62348167
## 2189	1	0.54383621
## 2190	1	0.71642169
## 2191	1	0.61239702
## 2192	1	0.35485798
## 2193	1	0.86987281
## 2194	1	0.72801963
## 2195	1	1.48779274

## 2197	1	0.63407284
## 2199	1	0.58601955
## 2200	1	0.48311966
## 2201	1	0.47872185
## 2202	1	0.37935092
## 2203	1	0.49702896
## 2204	1	0.46078093
## 2205	1	0.42327813
## 2207	1	0.46930552
## 2209	1	0.99669396
## 2210	1	0.68087598
## 2211	1	0.35111408
## 2212	1	0.65824440
## 2213	1	0.62657213
## 2214	1	0.89376333
## 2215	1	0.56331691
## 2217	1	0.57988776
## 2219	1	0.86800454
## 2220	1	0.36666248
## 2221	1	0.57767116
## 2222	1	0.63859249
## 2223	1	0.47432287
## 2224	1	0.64579547
## 2225	1	0.56790219
## 2227	1	0.45947636
## 2229	1	0.73058357
## 2230	1	0.43028795
## 2231	1	0.60466271
## 2232	1	1.58304403
## 2233	1	0.68872859
## 2234	1	0.42529251
## 2235	1	0.61831450
## 2237	1	0.75014576
## 2239	1	0.37939040
## 2240	1	0.36459487
## 2241	1	0.45998871
## 2242	1	0.53095586
## 2243	1	0.43771161
## 2244	1	0.75871221
## 2245	1	0.32129174
## 2247	1	1.20071035
## 2249	1	0.85966260
## 2250	1	0.39653523
## 2251	1	0.52218128
## 2252	1	0.60330406
## 2253	1	0.83007204
## 2254	1	1.18709335
## 2255	1	0.50941956
## 2257	1	0.47414117
## 2259	1	0.76225748
## 2260	1	0.99324759
## 2261	1	0.49136307
## 2262	1	0.34753505
## 2263	1	0.94142254

## 2264	1	0.48138647
## 2265	1	0.35397128
## 2267	1	0.82568130
## 2269	1	0.69726993
## 2270	1	0.61045203
## 2271	1	1.34499585
## 2272	1	0.81592824
## 2273	1	0.34443455
## 2274	1	1.04238249
## 2275	1	0.81920293
## 2277	1	0.57596227
## 2279	1	0.88015315
## 2280	1	0.36571111
## 2281	1	0.58344323
## 2282	1	0.49966408
## 2283	1	0.77560407
## 2284	1	0.52302631
## 2285	1	0.98666449
## 2287	1	0.84252365
## 2289	1	0.62522562
## 2290	1	0.71990803
## 2291	1	0.50085443
## 2292	1	0.74940230
## 2293	1	0.71133176
## 2294	1	0.73564198
## 2295	1	0.59670577
## 2297	1	0.53091347
## 2299	1	0.69337833
## 2300	1	0.46176998
## 2301	1	0.70533758
## 2302	1	0.54713841
## 2303	1	0.38570986
## 2304	1	0.48811677
## 2305	1	0.47276286
## 2307	1	0.55702995
## 2309	1	0.68320346
## 2310	1	0.39318759
## 2311	1	0.52736269
## 2312	1	0.31147650
## 2313	1	1.25934941
## 2314	1	0.38659311
## 2315	1	0.85446617
## 2317	1	0.83250087
## 2319	1	0.53545460
## 2320	1	0.38833957
## 2321	1	0.44479395
## 2322	1	1.37090070
## 2323	1	0.37671428
## 2324	1	0.39447399
## 2325	1	0.50812493
## 2327	1	0.94745842
## 2329	1	0.96972001
## 2330	1	0.49111991
## 2331	1	0.66498583

## 2332	1	0.68160095
## 2333	1	0.90363438
## 2334	1	0.38100761
## 2335	1	0.44226877
## 2337	1	0.76251300
## 2339	1	0.68342760
## 2340	1	0.42605789
## 2341	1	0.60999110
## 2342	1	0.38795623
## 2343	1	0.65605344
## 2344	1	0.77439127
## 2345	1	1.54229537
## 2347	1	0.50287321
## 2349	1	0.95926289
## 2350	1	0.53905784
## 2351	1	0.54828892
## 2352	1	0.81254524
## 2353	1	0.65222390
## 2354	1	1.75209258
## 2355	1	0.65880550
## 2357	1	0.43358630
## 2359	1	1.06944411
## 2360	1	0.96760291
## 2361	1	0.69280432
## 2362	1	0.24982157
## 2363	1	0.44651618
## 2364	1	1.58273662
## 2365	1	0.42477553
## 2367	1	0.55323033
## 2369	1	0.58643240
## 2370	1	0.69534042
## 2371	1	0.40571530
## 2372	1	0.46493841
## 2373	1	0.95396563
## 2374	1	0.50450592
## 2375	1	0.42330183
## 2377	1	0.60362077
## 2379	1	0.78445137
## 2380	1	0.49066385
## 2381	1	1.26998464
## 2382	1	0.36166236
## 2383	1	0.77045459
## 2384	1	0.47609766
## 2385	1	1.26294397
## 2387	1	0.70842425
## 2389	1	0.45364841
## 2390	1	0.30841245
## 2391	1	0.28810241
## 2392	1	0.64001497
## 2393	1	0.76296797
## 2394	1	1.05022510
## 2395	1	0.49348410
## 2397	1	0.31027572
## 2399	1	0.69693303

```
## 2400      1  0.69668660
```

```
# ----- Handling Missing Values -----
```

```
# We can use na.omit (type ?na.omit for help in the console)
```

```
na.omit( data[data$age >20 & data$age <40, c("RT_day1", "RT_day2")] ) # gives us specific columns
```

##	RT_day1	RT_day2
## 1	0.60761494	1.5589454195
## 2	0.70900369	1.7191396404
## 3	0.62320134	1.5835719316
## 4	0.68807593	1.6860737827
## 7	0.73163809	1.7549019885
## 10	0.56936275	1.4985069465
## 11	0.34670307	1.1467046633
## 12	0.74287703	1.7726595103
## 13	0.99696099	2.1741121766
## 14	0.64211892	1.6134617047
## 17	0.61122270	1.5646456801
## 20	0.62645332	1.5887100617
## 21	0.32772079	1.1167126619
## 22	0.45575074	1.3189999772
## 23	0.40837268	1.2441426473
## 24	0.57411528	1.5060159553
## 27	0.36358039	1.1733708290
## 30	0.76446834	1.8067737785
## 31	0.35769718	1.1640753480
## 32	0.61056975	1.5636140085
## 33	0.32598242	1.1139660340
## 34	0.40429136	1.2376941601
## 37	0.40056035	1.2317991609
## 40	0.32363422	1.1102558802
## 41	0.47646070	1.3517217134
## 42	0.50021394	1.3892518344
## 43	0.68535150	1.6817691861
## 44	0.59257262	1.5351785431
## 47	0.64412268	1.6166276401
## 50	0.55690563	1.4788247098
## 51	0.91136229	2.0388662202
## 52	0.59601853	1.5406230815
## 53	0.88381531	1.9953419993
## 54	0.33516935	1.1284813785
## 57	0.44563960	1.3030243721
## 60	0.64126427	1.6121113586
## 61	0.31206546	1.0919772359
## 62	1.60844131	3.1402510855
## 63	0.80519583	1.8711232201
## 64	0.61222325	1.5662265387
## 67	0.55528581	1.4762653837
## 70	0.33580444	1.1294848322
## 71	0.47120274	1.3434141424
## 72	1.03017111	2.2265841688
## 73	0.70383567	1.7109741745
## 74	0.51632451	1.4147065329
## 77	0.38395864	1.2055684670
## 80	0.74990464	1.7837631469

## 81	0.48514436	1.3654418982
## 82	0.48445951	1.3643598318
## 83	0.78170110	1.8340015446
## 84	0.74014709	1.7683462045
## 87	0.54724735	1.4635646178
## 90	0.39016608	1.2153762228
## 91	0.46619914	1.3355084433
## 92	0.40972001	1.2462714239
## 93	0.33650154	1.1305862373
## 94	0.45796969	1.3225059167
## 97	0.79565802	1.8560534858
## 100	0.47998040	1.3572828435
## 101	0.43944308	1.2932338710
## 102	0.42419415	1.2691405658
## 103	0.43642871	1.2884711684
## 104	0.41844475	1.2600565080
## 107	0.53437471	1.4432258539
## 110	0.72597508	1.7459544368
## 111	0.57644165	1.5096916125
## 112	1.29737027	2.6487588306
## 113	0.83299002	1.9150380438
## 114	0.54266148	1.4563189410
## 117	0.19309507	0.9040040253
## 120	0.36206543	1.1709771807
## 121	0.33820104	1.1332714551
## 122	0.67042765	1.6581894901
## 123	1.02164258	2.2131090809
## 124	0.52758952	1.4325052572
## 127	0.74215682	1.7715215808
## 130	0.38020543	1.1996383893
## 131	0.33175081	1.1230800892
## 132	0.56864132	1.4973670980
## 133	0.83444564	1.9173379208
## 134	0.51721145	1.4161079035
## 137	0.84721448	1.9375126879
## 140	0.46178912	1.3285406229
## 141	0.59419390	1.5377401729
## 142	0.32322107	1.1096031028
## 143	0.67568072	1.6664893457
## 144	0.44671370	1.3047214584
## 147	0.40768154	1.2430506427
## 150	0.55291409	1.4725180652
## 151	1.01542119	2.2032792939
## 152	0.66699475	1.6527655116
## 153	0.45711318	1.3211526307
## 154	1.03947212	2.2412797648
## 157	0.47707108	1.3526861221
## 160	0.55793242	1.4804470402
## 161	0.93767716	2.0804437227
## 162	0.42939375	1.2773559265
## 163	0.52672548	1.4311400677
## 164	0.43459181	1.2855688682
## 167	0.53567646	1.4452826108
## 170	0.85511292	1.9499922220

