Emergency Room Falling Injury Analysis

#Introduction This analysis was done by Mike Goldweber, Sept 2023. Submitted to DrivenData.org on Oct 6, 2023. This document shows; the step by step process of analyzing the emergency room data provided in the Unsupervised Wisdom contest.

The full set of project files can be found at: https://github.com/halciber/Machine-Learning/tree/master/UnsupervisedWisdom.

Data Ingestion

The data used in this project is the Primary data set. This contains 115,128 rows of data. The data is pulled into two dataframes. One called df_original, and the other is called df_mapped. The df_mapped set is modified by the example code so that it produces human readable data. the df_original set will be modified by the feature engineer to be usable by the modeling done below.

```r
#You'll want to adjust your file path for your environment
filepath <- "c:\\_working\\Machine-Learning\\UnsupervisedWisdom\\Data\\primary_data.csv"

df_original <- read.csv(filepath)

#we'll use this variable frequently
rowcount <- nrow(df_original)
```

Setting up the categorical mapping dataframe

The code for the next two blocks was take directly from the Community Code section of the contest website, found at: https://www.drivendata.org/competitions/217/cdc-fall-narratives/community-code/.The purpose of this block is to take the JSON coding information and match it to the numeric values found in primary_data.csv. I've found this version of the dataset to be helpful in understanding the data. For example, "57 - FRACTURE" is more meaningful than the original "57". My intention is to use the df_mapped dataframe primarily with the data exploration and the. df_original, created in the code block above will be used for the modeling work after modification in the Feature Engineer section below.

```r
library(jsonlite)

mappingfile <- 'c:\\_working\\Machine-Learning\\UnsupervisedWisdom\\Data\\variable_mapping.json'
mapping <- fromJSON(mappingfile)
names(mapping)
```

```
##  [1] "sex"           "race"          "hispanic"      "alcohol"
##  [5] "drug"          "body_part"     "body_part_2"   "diagnosis"
##  [9] "diagnosis_2"   "disposition"   "location"      "fire_involvement"
## [13] "product_1"     "product_2"     "product_3"
```

```r
# Convert to data frames so we can use in joins
mapping_tables <- list()
for (col in names(mapping)) {
    mapping_tables[[col]] <- data.frame(
        ind=as.integer(names(mapping[[col]])),  # change to integer types
```

```
        values=unlist(mapping[[col]])
    )
}
```

Now that the JSON information has been ingested, we'll map the categories on to the dataframe, which we will call **df_mapped**.

```
library(dplyr)
```

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

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

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
# Load primary data
df_mapped <- df_original

# Join and replace encoded column
for (col in names(mapping)) {
    df_mapped <- df_mapped %>%
        left_join(mapping_tables[[col]], by=setNames("ind", col)) %>%
        mutate(!!col := values) %>%
        select(-values)
}
head(df_mapped)
```

```
##   cpsc_case_number
## 1        190103269
## 2        190103270
## 3        190103273
## 4        190103291
## 5        190103294
## 6        190103298
##
## 1                      94YOM FELL TO THE FLOOR AT THE NURSING HOME ONTO BACK OF HEAD SUSTAINE
## 2                                86YOM FELL IN THE SHOWER AT HOME AND SUSTAINED
## 3 87YOF WAS GETTING UP FROM THE COUCH AND FELL TO THE FLOOR SUSTAINED ABRASIONS TO ELBOWS ADMITTED F
## 4            67YOF WAS AT A FRIENDS HOUSE AND SLIPPED ON WATER THAT WAS ON THE FLOOR AND SUSTAI
## 5                                70YOF WAS STANDING ON A STEP STOOL AND FELL OFF SUSTAI
## 6            79YOM WAS STANDING ON A FOLDING LAWN CHAIR AND FELL OFF TO THE GROUND ONTO HEAD S
##   treatment_date age    sex race other_race      hispanic
## 1     2019-01-01  94   MALE N.S.           Unk/Not stated
## 2     2019-01-01  86   MALE N.S.           Unk/Not stated
## 3     2019-01-01  87 FEMALE N.S.           Unk/Not stated
## 4     2019-01-01  67 FEMALE N.S.           Unk/Not stated
## 5     2019-01-01  70 FEMALE N.S.           Unk/Not stated
## 6     2019-01-01  79   MALE N.S.           Unk/Not stated
##            diagnosis other_diagnosis diagnosis_2 other_diagnosis_2
## 1 62 - INTERNAL INJURY                      <NA>
## 2 62 - INTERNAL INJURY                      <NA>
```

```
## 3 53 - CONTUSIONS, ABR.                          <NA>
## 4         57 - FRACTURE                           <NA>
## 5         57 - FRACTURE                           <NA>
## 6       52 - CONCUSSION                           <NA>
##        body_part body_part_2                      disposition location
## 1     75 - HEAD        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED  PUBLIC
## 2     75 - HEAD        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED    HOME
## 3    32 - ELBOW        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED    HOME
## 4 33 - LOWER ARM       <NA>    1 - TREATED/EXAMINED AND RELEASED    HOME
## 5 33 - LOWER ARM       <NA>    1 - TREATED/EXAMINED AND RELEASED    HOME
## 6     75 - HEAD        <NA>    1 - TREATED/EXAMINED AND RELEASED    HOME
##   fire_involvement alcohol   drug
## 1             NO/?  No/Unk No/Unk
## 2             NO/?  No/Unk No/Unk
## 3             NO/?  No/Unk No/Unk
## 4             NO/?  No/Unk No/Unk
## 5             NO/?  No/Unk No/Unk
## 6             NO/?  No/Unk No/Unk
##                                                       product_1
## 1                        1807 - FLOORS OR FLOORING MATERIALS
## 2                               611 - BATHTUBS OR SHOWERS
## 3 679 - SOFAS, COUCHES, DAVENPORTS, DIVANS OR STUDIO COUCHES
## 4                        1807 - FLOORS OR FLOORING MATERIALS
## 5                                     620 - STEP STOOLS
## 6                 4016 - BEACH CHAIRS OR FOLDING CHAIRS
##                       product_2 product_3
## 1                     0 - None  0 - None
## 2                     0 - None  0 - None
## 3 1807 - FLOORS OR FLOORING MATERIALS  0 - None
## 4                     0 - None  0 - None
## 5                     0 - None  0 - None
## 6                     0 - None  0 - None
```

```r
#rm(col)
```

Data Clean Up/ Preliminary Feature Engineer

Let's look at the dataset to get an initial feel for the data quality by running a summary

```r
summary(df_original)
```

```
##  cpsc_case_number     narrative        treatment_date          age
##  Min.   :190103269  Length:115128     Length:115128      Min.   : 65.00
##  1st Qu.:200255706  Class :character  Class :character   1st Qu.: 72.00
##  Median :210527801  Mode  :character  Mode  :character   Median : 79.00
##  Mean   :208188741                                       Mean   : 79.35
##  3rd Qu.:220460723                                       3rd Qu.: 86.00
##  Max.   :230222638                                       Max.   :112.00
##
##       sex           race          other_race          hispanic
##  Min.   :1.000  Min.   :0.0000  Length:115128     Min.   :0.000
##  1st Qu.:1.000  1st Qu.:0.0000  Class :character  1st Qu.:0.000
##  Median :2.000  Median :1.0000  Mode  :character  Median :2.000
##  Mean   :1.631  Mean   :0.7957                    Mean   :1.259
```

```
##   3rd Qu.:2.000   3rd Qu.:1.0000                            3rd Qu.:2.000
##   Max.   :2.000   Max.    :6.0000                           Max.    :2.000
##
##      diagnosis       other_diagnosis     diagnosis_2      other_diagnosis_2
##   Min.   :42.00    Length:115128       Min.    :41.0    Length:115128
##   1st Qu.:57.00    Class :character    1st Qu.:53.0     Class :character
##   Median :57.00    Mode  :character    Median :59.0     Mode  :character
##   Mean   :58.69                        Mean    :59.8
##   3rd Qu.:62.00                        3rd Qu.:63.0
##   Max.   :74.00                        Max.    :74.0
##                                        NA's    :71983
##      body_part       body_part_2       disposition        location
##   Min.    : 0.00    Min.    : 0.00     Min.   :1.000    Min.   :0.000
##   1st Qu.:37.00     1st Qu.:35.00      1st Qu.:1.000    1st Qu.:1.000
##   Median :75.00     Median :75.00      Median :1.000    Median :1.000
##   Mean   :65.51     Mean    :63.98     Mean    :2.122   Mean    :1.715
##   3rd Qu.:79.00     3rd Qu.:79.00      3rd Qu.:4.000    3rd Qu.:1.000
##   Max.   :94.00     Max.    :94.00     Max.    :6.000   Max.    :9.000
##                     NA's    :71983
##   fire_involvement      alcohol                drug            product_1
##   Min.   :0.0000000   Min.    :0.00000   Min.    :0.00000   Min.    : 110
##   1st Qu.:0.0000000   1st Qu.:0.00000    1st Qu.:0.00000    1st Qu.:1715
##   Median :0.0000000   Median :0.00000    Median :0.00000    Median :1807
##   Mean   :0.0005993   Mean    :0.02248   Mean    :0.04035   Mean    :2168
##   3rd Qu.:0.0000000   3rd Qu.:0.00000    3rd Qu.:0.00000    3rd Qu.:3299
##   Max.   :3.0000000   Max.    :1.00000   Max.    :1.00000   Max.    :5043
##
##      product_2        product_3
##   Min.    :   0.0   Min.    :   0.00
##   1st Qu.:   0.0    1st Qu.:   0.00
##   Median :   0.0    Median :   0.00
##   Mean    : 504.1   Mean    :  56.16
##   3rd Qu.: 474.8    3rd Qu.:   0.00
##   Max.    :5040.0   Max.    :5040.00
##
```

Usually a concern is missing data scattered randomly thoughtout the set. In this case, the summary shows the data is in good shape. That is there isn't much in the way of missing data. The only NA's we see are in the diagnosis_2 and body_part_2 columns. This isn't a suprise, because the ER patients didn't necessarily suffer secondary injuries. There is a correlation between these two columns, given the identical number of NAs at 71,983. These columns will have to be explored further to determine if it should be used in our modeling.

However, glancing at the data sets directly shows gaps in some of the other columns. For example body_part_2, other_diagnosis and other_diagnosis_2 contain many gaps.

```
#scroll to the right to see the empty columns (example body_part_2, other_diagnosis and other_disagnosi
head(df_mapped)
```

```
##    cpsc_case_number
## 1         190103269
## 2         190103270
## 3         190103273
## 4         190103291
## 5         190103294
## 6         190103298
```

```
## 
## 1                                    94YOM FELL TO THE FLOOR AT THE NURSING HOME ONTO BACK OF HEAD SUSTAINE
## 2                                              86YOM FELL IN THE SHOWER AT HOME AND SUSTAINED 
## 3 87YOF WAS GETTING UP FROM THE COUCH AND FELL TO THE FLOOR SUSTAINED ABRASIONS TO ELBOWS ADMITTED F
## 4              67YOF WAS AT A FRIENDS HOUSE AND SLIPPED ON WATER THAT WAS ON THE FLOOR AND SUSTAI
## 5                                      70YOF WAS STANDING ON A STEP STOOL AND FELL OFF SUSTAI
## 6              79YOM WAS STANDING ON A FOLDING LAWN CHAIR AND FELL OFF TO THE GROUND ONTO HEAD S
##   treatment_date age    sex race other_race       hispanic
## 1     2019-01-01  94   MALE N.S.            Unk/Not stated
## 2     2019-01-01  86   MALE N.S.            Unk/Not stated
## 3     2019-01-01  87 FEMALE N.S.            Unk/Not stated
## 4     2019-01-01  67 FEMALE N.S.            Unk/Not stated
## 5     2019-01-01  70 FEMALE N.S.            Unk/Not stated
## 6     2019-01-01  79   MALE N.S.            Unk/Not stated
##              diagnosis other_diagnosis diagnosis_2 other_diagnosis_2
## 1  62 - INTERNAL INJURY                        <NA>                  
## 2  62 - INTERNAL INJURY                        <NA>                  
## 3 53 - CONTUSIONS, ABR.                        <NA>                  
## 4         57 - FRACTURE                        <NA>                  
## 5         57 - FRACTURE                        <NA>                  
## 6       52 - CONCUSSION                        <NA>                  
##         body_part body_part_2                      disposition location
## 1       75 - HEAD        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED   PUBLIC
## 2       75 - HEAD        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED     HOME
## 3      32 - ELBOW        <NA> 4 - TREATED AND ADMITTED/HOSPITALIZED     HOME
## 4 33 - LOWER ARM        <NA>    1 - TREATED/EXAMINED AND RELEASED     HOME
## 5 33 - LOWER ARM        <NA>    1 - TREATED/EXAMINED AND RELEASED     HOME
## 6       75 - HEAD        <NA>    1 - TREATED/EXAMINED AND RELEASED     HOME
##   fire_involvement alcohol   drug
## 1            NO/?  No/Unk No/Unk
## 2            NO/?  No/Unk No/Unk
## 3            NO/?  No/Unk No/Unk
## 4            NO/?  No/Unk No/Unk
## 5            NO/?  No/Unk No/Unk
## 6            NO/?  No/Unk No/Unk
##                                                  product_1
## 1                      1807 - FLOORS OR FLOORING MATERIALS
## 2                               611 - BATHTUBS OR SHOWERS
## 3 679 - SOFAS, COUCHES, DAVENPORTS, DIVANS OR STUDIO COUCHES
## 4                      1807 - FLOORS OR FLOORING MATERIALS
## 5                                        620 - STEP STOOLS
## 6                     4016 - BEACH CHAIRS OR FOLDING CHAIRS
##                          product_2 product_3
## 1                        0 - None  0 - None
## 2                        0 - None  0 - None
## 3 1807 - FLOORS OR FLOORING MATERIALS  0 - None
## 4                        0 - None  0 - None
## 5                        0 - None  0 - None
## 6                        0 - None  0 - None
```

Data Exploration

This is actually the critical portion of the project, and most of the effort was spent on this work in order to understand the scope of the problem. The results of this exploration affected later portions of the exploration. Please note, the narrative column won't be looked at in the data exploration. The goal is to use ChatGPT to analyze this data and return helpful results. So, this part of the data is being handled separately.

Let's begin by looking at correlations between the columns.

Correlation Plot

```
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
#we need to use numerical values for the correlation. So, we'll make a subset of the data.
df_numsubset<- df_original[, c(4:6, 8:9, 13, 15:22)]

#visualization matrix of the data, looking for correlations
corrplot(cor(df_numsubset), type= "upper")
```
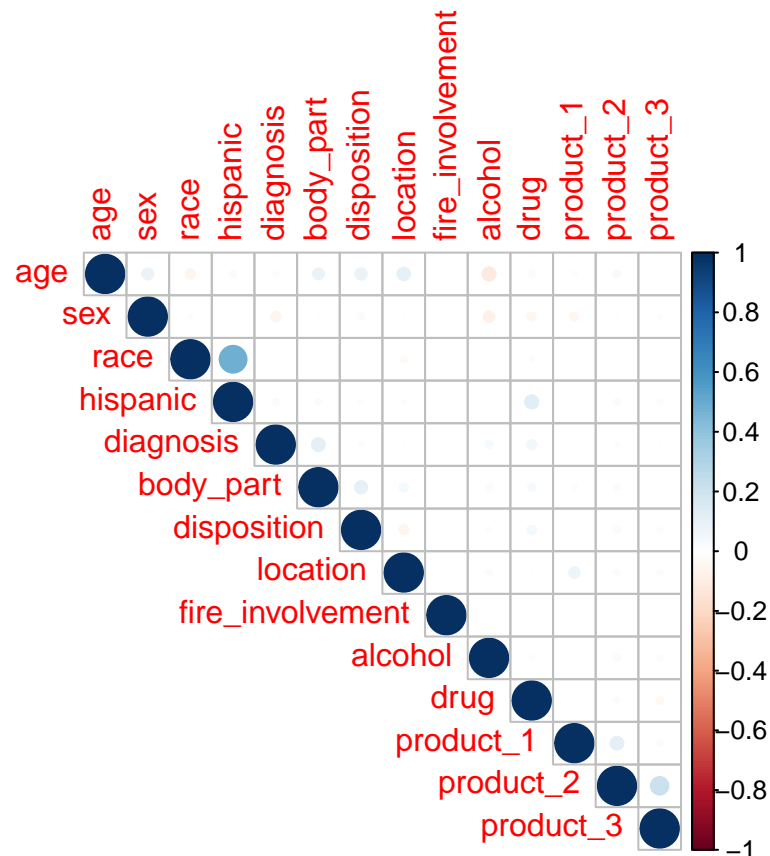

We see strong correlations between race and hispanic, product_1 and product_2, as well as product_2 and product_3. Honestly, this doesn't seem to be very helpful. At least as this stage. Our focus is on the injuries. There are some connections to age and some of the other factors. Including alcohol. So, we'll have to explore this.

Age

Let's look at the age category. In particular, let's see if there is a particular age that is hit harder than another age. The block converts it into a table, and the plot shows the frequency of injuries by age.

```
library(ggplot2)


#frequency of injuries by age
data <- df_numsubset[, c('age', 'sex')]
df_agefreq <- as.data.frame(table(data$age))
colnames(df_agefreq)[1] <- "age"
colnames(df_agefreq)[2] <- "frequency"
#head(df_agefreq)
ggplot(df_agefreq) +
    geom_count(mapping = aes(x=age, y=frequency)) +
    labs(title = "Frequency of Injury By Age", x="Age", y="Count")
```
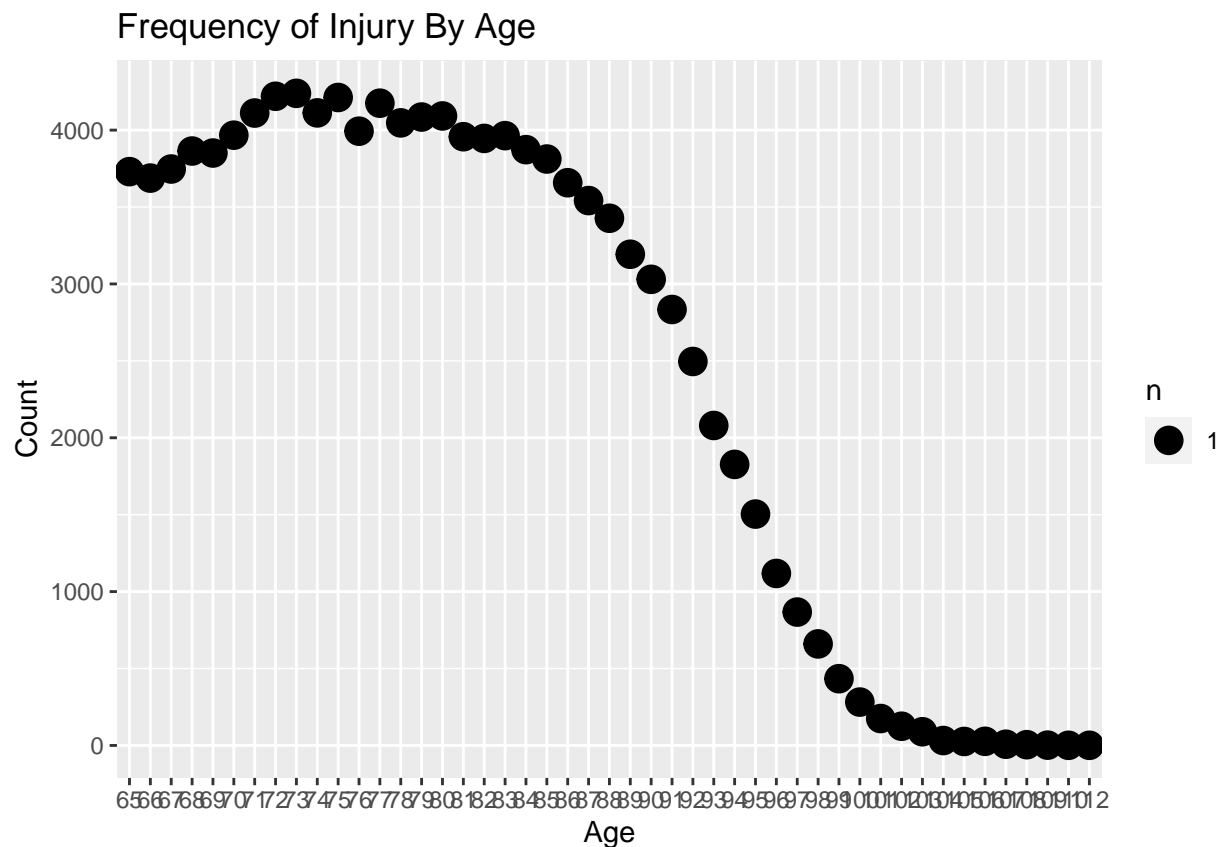


```
rm(df_agefreq, data)
```

What is interesting about this plot, it shows that the injury frequency is relatively high (over 3500) until age 88. I am wondering if the fall off is due to some environmental movement, or is the population over 88 shrinking? There is a bit of a plateau for ages 71-80, where each group has over 4000 injuries, except for age 76 with 3993 injuries.

Sex (Gender)

Next, let's look at the breakdown of sex (gender) in this dataset.

```r
if (system.file(package = "plyr") == "") {
  install.packages("plyr")
}

library(plyr)
```

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

## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)

## --------------------------------------------------------------------------------

##
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':
##
##      arrange, count, desc, failwith, id, mutate, rename, summarise,
##      summarize
```

```r
#63% of the injuries are to women

genderlabels <- c("Male", "Female")
gender <- as.vector(df_original[ ,'sex'])
gentable <- as.data.frame(table(gender))

gentable$gender <- mapvalues(gentable$gender, c( "1", "2"), genderlabels)

pie(gentable$Freq, labels = genderlabels, main="Sex Breakdown")
```

Sex Breakdown
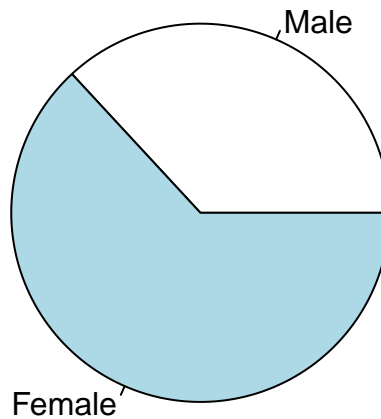

```
percentoffemales <- (gentable[2, 'Freq']/rowcount*100)
out <- sprintf("Percentage of females in this dataset: %f)", percentoffemales) #percentage of females i
out
```

```
## [1] "Percentage of females in this dataset: 63.115836)"
```

This plot visually shows the breakdown of sex in this dataset. We see that at **63.1%**, females represents the majority of cases in this dataset. So, we'll pay particular attention to the factors affecting this part of the population.

Age and Gender

Next, let's look at the split by age and gender.

```
library(ggplot2)
library(sqldf)
```

```
## Loading required package: gsubfn
```

```
## Loading required package: proto
```

```
## Loading required package: RSQLite
```

```
library(reshape2)

results <- sqldf('SELECT age, sex, count(sex) AS "frequency"
                        FROM df_mapped
                        GROUP BY age, sex')

# reshape the dataframe into a long format
```

```
results <- melt (results, id.vars = c ("sex", "age"))

# plot two lines for different genders
ggplot (results, aes (x = age, y = value, group = sex, color = sex)) +
  geom_line () +
  labs (x = "Age", y = "Injury Frequency", color = "Sex")
```
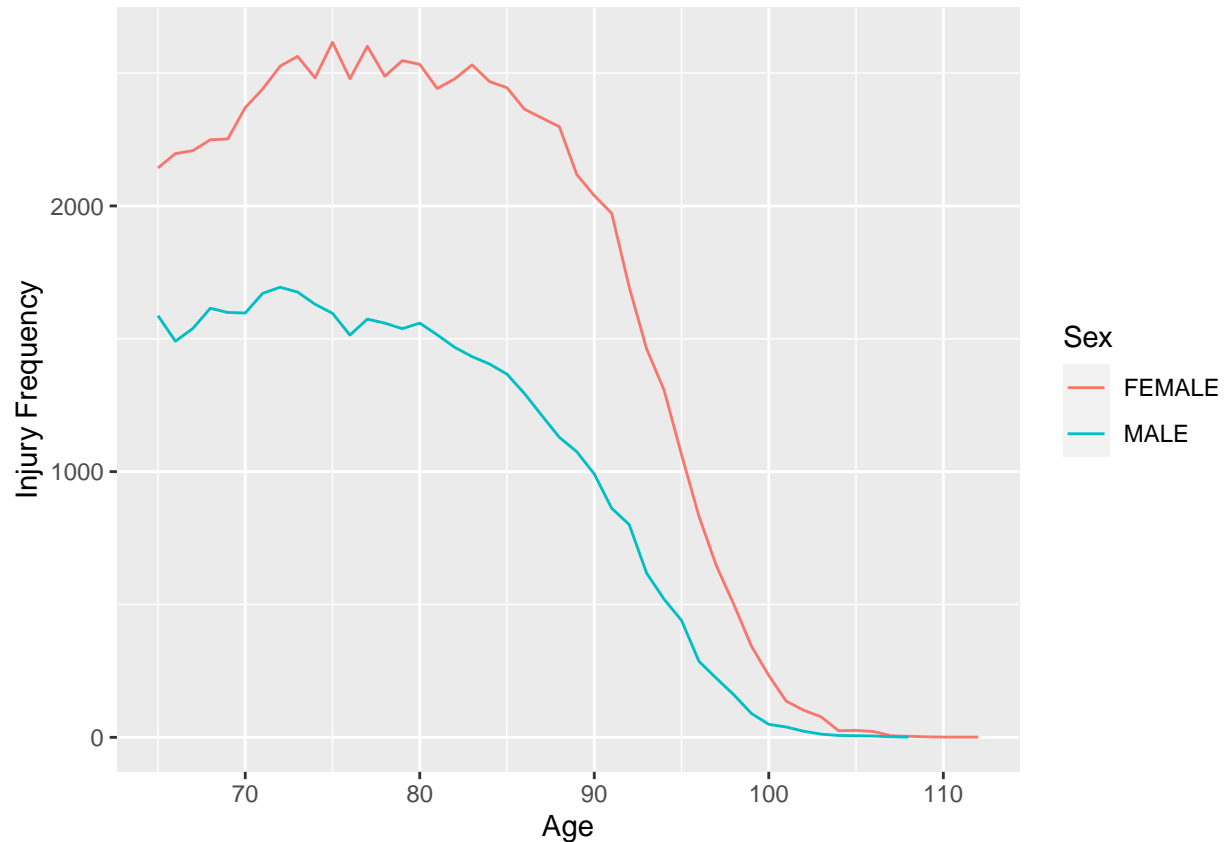

This chart shows a significant difference by gender across the ages of the patients. First, this plot confirms the previous pie chart plot by showing the female population suffers greater numbers of injuries *across the age spectrum.* As we explore further, we'll have to consider the possibility of using different approaches for helping each gender. Of note, this shows the data set only includes males and females. The other categories are not represented in this dataset.

Data Exploration by Race and Sex

Next, let's factor in the race of the patients to see if any particular group is affected more than the others. After looking at the upper level data by race, we'll look at the hispanic breakdown at the population.

Breakdown By Race

We'll start off with a simple pie chart to see.

```
if (system.file(package = "waffle") == "") {
  install.packages("waffle")
}

library(ggplot2)
```

```r
library(waffle)

rcounts <- as.data.frame(table(df_mapped$race))
colnames(rcounts)[1]<-"race"
colnames(rcounts)[2]<-"frequency"

vec <- numeric()
vecS <- character()

for(i in rcounts$frequency)
{
    x <- i/rowcount
    x <- x*100
    vec <- c(vec, x)

    s <- ifelse((x > 7.0), sprintf("%.2f%%", x), "")#display only meaning values on the pie chart
    vecS <- c(vecS, s)
}

rcounts <- cbind(rcounts, new_col = vec)
colnames(rcounts)[3]<-"percent"

rcounts <- cbind(rcounts, new_col = vecS)
colnames(rcounts)[4]<-"labels"

ggplot(rcounts, aes(x = "", y = percent, fill = race)) +
  geom_bar(stat="identity", width=1) +
  geom_text(aes(label = labels), position = position_stack(vjust = 0.5)) +
  scale_fill_manual(values = c("#E59866", "#FCF3CF", "#AF601A", "#AED6F1", "#BD0026", "#27AE60", "#FAD7A
  coord_polar("y", start=0) +
  labs(title = "Breakdown of the Patient Population by Race",
       #subtitle = "test",
       caption = "34.4% did not state their race, making a racial correlation difficult")
```

Breakdown of the Patient Population by Race
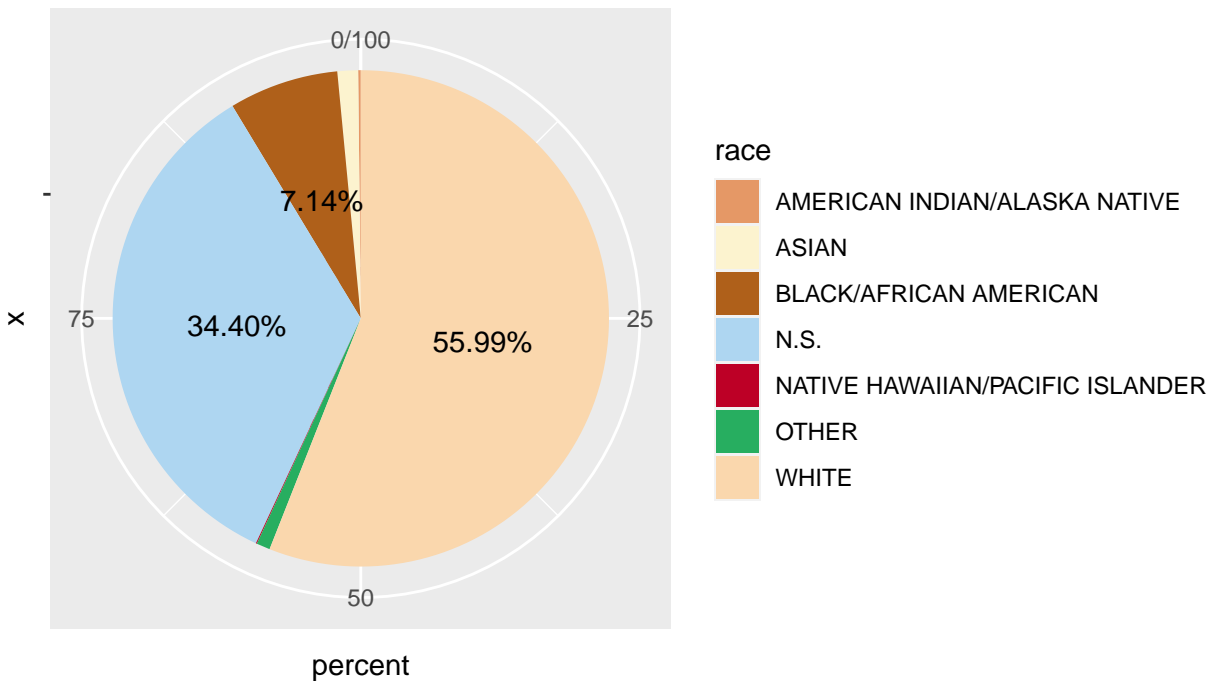
34.4% did not state their race, making a racial correlation difficult

This chart is problematic, because of the high percentage of N.S. (not stated). So it maybe difficult to accurately identify a racial component to these injuries.

Hispanic

```r
if (system.file(package = "waffle") == "") {
  install.packages("waffle")
}

library(ggplot2)
library(waffle)

hcounts <- as.data.frame(table(df_mapped$hispanic))
colnames(hcounts)[1]<-"hispanic"
colnames(hcounts)[2]<-"frequency"

vec <- numeric()
vecS <- character()

for(i in hcounts$frequency)
{
    x <- i/rowcount
    x <- x*100
    vec <- c(vec, x)

    s <- sprintf("%.2f%%", x)
```

```
    vecS <- c(vecS, s)
}

hcounts <- cbind(hcounts, new_col = vec)
colnames(hcounts)[3]<-"percent"

hcounts <- cbind(hcounts, new_col = vecS)
colnames(hcounts)[4]<-"labels"

ggplot(hcounts, aes(x = "", y = percent, fill = hispanic)) +
  geom_bar(stat="identity", width=3) +
  geom_text(aes(label = labels), position = position_stack(vjust = 0.5)) +
  scale_fill_manual(values = c("#E59866","#27AE60", "#FCF3CF")) +
  coord_polar("y", start=0) +
  labs(title = "Breakdown of the Hispanic Population",
       #subtitle = "test",
       caption = "Only 3% of the patients identify as Hispanic")
```