## 171	0.74119384	1.7700000784
## 172	0.96420214	2.1223531887
## 173	0.46905760	1.3400248249
## 174	0.87989096	1.9891415313
## 177	0.63930468	1.6090152036
## 180	0.33061418	1.1212842121
## 181	0.83658215	1.9207136106
## 182	0.92272783	2.0568237842
## 183	0.56672622	1.4943412297
## 184	0.56624884	1.4935869821
## 187	0.66725426	1.6531755364
## 190	0.49615722	1.3828422154
## 191	0.58684541	1.5261295509
## 192	1.42471140	2.8499578290
## 193	0.53585485	1.4455644775
## 194	0.45964960	1.3251601696
## 197	0.90481953	2.0285286646
## 200	0.98323659	2.1524276228
## 201	0.25400504	1.0002417664
## 202	0.27332335	1.0307647055
## 203	0.94922695	2.0986923880
## 204	1.39494001	2.8029190226
## 207	0.54769292	1.4642686170
## 210	0.98192253	2.1503514123
## 211	0.67168643	1.6601783753
## 212	0.69971988	1.7044712201
## 213	0.57476963	1.5070498204
## 214	0.97306356	2.1363542275
## 217	0.72365007	1.7422809188
## 220	0.46708691	1.3369111306
## 221	0.38766487	1.2114243092
## 222	0.50371854	1.3947890969
## 223	0.57038707	1.5001253818
## 224	0.47326978	1.3466800623
## 227	0.41718838	1.2580714571
## 230	0.23243980	0.9661686985
## 231	0.45768140	1.3220504237
## 232	0.36278339	1.1721115593
## 233	0.73789477	1.7647875429
## 234	0.42021498	1.2628534827
## 237	0.52499017	1.4283982844
## 240	0.43607096	1.2879059251
## 241	0.40921431	0.8527308681
## 242	0.38946528	0.8215273998
## 243	1.56539075	2.6794896355
## 244	0.66472770	1.2564420205
## 245	0.64616691	1.2271159690
## 246	0.78062160	1.4395543823
## 247	0.48360374	0.9702661679
## 248	0.38000186	0.8065751852
## 249	0.81742479	1.4977034172
## 250	0.88565980	1.6055147371
## 251	0.78508926	1.4466132817
## 252	1.07131540	1.8988505931

## 253	0.78974393	1.4539676649
## 254	0.91710132	1.6551923433
## 255	0.47348689	0.9542815391
## 256	0.53191311	1.0465949611
## 257	0.63425994	1.2083029583
## 258	0.32076202	0.7129762451
## 259	0.34819245	0.7563163170
## 260	0.66175519	1.2517454569
## 261	0.44253916	0.9053841252
## 262	0.86436746	1.5718728381
## 263	0.45508614	0.9252083599
## 264	0.55077324	1.0763939728
## 265	0.76448938	1.4140654815
## 266	0.42322889	0.8748739073
## 267	0.74778884	1.3876786268
## 268	0.44315970	0.9063645847
## 269	0.82237355	1.5055224702
## 270	0.58070863	1.1236918901
## 271	0.64835767	1.2305773796
## 272	0.36430260	0.7817703597
## 273	0.31517256	0.7041448999
## 274	0.60539987	1.1627040453
## 275	0.65769737	1.2453340954
## 276	0.79343030	1.4597921260
## 277	0.68013169	1.2807803186
## 278	1.00679175	1.7969032153
## 279	1.52565198	2.6167023873
## 280	0.42452874	0.8769276640
## 281	0.40924082	0.8527727453
## 282	0.43423752	0.8922675278
## 283	0.55849642	1.0885965974
## 284	0.42436780	0.8766733852
## 285	0.59520731	1.1465998065
## 286	1.12367626	1.9815807409
## 287	0.50413538	1.0027061525
## 288	0.72268776	1.3480189157
## 289	0.60595022	1.1635735937
## 290	0.67219248	1.2682363647
## 291	0.45708081	0.9283599332
## 292	0.87842594	1.5940852381
## 293	0.56262020	1.0951121699
## 294	0.46192987	0.9360214452
## 295	0.71429661	1.3347608907
## 296	0.48076948	0.9657880242
## 297	0.45492038	0.9249464617
## 298	0.68032951	1.2810928728
## 299	0.47450257	0.9558863204
## 300	0.38498594	0.8144500385
## 301	0.84748151	1.5451930392
## 302	0.47981801	0.9642847072
## 303	0.44795260	0.9139373651
## 304	0.41228021	0.8575749890
## 305	0.63343062	1.2069926308
## 306	0.28396358	0.6548347078

## 307	0.49275413	0.9847237780
## 308	0.53640915	1.0536987070
## 309	0.58598938	1.1320354748
## 310	0.65078862	1.2344182726
## 311	0.78735237	1.4501889908
## 312	0.97515595	1.7469186548
## 313	0.60870818	1.1679311765
## 314	0.94515695	1.6995202396
## 315	0.37260027	0.7948806855
## 316	0.73481533	1.3671804825
## 317	0.68997203	1.2963280645
## 318	0.35889358	0.7732241098
## 319	0.38457303	0.8137976404
## 320	0.64711752	1.2286179340
## 321	0.47774229	0.9610050648
## 322	0.75327394	1.3963450844
## 323	0.70690549	1.3230829206
## 324	0.36485742	0.7826469696
## 325	0.63585864	1.2108288983
## 326	0.76142983	1.4092313827
## 327	0.92105407	1.6614376821
## 328	1.10139356	1.9463740794
## 329	0.28982203	0.6640910630
## 330	0.46610706	0.9426214159
## 331	0.37185904	0.7937095342
## 332	0.37653795	0.8011022093
## 333	1.05002795	1.8652164154
## 334	0.68007611	1.2806925047
## 335	0.61581929	1.1791667326
## 336	0.57703146	1.1178819533
## 337	0.45378298	0.9231493657
## 338	0.34148302	0.7457154225
## 339	1.38830866	2.3996999422
## 340	1.00671690	1.7967849604
## 341	0.37045785	0.7914956549
## 342	1.27697075	2.2237860410
## 343	0.59039530	1.1389968245
## 344	0.44991128	0.9170320737
## 345	0.86449937	1.5720812602
## 346	1.27787582	2.2252160531
## 347	0.72012629	1.3439717893
## 348	0.56012506	1.0911698428
## 349	0.91633155	1.6539761083
## 350	0.57535436	1.1152321354
## 351	0.73330396	1.3647925066
## 352	0.31000766	0.6959843617
## 353	0.87156659	1.5832474634
## 354	0.86162095	1.5675333593
## 355	0.77843698	1.4361026776
## 356	0.59409907	1.1448487890
## 357	1.45469846	2.5045958279
## 358	0.81448884	1.4930646231
## 359	0.70568195	1.3211497421
## 360	0.43170857	0.8882717903

## 361	0.64999740	1.2331681388
## 362	0.70158061	1.3146696208
## 363	0.61349756	1.1754984023
## 364	0.60068921	1.1552612063
## 365	0.75512927	1.3992764923
## 366	0.54630165	1.0693288569
## 367	0.61964353	1.1852090320
## 368	0.59837436	1.1516037472
## 369	0.55164712	1.0777747033
## 370	0.87947431	1.5957416564
## 371	0.57029967	1.1072457309
## 372	0.56276979	1.0953485229
## 373	0.29737576	0.6760259499
## 374	0.33702993	0.7386795504
## 375	0.74269915	1.3796369180
## 376	0.53612783	1.0532542196
## 377	0.40705457	0.8493184669
## 378	0.46393378	0.9391876210
## 379	1.01562420	1.8108584850
## 380	0.57337704	1.1121079725
## 381	0.33751925	0.7394526748
## 382	1.25914782	2.1956258159
## 383	0.63058501	1.2024965622
## 384	0.76820217	1.4199316751
## 385	0.91671883	1.6545879972
## 386	0.86474229	1.5724650765
## 387	0.44821110	0.9143457889
## 388	0.38380448	0.8125833251
## 389	0.51124319	1.0139364859
## 390	0.46260092	0.9370817137
## 391	0.48228951	0.9681896722
## 392	0.56117533	1.0928292796
## 393	0.54969994	1.0746981518
## 394	0.31672162	0.7065924175
## 395	0.43924941	0.9001863267
## 396	0.43612513	0.8952499650
## 397	0.99979162	1.7858430188
## 398	0.51790371	1.0244601126
## 399	0.48148145	0.9669129518
## 400	0.50146083	0.9984803710
## 401	0.75926070	1.4058041584
## 402	0.53080204	1.0448394714
## 403	0.87246177	1.5846618435
## 404	0.47332838	0.9540310877
## 405	0.71141005	1.3302001299
## 406	0.95729757	1.7187024063
## 407	1.04170529	1.8520666144
## 408	0.64000721	1.2173836506
## 409	0.71783111	1.3403454054
## 410	0.90562667	1.6370623916
## 411	0.45268927	0.9214213075
## 412	1.13564817	2.0004963688
## 413	0.98523625	1.7628455319
## 414	0.59846271	1.1517433329

## 415	1.02365143	1.8235415129
## 416	0.36432529	0.7818062178
## 417	0.63485661	1.2092456902
## 418	0.74606215	1.3849504455
## 419	0.49403159	0.9867421711
## 420	0.52689504	1.0386664106
## 421	0.81653279	1.4962940628
## 422	0.40591928	0.8475247229
## 423	0.39971844	0.8377273918
## 424	0.62724278	1.1972158392
## 425	0.50621102	1.0059856673
## 426	0.43876346	0.8994185144
## 427	0.42891258	0.8838541306
## 428	0.91788863	1.6564362954
## 429	0.42167276	0.8724152215
## 430	0.49458407	0.9876150855
## 431	0.76014536	1.4072019201
## 432	0.58225951	1.1261422839
## 433	0.72233318	1.3474586717
## 434	0.66226061	1.2525440227
## 435	0.31700147	0.7070345717
## 436	0.91357220	1.6496163326
## 437	0.49060529	0.9813286153
## 438	1.40863882	2.4318215957
## 439	0.68279076	1.2849816514
## 440	0.90670220	1.6387617299
## 441	0.30130440	0.6822331991
## 442	0.98154009	1.7570055904
## 443	0.36508558	0.7830074687
## 444	0.92810185	1.6725731809
## 445	0.43264668	0.8897540003
## 446	0.19160053	0.5089010881
## 447	0.65020303	1.2334930352
## 448	0.74072869	1.3765235786
## 449	0.35588444	0.7684696645
## 450	0.71110204	1.3297134836
## 451	0.57666568	1.1173040255
## 452	0.37082145	0.7920701523
## 453	0.46192634	0.9360158755
## 454	0.69560396	1.3052265168
## 455	0.70462325	1.3194769834
## 456	0.86059457	1.5659116788
## 457	0.79234559	1.4580782927
## 458	0.70226777	1.3157553323
## 459	0.83353596	1.5231590772
## 460	0.37159619	0.7932942287
## 461	0.52102767	1.0293959745
## 462	1.32256855	2.2958305613
## 463	0.52948813	1.0427634992
## 464	0.69364750	1.3021353084
## 465	0.70968701	1.3274777258
## 466	0.58726298	1.1340477553
## 467	0.48523052	0.9728364789
## 468	0.52891608	1.0418596534