Breakdown of the Hispanic Population

Only 3% of the patients identify as Hispanic
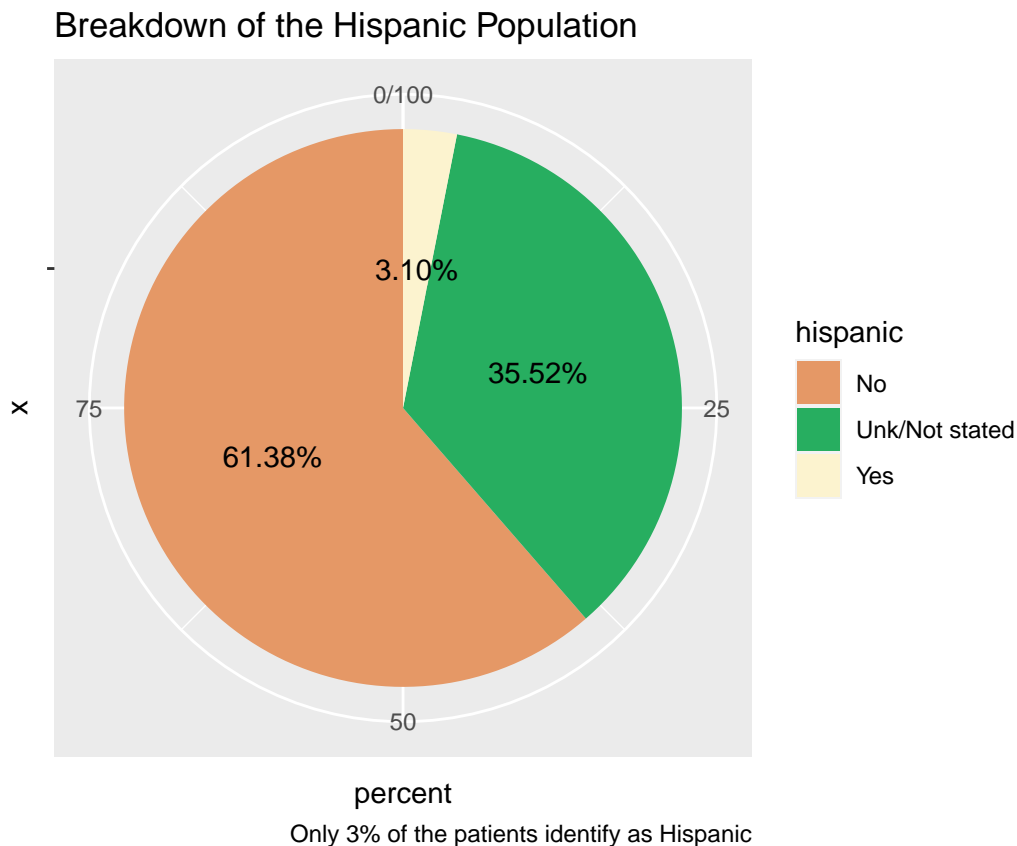
So, the majority of patients are not hispanic, however, we can't conclude not being hispanic makes a person more likey to fall.

```
if (system.file(package = "moonBook") == "") {
  install.packages("moonBook")
}

if (system.file(package = "webr") == "") {
  install.packages("webr")
```

```
}

library(moonBook)
library(ggplot2)
library(webr)
library(dplyr)

rhcounts <- as.data.frame(table(df_mapped$hispanic, df_mapped$race))
colnames(rhcounts)[1]<-"hispanic"
colnames(rhcounts)[2]<-"race"
colnames(rhcounts)[3]<-"frequency"

webr::PieDonut(rhcounts, aes(hispanic, race, count=frequency),
               r0 = 0.3, #hides the center
                r1 = 0.7,
                #explode = 3,
                #explodeDonut = TRUE,
                pieLabelSize = 3,
                donutLabelSize = 4,
                title = "Hispanic and Racial Breakdown")
```

```
## Warning: The `<scale>` argument of `guides()` cannot be `FALSE`. Use "none" instead as
## of ggplot2 3.3.4.
## i The deprecated feature was likely used in the webr package.
##   Please report the issue at <https://github.com/cardiomoon/webr/issues>.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

Hispanic and Racial Breakdown
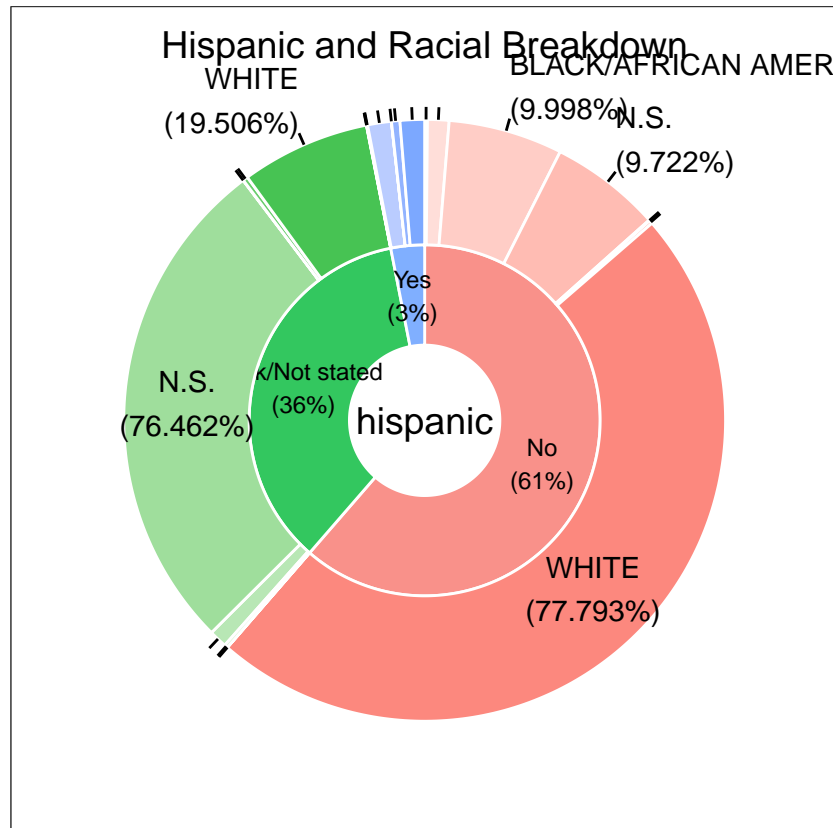
As with the Hispanic pie chart, and with only 3% of the injured set being hispanic, I'm not convinced that hispanic=yes correlates to a fall. Further, no one racial group stands out Certainly, part of the Unk/Not Stated group is probably hispanic, but we don't know for certain. Further obfuscating this part of the hispanic set is the N.S part of the race data, which represents 76% of the Unknown hispanic group.

We'll continue to look at race, but I don't believe there is anything to be gained from including the hispanic column in our model.

```
rm(rhcounts)
```

Diagnosis

Next is a look at the diagnosis column. We'll start off by looking for the most heavily diagnosed injuries.

```
#grouping the diagnosis column, looking for the most frequent injury

##frequency of each diagnosis
dcounts <-df_mapped[, c('diagnosis')]

df_diagnosisfreq <- as.data.frame(table(dcounts))
colnames(df_diagnosisfreq)[1] <- "diagnosis_code"
colnames(df_diagnosisfreq)[2] <- "frequency"

#sort the data in descending order
df_diagnosisfreqSorted <- df_diagnosisfreq[order(-df_diagnosisfreq$frequency),]
head(df_diagnosisfreqSorted)
```

```
##           diagnosis_code frequency
```

```
## 12         57 - FRACTURE       37125
## 17   62 - INTERNAL INJURY      30843
## 8   53 - CONTUSIONS, ABR.      19483
## 14        59 - LACERATION      12417
## 19   64 - STRAIN, SPRAIN        3951
## 13         58 - HEMATOMA        3671
```

```r
#cleanup
rm(dcounts)
```

From this sorting, we know that fractures, internal injuries, contusions abj, and lacertations make up the majority of the 26 listed injuries by a significant amount.

```r
#based on the frequency of this plot, we can see that the first 4 items represent the majority of the d
#lets look at the percentage of the cases

highest4diagnosis <- sum(df_diagnosisfreqSorted$frequency[1:4]) # This equals 99,868
percentoftop4diagnosis <- highest4diagnosis/rowcount    #115128=total injuries 86.7%
print(sprintf("Percentage of the top 4 injuries is: %f%%, or %i total reported injuries.", percentoftop
```

```
## [1] "Percentage of the top 4 injuries is: 86.745188%, or 99868 total reported injuries."
```

```r
library(ggplot2)
library(waffle)


rm(vec, vecs)
```

```
## Warning in rm(vec, vecs): object 'vec' not found
```

```
## Warning in rm(vec, vecs): object 'vecs' not found
```

```r
vec <- numeric()
vecS <- character()
vecColor <- character()

n <- nrow(df_diagnosisfreqSorted)

for(i in 1:n)
{
    row <- df_diagnosisfreqSorted[i, ]

    code <- as.character(row$diagnosis_code)
    freq <- as.integer(row$frequency)

    print(c(code, freq))

    perc <- (freq/rowcount)*100

    vec <- c(vec, perc) #add value to a vector
    sDiag <- ifelse((perc > 10.0), sprintf("%s", code), "")#display only meaning values on the pie char
    vecS <- c(vecS, sDiag)

    sColor <- ifelse((i < 5), "#AA0000", "#0000AA")
    vecColor <- c(vecColor, sColor)
}#end of apply
```

```
## [1] "57 - FRACTURE" "37125"
```

```
## [1] "62 - INTERNAL INJURY" "30843"
## [1] "53 - CONTUSIONS, ABR." "19483"
## [1] "59 - LACERATION" "12417"
## [1] "64 - STRAIN, SPRAIN" "3951"
## [1] "58 - HEMATOMA" "3671"
## [1] "71 - OTHER" "2522"
## [1] "72 - AVULSION" "1845"
## [1] "55 - DISLOCATION" "1336"
## [1] "52 - CONCUSSION" "937"
## [1] "68 - POISONING" "350"
## [1] "61 - NERVE DAMAGE" "230"
## [1] "66 - HEMORRHAGE" "153"
## [1] "60 - DENTAL INJURY" "84"
## [1] "51 - BURNS, THERMAL" "54"
## [1] "63 - PUNCTURE" "39"
## [1] "48 - BURN, SCALD" "19"
## [1] "50 - AMPUTATION" "19"
## [1] "56 - FOREIGN BODY" "16"
## [1] "74 - DERMA/CONJUNCT" "10"
## [1] "54 - CRUSHING" "8"
## [1] "42 - ASPIRATION" "7"
## [1] "49 - BURN, CHEMICAL" "3"
## [1] "65 - ANOXIA" "3"
## [1] "47 - BURN, NOT SPEC." "2"
## [1] "67 - ELECTRIC SHOCK" "1"
```

```r
df_diagnosisfreqSorted <- cbind(df_diagnosisfreqSorted, new_col = vec)
colnames(df_diagnosisfreqSorted)[3]<-"percent"

df_diagnosisfreqSorted <- cbind(df_diagnosisfreqSorted, new_col = vecS)
colnames(df_diagnosisfreqSorted)[4]<-"labels"

df_diagnosisfreqSorted <- cbind(df_diagnosisfreqSorted, new_col = vecColor)
colnames(df_diagnosisfreqSorted)[5]<-"colors"

ggplot(df_diagnosisfreqSorted, aes(x = "", y = frequency, fill = diagnosis_code)) +
  geom_bar(stat="identity", width=1) +
  geom_text(aes(label = labels), position = position_stack(vjust = 0.5)) +
  #scale_fill_manual(values = df_diagnosisfreqSorted$colors) +
  coord_polar("y", start=0)
```

diagnosis_code

42 – ASPIRATION	59 – LACERATION
47 – BURN, NOT SPEC.	60 – DENTAL INJURY
48 – BURN, SCALD	61 – NERVE DAMAGE
49 – BURN, CHEMICAL	62 – INTERNAL INJURY
50 – AMPUTATION	63 – PUNCTURE
51 – BURNS, THERMAL	64 – STRAIN, SPRAIN
52 – CONCUSSION	65 – ANOXIA
53 – CONTUSIONS, ABR.	66 – HEMORRHAGE
54 – CRUSHING	67 – ELECTRIC SHOCK
55 – DISLOCATION	68 – POISONING
56 – FOREIGN BODY	71 – OTHER
57 – FRACTURE	72 – AVULSION
58 – HEMATOMA	74 – DERMA/CONJUNCT

Seeing the majority (86%) of the dataset is diagnosed with these 4 injuries (fractures, internal injuries, contusions abj, and lacertations), our focus will be on how age, race and location play a part with these injuries.

Injuried Diagnosed Over Time

Before that, let's see if when the injuries took place plays a role. However, we will focus on the top 4 diagnosed injuries.

```
if (system.file(package = "sqldf") == "") {
  install.packages("sqldf")
}
library(sqldf)

injuriesbydate <- sqldf('SELECT treatment_date, diagnosis, count(*) as frequency
                        FROM df_mapped
                        WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                        GROUP BY treatment_date, diagnosis
                        ORDER BY treatment_date
                        ')
#, diagnosis, count(diagnosis)
#
#GROUP BY diagnosis, GROUP BY treatment_date
#ORDER BY treatment_date
head(injuriesbydate)

##   treatment_date           diagnosis frequency
```

```
## 1      2019-01-01 53 - CONTUSIONS, ABR.      17
## 2      2019-01-01         57 - FRACTURE      22
## 3      2019-01-01        59 - LACERATION       9
## 4      2019-01-01  62 - INTERNAL INJURY      21
## 5      2019-01-02 53 - CONTUSIONS, ABR.      16
## 6      2019-01-02         57 - FRACTURE      22
```

```
injuriesbydate$diagnosis <- as.factor(injuriesbydate$diagnosis)

ggplot (injuriesbydate, aes (x = treatment_date, y = frequency, group = diagnosis, color = diagnosis))
  geom_line () +
  labs (x = "Treatment Date", y = "Injury Frequency", color = "Diagnosis")
```
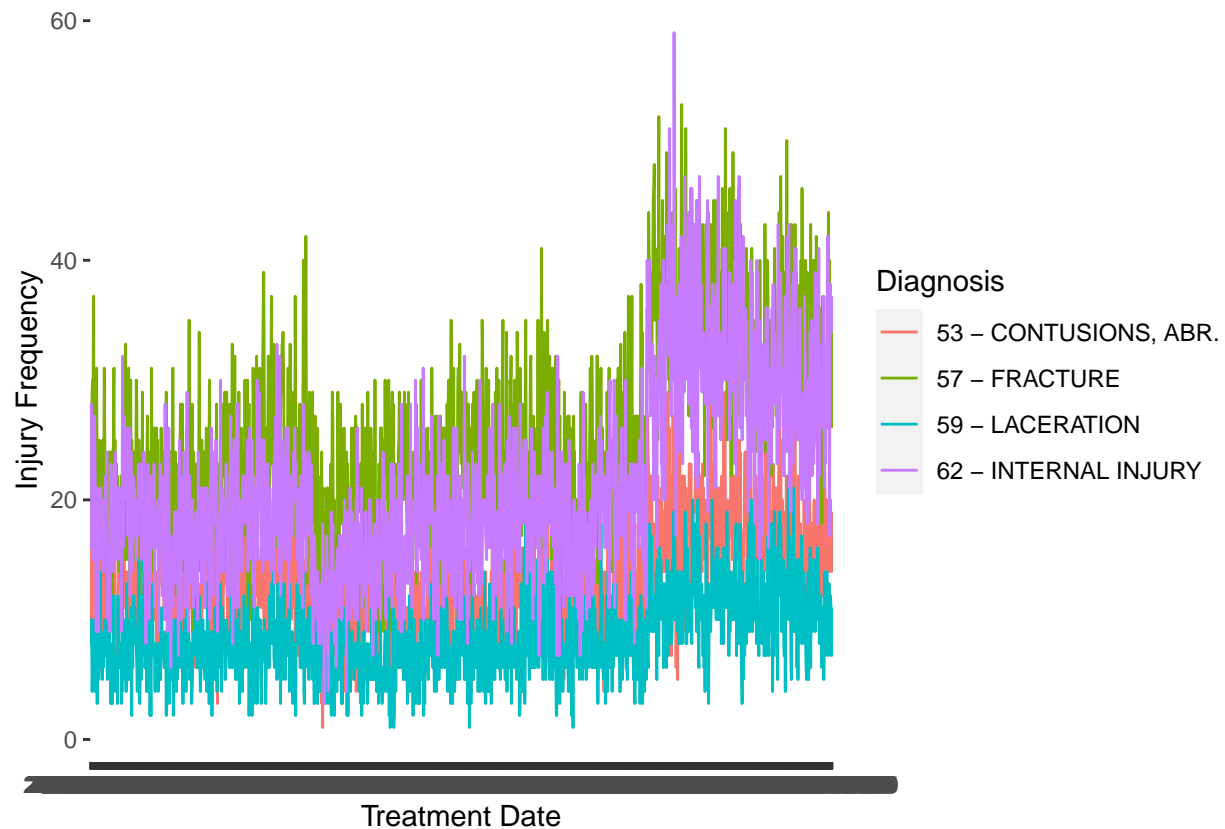

This was meant to show 4 nice lines, but there is a wide date range in this plot. While seeing a specific date is not possible, we can see a spike in the injuries in the last third of of the time period. Looking further into this would be worthwhile.

```
m53 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "53 - CONTUSIONS, ABR.")
            ')

m57 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "57 - FRACTURE")
            ')

m59 <- sqldf('SELECT MEDIAN(frequency) as median
```

```
            FROM injuriesbydate
            WHERE (diagnosis = "59 - LACERATION")
            ')

m62 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "62 - INTERNAL INJURY")
            ')
print(
    sprintf("The median values for each injury over time are 53 = %.2f, 57 =  %.2f, 59 = %.2f, 62 = %.2:
    )
```

[1] "The median values for each injury over time are 53 = 13.00, 57 = 24.00, 59 = 8.00, 62 = 20.00"

```
m53 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "53 - CONTUSIONS, ABR.") AND (treatment_date > \'2022-01-01\')
            ')

m57 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "57 - FRACTURE") AND (treatment_date > \'2022-01-01\')
            ')

m59 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "59 - LACERATION") AND (treatment_date > \'2022-01-01\')
            ')

m62 <- sqldf('SELECT MEDIAN(frequency) as median
            FROM injuriesbydate
            WHERE (diagnosis = "62 - INTERNAL INJURY") AND (treatment_date > \'2022-01-01\')
            ')
print(
    sprintf("The median values for each injury in 2022 are 53 = %.2f, 57 =  %.2f, 59 = %.2f, 62 = %.2f"
    )
```

[1] "The median values for each injury in 2022 are 53 = 17.00, 57 = 35.00, 59 = 11.00, 62 = 31.00"

These results confirm the visualization. The question is, why is there a spike in the injuries? Could it be the result of COVID lock downs ending, and people leaving their homes? Or is there something else? Time permitting, it might be interesting to see what factors are different for the last third of the time range.

```
#cleanup
rm(vec, vecS, vecColor, df_diagnosisfreqSorted)
```

Warning in rm(vec, vecS, vecColor, df_diagnosisfreqSorted): object 'vec' not
found

Warning in rm(vec, vecS, vecColor, df_diagnosisfreqSorted): object 'vecS' not
found

Warning in rm(vec, vecS, vecColor, df_diagnosisfreqSorted): object 'vecColor'
not found

Warning in rm(vec, vecS, vecColor, df_diagnosisfreqSorted): object
'df_diagnosisfreqSorted' not found

```
rm(m53, m57, m59, m62, injuriesbydate)
```

Injuries by Racial Group

This visualization plots the injuries by racial group and gender. Outside of people reporting as white, no one group stood out at disproportional numbers, but breaking this down by injury could expose a problem.