## 469	0.38331819	0.8118149983
## 470	0.44974207	0.9167647275
## 471	0.39749453	0.8342136123
## 472	0.60987370	1.1697727002
## 473	0.88101013	1.5981682532
## 474	0.53091910	1.0450244313
## 475	1.26598725	2.2064321103
## 476	1.21972014	2.1333300720
## 477	0.56051394	1.0917842746
## 478	1.15439609	2.0301180712
## 479	0.67236197	1.2685041594
## 480	0.93579059	1.6847213806
## 481	0.44735519	0.5085513556
## 482	0.50189418	0.5947229449
## 483	0.64745286	0.8247056693
## 484	0.37968901	0.4016387887
## 485	0.44039884	0.4975603177
## 486	0.50785814	0.6041460157
## 488	0.59791173	0.7464306843
## 489	0.92546624	1.2639668058
## 491	0.44027939	0.4973715765
## 492	0.60642743	0.7598854852
## 493	0.94001698	1.2869569779
## 494	1.15845609	1.6320907715
## 495	0.72877116	0.9531885813
## 496	0.50552613	0.6004614286
## 498	0.38946426	0.4170836726
## 499	0.63438678	0.8040612536
## 501	0.53127140	0.6411389666
## 502	0.51539116	0.6160481867
## 503	0.50126132	0.5937230264
## 504	0.58598379	0.7275845400
## 505	0.59130288	0.7359887051
## 506	0.69766859	0.9040465132
## 508	0.91427141	1.2462789767
## 509	0.40401972	0.4400813121
## 511	0.39257522	0.4219989918
## 512	0.66313737	0.8494871902
## 513	0.62578047	0.7904632921
## 514	0.37000089	0.3863315546
## 515	0.56025373	0.6869310460
## 516	0.77821656	1.0313123097
## 518	0.42033311	0.4658564623
## 519	1.37346337	1.9718022652
## 521	0.37592686	0.3956945843
## 522	0.93123026	1.2730739590
## 523	0.64582810	0.8221385455
## 524	0.83556496	1.1219227813
## 525	1.23330952	1.7503591895
## 526	0.79362149	1.0556520973
## 528	0.65294894	0.8333894657
## 529	0.57775411	0.7145816347
## 531	0.53798149	0.6517408997
## 532	0.41767299	0.4616534736

## 533	1.72443428	2.5263363109
## 534	0.34181368	0.3417957683
## 535	0.56171487	0.6892396385
## 536	0.61326604	0.7706904948
## 538	0.62663540	0.7918140780
## 539	0.43880211	0.4950374856
## 541	0.74523284	0.9791980339
## 542	0.47779107	0.5566400322
## 543	1.14362684	1.6086605491
## 544	0.50239402	0.5955127054
## 545	0.66890215	0.8585955520
## 546	0.81376784	1.0874833326
## 548	0.54473615	0.6624132723
## 549	0.67715845	0.8716404911
## 551	1.33014351	1.9033568894
## 552	0.50618014	0.6014947687
## 553	1.97960907	2.9295124814
## 554	0.82516944	1.1054978575
## 555	0.58860933	0.7317328891
## 556	0.70905772	0.9220413487
## 558	0.90776235	1.2359946675
## 559	0.28211377	0.2474698991
## 561	0.83427892	1.1198908445
## 562	0.46162623	0.5310995873
## 563	1.29242294	1.8437583924
## 564	0.50912241	0.6061435514
## 565	0.89397041	1.2142033960
## 566	0.61692060	0.7764647030
## 568	0.45885711	0.5267243836
## 569	0.49311288	0.5808484985
## 571	0.40108908	0.4354508987
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## 573	0.35527379	0.3630627291
## 574	1.01424640	1.4042394577
## 575	0.59414771	0.7404835339
## 576	0.45946412	0.5276834517
## 578	0.43283530	0.4856099259
## 579	0.44297832	0.5016358928
## 581	0.59781757	0.7462819123
## 582	0.53294080	0.6437766193
## 583	0.52944696	0.6382563421
## 584	1.51326759	2.1926929384
## 585	0.36514754	0.3786632661
## 586	1.35330739	1.9399558302
## 588	0.25609070	0.2063534520
## 589	0.75636261	0.9967830681
## 591	0.97126767	1.3363330708
## 592	0.46836413	0.5417454809
## 593	0.35928804	0.3694052535
## 594	0.55557150	0.6795331136
## 595	0.54317764	0.6599508189
## 596	0.63806618	0.8098747128
## 598	0.87991562	1.1919968281
## 599	0.87418178	1.1829373648

## 601	0.39402241	0.4242855579
## 602	1.17392462	1.6565310448
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## 604	0.86091730	1.1619794877
## 605	0.41106882	0.4512188764
## 606	0.88780250	1.2044581047
## 608	0.47577806	0.5534594838
## 609	0.34736809	0.3505717370
## 611	0.89596208	1.2173502421
## 612	0.35411266	0.3612281444
## 613	0.70030157	0.9082066342
## 614	0.60593362	0.7591052739
## 615	0.30265189	0.2799201332
## 616	0.34781451	0.3512770694
## 618	0.34405485	0.3453368151
## 619	0.43032379	0.4816417403
## 621	1.02230704	1.4169752780
## 622	0.50308150	0.5965989100
## 623	0.42693921	0.4762941054
## 624	0.55097008	0.6722628792
## 625	0.77875902	1.0321694049
## 626	0.94832174	1.3000784971
## 628	0.56995957	0.7022662675
## 629	0.35787457	0.3671719642
## 631	0.88718994	1.2034902579
## 632	0.37893029	0.4004400118
## 633	0.35884952	0.3687123900
## 634	0.28069434	0.2452272080
## 635	0.40395177	0.4399739372
## 636	0.55246788	0.6746294045
## 638	0.60018745	0.7500263124
## 639	0.74792839	0.9834569968
## 641	0.58831837	0.7312731706
## 642	0.35185713	0.3576644201
## 643	0.82655372	1.1076850298
## 644	0.70387545	0.9138533639
## 645	0.45862948	0.5263647271
## 646	0.96048033	1.3192890732
## 648	1.03623818	1.4389864676
## 649	0.59314903	0.7389056186
## 651	1.04545731	1.4535526975
## 652	0.46486987	0.5362245385
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## 655	0.62377497	0.7872945959
## 656	0.73737962	0.9667899470
## 658	0.79651735	1.0602275594
## 659	0.36076479	0.3717385141
## 661	0.76626481	1.0124285530
## 662	0.45244342	0.5165907506
## 663	0.82950338	1.1123454855
## 664	0.72642366	0.9494795307
## 665	0.38029194	0.4025914070
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## 668	0.69899227	0.9061379329
## 669	1.09209212	1.5272356926
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## 672	0.58420266	0.7247703507
## 673	0.81587249	1.0908086773
## 674	0.92227086	1.2589181118
## 675	0.89945450	1.2228682612
## 676	0.58373866	0.7240372292
## 678	0.24176544	0.1837195454
## 679	0.25314500	0.2016992531
## 681	0.26265128	0.2167191769
## 682	0.58468404	0.7255309236
## 683	0.74901761	0.9851779663
## 684	0.90895685	1.2378819771
## 685	1.39303355	2.0027231607
## 686	0.43417486	0.4877264298
## 688	0.90947100	1.2386943353
## 689	0.88971827	1.2074850187
## 691	0.48915311	0.5745920544
## 692	0.44367120	0.5027306430
## 693	0.64684720	0.8237487286
## 694	0.31034486	0.2920750300
## 695	0.35008575	0.3548656315
## 696	0.68878857	0.8900160930
## 698	0.37023227	0.3866971273
## 699	0.44597139	0.5063649514
## 701	0.83013401	1.1133418895
## 702	0.79288272	1.0544848487
## 703	0.78270949	1.0384111361
## 704	0.80424358	1.0724350077
## 705	0.64875053	0.8267559778
## 706	1.02080584	1.4146033813
## 708	0.88307416	1.1969873137
## 709	0.26720137	0.2239083185
## 711	0.45506817	0.5207378608
## 712	1.28697940	1.8351575961
## 713	0.51974699	0.6229303877
## 714	1.17362731	1.6560612998
## 715	0.74876300	0.9847756896
## 716	0.47418222	0.5509380545
## 718	0.39887648	0.4319549806
## 719	0.61872700	0.7793188152
## 721	0.67465046	0.5839902820
## 722	0.91627480	0.9657567413
## 723	0.06245571	-0.3832774264
## 724	0.68973064	0.6078169723
## 725	0.46420913	0.2514929766
## 727	0.85594449	0.8704348591
## 728	0.62311266	0.5025605581
## 729	1.14308314	1.3241139120
## 730	0.86749416	0.8886833383
## 731	0.78413029	0.7569684170
## 732	0.26113374	-0.0693661333
## 733	0.43999489	0.2132344814

## 734	0.39972812	0.1496129810
## 735	0.39695005	0.1452236321
## 737	0.42449811	0.1887495662
## 738	0.32034542	0.0241883180
## 739	0.33336776	0.0447636193
## 740	0.48183084	0.2793352918
## 741	0.77128709	0.7366761600
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## 1747	0.80681528	0.7828128419
## 1748	0.62455650	0.4948439801
## 1749	0.88612747	0.9081261109
## 1750	0.50926181	0.3126783670
## 1751	0.53135018	0.3475779855
## 1752	0.75198963	0.6961883162
## 1753	0.56689410	0.4037373889
## 1754	0.59577878	0.4493751706
## 1755	0.42922332	0.1862175566
## 1756	0.57091169	0.4100851740
## 1757	0.29154151	-0.0313197137
## 1758	0.48623035	0.2762886531
## 1759	0.67093176	0.5681168889
## 1760	0.69658441	0.6086480639
## 1761	0.48363224	0.2721836478
## 1762	0.50675121	0.3087116205
## 1763	0.79998468	0.7720204941
## 1764	0.34011580	0.0454276607
## 1765	0.73509045	0.6694876173
## 1766	1.27186498	1.5175913672
## 1767	0.59522668	0.4485028609
## 1768	0.62062579	0.4886334468
## 1769	0.78286953	0.7449785664
## 1770	1.38501332	1.6963657440