```
injuryracegender <- sqldf('SELECT diagnosis, sex, race, count(*) as frequency
                          FROM df_mapped
                          WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or d:
                          GROUP BY diagnosis, sex, race
                          ')
```

```
ggplot(injuryracegender) +
    geom_point(mapping = aes(x=diagnosis, y=frequency, color=race, alpha=race, shape=sex)) +
    labs(title = "Frequency of Injury By Diagnosis, Gender, & race <100", x="Diagnosis", y="Count") +
    scale_y_continuous(limits = c(0, 99))
```

```
## Warning: Using alpha for a discrete variable is not advised.
```

```
## Warning: Removed 33 rows containing missing values (`geom_point()`).
```
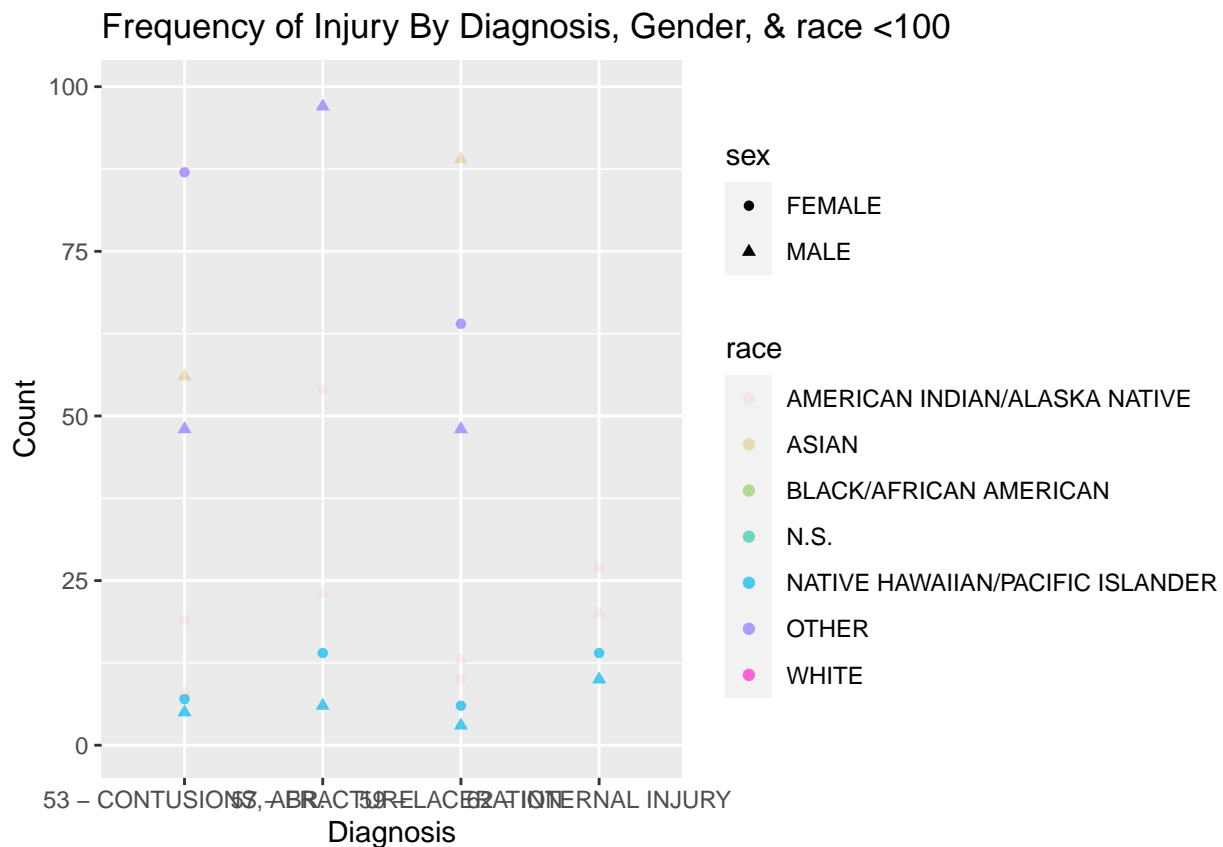

Frequency of Injury By Diagnosis, Gender, & race <100

```
ggplot(injuryracegender) +
    geom_point(mapping = aes(x=diagnosis, y=frequency, color=race, alpha=race, shape=sex)) +
    labs(title = "Frequency of Injury By Diagnosis, Gender, & race <500", x="Diagnosis", y="Count") +
    scale_y_continuous(limits = c(100, 499))
```

```
## Warning: Using alpha for a discrete variable is not advised.
```

```
## Warning: Removed 45 rows containing missing values (`geom_point()`).
```
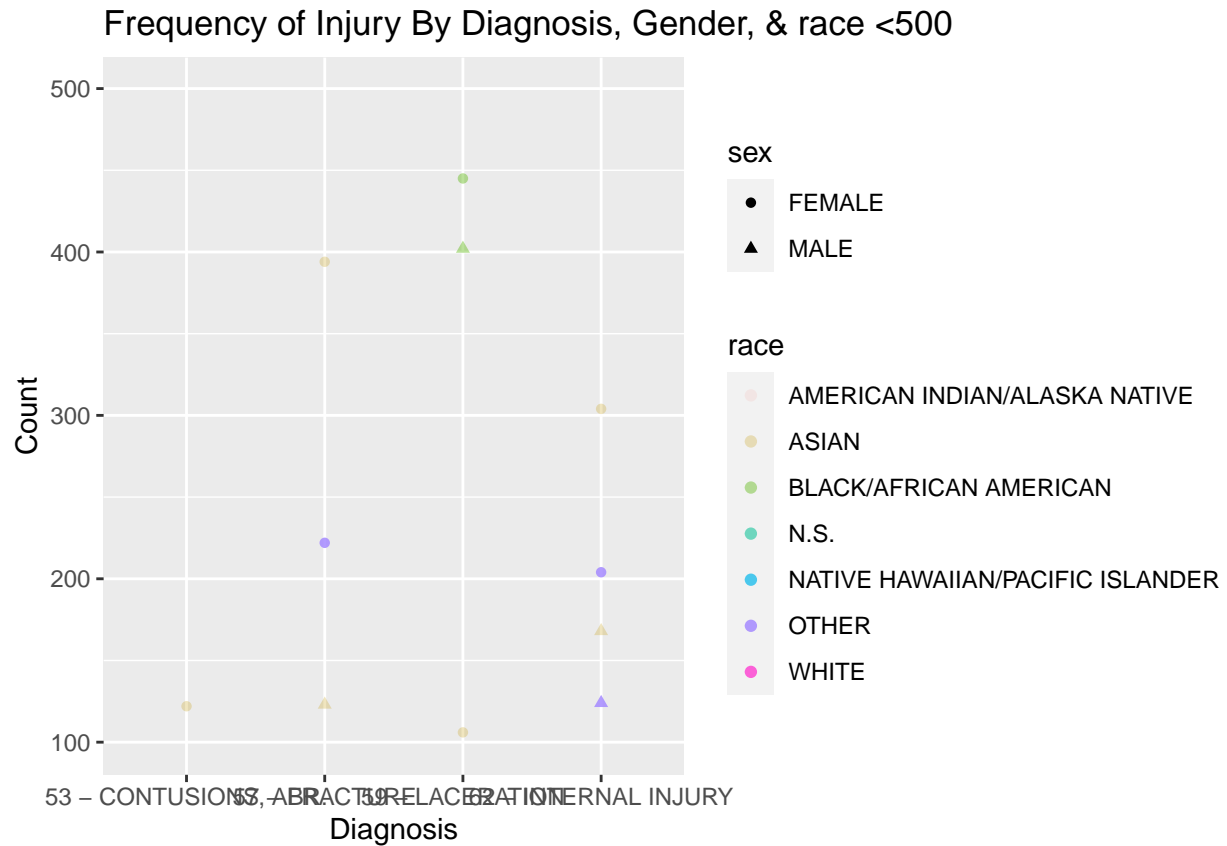

Frequency of Injury By Diagnosis, Gender, & race <500

```
ggplot(injuryracegender) +
    geom_point(mapping = aes(x=diagnosis, y=frequency, color=race, alpha=race, shape=sex)) +
    labs(title = "Frequency of Injury By Diagnosis, Gender, & race <1000", x="Diagnosis", y="Count") +
    scale_y_continuous(limits = c(500, 999))
```

```
## Warning: Using alpha for a discrete variable is not advised.
```

```
## Warning: Removed 52 rows containing missing values (`geom_point()`).
```

Frequency of Injury By Diagnosis, Gender, & race <1000
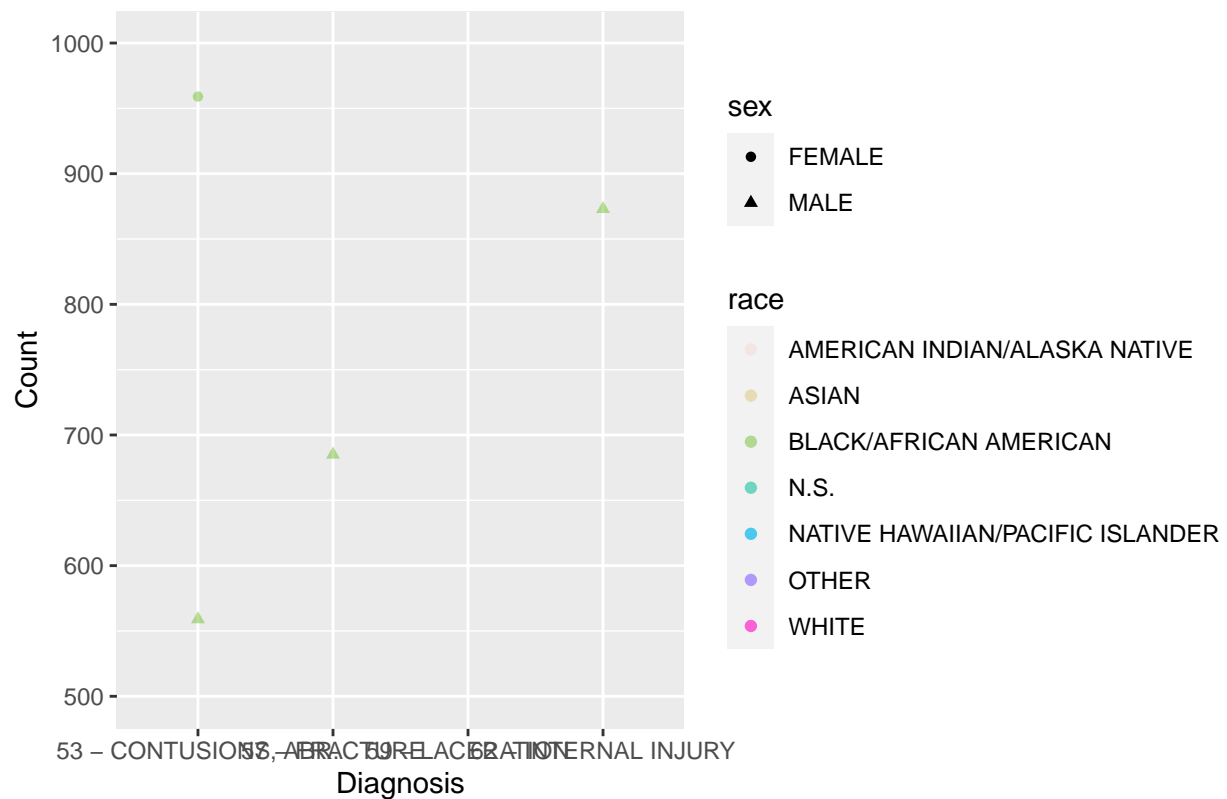

```
ggplot(injuryracegender) +
    geom_point(mapping = aes(x=diagnosis, y=frequency, color=race, alpha=race, shape=sex)) +
    labs(title = "Frequency of Injury By Diagnosis, Gender, & race <3500", x="Diagnosis", y="Count") +
    scale_y_continuous(limits = c(1000, 3499))
```

Warning: Using alpha for a discrete variable is not advised.

Warning: Removed 50 rows containing missing values (`geom_point()`).

Frequency of Injury By Diagnosis, Gender, & race <3500
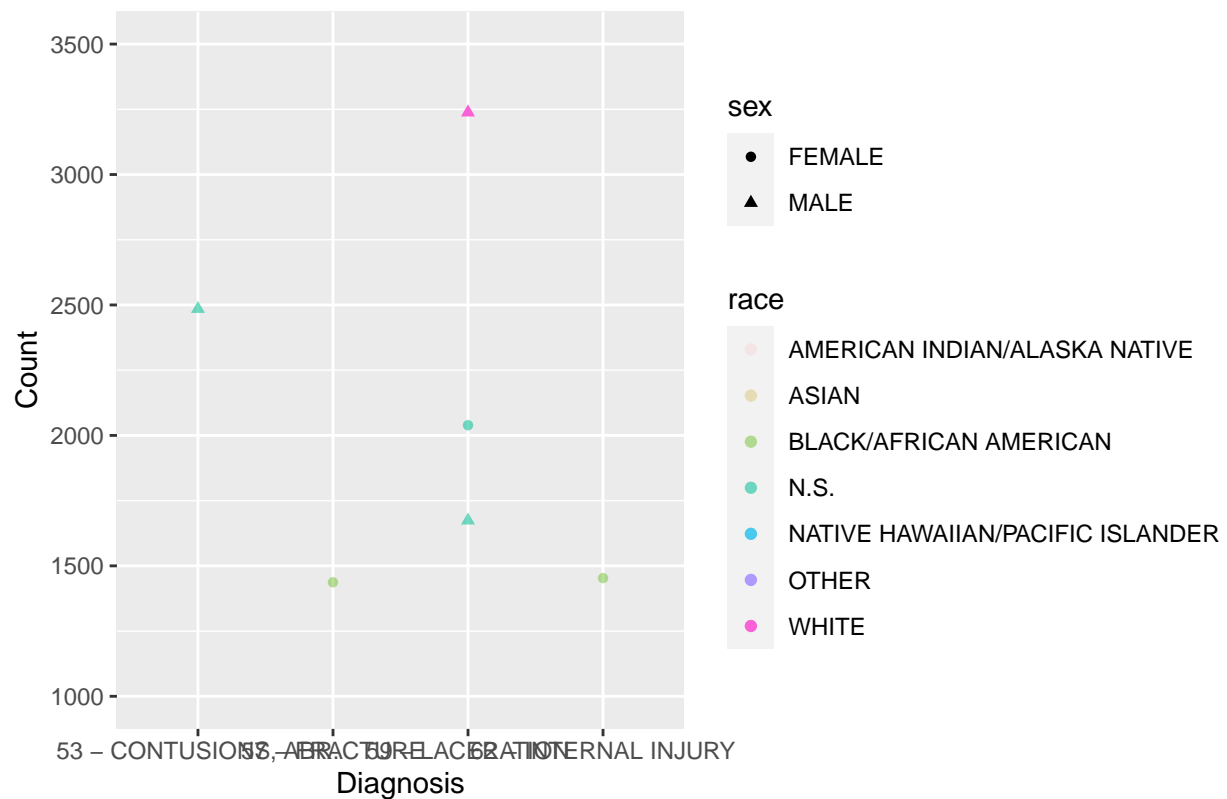

```
ggplot(injuryracegender) +
    geom_point(mapping = aes(x=diagnosis, y=frequency, color=race, alpha=race, shape=sex)) +
    labs(title = "Frequency of Injury By Diagnosis, Gender, & race >=3500", x="Diagnosis", y="Count") +
    scale_y_continuous(limits = c(3500, 7500))
```

```
## Warning: Using alpha for a discrete variable is not advised.
```

```
## Warning: Removed 47 rows containing missing values (`geom_point()`).
```

Frequency of Injury By Diagnosis, Gender, & race >=3500
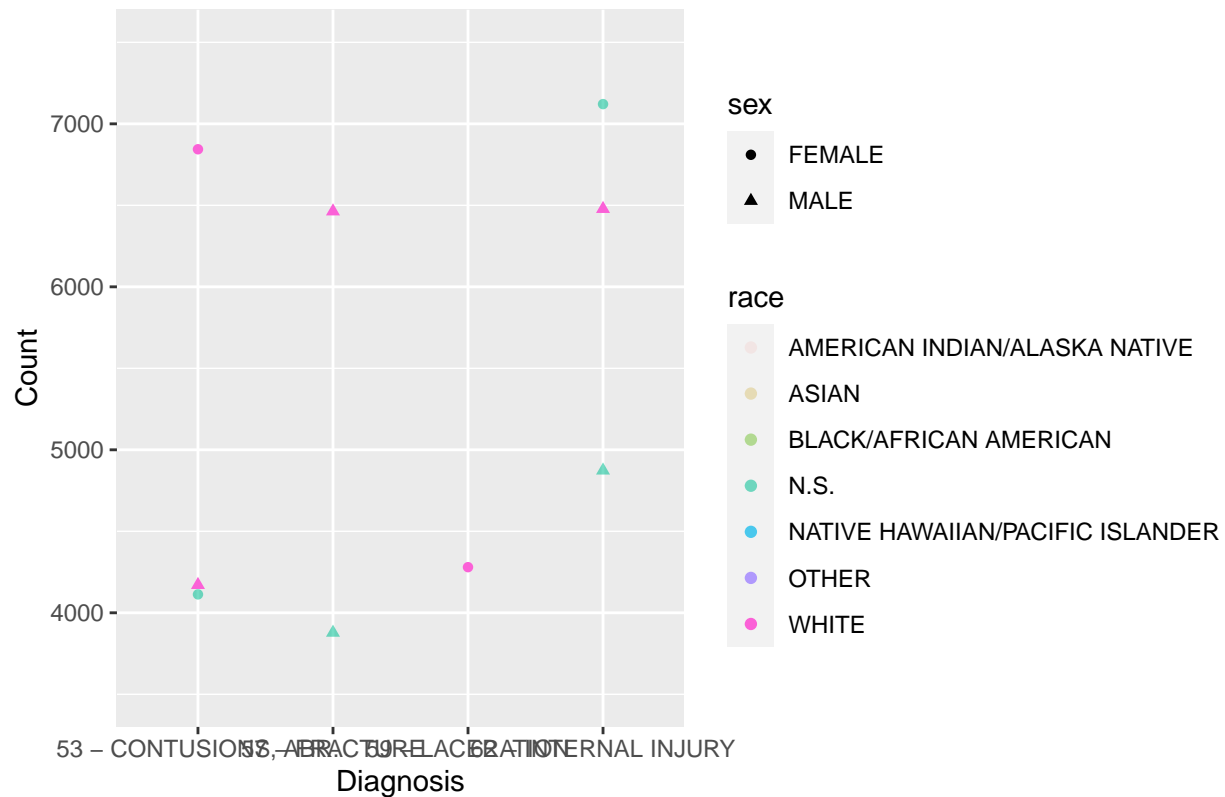
Based on what these charts are showing us, I don't believe minority groups are being disproportionately affected. Whites and N.S. appear to be the greatest number of patients. So, for the scope of this project, I don't see race being a factor.

Fire Involvement, Alcohol, and Drug Use

Related to the injuries are the cases of burns and alcohol having an effect on the falling injuries. Let's take a look to see how the patient population in this dataset has been affected by them.We know from the diagnosis frequencies, that burn injuries

```
##frequency of the burn diagnosis
burncounts <- sqldf('SELECT diagnosis, count(diagnosis) AS "frequency"
                     FROM df_mapped
                     WHERE (diagnosis = "47 - BURN, NOT SPEC." or diagnosis = "49 - BURN, CHEMICAL" d
                     GROUP BY diagnosis
                     ORDER BY frequency DESC')

head(burncounts)
```

Fire Involvement

```
##            diagnosis frequency
## 1  51 - BURNS, THERMAL       54
## 2     48 - BURN, SCALD       19
## 3  49 - BURN, CHEMICAL        3
## 4 47 - BURN, NOT SPEC.        2
```

```r
##frequency of fire_involvement
fcounts <-df_mapped[, c('fire_involvement')]

df_firefreq <- as.data.frame(table(fcounts))
colnames(df_firefreq)[1] <- "fire_involvement"
colnames(df_firefreq)[2] <- "frequency"

#sort the data in descending order
df_FireIsFreqSorted <- df_firefreq[order(-df_firefreq$frequency),]
head(df_FireIsFreqSorted)
```

```
##   fire_involvement frequency
## 4             NO/?    115096
## 1             ? FD        14
## 2               FD         9
## 3            NO FD         9
```

```r
#cleanup
rm(burncounts, fcounts, df_firefreq, df_FireIsFreqSorted)
```

From these numbers, we see there is very few burn injuries. Eightyone total, or 0.7% of the total dataset. For this project, we won't explore burn injuries or fire involvement further because this is such a small part of the population.

Alcohol   Unlike the burns and fire involvement, there isn't a set of injuries that specifically connects with alcohol usage. So, if we see a large number of patients that reported alcohol usage, it will be interesting to see which diagnosis were tied to it.