## 1771	0.71137947	0.6320242684
## 1772	0.58629406	0.4343893232
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## 1774	0.78576745	0.7495572702
## 1775	0.63481561	0.5110533646
## 1776	1.31194745	1.5809216741
## 1777	0.30499853	-0.0100576131
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## 1779	0.73746035	0.6732320609
## 1780	0.54559892	0.3700910045
## 1781	0.39520474	0.1324681903
## 1782	0.92817781	0.9745656459
## 1783	1.07851948	1.2121054889
## 1784	0.51696206	0.3248447635
## 1785	0.92367398	0.9674495852
## 1786	0.35907378	0.0753812727
## 1787	0.70792443	0.6265653079
## 1788	0.66957902	0.5659795628
## 1789	0.46527304	0.2431761038
## 1790	0.78148205	0.7427863477
## 1791	0.44502557	0.2111851118
## 1792	0.84657771	0.8456374828
## 1793	0.41892666	0.1699488236
## 1794	1.02094526	1.1211382150
## 1795	0.42307953	0.1765103588
## 1796	0.61943532	0.4867525126
## 1797	0.62163848	0.4902334957
## 1798	0.59642444	0.4503953152
## 1799	1.80288704	2.3566062248
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## 1801	0.48287831	0.2709924398
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## 1804	1.07577184	1.2077642123
## 1805	0.40957274	0.1551696366
## 1806	0.44793831	0.2157872389
## 1807	0.44099147	0.2048112229
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## 1810	0.55202444	0.3802433107
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## 1815	0.56258853	0.3969345853
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## 1817	0.47750938	0.2625095285
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## 1819	0.88290178	0.9030295135
## 1820	0.33482427	0.0370670498
## 1821	0.58579670	0.4336034846
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## 1823	0.77207864	0.7279289527
## 1824	0.43610554	0.1970914571

## 1825	0.36872925	0.0906369120
## 1826	0.36688473	0.0877225758
## 1827	0.56318863	0.3978827427
## 1828	1.17551292	1.3653551186
## 1829	0.66599329	0.5603140954
## 1830	0.66354040	0.5564385387
## 1831	0.53945252	0.3603796903
## 1832	0.52842753	0.3429601999
## 1833	0.89147031	0.9165677992
## 1834	0.53455020	0.3526340267
## 1835	0.71010932	0.6300174345
## 1836	0.86381763	0.8728765523
## 1837	0.68786720	0.5948748849
## 1838	0.48643719	0.2766154660
## 1839	0.85655877	0.8614075620
## 1840	0.71769976	0.6420103245
## 1841	0.31153162	0.0002646671
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## 1847	0.93275774	0.9818019272
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## 1850	0.80667876	0.7825971386
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## 1858	0.55824557	0.3900727105
## 1859	0.39554888	0.1330119305
## 1860	0.97391433	1.0468293369
## 1861	0.85946053	0.8659923360
## 1862	0.58055985	0.4253292684
## 1863	0.53987832	0.3610524561
## 1864	0.55287314	0.3815842693
## 1865	0.70045655	0.6147660536
## 1866	0.44463014	0.2105603185
## 1867	0.45424783	0.2257562688
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## 1869	0.70088223	0.6154386306
## 1870	0.45596136	0.2284636556
## 1871	0.51731936	0.3254092934
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## 1874	0.51690971	0.3247620403
## 1875	0.35787909	0.0734936670
## 1876	0.62642039	0.4977889198
## 1877	0.90485939	0.9377225445
## 1878	0.54011916	0.3614329705

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## 1879 0.24500598 -0.1048458411
## 1880 0.27680829 -0.0545982020
## 1881 0.59780823 0.4525817134
## 1882 0.32131601 0.0157240052
## 1883 0.33194804 0.0325226088
## 1884 0.50366457 0.3038347221
## 1885 0.44209088 0.2065482944
## 1886 0.68201057 0.5856214000
## 1887 0.50611987 0.3077140904
## 1888 0.66607314 0.5604402666
## 1889 1.08875214 1.2282730769
## 1890 0.50777878 0.3103351691
## 1891 0.59042451 0.4409154347
## 1892 0.64631389 0.5292206564
## 1893 0.62750473 0.4995021709
## 1894 0.38856081 0.1219707871
## 1895 0.40356357 0.1456751407
## 1896 0.68234318 0.5861469337
## 1897 0.28981596 -0.0340460734
## 1898 0.61507616 0.4798650424
## 1899 1.12051068 1.2784515741
## 1900 0.35377302 0.0670060798
## 1901 1.19154526 1.3906862070
## 1902 0.75911076 0.7074397051
## 1903 0.38049786 0.1092313259
## 1904 0.46120582 0.2367499000
## 1905 0.43079406 0.1886993155
## 1906 0.75553242 0.7017859319
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## 1908 0.96580096 1.0340102195
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## 1916 0.73284839 0.6659451597
## 1917 0.30263953 -0.0137848438
## 1918 0.60210611 0.4593723537
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## 1921 0.30782593 1.1627402003
## 1922 0.63852414 1.6852433713
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## 1924 0.53721074 1.5251682097
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##	1943	0.68513454	1.7588878036
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##	1975	0.62906685	1.6703008542
##	1978	0.49977499	1.4660197178
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##	1982	0.74721569	1.8569760211
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##	1988	0.47110428	1.4207199909
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##	1991	0.77008330	1.8931068531
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##	1993	0.52149601	1.5003389279
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##	1995	0.85042918	2.0200533422
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##	2003	0.65062898	1.7043690196
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##	2005	0.66583878	1.7284005068
##	2008	0.36620494	1.2549790456
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##	2243	0.43771161	1.0157573671
##	2244	0.75871221	1.5229383117
##	2245	0.32129174	0.8318139596
##	2247	1.20071035	2.2212953701
##	2249	0.85966260	1.6824399293
##	2250	0.39653523	0.9506986779
##	2251	0.52218128	1.1492194368
##	2252	0.60330406	1.2773934314
##	2253	0.83007204	1.6356868416
##	2254	1.18709335	2.1997805060
##	2255	0.50941956	1.1290559195
##	2257	0.47414117	1.0733160602
##	2259	0.76225748	1.5285398434
##	2260	0.99324759	1.8935042140
##	2261	0.49136307	1.1005266732
##	2262	0.34753505	0.8732784029
##	2263	0.94142254	1.8116206315
##	2264	0.48138647	1.0847636446
##	2265	0.35397128	0.8834476351
##	2267	0.82568130	1.6287494656
##	2269	0.69726993	1.4258595108
##	2270	0.61045203	1.2886872322
##	2271	1.34499585	2.4492664611
##	2272	0.81592824	1.6133396372

##	2273	0.34443455	0.8683795999
##	2274	1.04238249	1.9711373470
##	2275	0.81920293	1.6185136529
##	2277	0.57596227	1.2341933995
##	2279	0.88015315	1.7148149983
##	2280	0.36571111	0.9019965765
##	2281	0.58344323	1.2460133141
##	2282	0.49966408	1.1136422717
##	2283	0.77560407	1.5496274506
##	2284	0.52302631	1.1505545859
##	2285	0.98666449	1.8831029087
##	2287	0.84252365	1.6553603862
##	2289	0.62522562	1.3120294997
##	2290	0.71990803	1.4616277050
##	2291	0.50085443	1.1155230195
##	2292	0.74940230	1.5082286529
##	2293	0.71133176	1.4480771968
##	2294	0.73564198	1.4864873386
##	2295	0.59670577	1.2669681272
##	2297	0.53091347	1.1630163082
##	2299	0.69337833	1.4197107828
##	2300	0.46176998	1.0537695937
##	2301	0.70533758	1.4386063932
##	2302	0.54713841	1.1886517056
##	2303	0.38570986	0.9335946043
##	2304	0.48811677	1.0953975168
##	2305	0.47276286	1.0711383433
##	2307	0.55702995	1.2042803384
##	2309	0.68320346	1.4036344904
##	2310	0.39318759	0.9454094022
##	2311	0.52736269	1.1574060628
##	2312	0.31147650	0.8163058818
##	2313	1.25934941	2.3139450822
##	2314	0.38659311	0.9349901324
##	2315	0.85446617	1.6742295687
##	2317	0.83250087	1.6395243975
##	2319	0.53545460	1.1701912847
##	2320	0.38833957	0.9377495448
##	2321	0.44479395	1.0269474609
##	2322	1.37090070	2.4901961316
##	2323	0.37671428	0.9193815817
##	2324	0.39447399	0.9474419167
##	2325	0.50812493	1.1270104141
##	2327	0.94745842	1.8211573147
##	2329	0.96972001	1.8563306302
##	2330	0.49111991	1.1001424728
##	2331	0.66498583	1.3748506322
##	2332	0.68160095	1.4011025246
##	2333	0.90363438	1.7519153353
##	2334	0.38100761	0.9261650355
##	2335	0.44226877	1.0229576796
##	2337	0.76251300	1.5289435508
##	2339	0.68342760	1.4039886232
##	2340	0.42605789	0.9973444885

```
## 2341 0.60999110 1.2879589554
## 2342 0.38795623 0.9371438638
## 2343 0.65605344 1.3607374523
## 2344 0.77439127 1.5477112239
## 2345 1.54229537 2.7609996963
## 2347 0.50287321 1.1187126919
## 2349 0.95926289 1.8398083842
## 2350 0.53905784 1.1758844094
## 2351 0.54828892 1.1904695129
## 2352 0.81254524 1.6079944994
## 2353 0.65222390 1.3546867771
## 2354 1.75209258 3.0924792879
## 2355 0.65880550 1.3650857123
## 2357 0.43358630 1.0092393781
## 2359 1.06944411 2.0138947107
## 2360 0.96760291 1.8529856114
## 2361 0.69280432 1.4188038391
## 2362 0.24982157 0.7188910986
## 2363 0.44651618 1.0296685884
## 2364 1.58273662 2.8248968778
## 2365 0.42477553 0.9953183551
## 2367 0.55323033 1.1982769388
## 2369 0.58643240 1.2507362176
## 2370 0.69534042 1.4228108788
## 2371 0.40571530 0.9652031977
## 2372 0.46493841 1.0587757135
## 2373 0.95396563 1.8314387145
## 2374 0.50450592 1.1212923741
## 2375 0.42330183 0.9929899119
## 2377 0.60362077 1.2778938308
## 2379 0.78445137 1.5636061752
## 2380 0.49066385 1.0994218966
## 2381 1.26998464 2.3307487418
## 2382 0.36166236 0.8955995394
## 2383 0.77045459 1.5414912662
## 2384 0.47609766 1.0764073200
## 2385 1.26294397 2.3196244847
## 2387 0.70842425 1.4434833366
## 2389 0.45364841 1.0409375116
## 2390 0.30841245 0.8114646854
## 2391 0.28810241 0.7793748313
## 2392 0.64001497 1.3353966692
## 2393 0.76296797 1.5296624155
## 2394 1.05022510 1.9835286817
## 2395 0.49348410 1.1038778945
## 2397 0.31027572 0.8144086632
## 2399 0.69693303 1.4253272111
## 2400 0.69668660 1.4249378491
```

We are not just limited to one condition either: we can get two conditions

Here we get data where people are aged between 25+ and less than 40

```
dataByAge3 <- select(filter(data, age>25 & age<40), RT_day1) # you could do the same thing using 'select'
```

Sometimes you might also want to get a quick table with descriptive stats, summarising things by group

```

# ----- Using summary function -----

# 'summary' can give us some useful stats

# ----- Using the psych package -----
library("psych")
descriptives <- describeBy(data, group=data$group) # descriptive stats

# ----- Using aggregate -----
# Aggregate takes a formula, which works in this order:
# formula = thing_todo_stats_on ~ grouping variables sep by '+'
# below, I am doing stats on RT_day1 and I am
# grouping or separating by group and difficulty
# Aggregate also takes the thing you want to use, i.e. the data frame
# and you also need to include a function - i.e. what you want to do with
# the data, e.g. calculate the mean
aggData <- aggregate(formula = RT_day1 ~ difficulty + group,
                      data = data,
                      FUN = mean)

# ----- Using arrange -----s-----
# Arrange gets your data frame and organises it by
# a specific variable
arrangedData <- arrange(data, data$subj_no)
arrangedData <- arrange(data, data$group)

# -----
#                               Tasks
# -----

# 1. Try getting the summary of 'data' - summary takes an argument
# of the data frame you want stats on
summary(data$RT_day1)

##      Min.   1st Qu.   Median     Mean  3rd Qu.    Max.
## -0.05196  0.45482  0.60218  0.65573  0.79285  2.06703

# 2. Aggregate data by Av.SSRT for each 'ageBand' and 'group'
# and take the sd

# ----- Using pipes -----
# Pipes are signified by '%>%' - they allow us to take
# the data, do stuff with it, and then 'pass' it to another
# step without having to store the result of each step as
# an 'intermediate' variable

# This pipe takes data, gets only the rows where gender is 1
# it then gets rid of any rows with 'NA' / missing values
# takes the result of that step, and gets a column labelled
# Av.SSRT for *only* rows which passed the other earlier steps

```

```

temp <- data %>% # handball the data to the next step - filter by gender
  filter(!is.na(group == 1)) %>% # handball the group==1 rows to the next step
  select(RT_day1) %>%
  na.omit(RT_day1)

# Get the rows where gender==1 and get values for each row, from column labelled 'Av.SSRT'
# The final result after it's been handballed everywhere is sent to 'temp'

# -----
#                               Tasks
# -----
# 1. Run the same as above *but*
# - take data
# - filter for ages > 20
# select RT.go
# take the mean of RT.go after you are done

library("tidyr")
temp <- data %>%
  na.omit(select(group, RT_day1, RT_day1)) %>%
  group_by(group) %>%
  summarise(RT = mean(RT_day1), mean(RT_day1))

# -----
#                               Task
# -----
# 1. Subset the data (any way you like) by subject and
# get the mean of go and nogo RT's for each subject in a table
subj_aggData1 <- aggregate(formula = RT_day1 ~ subj_no,
  data = data,
  FUN = mean)
subj_aggData1

##      subj_no  RT_day1
## 1         1 0.6711149
## 2         2 0.6633923
## 3         3 0.6568141
## 4         4 0.6720416
## 5         5 0.6588955
## 6         6 0.6444954
## 7         7 0.6340227
## 8         8 0.6584860
## 9         9 0.6519945
## 10        10 0.6460713

# What if we want this for both RT_day1 and RT_day2
# There are easier ways to do this
subj_aggData2 <- aggregate(formula = RT_day2 ~ subj_no,
  data = data,
  FUN = mean)
subj_aggData1

##      subj_no  RT_day1
## 1         1 0.6711149

```

```
## 2      2 0.6633923
## 3      3 0.6568141
## 4      4 0.6720416
## 5      5 0.6588955
## 6      6 0.6444954
## 7      7 0.6340227
## 8      8 0.6584860
## 9      9 0.6519945
## 10     10 0.6460713
```

```
# We can put these two into a data frame together
```

```
RT_summary_data <- data.frame(cbind(
  subj_no = subj_aggData1[,1], # subject no
  subj_no = subj_aggData1[,2], # RT_day1
  subj_aggData1[,2])) # RT_day2
```

```
# But there is another way to do this
```

```
RT_data <- dplyr::ddply(data, .(subj_no), function(data){
```

```
  # We now just have only subject data in this container
```

```
  # We are going to make a new data frame that puts all of the things
  # we want on it
```

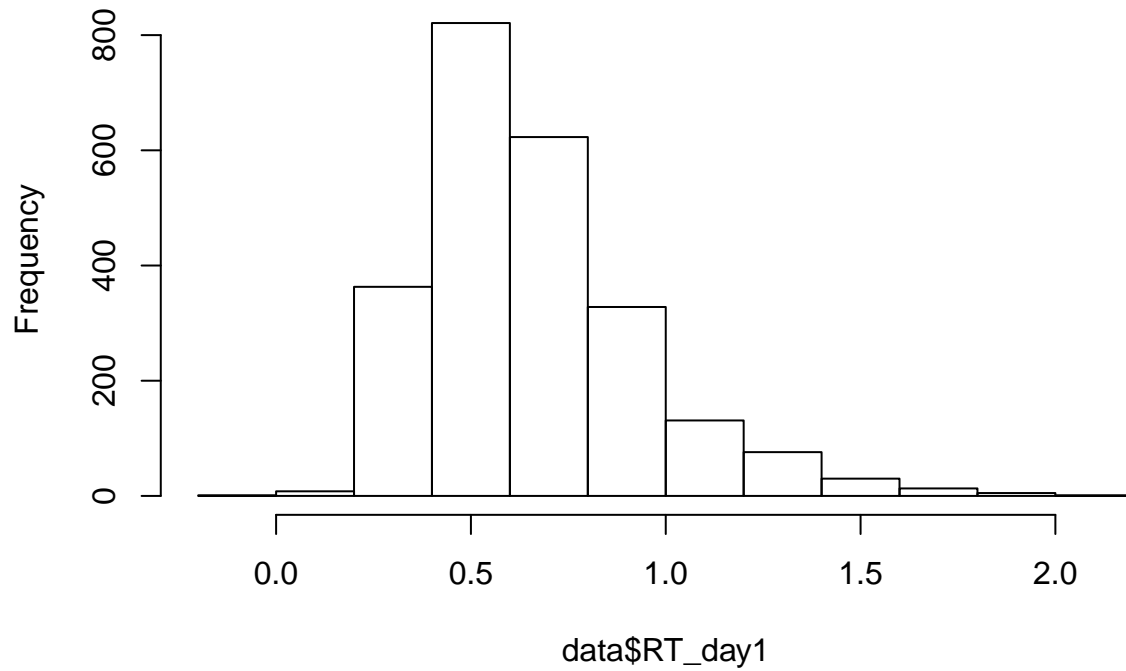
```
  RT_data <- data.frame(
    mean_day1 = mean(data$RT_day1),
    sd_day1 = sd(data$RT_day1),
    mean_RT_day2 = mean(data$RT_day2),
    sd_day2 = sd(data$RT_day2))
```

```
  return(RT_data)})
```

```
# Let's create some histograms
```