```r
##frequency of the burn diagnosis
alcoholcounts <- sqldf('SELECT alcohol, count(alcohol) AS "frequency"
                        FROM df_mapped
                        GROUP BY alcohol
                        ORDER BY frequency DESC')

head(alcoholcounts)
```

```
##   alcohol frequency
## 1  No/Unk    112540
## 2     Yes      2588
```

```r
yestotal <- alcoholcounts[2,2]

percent <- yestotal/rowcount*100
print(sprintf("Percentage of cases where alcohol was related to the falling injury: %.2f%%.", percent))
```

```
## [1] "Percentage of cases where alcohol was related to the falling injury: 2.25%."
```

```r
#cleanup
rm(alcoholcounts, yestotal, percent)
```

The number of alcohol related cases is 2588, or 2.25% of the patients in the dataset. For this project, we won't explore alcohol further because this represents a small part of the population.

Drug Use   Let's check to see if drug use played a big impact on the falling injuries.

```r
library(sqldf)
```

```
##frequency of the burn diagnosis
drugcounts <- sqldf('SELECT drug, count(drug) AS "frequency"
                     FROM df_mapped
                     GROUP BY drug
                     ORDER BY frequency DESC')

head(drugcounts)

##      drug frequency
## 1 No/Unk    110483
## 2    Yes      4645

yestotal <- drugcounts[2,2]

percent <- yestotal/rowcount*100
print(sprintf("Percentage of cases where alcohol was related to the falling injury: %.2f%%.", percent))

## [1] "Percentage of cases where alcohol was related to the falling injury: 4.03%."
#cleanup
rm(drugcounts, yestotal, percent)
```

Drug use covers 4% of the injuries, or 4645 cases. This does represent a small amount of the patient population.

Locations Where Patients Reported Getting Hurt

I want to take a quick look at where people are getting hurt. This could impact how we look for correlations later on.

```
locationresults <- sqldf('SELECT location, count(location) AS "frequency"
                          FROM df_mapped
                          WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                          GROUP BY location')

pie(locationresults$frequency, labels = locationresults$location, main="Location Breakdown")
```

Location Breakdown
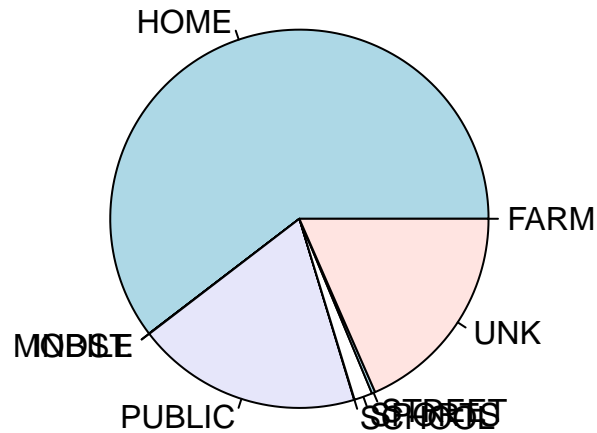

```r
#Add home, public, and unknown, the top 3 locations for injuries
locationsum <- locationresults[2, 2] + locationresults[5, 2] + locationresults[9, 2]
print(sprintf("The total of home, public, and unknown is %i. This represents %.2f%% of the total dataset
```

```
## [1] "The total of home, public, and unknown is 97947. This represents 0.85% of the total dataset."
```

```r
rm(locationsum)
#percentoffemales <- (gentable[2, 'Freq']/rowcount*100)
#ut <- sprintf("Percentage of females in this dataset: %f)", percentoffemales) #percentage of females i
#out
```

This pie chart isn't the prettiest, but it does clearly show that Home is the primary location where injuries take place. This is followed up by Public and Unknown. Unknown is a frustrating result for this portion of the data, because it isn't clear how to mitigate problems at this location.

Diagnosis, Race, and Gender

Let's look to see if there is any correlation between the injuries, race, and gender, with the focus being on the top 4 injuries identified above.

```r
if (system.file(package = "sqldf") == "") {
  install.packages("sqldf")
}

library(sqldf)
library(dplyr)
library(plyr)
library(ggplot2)
```

```
#frequency of each diagnosis by gender
results <- sqldf('SELECT diagnosis, sex, count(*) AS "frequency"
                        FROM df_mapped
                        WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                        GROUP BY diagnosis, sex
                        ORDER BY diagnosis, sex, frequency DESC')


#plot them
ggplot(results) +
    geom_count(mapping = aes(x=diagnosis, y=frequency, color=sex)) +
    labs(title = "Frequency of Injury By Diagnosis & Gender", x="Diagnosis", y="Count")
```
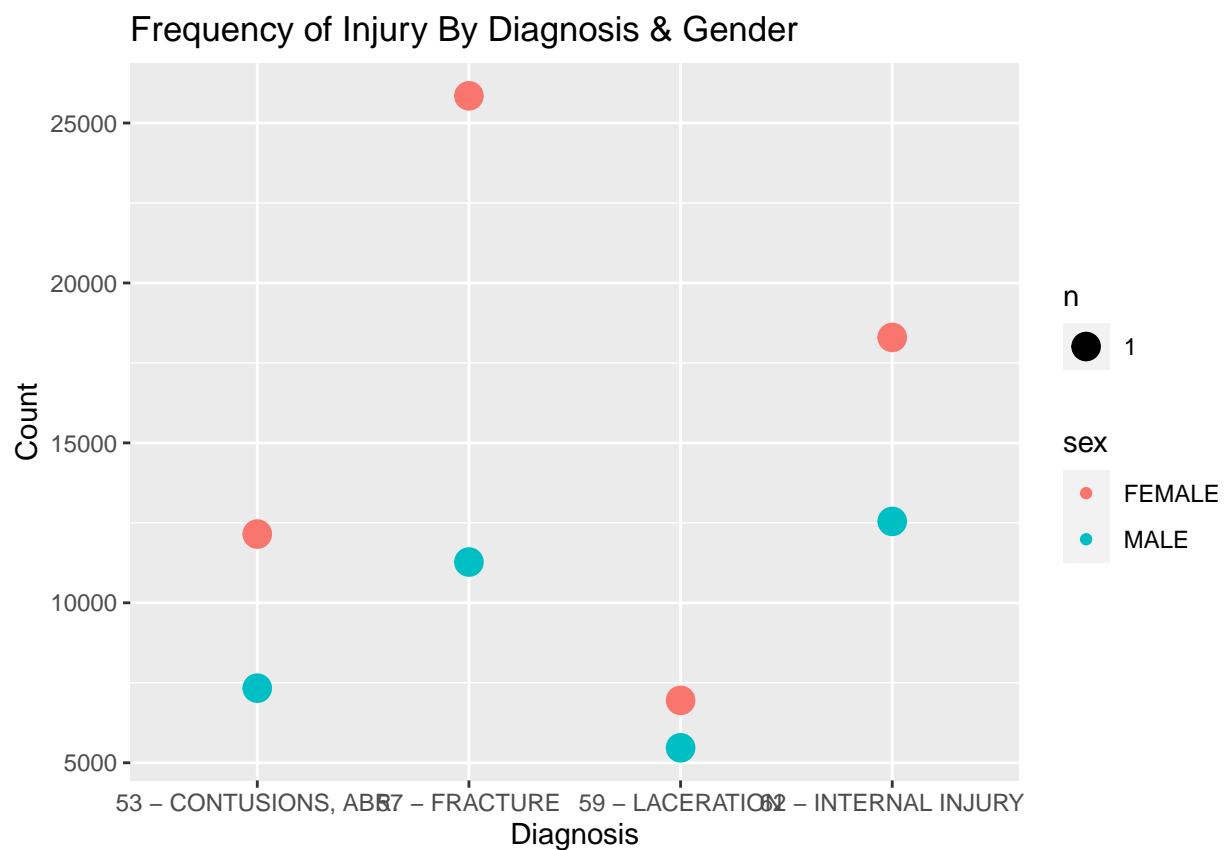

From this plot, we can see that women are severely diagnosed with "57 - Fractures" and "63 - Internal Injury"; however, women suffer from all of these top diagnosis more than men. **So special attention** has to be paid for addressing the factors affecting women.

Diagnosis, Sex (Gender), and Location

So far, we've seen individual breakdowns of the data, but let's start mixing up the columns in the hopes of exposing a culprete to the problem.

```
locationresults <- sqldf('SELECT location, diagnosis, sex, count(sex) AS "frequency"
                        FROM df_mapped
                        WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                        GROUP BY location, diagnosis, sex')
```

```
sum(locationresults$frequency) #results = 99868
```

```
## [1] 99868
```

```
    #<-    df_firefreq[order(-df_firefreq$frequency),]
sorted <- locationresults[order(-locationresults$frequency),]
```

```
head(sorted)
```

```
##    location              diagnosis    sex frequency
## 6       HOME          57 - FRACTURE FEMALE     15992
## 10      HOME  62 - INTERNAL INJURY FEMALE     10866
## 11      HOME  62 - INTERNAL INJURY   MALE      7432
## 4       HOME 53 - CONTUSIONS, ABR. FEMALE      7316
## 7       HOME          57 - FRACTURE   MALE      6949
## 57       UNK          57 - FRACTURE FEMALE      5046
```

```
rm(locationresults, sorted)
```

This result is interesting because we see that fractures and internal injuries affect women by a significant amount **at home**.

Location, Diagnosis, Body Part

Now that we've identified females are being disproportional hurt at home, which body_part is affected the most?

I'm focused on the women, however, let's continue to look at men in the query.

```
locationresults <- sqldf('SELECT location, diagnosis, body_part, sex, count(sex) AS "frequency"
                         FROM df_mapped
                         WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                         GROUP BY location, diagnosis, body_part,  sex')
sum(locationresults$frequency) #results = 99868
```

```
## [1] 99868
```

```
    #<-    df_firefreq[order(-df_firefreq$frequency),]
sorted <- locationresults[order(-locationresults$frequency),]
```

```
head(sorted)
```

```
##     location              diagnosis          body_part    sex frequency
## 140     HOME 62 - INTERNAL INJURY        75 - HEAD FEMALE     10697
## 141     HOME 62 - INTERNAL INJURY        75 - HEAD   MALE      7216
## 76      HOME          57 - FRACTURE 79 - LOWER TRUNK FEMALE      5192
## 286   PUBLIC 62 - INTERNAL INJURY        75 - HEAD FEMALE      4130
## 591      UNK 62 - INTERNAL INJURY        75 - HEAD FEMALE      3047
## 287   PUBLIC 62 - INTERNAL INJURY        75 - HEAD   MALE      2626
```

These results are helpful. Previously we saw fractures at the most serious problem. However, when we factor in the body_part we see the internal injuries to the head at home and in the public location is the most serious problem.

```
rm(locationresults, sorted)
```

Let's look at this same data with just the women.

```
locationresults <- sqldf('SELECT location, diagnosis, body_part, sex, count(sex) AS "frequency"
                          FROM df_mapped
                          WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or dia
                              (sex = "FEMALE")
                          GROUP BY location, diagnosis, body_part,  sex')
sum(locationresults$frequency) #results = 99868
```

[1] 63248

```
    #<-    df_firefreq[order(-df_firefreq$frequency),]
sorted <- locationresults[order(-locationresults$frequency),]

head(sorted)
```

```
##     location              diagnosis         body_part    sex frequency
## 70      HOME 62 - INTERNAL INJURY        75 - HEAD FEMALE     10697
## 38      HOME       57 - FRACTURE 79 - LOWER TRUNK FEMALE      5192
## 148   PUBLIC 62 - INTERNAL INJURY        75 - HEAD FEMALE      4130
## 305      UNK 62 - INTERNAL INJURY        75 - HEAD FEMALE      3047
## 28      HOME       57 - FRACTURE 31 - UPPER TRUNK FEMALE      2215
## 56      HOME     59 - LACERATION        75 - HEAD FEMALE      1785
```

From this table, we see that when the diagnosis is an internal injury, the head is the body part injuried the most. Home is the most likely place for the injuries, followed by the public or unknown locations. Next most frequent injury is the upper or lower trunk experiencing fractures.

Let do a similar query for the males to see how they are affected.

```
locationresults <- sqldf('SELECT location, diagnosis, body_part, sex, count(sex) AS "frequency"
                          FROM df_mapped
                          WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or dia
                              (sex = "MALE")
                          GROUP BY location, diagnosis, body_part,  sex')
sum(locationresults$frequency) #results = 99868
```

[1] 36620

```
    #<-    df_firefreq[order(-df_firefreq$frequency),]
sorted <- locationresults[order(-locationresults$frequency),]

head(sorted)
```

```
##     location              diagnosis         body_part  sex frequency
## 71      HOME 62 - INTERNAL INJURY        75 - HEAD MALE      7216
## 139   PUBLIC 62 - INTERNAL INJURY        75 - HEAD MALE      2626
## 287      UNK 62 - INTERNAL INJURY        75 - HEAD MALE      2155
## 39      HOME       57 - FRACTURE 79 - LOWER TRUNK MALE      2146
## 29      HOME       57 - FRACTURE 31 - UPPER TRUNK MALE      1735
## 57      HOME     59 - LACERATION        75 - HEAD MALE      1261
```

The results for men are very similar in that internal injuries to the head are hit the male population with the greatest frequency. Also, like the females, we see that males experience the fractures to the lower and upper trunk most frequently (after the head injuries), and the major of these injuries are at home.

Products

A quick look at the product numbers.

```r
library(sqldf)

productresults <- sqldf('SELECT product_1, count(product_1) AS "frequency"
                        FROM df_mapped
                        WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                        GROUP BY product_1')

productresults <- productresults[order(-productresults$frequency),]

#get the results that equate to at least 1% of the patients (ie 1000+)
productresults <- sqldf('SELECT *
                        FROM productresults
                        WHERE frequency > 1000
                        ')




head(productresults)
```

```
##                                                product_1 frequency
## 1                1807 - FLOORS OR FLOORING MATERIALS      29348
## 2 4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED        12525
## 3                             1842 - STAIRS OR STEPS      11182
## 4           4074 - CHAIRS, OTHER OR NOT SPECIFIED          5105
## 5                       611 - BATHTUBS OR SHOWERS          3961
## 6                               649 - TOILETS              3080
```

The variable productresults will be used below

Connections to Products?

Next, let's see if there is a tie to the products.

```r
library(sqldf)

locationresults <- sqldf('SELECT location, diagnosis, body_part, product_1,  sex, count(sex) AS "frequen
                        FROM df_mapped
                        WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                        GROUP BY location, diagnosis, body_part, product_1,  sex')

    #<-    df_firefreq[order(-df_firefreq$frequency),]
sorted <- locationresults[order(-locationresults$frequency),]

head(sorted)
```

```
##      location             diagnosis        body_part
## 5296     HOME 62 - INTERNAL INJURY        75 - HEAD
## 5297     HOME 62 - INTERNAL INJURY        75 - HEAD
## 2943     HOME        57 - FRACTURE 79 - LOWER TRUNK
## 7838   PUBLIC 62 - INTERNAL INJURY        75 - HEAD
## 5453     HOME 62 - INTERNAL INJURY        75 - HEAD
## 7839   PUBLIC 62 - INTERNAL INJURY        75 - HEAD
##                                        product_1    sex frequency
## 5296                1807 - FLOORS OR FLOORING MATERIALS FEMALE      3490
## 5297                1807 - FLOORS OR FLOORING MATERIALS   MALE      2196
```

```
## 2943                   1807 - FLOORS OR FLOORING MATERIALS FEMALE      2000
## 7838                   1807 - FLOORS OR FLOORING MATERIALS FEMALE      1837
## 5453 4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED FEMALE      1332
## 7839                   1807 - FLOORS OR FLOORING MATERIALS   MALE      1158
```

This query shows the majority of products are tied to floors or flooring materials. Does this mean the patient just fell on the floor leading to the internal injuries and fractures? Also of note home, internal injury, and heads are the most likely to be the combination for our patients. Let's look at the same data with just the floors.