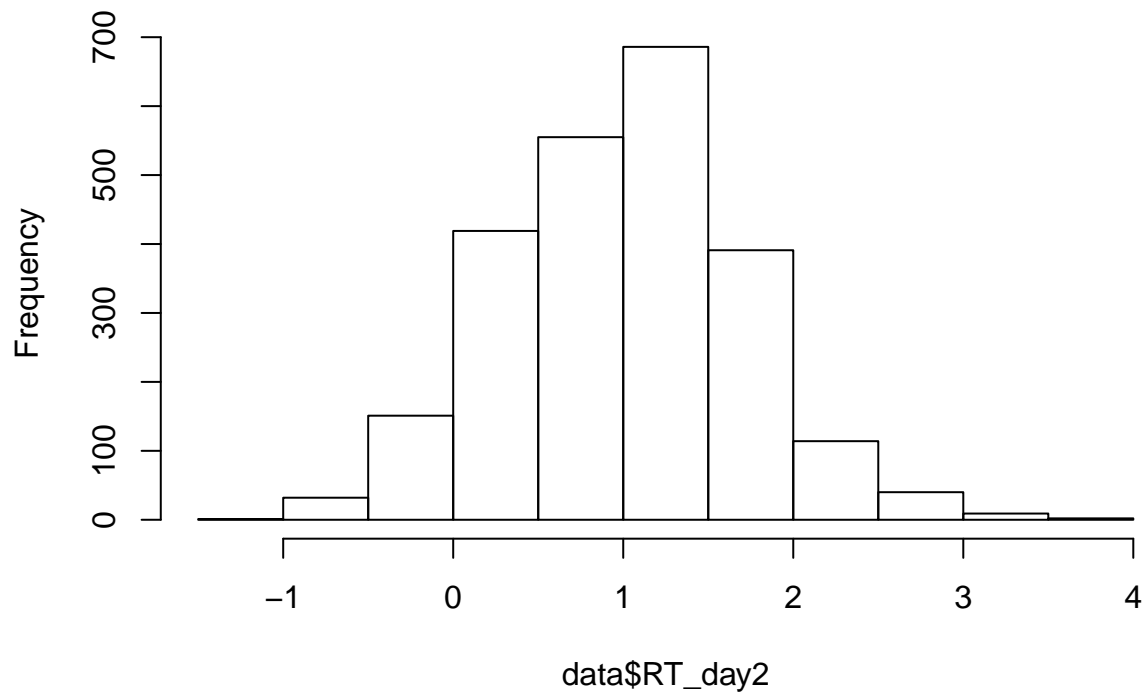
```
hist(data$RT_day1)
```

Histogram of data\$RT_day1



```
hist(data$RT_day2)
```

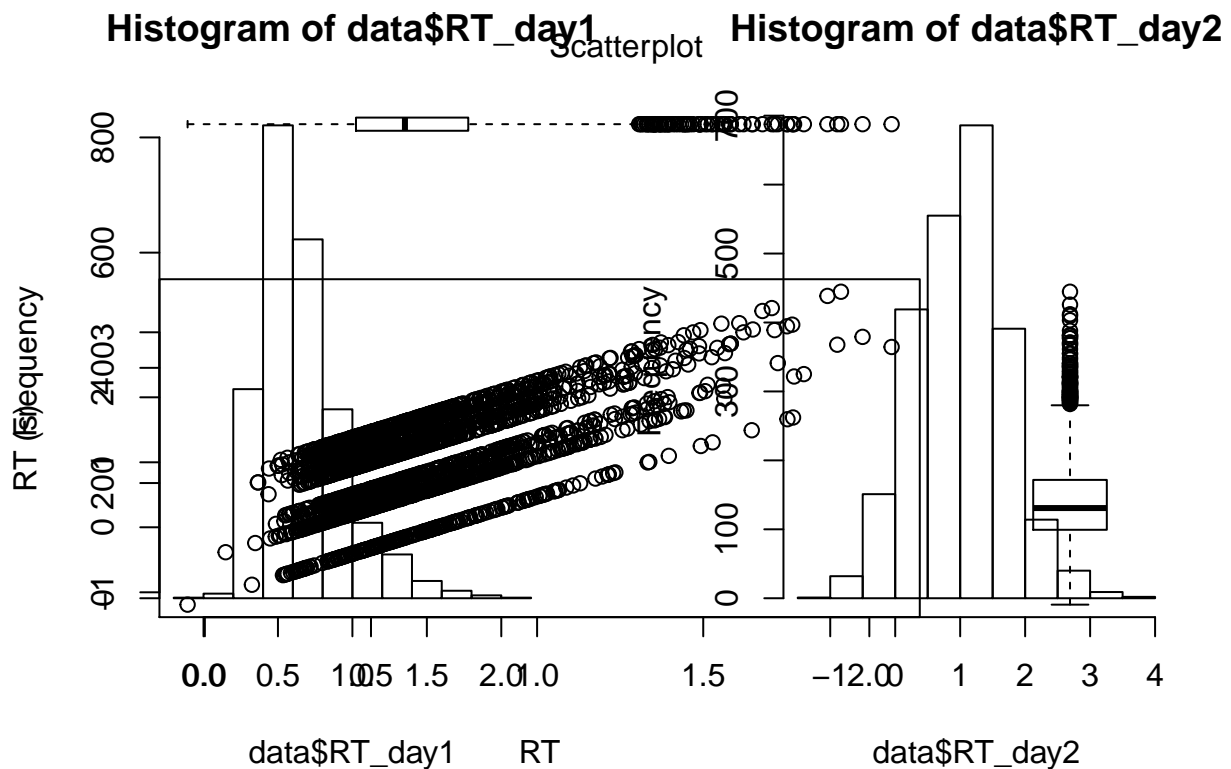
Histogram of data\$RT_day2



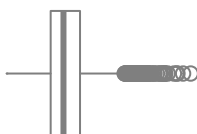
```
# What if we want these on the same panel?  
par(mfrow=c(1,2))  
hist(data$RT_day1)
```

```
hist(data$RT_day2)

# Let's attach a boxplot to a scatterplot
par(fig=c(0,0.8,0,0.8), new=TRUE)
plot(data$RT_day1,data$RT_day2, xlab="RT",
      ylab="RT (s)")
par(fig=c(0,0.8,0.55,1), new=TRUE)
boxplot(data$RT_day1, horizontal=TRUE, axes=FALSE)
par(fig=c(0.65,1,0,0.8),new=TRUE)
boxplot(data$RT_day1, axes=FALSE)
mtext("Scatterplot", side=3, outer=TRUE, line=-3)
```



```
# We could also crate a boxplot which looks cleaner
boxplot( x = data$RT_day1,          # the data
         xlab = "RT_day1",        # x-axis label
         ylab = "",
         border = "grey50",
         frame.plot = FALSE,
         staplewex = 0,
         whisklty = 1, # solid line for whisker
         horizontal = TRUE)
```

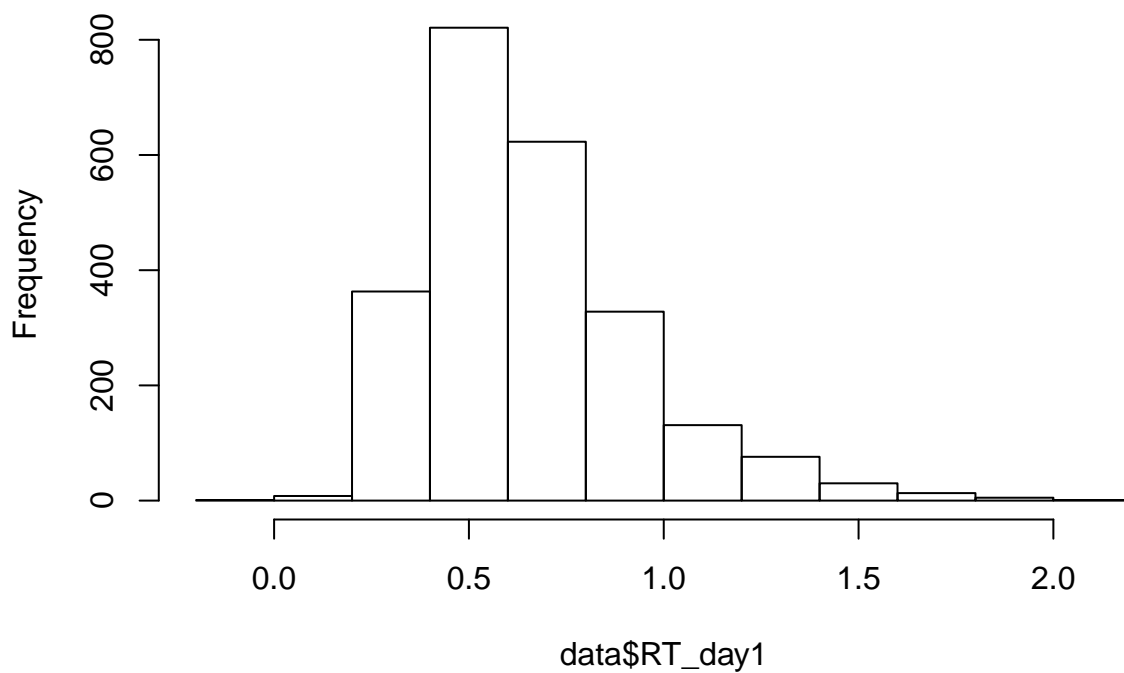
0.0 1.0 2.0

RT_day1

Statistical tests - here we are going to run a t-test, ANOVA and regression

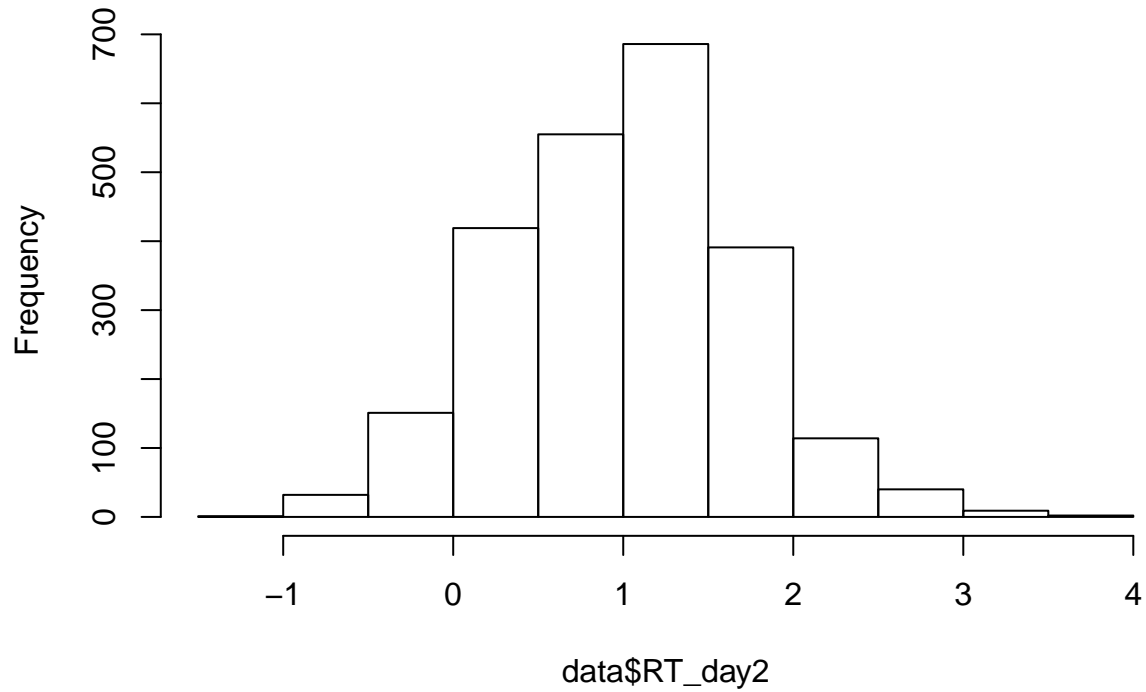
```
# Check the distribution for each of the groups  
hist(data$RT_day1)
```