```
locationresults <- sqldf('SELECT location, diagnosis, body_part, product_1,  count(product_1) AS "freque
                         FROM df_mapped
                         WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or di
                                AND (product_1 = "1807 - FLOORS OR FLOORING MATERIALS")
                         GROUP BY location, diagnosis, body_part, product_1')
sorted <- locationresults[order(-locationresults$frequency),]
head(sorted)
```

```
##      location           diagnosis         body_part
## 66       HOME 62 - INTERNAL INJURY        75 - HEAD
## 132    PUBLIC 62 - INTERNAL INJURY        75 - HEAD
## 37       HOME        57 - FRACTURE 79 - LOWER TRUNK
## 215       UNK 62 - INTERNAL INJURY        75 - HEAD
## 107    PUBLIC        57 - FRACTURE 79 - LOWER TRUNK
## 39       HOME        57 - FRACTURE   81 - UPPER LEG
##                                  product_1 frequency
## 66  1807 - FLOORS OR FLOORING MATERIALS      5686
## 132 1807 - FLOORS OR FLOORING MATERIALS      2995
## 37  1807 - FLOORS OR FLOORING MATERIALS      2755
## 215 1807 - FLOORS OR FLOORING MATERIALS      1175
## 107 1807 - FLOORS OR FLOORING MATERIALS      1109
## 39  1807 - FLOORS OR FLOORING MATERIALS       792
```

```
sum <- sum(locationresults$frequency)
percent <- sum/rowcount * 100
```

```
print(  sprintf("The total frequency of the floor/ flooring materials injuries is %i, or %.2f%%.", sum
```

```
## [1] "The total frequency of the floor/ flooring materials injuries is 29348, or 25.49%."
```

As we combine the various data columns to our data exploration, we are seeing distinct groupings of the factors that make up this dataset.

Tieing Together the Data Exploration.

As previously observed, females at home, suffer internal injuries to their heads when landing on the floors. Let's look at the revised dataset when we look at the most frequently sustain injuries.

```
library(sqldf)

#
locationresults <- sqldf('select sex, location, diagnosis, body_part, frequency
                         from(
                               SELECT sex, location, diagnosis, body_part, count(*) AS "frequency"
                               FROM df_mapped
                               WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" o
```

```
                              GROUP BY sex, location, diagnosis, body_part
                              ORDER BY sex, location, diagnosis, body_part
                      ) as t
                      WHERE frequency > 500
                      ORDER BY frequency DESC
                      ')

mosaicplot(xtabs(frequency ~ sex + diagnosis + location +  body_part, data = locationresults),
          main = "Combination of All Major Injury Factors",
          shade = TRUE)
```

Combination of All Major Injury Factors
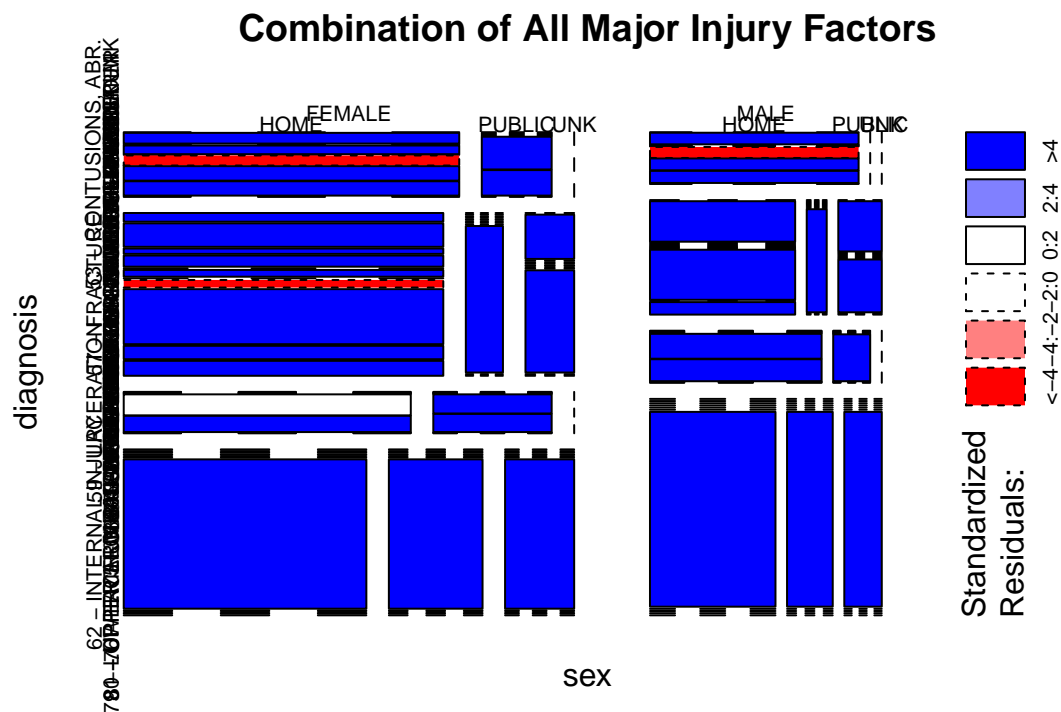

```
if (system.file(package = "knitr") == "") {
  install.packages("knitr")
}
library(knitr)
```

```
kable(locationresults, format = "html", align = "c", caption = "Combination of All Major Injury Factors"
```

Combination of All Major Injury Factors

sex

location

diagnosis

body_part

frequency

FEMALE

HOME

62 - INTERNAL INJURY

75 - HEAD

10697

MALE

HOME

62 - INTERNAL INJURY

75 - HEAD

7216

FEMALE

HOME

57 - FRACTURE

79 - LOWER TRUNK

5192

FEMALE

PUBLIC

62 - INTERNAL INJURY

75 - HEAD

4130

FEMALE

UNK

62 - INTERNAL INJURY

75 - HEAD

3047

MALE

PUBLIC

62 - INTERNAL INJURY

75 - HEAD

2626

FEMALE

HOME

57 - FRACTURE

31 - UPPER TRUNK

2215

MALE

UNK

62 - INTERNAL INJURY

75 - HEAD

2155

MALE

HOME

57 - FRACTURE

79 - LOWER TRUNK

2146

FEMALE

HOME

59 - LACERATION

75 - HEAD

1785

MALE

HOME

57 - FRACTURE

31 - UPPER TRUNK

1735

FEMALE

PUBLIC

57 - FRACTURE

79 - LOWER TRUNK

1606

FEMALE

UNK

57 - FRACTURE

79 - LOWER TRUNK

1470

FEMALE

HOME

53 - CONTUSIONS, ABR.

76 - FACE

1434

FEMALE

HOME

53 - CONTUSIONS, ABR.

79 - LOWER TRUNK

1418

FEMALE

HOME

57 - FRACTURE

81 - UPPER LEG

1408

FEMALE

HOME

59 - LACERATION

76 - FACE

1376

FEMALE

HOME

57 - FRACTURE

80 - UPPER ARM

1265

MALE

HOME

59 - LACERATION

75 - HEAD

1261

MALE

HOME

59 - LACERATION

76 - FACE

1115

FEMALE

HOME

53 - CONTUSIONS, ABR.

31 - UPPER TRUNK

1060

FEMALE

HOME

57 - FRACTURE

34 - WRIST

1055

FEMALE

HOME

53 - CONTUSIONS, ABR.

75 - HEAD

993

FEMALE

HOME

53 - CONTUSIONS, ABR.

35 - KNEE

861

FEMALE

HOME

57 - FRACTURE

30 - SHOULDER

824

MALE

HOME

53 - CONTUSIONS, ABR.

79 - LOWER TRUNK

744

MALE

HOME

53 - CONTUSIONS, ABR.

76 - FACE

731

MALE

HOME

53 - CONTUSIONS, ABR.

31 - UPPER TRUNK

716

FEMALE

HOME

57 - FRACTURE

76 - FACE

714

MALE

HOME

53 - CONTUSIONS, ABR.

75 - HEAD

678

MALE

UNK

57 - FRACTURE

79 - LOWER TRUNK

678

FEMALE

PUBLIC

53 - CONTUSIONS, ABR.

76 - FACE

675

FEMALE

PUBLIC

59 - LACERATION

75 - HEAD

669

MALE

UNK

57 - FRACTURE

31 - UPPER TRUNK

645

FEMALE

HOME

57 - FRACTURE

37 - ANKLE

638

FEMALE

UNK

57 - FRACTURE

31 - UPPER TRUNK

637

FEMALE

PUBLIC

59 - LACERATION

76 - FACE

634

MALE

PUBLIC

57 - FRACTURE

79 - LOWER TRUNK

608

MALE

HOME

57 - FRACTURE

81 - UPPER LEG

536

FEMALE

PUBLIC

53 - CONTUSIONS, ABR.

79 - LOWER TRUNK

526

FEMALE

HOME

57 - FRACTURE

33 - LOWER ARM

512

MALE

PUBLIC

59 - LACERATION

76 - FACE

512

Body Part 2, Products 2, and Product 3

I'm reluctant to delve too deeply into these columns. First, these 3 columns are mostly blank, so where there is data in these columns, it seems to be a secondary result of the body_part and product_1. In other words, if we come up with a way to prevent injury to body_part with product_1, then we can prevent problems with body_part_2 and product_2 and product_3.

Addition Feature Engineering

This part of the project we will modify the dataset in order to allow the unsupervised model to run efficiently. The next few blocks of code will walk through this process step-by-step.

Removing extraneous Rows

Based on what we've learned through the data exploration, I believe we can focus on the top 4 diagnosed injuries: fractures, internal injuries, contusions, and lacerations. These 4 diagnoses comprise 86% of the dataset. Next, is the location data. The top 3 represent the vast majority of the cases. Finally, I took the top 14 product_1 items. This is somewhat arbitraty, but unlike the other columns, there isn't a small subset that stands out. So, I opted to take any product where there was at least ~1% of the dataset.

```r
#select the top 4 injuries

library(sqldf)
df_modelingdata <- sqldf('SELECT *
                          FROM df_mapped
                          WHERE (diagnosis = "53 - CONTUSIONS, ABR." or diagnosis = "57 - FRACTURE" or d
                         ')


#select the top 3 locations
df_modelingdata <- sqldf('SELECT *
                          FROM df_modelingdata
                          WHERE (location = "HOME" or location = "PUBLIC" or location = "UNK")
                         ')


#select the top 14 products
df_modelingdata <- sqldf('SELECT *
                          FROM df_modelingdata
                          WHERE (product_1 = "1807 - FLOORS OR FLOORING MATERIALS"
                                 or product_1 = "4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED"
                                 or product_1 = "1842 - STAIRS OR STEPS"
                                 or product_1 = "4074 - CHAIRS, OTHER OR NOT SPECIFIED"
                                 or product_1 = "611 - BATHTUBS OR SHOWERS"
                                 or product_1 = "649 - TOILETS"
                                 or product_1 = "4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR
                                 or product_1 = "676 - RUGS OR CARPETS, NOT SPECIFIED"
                                 or product_1 = "1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED ST
                                 or product_1 = "1615 - FOOTWEAR"
                                 or product_1 = "4078 - LADDERS, OTHER OR NOT SPECIFIED"
                                 or product_1 = "1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPI
                                 or product_1 = "1893 - DOORS, OTHER OR NOT SPECIFIED"
                                 or product_1 = "3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)")
                         ')

#verify the smaller dataset.
modelrowct <- nrow(df_modelingdata)

print(sprintf("The new row count is %i. The percentage of the row count in the modified dataset vs the o
```

```
## [1] "The new row count is 77467. The percentage of the row count in the modified dataset vs the orig
```

```
head(df_modelingdata)
```

```
##   cpsc_case_number
## 1        190103269
## 2        190103270
## 3        190103291
## 4        190103337
## 5        190103341
## 6        190103342
##                                                                           narra
## 1              94YOM FELL TO THE FLOOR AT THE NURSING HOME ONTO BACK OF HEAD SUSTAINED A SUBDURAL HEM
## 2                        86YOM FELL IN THE SHOWER AT HOME AND SUSTAINED A CLOSED HEAD I
## 3 67YOF WAS AT A FRIENDS HOUSE AND SLIPPED ON WATER THAT WAS ON THE FLOOR AND SUSTAINED A RIGHT RADI
## 4     76YOF HAD A SLIP AND FALL AT HOME STRUCK HEAD ON A WOODEN FLOOR AND SUSTAINED A CLOSED HEAD I
## 5                              88YOF FELL TO THE FLOOR AT HOME UNRESPONSIVE SUBDURAL HEM
## 6                        87YOF FELL GOING DOWN A FLIGHT OF STAIRS AND SUSTAINED A LEFT H
##   treatment_date age    sex race other_race        hispanic         diagnosis
## 1     2019-01-01  94   MALE N.S.            Unk/Not stated 62 - INTERNAL INJURY
## 2     2019-01-01  86   MALE N.S.            Unk/Not stated 62 - INTERNAL INJURY
## 3     2019-01-01  67 FEMALE N.S.            Unk/Not stated      57 - FRACTURE
## 4     2019-01-01  76 FEMALE N.S.            Unk/Not stated 62 - INTERNAL INJURY
## 5     2019-01-01  88 FEMALE N.S.            Unk/Not stated 62 - INTERNAL INJURY
## 6     2019-01-01  87 FEMALE N.S.            Unk/Not stated      57 - FRACTURE
##   other_diagnosis diagnosis_2 other_diagnosis_2       body_part body_part_2
## 1                        <NA>                     75 - HEAD         <NA>
## 2                        <NA>                     75 - HEAD         <NA>
## 3                        <NA>               33 - LOWER ARM         <NA>
## 4                        <NA>                     75 - HEAD         <NA>
## 5                        <NA>                     75 - HEAD         <NA>
## 6                        <NA>               79 - LOWER TRUNK         <NA>
##                         disposition location fire_involvement alcohol
## 1 4 - TREATED AND ADMITTED/HOSPITALIZED   PUBLIC             NO/?  No/Unk
## 2 4 - TREATED AND ADMITTED/HOSPITALIZED     HOME             NO/?  No/Unk
## 3    1 - TREATED/EXAMINED AND RELEASED     HOME             NO/?  No/Unk
## 4    1 - TREATED/EXAMINED AND RELEASED     HOME             NO/?  No/Unk
## 5 4 - TREATED AND ADMITTED/HOSPITALIZED     HOME             NO/?  No/Unk
## 6 4 - TREATED AND ADMITTED/HOSPITALIZED     HOME             NO/?  No/Unk
##    drug                          product_1 product_2 product_3
## 1 No/Unk 1807 - FLOORS OR FLOORING MATERIALS  0 - None  0 - None
## 2 No/Unk           611 - BATHTUBS OR SHOWERS  0 - None  0 - None
## 3 No/Unk 1807 - FLOORS OR FLOORING MATERIALS  0 - None  0 - None
## 4 No/Unk 1807 - FLOORS OR FLOORING MATERIALS  0 - None  0 - None
## 5 No/Unk 1807 - FLOORS OR FLOORING MATERIALS  0 - None  0 - None
## 6 No/Unk             1842 - STAIRS OR STEPS  0 - None  0 - None
```

The new row count matches what was shown in the data exploration. There must have been a lot of overlap with the eliminated injury and location row, because the total comes down to 85%. The first filtering (of the injuries) brought the total down to 86% of the original, so removing these locations didn't change much.

Removing extraneous Columns

Next, the data exploration revealed that race, other race, hispanic, fire, alcohol, and drug use did not appear to be major factors in the fall. So these columns will be eliminated.

The focus of this project is to prevent falling injuries. The disposition column represents the end of the

incident, which doesn't help us prevent the fall. So, this column will be eliminated.

Columns other race, other diagnosis, diagnosis 2, other diagnosis 2, body part 2, product 2, and product 3 contain too many empty values. So, these columns will be eliminated as well.

```
library(dplyr)
df_modelingdata <- select(df_modelingdata, -c(race, hispanic, fire_involvement, alcohol, drug, dispositi

df_modelingdata <- select(df_modelingdata, -c(other_race, other_diagnosis, diagnosis_2, other_diagnosis_

head(df_modelingdata)
```

```
##   cpsc_case_number
## 1        190103269
## 2        190103270
## 3        190103291
## 4        190103337
## 5        190103341
## 6        190103342
##                                                                                            narra
## 1              94YOM FELL TO THE FLOOR AT THE NURSING HOME ONTO BACK OF HEAD SUSTAINED A SUBDURAL HEMA
## 2                                          86YOM FELL IN THE SHOWER AT HOME AND SUSTAINED A CLOSED HEAD I
## 3 67YOF WAS AT A FRIENDS HOUSE AND SLIPPED ON WATER THAT WAS ON THE FLOOR AND SUSTAINED A RIGHT RADIU
## 4       76YOF HAD A SLIP AND FALL AT HOME STRUCK HEAD ON A WOODEN FLOOR AND SUSTAINED A CLOSED HEAD I
## 5                                              88YOF FELL TO THE FLOOR AT HOME UNRESPONSIVE SUBDURAL HEMA
## 6                                          87YOF FELL GOING DOWN A FLIGHT OF STAIRS AND SUSTAINED A LEFT H
##   treatment_date age    sex          diagnosis        body_part location
## 1     2019-01-01  94   MALE 62 - INTERNAL INJURY      75 - HEAD   PUBLIC
## 2     2019-01-01  86   MALE 62 - INTERNAL INJURY      75 - HEAD     HOME
## 3     2019-01-01  67 FEMALE        57 - FRACTURE  33 - LOWER ARM     HOME
## 4     2019-01-01  76 FEMALE 62 - INTERNAL INJURY      75 - HEAD     HOME
## 5     2019-01-01  88 FEMALE 62 - INTERNAL INJURY      75 - HEAD     HOME
## 6     2019-01-01  87 FEMALE        57 - FRACTURE 79 - LOWER TRUNK     HOME
##                         product_1
## 1 1807 - FLOORS OR FLOORING MATERIALS
## 2           611 - BATHTUBS OR SHOWERS
## 3 1807 - FLOORS OR FLOORING MATERIALS
## 4 1807 - FLOORS OR FLOORING MATERIALS
## 5 1807 - FLOORS OR FLOORING MATERIALS
## 6             1842 - STAIRS OR STEPS
```

Creating a dataset for use with the LLM.

I want a parallel dataset to use with ChatGPT. So, at this step, I'm going to copy df_modelingdata before additional modifications.

```
#copy df_modelingdata
df_llm <- df_modelingdata
```

Creating Binary Columns

Using numeric value for the modeling is more efficient. In this step, we'll convert the character columns into n number of binary columns.

The fastDummies library comes from "Kaplan, J. & Schlegel, B. (2023). fastDummies: Fast Creation of Dummy (Binary) Columns and Rows from Categorical Variables. Version 1.7.1. URL: https://github.com/j

acobkap/fastDummies, https://jacobkap.github.io/fastDummies/."

```r
if (system.file(package = "fastDummies") == "") {
  install.packages("fastDummies")
}

library(fastDummies)
```

Thank you for using fastDummies!

To acknowledge our work, please cite the package:

Kaplan, J. & Schlegel, B. (2023). fastDummies: Fast Creation of Dummy (Binary) Columns and Rows from

```r
#each df will need the case number as a unique ID to merge with the df_modelingdata
casenumber <- df_modelingdata$cpsc_case_number


#create a df for each of the columns to make into binary columns
sex <- df_modelingdata$sex
df1 <- fastDummies::dummy_cols(as.data.frame(sex))
#add the case number, remove the sex column
df1$cpsc_case_number <- casenumber
df1 <- select(df1, -c(sex))

diagnosis <- df_modelingdata$diagnosis
df2 <- fastDummies::dummy_cols(as.data.frame(diagnosis))
df2$cpsc_case_number <- casenumber
df2 <- select(df2, -c(diagnosis))

bodypart <- df_modelingdata$body_part
df3 <- fastDummies::dummy_cols(as.data.frame(bodypart))
df3$cpsc_case_number <- casenumber
df3 <- select(df3, -c(bodypart))

location <- df_modelingdata$location
df4 <- fastDummies::dummy_cols(as.data.frame(location))
df4$cpsc_case_number <- casenumber
df4 <- select(df4, -c(location))

product <- df_modelingdata$product_1
df5 <- fastDummies::dummy_cols(as.data.frame(product))
df5$cpsc_case_number <- casenumber
df5 <- select(df5, -c(product))


#merge each of the small columns into df_modelingdata
df_modelingdata <- merge(df_modelingdata, df1, by = "cpsc_case_number")
df_modelingdata <- merge(df_modelingdata, df2, by = "cpsc_case_number")
df_modelingdata <- merge(df_modelingdata, df3, by = "cpsc_case_number")
df_modelingdata <- merge(df_modelingdata, df4, by = "cpsc_case_number")
df_modelingdata <- merge(df_modelingdata, df5, by = "cpsc_case_number")

rm(sex, diagnosis, bodypart, location, product)
rm(df1, df2, df3, df4, df5)
```

```r
#now that these columns are now binary, it is time to remove the originals
df_modelingdata <- select(df_modelingdata, -c(sex, diagnosis, body_part, location, product_1))
```

I don't believe the case number will help the modeling, so I'll remove this column from df_modelingdata. For the modeling, the narrative column isn't not helpful.

```r
df_modelingdata <- select(df_modelingdata, -c(cpsc_case_number, narrative))
```

```r
summary(df_modelingdata)
```

```
##   treatment_date         age          sex_FEMALE        sex_MALE
##   Length:77467      Min.   : 65.00   Min.   :0.0000   Min.   :0.0000
##   Class :character   1st Qu.: 72.00   1st Qu.:0.0000   1st Qu.:0.0000
##   Mode  :character   Median : 80.00   Median :1.0000   Median :0.0000
##                      Mean   : 79.84   Mean   :0.6363   Mean   :0.3637
##                      3rd Qu.: 87.00   3rd Qu.:1.0000   3rd Qu.:1.0000
##                      Max.   :112.00   Max.   :1.0000   Max.   :1.0000
##   diagnosis_53 - CONTUSIONS, ABR. diagnosis_57 - FRACTURE
##   Min.   :0.0000                  Min.   :0.0000
##   1st Qu.:0.0000                  1st Qu.:0.0000
##   Median :0.0000                  Median :0.0000
##   Mean   :0.1988                  Mean   :0.3655
##   3rd Qu.:0.0000                  3rd Qu.:1.0000
##   Max.   :1.0000                  Max.   :1.0000
##   diagnosis_59 - LACERATION diagnosis_62 - INTERNAL INJURY
##   Min.   :0.0000            Min.   :0.0000
##   1st Qu.:0.0000            1st Qu.:0.0000
##   Median :0.0000            Median :0.0000
##   Mean   :0.1148            Mean   :0.3209
##   3rd Qu.:0.0000            3rd Qu.:1.0000
##   Max.   :1.0000            Max.   :1.0000
##   bodypart_30 - SHOULDER bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW
##   Min.   :0.00000        Min.   :0.00000           Min.   :0.00000
##   1st Qu.:0.00000        1st Qu.:0.00000           1st Qu.:0.00000
##   Median :0.00000        Median :0.00000           Median :0.00000
##   Mean   :0.02821        Mean   :0.08737           Mean   :0.01417
##   3rd Qu.:0.00000        3rd Qu.:0.00000           3rd Qu.:0.00000
##   Max.   :1.00000        Max.   :1.00000           Max.   :1.00000
##   bodypart_33 - LOWER ARM bodypart_34 - WRIST bodypart_35 - KNEE
##   Min.   :0.00000         Min.   :0.00000     Min.   :0.00000
##   1st Qu.:0.00000         1st Qu.:0.00000     1st Qu.:0.00000
##   Median :0.00000         Median :0.00000     Median :0.00000
##   Mean   :0.01759         Mean   :0.02037     Mean   :0.03293
##   3rd Qu.:0.00000         3rd Qu.:0.00000     3rd Qu.:0.00000
##   Max.   :1.00000         Max.   :1.00000     Max.   :1.00000
##   bodypart_36 - LOWER LEG bodypart_37 - ANKLE bodypart_38 - PUBIC REGION
##   Min.   :0.00000         Min.   :0.00000     Min.   :0.0000000
##   1st Qu.:0.00000         1st Qu.:0.00000     1st Qu.:0.0000000
##   Median :0.00000         Median :0.00000     Median :0.0000000
##   Mean   :0.02023         Mean   :0.01452     Mean   :0.0003873
##   3rd Qu.:0.00000         3rd Qu.:0.00000     3rd Qu.:0.0000000
##   Max.   :1.00000         Max.   :1.00000     Max.   :1.0000000
##   bodypart_75 - HEAD bodypart_76 - FACE bodypart_77 - EYEBALL
```

```
##  Min.   :0.0000     Min.   :0.0000     Min.   :0.0000000
##  1st Qu.:0.0000     1st Qu.:0.0000     1st Qu.:0.0000000
##  Median :0.0000     Median :0.0000     Median :0.0000000
##  Mean   :0.3934     Mean   :0.1014     Mean   :0.0003356
##  3rd Qu.:1.0000     3rd Qu.:0.0000     3rd Qu.:0.0000000
##  Max.   :1.0000     Max.   :1.0000     Max.   :1.0000000
##  bodypart_79 - LOWER TRUNK bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG
##  Min.   :0.000             Min.   :0.00000         Min.   :0.00000
##  1st Qu.:0.000             1st Qu.:0.00000         1st Qu.:0.00000
##  Median :0.000             Median :0.00000         Median :0.00000
##  Mean   :0.162             Mean   :0.02748         Mean   :0.03377
##  3rd Qu.:0.000             3rd Qu.:0.00000         3rd Qu.:0.00000
##  Max.   :1.000             Max.   :1.00000         Max.   :1.00000
##  bodypart_82 - HAND bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY
##  Min.   :0.000000   Min.   :0.000000   Min.   :0.000000
##  1st Qu.:0.000000   1st Qu.:0.000000   1st Qu.:0.000000
##  Median :0.000000   Median :0.000000   Median :0.000000
##  Mean   :0.007823   Mean   :0.008688   Mean   :0.000142
##  3rd Qu.:0.000000   3rd Qu.:0.000000   3rd Qu.:0.000000
##  Max.   :1.000000   Max.   :1.000000   Max.   :1.000000
##  bodypart_87 - NOT STATED/UNK bodypart_88 - MOUTH bodypart_89 - NECK
##  Min.   :0.000000             Min.   :0.000000    Min.   :0.00000
##  1st Qu.:0.000000             1st Qu.:0.000000    1st Qu.:0.00000
##  Median :0.000000             Median :0.000000    Median :0.00000
##  Mean   :0.001123             Mean   :0.004776    Mean   :0.01206
##  3rd Qu.:0.000000             3rd Qu.:0.000000    3rd Qu.:0.00000
##  Max.   :1.000000             Max.   :1.000000    Max.   :1.00000
##  bodypart_92 - FINGER bodypart_93 - TOE bodypart_94 - EAR   location_HOME
##  Min.   :0.00000      Min.   :0.00000   Min.   :0.000000    Min.   :0.0000
##  1st Qu.:0.00000      1st Qu.:0.00000   1st Qu.:0.000000    1st Qu.:0.0000
##  Median :0.00000      Median :0.00000   Median :0.000000    Median :1.0000
##  Mean   :0.00488      Mean   :0.00315   Mean   :0.003124    Mean   :0.6081
##  3rd Qu.:0.00000      3rd Qu.:0.00000   3rd Qu.:0.000000    3rd Qu.:1.0000
##  Max.   :1.00000      Max.   :1.00000   Max.   :1.000000    Max.   :1.0000
##  location_PUBLIC   location_UNK    product_611 - BATHTUBS OR SHOWERS
##  Min.   :0.0000    Min.   :0.0000    Min.   :0.00000
##  1st Qu.:0.0000    1st Qu.:0.0000    1st Qu.:0.00000
##  Median :0.0000    Median :0.0000    Median :0.00000
##  Mean   :0.2074    Mean   :0.1845    Mean   :0.05091
##  3rd Qu.:0.0000    3rd Qu.:0.0000    3rd Qu.:0.00000
##  Max.   :1.0000    Max.   :1.0000    Max.   :1.00000
##  product_649 - TOILETS product_676 - RUGS OR CARPETS, NOT SPECIFIED
##  Min.   :0.00000       Min.   :0.00000
##  1st Qu.:0.00000       1st Qu.:0.00000
##  Median :0.00000       Median :0.00000
##  Mean   :0.03967       Mean   :0.02741
##  3rd Qu.:0.00000       3rd Qu.:0.00000
##  Max.   :1.00000       Max.   :1.00000
##  product_1615 - FOOTWEAR product_1807 - FLOORS OR FLOORING MATERIALS
##  Min.   :0.0000          Min.   :0.000
##  1st Qu.:0.0000          1st Qu.:0.000
##  Median :0.0000          Median :0.000
##  Mean   :0.0221          Mean   :0.378
##  3rd Qu.:0.0000          3rd Qu.:1.000
```

```
## Max.   :1.0000       Max.   :1.000
## product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.01593
## 3rd Qu.:0.00000
## Max.   :1.00000
## product_1842 - STAIRS OR STEPS
## Min.   :0.000
## 1st Qu.:0.000
## Median :0.000
## Mean   :0.143
## 3rd Qu.:0.000
## Max.   :1.000
## product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.02388
## 3rd Qu.:0.00000
## Max.   :1.00000
## product_1893 - DOORS, OTHER OR NOT SPECIFIED
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.01539
## 3rd Qu.:0.00000
## Max.   :1.00000
## product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## Min.   :0.000000
## 1st Qu.:0.000000
## Median :0.000000
## Mean   :0.008003
## 3rd Qu.:0.000000
## Max.   :1.000000
## product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.02743
## 3rd Qu.:0.00000
## Max.   :1.00000
## product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## Min.   :0.00000
## 1st Qu.:0.00000
## Median :0.00000
## Mean   :0.06562
## 3rd Qu.:0.00000
## Max.   :1.00000
## product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## Min.   :0.0000
## 1st Qu.:0.0000
## Median :0.0000
```

```
##   Mean    :0.1616
##   3rd Qu.:0.0000
##   Max.    :1.0000
##   product_4078 - LADDERS, OTHER OR NOT SPECIFIED
##   Min.    :0.00000
##   1st Qu.:0.00000
##   Median :0.00000
##   Mean    :0.02103
##   3rd Qu.:0.00000
##   Max.    :1.00000
```

```r
head(df_modelingdata)
```

```
##   treatment_date age sex_FEMALE sex_MALE diagnosis_53 - CONTUSIONS, ABR.
## 1     2019-01-01  94          0        1                               0
## 2     2019-01-01  86          0        1                               0
## 3     2019-01-01  67          1        0                               0
## 4     2019-01-01  76          1        0                               0
## 5     2019-01-01  88          1        0                               0
## 6     2019-01-01  87          1        0                               0
##   diagnosis_57 - FRACTURE diagnosis_59 - LACERATION
## 1                       0                         0
## 2                       0                         0
## 3                       1                         0
## 4                       0                         0
## 5                       0                         0
## 6                       1                         0
##   diagnosis_62 - INTERNAL INJURY bodypart_30 - SHOULDER
## 1                              1                       0
## 2                              1                       0
## 3                              0                       0
## 4                              1                       0
## 5                              1                       0
## 6                              0                       0
##   bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW bodypart_33 - LOWER ARM
## 1                         0                   0                       0
## 2                         0                   0                       0
## 3                         0                   0                       1
## 4                         0                   0                       0
## 5                         0                   0                       0
## 6                         0                   0                       0
##   bodypart_34 - WRIST bodypart_35 - KNEE bodypart_36 - LOWER LEG
## 1                   0                  0                       0
## 2                   0                  0                       0
## 3                   0                  0                       0
## 4                   0                  0                       0
## 5                   0                  0                       0
## 6                   0                  0                       0
##   bodypart_37 - ANKLE bodypart_38 - PUBIC REGION bodypart_75 - HEAD
## 1                   0                          0                  1
## 2                   0                          0                  1
## 3                   0                          0                  0
## 4                   0                          0                  1
## 5                   0                          0                  1
## 6                   0                          0                  0
```

```
##   bodypart_76 - FACE bodypart_77 - EYEBALL bodypart_79 - LOWER TRUNK
## 1                 0                 0                         0
## 2                 0                 0                         0
## 3                 0                 0                         0
## 4                 0                 0                         0
## 5                 0                 0                         0
## 6                 0                 0                         1
##   bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG bodypart_82 - HAND
## 1                       0                       0                  0
## 2                       0                       0                  0
## 3                       0                       0                  0
## 4                       0                       0                  0
## 5                       0                       0                  0
## 6                       0                       0                  0
##   bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY bodypart_87 - NOT STATED/UNK
## 1                 0                           0                             0
## 2                 0                           0                             0
## 3                 0                           0                             0
## 4                 0                           0                             0
## 5                 0                           0                             0
## 6                 0                           0                             0
##   bodypart_88 - MOUTH bodypart_89 - NECK bodypart_92 - FINGER bodypart_93 - TOE
## 1                   0                 0                     0                 0
## 2                   0                 0                     0                 0
## 3                   0                 0                     0                 0
## 4                   0                 0                     0                 0
## 5                   0                 0                     0                 0
## 6                   0                 0                     0                 0
##   bodypart_94 - EAR location_HOME location_PUBLIC location_UNK
## 1                 0             0               1            0
## 2                 0             1               0            0
## 3                 0             1               0            0
## 4                 0             1               0            0
## 5                 0             1               0            0
## 6                 0             1               0            0
##   product_611 - BATHTUBS OR SHOWERS product_649 - TOILETS
## 1                                 0                     0
## 2                                 1                     0
## 3                                 0                     0
## 4                                 0                     0
## 5                                 0                     0
## 6                                 0                     0
##   product_676 - RUGS OR CARPETS, NOT SPECIFIED product_1615 - FOOTWEAR
## 1                                            0                       0
## 2                                            0                       0
## 3                                            0                       0
## 4                                            0                       0
## 5                                            0                       0
## 6                                            0                       0
##   product_1807 - FLOORS OR FLOORING MATERIALS
## 1                                           1
## 2                                           0
## 3                                           1
## 4                                           1
```

```
## 5                                                            1
## 6                                                            0
##   product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
## 1                                                                    0
## 2                                                                    0
## 3                                                                    0
## 4                                                                    0
## 5                                                                    0
## 6                                                                    0
##   product_1842 - STAIRS OR STEPS
## 1                               0
## 2                               0
## 3                               0
## 4                               0
## 5                               0
## 6                               1
##   product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
## 1                                                                       0
## 2                                                                       0
## 3                                                                       0
## 4                                                                       0
## 5                                                                       0
## 6                                                                       0
##   product_1893 - DOORS, OTHER OR NOT SPECIFIED
## 1                                            0
## 2                                            0
## 3                                            0
## 4                                            0
## 5                                            0
## 6                                            0
##   product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## 1                                                       0
## 2                                                       0
## 3                                                       0
## 4                                                       0
## 5                                                       0
## 6                                                       0
##   product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## 1                                                                          0
## 2                                                                          0
## 3                                                                          0
## 4                                                                          0
## 5                                                                          0
## 6                                                                          0
##   product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## 1                                             0
## 2                                             0
## 3                                             0
## 4                                             0
## 5                                             0
## 6                                             0
##   product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## 1                                                       0
## 2                                                       0
```