Histogram of data\$RT_day1



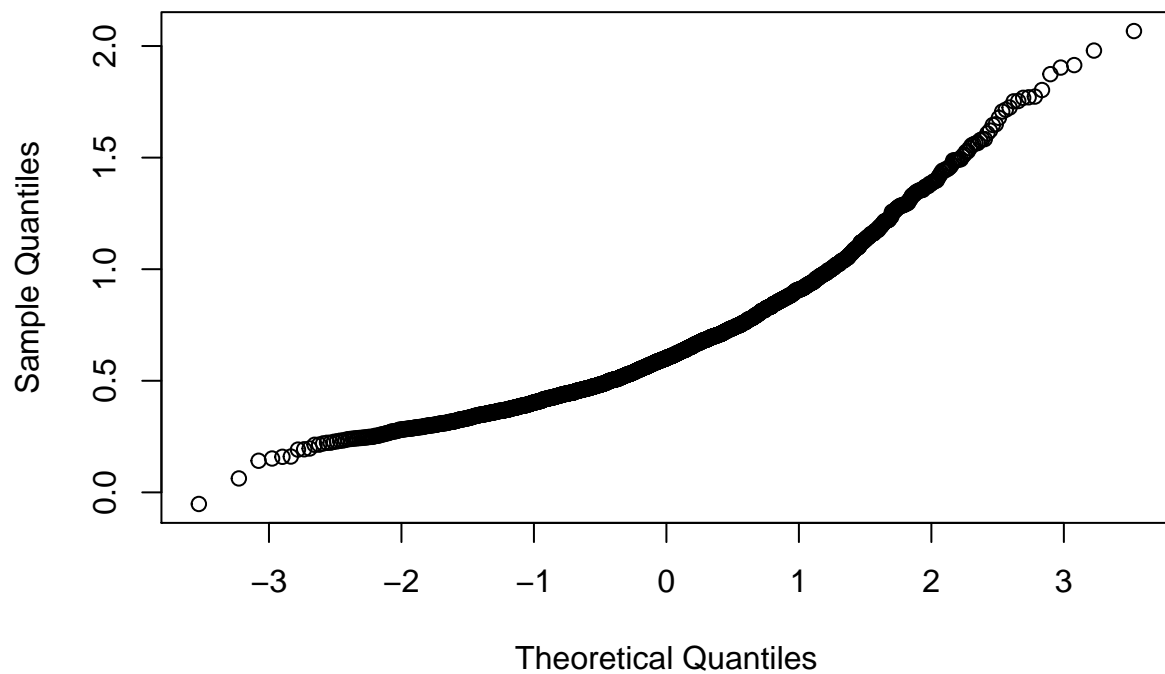
```
hist(data$RT_day2)
```

Histogram of data\$RT_day2



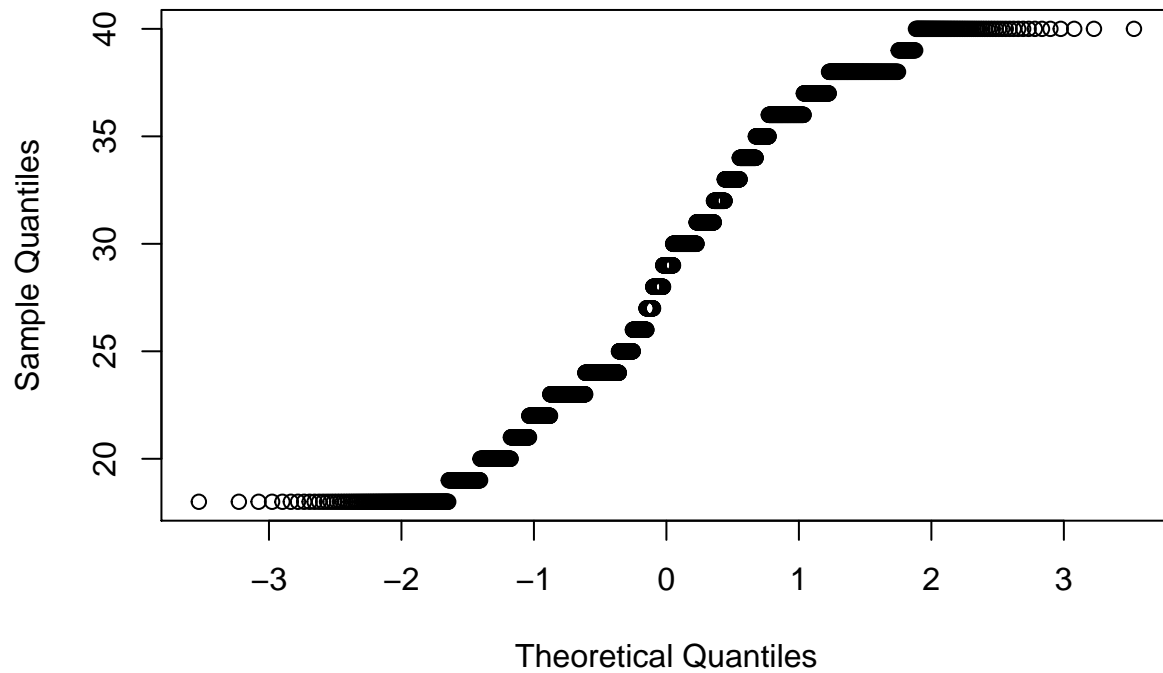
```
library("stats")  
qqnorm(y=data$RT_day1)
```

Normal Q-Q Plot



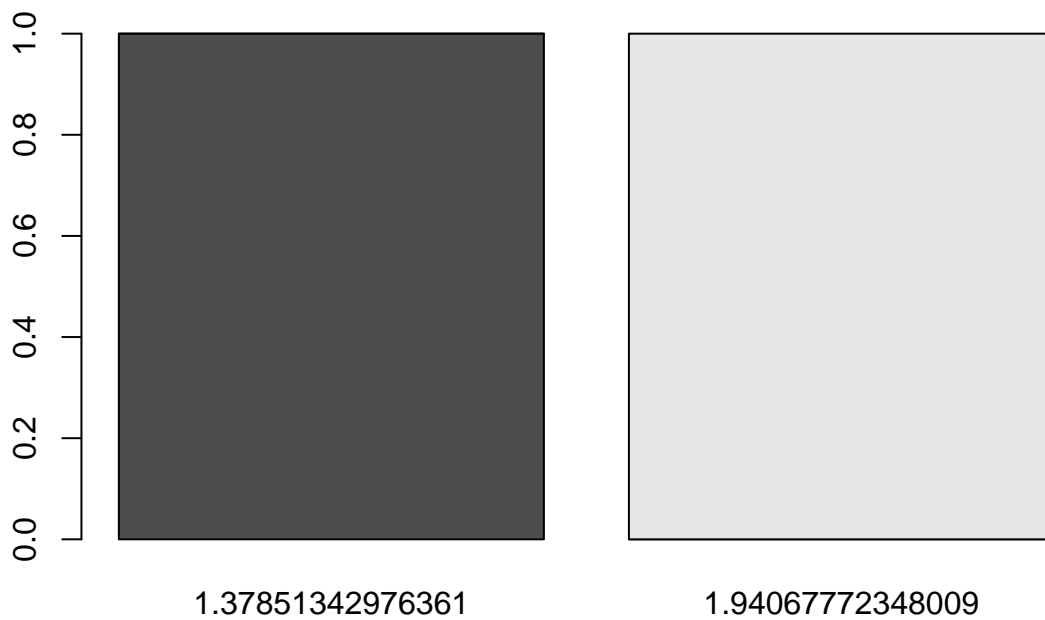
```
qqnorm(y=data$age)
```

Normal Q-Q Plot



```
# Group RT_day1 and RT_day2 by group and take the mean
data.barplot.mean <- aggregate(formula = RT_day1 + RT_day2 ~ group,
                                data = data,
                                FUN = mean)
```

```
barplot(height=table(data.barplot.mean))
```

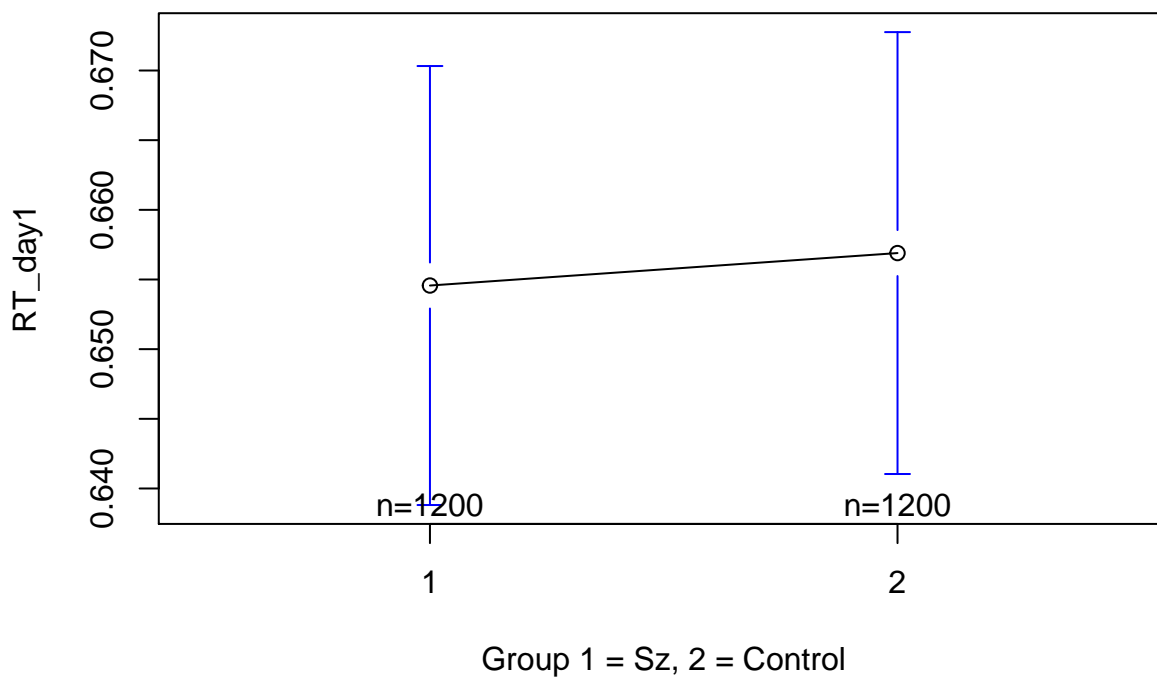


```

# install.packages("gplots") # uncomment this
library("gplots")

##
## Attaching package: 'gplots'
## The following object is masked from 'package:stats':
##
##      lowess
plotmeans(formula = RT_day1 ~ group,
           data = data,
           xlab = "Group 1 = Sz, 2 = Control",
           ylab = "RT_day1",
           n.label = TRUE) # don't display sample size

```



```

# install.packages("broom") # uncomment this
# Perform t-test
library('broom')

## Warning: package 'broom' was built under R version 3.4.4
# Run a t-test - the default is to run a t-test that assumes unequal variances (Welsh)
test_output <- t.test(formula = data$RT_day1 ~ data$group, data = data)
# Task: run 'tidy' on output of t-test
tidy_test_output <- tidy(test_output)

# Run a student's t-test - add var.equal = TRUE
t.test(formula = RT_day2 ~ group, data = data,
       var.equal = TRUE)

##
## Two Sample t-test
##

```

```
## data: RT_day2 by group
## t = -21.339, df = 2398, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.6112809 -0.5083897
## sample estimates:
## mean in group 1 mean in group 2
## 0.7239451 1.2837804
```

Run an ANOVA

```
anova_test <- aov(RT_day2 ~ group + difficulty, data = data)
summary(anova_test)
```

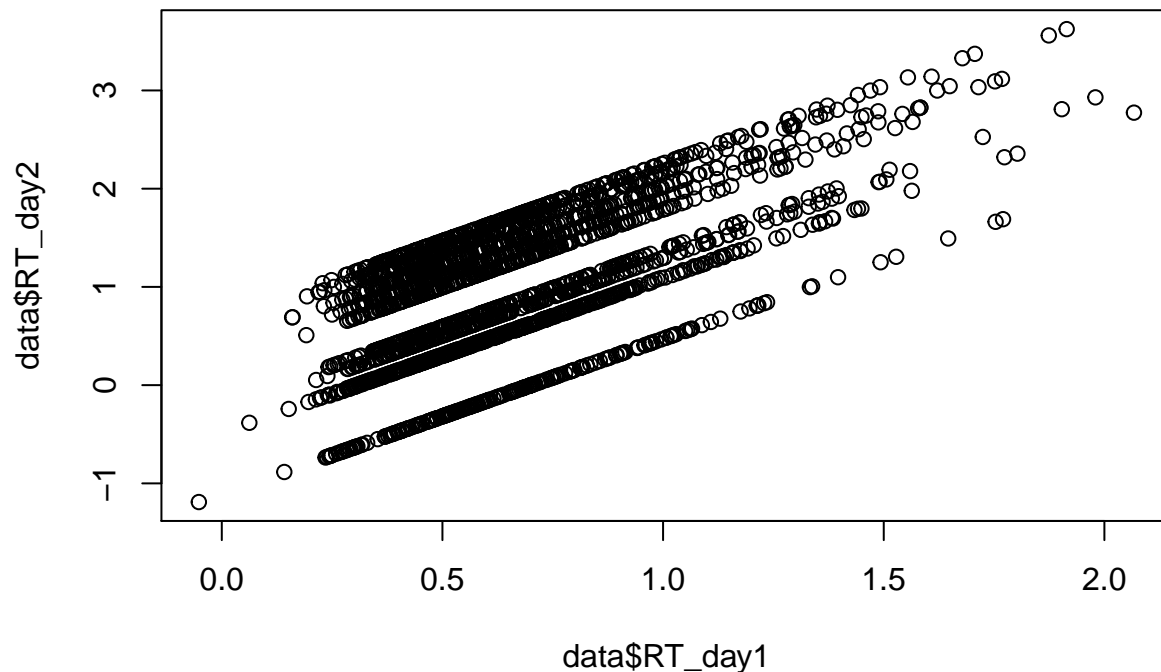
```
##              Df Sum Sq Mean Sq F value Pr(>F)
## group          1  188.0   188.05    578.6 <2e-16 ***
## difficulty      1  211.2   211.20    649.8 <2e-16 ***
## Residuals    2397  779.1     0.33
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
tidy(anova_test)
```

```
##      term    df  sumsq    meansq statistic      p.value
## 1    group     1 188.0493 188.0493411   578.5683 1.060505e-114
## 2 difficulty     1 211.2039 211.2038588   649.8074 4.907180e-127
## 3 Residuals 2397 779.0857   0.3250253         NA         NA
```

Correlations

```
plot(data$RT_day1, data$RT_day2)
```



```
cor(data$RT_day1, data$RT_day2, use="complete.obs", method="pearson")
```

```
## [1] 0.6290044
```

Regression: to run a regression, you need to place a formula in

```

# install.packages("broom")
library('broom') # allows you to use 'tidy' functions which clean up messy R output

# Create a regression model
# When R runs the regression model, it creates a list of all of the sections of output
model1 <- lm(data$RT_day2 ~ data$group + data$RT_day1)

# lm.beta

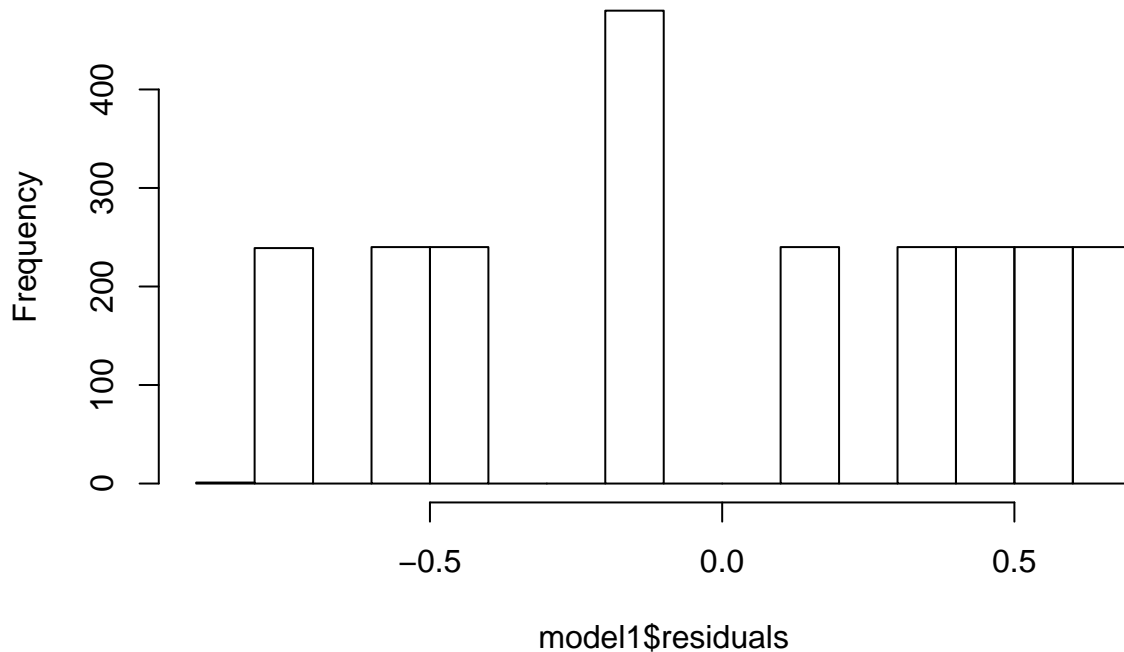
# Let's have a look at what the sections of the list there are from running the regression model
attributes(model1)

## $names
## [1] "coefficients" "residuals" "effects" "rank"
## [5] "fitted.values" "assign" "qr" "df.residual"
## [9] "xlevels" "call" "terms" "model"
##
## $class
## [1] "lm"

# --- Plot residuals ----
hist(model1$residuals)

```

Histogram of model1\$residuals



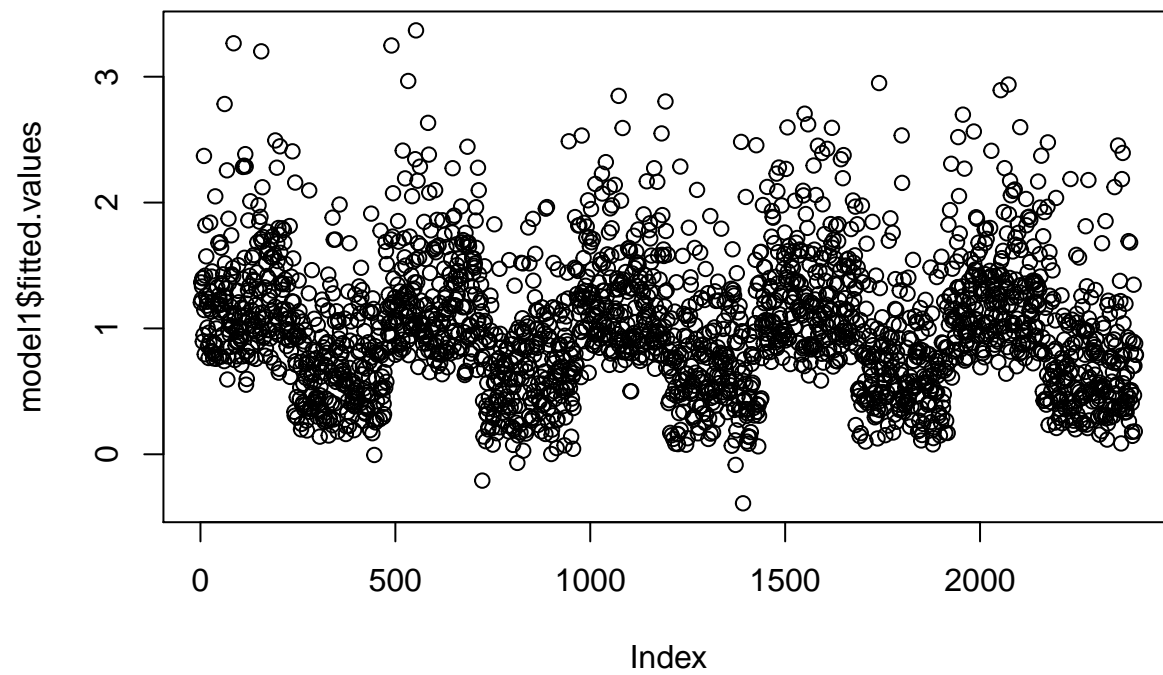
```

# --- Get some neat output ----
tidy(model1)

##      term      estimate std.error statistic    p.value
## 1 (Intercept) -0.8636475  0.03762483 -22.95419 1.446530e-105
## 2 data$group   0.5561654  0.01913426  29.06647 2.232459e-159
## 3 data$RT_day1 1.5757365  0.03429473  45.94690 0.000000e+00

```

```
# --- Plot predictions from the model ----  
plot(model1$fitted.values)
```



```
# -----
```