```
## 3                                                    0
## 4                                                    0
## 5                                                    0
## 6                                                    0
##    product_4078 - LADDERS, OTHER OR NOT SPECIFIED
## 1                                         0
## 2                                         0
## 3                                         0
## 4                                         0
## 5                                         0
## 6                                         0
```

Data Modeling with Hiearchical Model

For this model, I was initially thinking of using a hierarchical clustering model, but I believe my data exploration exposed a hierarchy, so I'm going to look at the pam clustering model to look at the data from a different perspective. Its quick and easy to do, but might reveal something interesting. Unfortunately the function has an upper limit of 65K rows. To work around this, I'll split the dataset into two small sets. The first is covers the range of 2019-2021, the second 2022. If you recall from the injuries based on time plot, we saw a significant increase in the daily injuries for that part of the dataset, so this gives us a chance to explore this question.

Data Split

```
#Dataset from 2019 - 2021
df2019 <- sqldf('SELECT *
                 FROM df_modelingdata
                 WHERE treatment_date < \'2022-01-01\'
                 ')

df2022 <- sqldf('SELECT *
                 FROM df_modelingdata
                 WHERE treatment_date > \'2021-12-31\'
                 ')

head(df2019)
```

```
##    treatment_date age sex_FEMALE sex_MALE diagnosis_53 - CONTUSIONS, ABR.
## 1     2019-01-01  94          0        1                               0
## 2     2019-01-01  86          0        1                               0
## 3     2019-01-01  67          1        0                               0
## 4     2019-01-01  76          1        0                               0
## 5     2019-01-01  88          1        0                               0
## 6     2019-01-01  87          1        0                               0
##    diagnosis_57 - FRACTURE diagnosis_59 - LACERATION
## 1                        0                         0
## 2                        0                         0
## 3                        1                         0
## 4                        0                         0
## 5                        0                         0
## 6                        1                         0
##    diagnosis_62 - INTERNAL INJURY bodypart_30 - SHOULDER
## 1                              1                       0
```

```
## 2                                    1                       0
## 3                                    0                       0
## 4                                    1                       0
## 5                                    1                       0
## 6                                    0                       0
##   bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW bodypart_33 - LOWER ARM
## 1                         0                   0                       0
## 2                         0                   0                       0
## 3                         0                   0                       1
## 4                         0                   0                       0
## 5                         0                   0                       0
## 6                         0                   0                       0
##   bodypart_34 - WRIST bodypart_35 - KNEE bodypart_36 - LOWER LEG
## 1                   0                  0                       0
## 2                   0                  0                       0
## 3                   0                  0                       0
## 4                   0                  0                       0
## 5                   0                  0                       0
## 6                   0                  0                       0
##   bodypart_37 - ANKLE bodypart_38 - PUBIC REGION bodypart_75 - HEAD
## 1                   0                          0                  1
## 2                   0                          0                  1
## 3                   0                          0                  0
## 4                   0                          0                  1
## 5                   0                          0                  1
## 6                   0                          0                  0
##   bodypart_76 - FACE bodypart_77 - EYEBALL bodypart_79 - LOWER TRUNK
## 1                  0                     0                        0
## 2                  0                     0                        0
## 3                  0                     0                        0
## 4                  0                     0                        0
## 5                  0                     0                        0
## 6                  0                     0                        1
##   bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG bodypart_82 - HAND
## 1                       0                       0                  0
## 2                       0                       0                  0
## 3                       0                       0                  0
## 4                       0                       0                  0
## 5                       0                       0                  0
## 6                       0                       0                  0
##   bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY bodypart_87 - NOT STATED/UNK
## 1                  0                            0                            0
## 2                  0                            0                            0
## 3                  0                            0                            0
## 4                  0                            0                            0
## 5                  0                            0                            0
## 6                  0                            0                            0
##   bodypart_88 - MOUTH bodypart_89 - NECK bodypart_92 - FINGER bodypart_93 - TOE
## 1                   0                  0                    0                 0
## 2                   0                  0                    0                 0
## 3                   0                  0                    0                 0
## 4                   0                  0                    0                 0
## 5                   0                  0                    0                 0
## 6                   0                  0                    0                 0
```

```
##    bodypart_94 - EAR location_HOME location_PUBLIC location_UNK
## 1                  0              0               1            0
## 2                  0              1               0            0
## 3                  0              1               0            0
## 4                  0              1               0            0
## 5                  0              1               0            0
## 6                  0              1               0            0
##   product_611 - BATHTUBS OR SHOWERS product_649 - TOILETS
## 1                                 0                      0
## 2                                 1                      0
## 3                                 0                      0
## 4                                 0                      0
## 5                                 0                      0
## 6                                 0                      0
##   product_676 - RUGS OR CARPETS, NOT SPECIFIED product_1615 - FOOTWEAR
## 1                                            0                       0
## 2                                            0                       0
## 3                                            0                       0
## 4                                            0                       0
## 5                                            0                       0
## 6                                            0                       0
##   product_1807 - FLOORS OR FLOORING MATERIALS
## 1                                           1
## 2                                           0
## 3                                           1
## 4                                           1
## 5                                           1
## 6                                           0
##   product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
## 1                                                                     0
## 2                                                                     0
## 3                                                                     0
## 4                                                                     0
## 5                                                                     0
## 6                                                                     0
##   product_1842 - STAIRS OR STEPS
## 1                              0
## 2                              0
## 3                              0
## 4                              0
## 5                              0
## 6                              1
##   product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
## 1                                                                        0
## 2                                                                        0
## 3                                                                        0
## 4                                                                        0
## 5                                                                        0
## 6                                                                        0
##   product_1893 - DOORS, OTHER OR NOT SPECIFIED
## 1                                            0
## 2                                            0
## 3                                            0
## 4                                            0
```

```
## 5                                                        0
## 6                                                        0
##   product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## 1                                                        0
## 2                                                        0
## 3                                                        0
## 4                                                        0
## 5                                                        0
## 6                                                        0
##   product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## 1                                                                          0
## 2                                                                          0
## 3                                                                          0
## 4                                                                          0
## 5                                                                          0
## 6                                                                          0
##   product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## 1                                              0
## 2                                              0
## 3                                              0
## 4                                              0
## 5                                              0
## 6                                              0
##   product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## 1                                                        0
## 2                                                        0
## 3                                                        0
## 4                                                        0
## 5                                                        0
## 6                                                        0
##   product_4078 - LADDERS, OTHER OR NOT SPECIFIED
## 1                                              0
## 2                                              0
## 3                                              0
## 4                                              0
## 5                                              0
## 6                                              0
```

head(df2022)

```
##   treatment_date age sex_FEMALE sex_MALE diagnosis_53 - CONTUSIONS, ABR.
## 1     2022-01-01  78          0        1                              0
## 2     2022-01-01  78          1        0                              0
## 3     2022-01-01  89          0        1                              0
## 4     2022-01-01  78          1        0                              0
## 5     2022-01-01  70          1        0                              0
## 6     2022-01-02  76          1        0                              0
##   diagnosis_57 - FRACTURE diagnosis_59 - LACERATION
## 1                       0                         1
## 2                       0                         0
## 3                       0                         0
## 4                       0                         0
## 5                       0                         1
## 6                       0                         0
##   diagnosis_62 - INTERNAL INJURY bodypart_30 - SHOULDER
```

```
## 1                           0                  0
## 2                           1                  0
## 3                           1                  0
## 4                           1                  0
## 5                           0                  0
## 6                           1                  0
##   bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW bodypart_33 - LOWER ARM
## 1                         0                    1                       0
## 2                         0                    0                       0
## 3                         0                    0                       0
## 4                         0                    0                       0
## 5                         0                    0                       0
## 6                         0                    0                       0
##   bodypart_34 - WRIST bodypart_35 - KNEE bodypart_36 - LOWER LEG
## 1                   0                  0                        0
## 2                   0                  0                        0
## 3                   0                  0                        0
## 4                   0                  0                        0
## 5                   0                  0                        0
## 6                   0                  0                        0
##   bodypart_37 - ANKLE bodypart_38 - PUBIC REGION bodypart_75 - HEAD
## 1                   0                          0                  0
## 2                   0                          0                  1
## 3                   0                          0                  1
## 4                   0                          0                  1
## 5                   0                          0                  0
## 6                   0                          0                  1
##   bodypart_76 - FACE bodypart_77 - EYEBALL bodypart_79 - LOWER TRUNK
## 1                  0                     0                         0
## 2                  0                     0                         0
## 3                  0                     0                         0
## 4                  0                     0                         0
## 5                  1                     0                         0
## 6                  0                     0                         0
##   bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG bodypart_82 - HAND
## 1                       0                       0                  0
## 2                       0                       0                  0
## 3                       0                       0                  0
## 4                       0                       0                  0
## 5                       0                       0                  0
## 6                       0                       0                  0
##   bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY bodypart_87 - NOT STATED/UNK
## 1                  0                            0                             0
## 2                  0                            0                             0
## 3                  0                            0                             0
## 4                  0                            0                             0
## 5                  0                            0                             0
## 6                  0                            0                             0
##   bodypart_88 - MOUTH bodypart_89 - NECK bodypart_92 - FINGER bodypart_93 - TOE
## 1                   0                  0                    0                 0
## 2                   0                  0                    0                 0
## 3                   0                  0                    0                 0
## 4                   0                  0                    0                 0
## 5                   0                  0                    0                 0
```

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```
## 6                   0                    0                     0                     0
##   bodypart_94 - EAR location_HOME location_PUBLIC location_UNK
## 1               0            1                0            0
## 2               0            1                0            0
## 3               0            1                0            0
## 4               0            1                0            0
## 5               0            1                0            0
## 6               0            1                0            0
##   product_611 - BATHTUBS OR SHOWERS product_649 - TOILETS
## 1                              0                        0
## 2                              0                        0
## 3                              0                        0
## 4                              0                        0
## 5                              0                        0
## 6                              0                        0
##   product_676 - RUGS OR CARPETS, NOT SPECIFIED product_1615 - FOOTWEAR
## 1                                        0                          0
## 2                                        0                          0
## 3                                        0                          0
## 4                                        0                          0
## 5                                        0                          0
## 6                                        0                          0
##   product_1807 - FLOORS OR FLOORING MATERIALS
## 1                                        0
## 2                                        1
## 3                                        0
## 4                                        0
## 5                                        1
## 6                                        1
##   product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
## 1                                                                 0
## 2                                                                 0
## 3                                                                 0
## 4                                                                 0
## 5                                                                 0
## 6                                                                 0
##   product_1842 - STAIRS OR STEPS
## 1                            1
## 2                            0
## 3                            1
## 4                            1
## 5                            0
## 6                            0
##   product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
## 1                                                                 0
## 2                                                                 0
## 3                                                                 0
## 4                                                                 0
## 5                                                                 0
## 6                                                                 0
##   product_1893 - DOORS, OTHER OR NOT SPECIFIED
## 1                                         0
## 2                                         0
## 3                                         0
```

```
## 4                                                     0
## 5                                                     0
## 6                                                     0
##   product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## 1                                                          0
## 2                                                          0
## 3                                                          0
## 4                                                          0
## 5                                                          0
## 6                                                          0
##   product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## 1                                                                          0
## 2                                                                          0
## 3                                                                          0
## 4                                                                          0
## 5                                                                          0
## 6                                                                          0
##   product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## 1                                               0
## 2                                               0
## 3                                               0
## 4                                               0
## 5                                               0
## 6                                               0
##   product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## 1                                                         0
## 2                                                         0
## 3                                                         0
## 4                                                         0
## 5                                                         0
## 6                                                         0
##   product_4078 - LADDERS, OTHER OR NOT SPECIFIED
## 1                                                0
## 2                                                0
## 3                                                0
## 4                                                0
## 5                                                0
## 6                                                0
```

```r
#df_modelingdata <- select(df_modelingdata, -c(treatment_date))
```

PAM Model 2019-2021

```r
if (system.file(package = "factoextra") == "") {
  install.packages("factoextra")
}
if (system.file(package = "cluster") == "") {
  install.packages("cluster")
}
if (system.file(package = "NbClust") == "") {
  install.packages("NbClust")
}

#library(factoextra)
```

```r
library(factoextra)
```

```
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

```r
library(cluster)
library(NbClust)

clusters <- 4 #selecting 4 because of the injuries

pam_result <- pam(df2019, clusters)
gc()#return memory
```

```
##              used  (Mb) gc trigger    (Mb)    max used    (Mb)
## Ncells   1932676 103.3    4216925   225.3     4216925   225.3
## Vcells 16573341 126.5 1250080680 9537.4 1300966463 9925.6
```

```r
# Print the cluster medoids
print(pam_result$medoids)
```

```
##      treatment_date age sex_FEMALE sex_MALE diagnosis_53 - CONTUSIONS, ABR.
## [1,]            125  80          1        0                               1
## [2,]            382  80          1        0                               0
## [3,]            687  80          1        0                               0
## [4,]            958  79          1        0                               0
##      diagnosis_57 - FRACTURE diagnosis_59 - LACERATION
## [1,]                       0                         0
## [2,]                       1                         0
## [3,]                       1                         0
## [4,]                       1                         0
##      diagnosis_62 - INTERNAL INJURY bodypart_30 - SHOULDER
## [1,]                             0                       0
## [2,]                             0                       0
## [3,]                             0                       0
## [4,]                             0                       0
##      bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW bodypart_33 - LOWER ARM
## [1,]                         0                   0                       0
## [2,]                         0                   0                       0
## [3,]                         0                   0                       0
## [4,]                         0                   0                       0
##      bodypart_34 - WRIST bodypart_35 - KNEE bodypart_36 - LOWER LEG
## [1,]                   0                  0                       0
## [2,]                   0                  0                       0
## [3,]                   0                  0                       0
## [4,]                   0                  0                       0
##      bodypart_37 - ANKLE bodypart_38 - PUBIC REGION bodypart_75 - HEAD
## [1,]                   0                          0                  0
## [2,]                   0                          0                  0
## [3,]                   0                          0                  0
## [4,]                   0                          0                  0
##      bodypart_76 - FACE bodypart_77 - EYEBALL bodypart_79 - LOWER TRUNK
## [1,]                  1                     0                         0
## [2,]                  0                     0                         1
## [3,]                  0                     0                         1
## [4,]                  1                     0                         0
##      bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG bodypart_82 - HAND
```

```
##  [1,]                          0                    0                    0
##  [2,]                          0                    0                    0
##  [3,]                          0                    0                    0
##  [4,]                          0                    0                    0
##       bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY
##  [1,]                 0                            0
##  [2,]                 0                            0
##  [3,]                 0                            0
##  [4,]                 0                            0
##       bodypart_87 - NOT STATED/UNK bodypart_88 - MOUTH bodypart_89 - NECK
##  [1,]                            0                   0                  0
##  [2,]                            0                   0                  0
##  [3,]                            0                   0                  0
##  [4,]                            0                   0                  0
##       bodypart_92 - FINGER bodypart_93 - TOE bodypart_94 - EAR location_HOME
##  [1,]                    0                0                0             1
##  [2,]                    0                0                0             1
##  [3,]                    0                0                0             1
##  [4,]                    0                0                0             1
##       location_PUBLIC location_UNK product_611 - BATHTUBS OR SHOWERS
##  [1,]               0           0                                  0
##  [2,]               0           0                                  0
##  [3,]               0           0                                  0
##  [4,]               0           0                                  0
##       product_649 - TOILETS product_676 - RUGS OR CARPETS, NOT SPECIFIED
##  [1,]                     0                                           0
##  [2,]                     0                                           0
##  [3,]                     0                                           0
##  [4,]                     0                                           0
##       product_1615 - FOOTWEAR product_1807 - FLOORS OR FLOORING MATERIALS
##  [1,]                       0                                           1
##  [2,]                       0                                           1
##  [3,]                       0                                           1
##  [4,]                       0                                           1
##       product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
##  [1,]                                                                    0
##  [2,]                                                                    0
##  [3,]                                                                    0
##  [4,]                                                                    0
##       product_1842 - STAIRS OR STEPS
##  [1,]                              0
##  [2,]                              0
##  [3,]                              0
##  [4,]                              0
##       product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
##  [1,]                                                                        0
##  [2,]                                                                        0
##  [3,]                                                                        0
##  [4,]                                                                        0
##       product_1893 - DOORS, OTHER OR NOT SPECIFIED
##  [1,]                                            0
##  [2,]                                            0
##  [3,]                                            0
##  [4,]                                            0
```

```
##      product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## [1,]                                                    0
## [2,]                                                    0
## [3,]                                                    0
## [4,]                                                    0
##      product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## [1,]                                                                    0
## [2,]                                                                    0
## [3,]                                                                    0
## [4,]                                                                    0
##      product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## [1,]                                            0
## [2,]                                            0
## [3,]                                            0
## [4,]                                            0
##      product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## [1,]                                                        0
## [2,]                                                        0
## [3,]                                                        0
## [4,]                                                        0
##      product_4078 - LADDERS, OTHER OR NOT SPECIFIED
## [1,]                                             0
## [2,]                                             0
## [3,]                                             0
## [4,]                                             0
```

```r
# Generate a silhouette plot
silResult <- silhouette(pam_result)

#plot(silResult)
fviz_silhouette(silResult)
```

```
##   cluster  size ave.sil.width
## 1       1 11518          0.63
## 2       2 13013          0.52
## 3       3 12813          0.51
## 4       4 13281          0.62
```

Clusters silhouette plot
Average silhouette width: 0.57
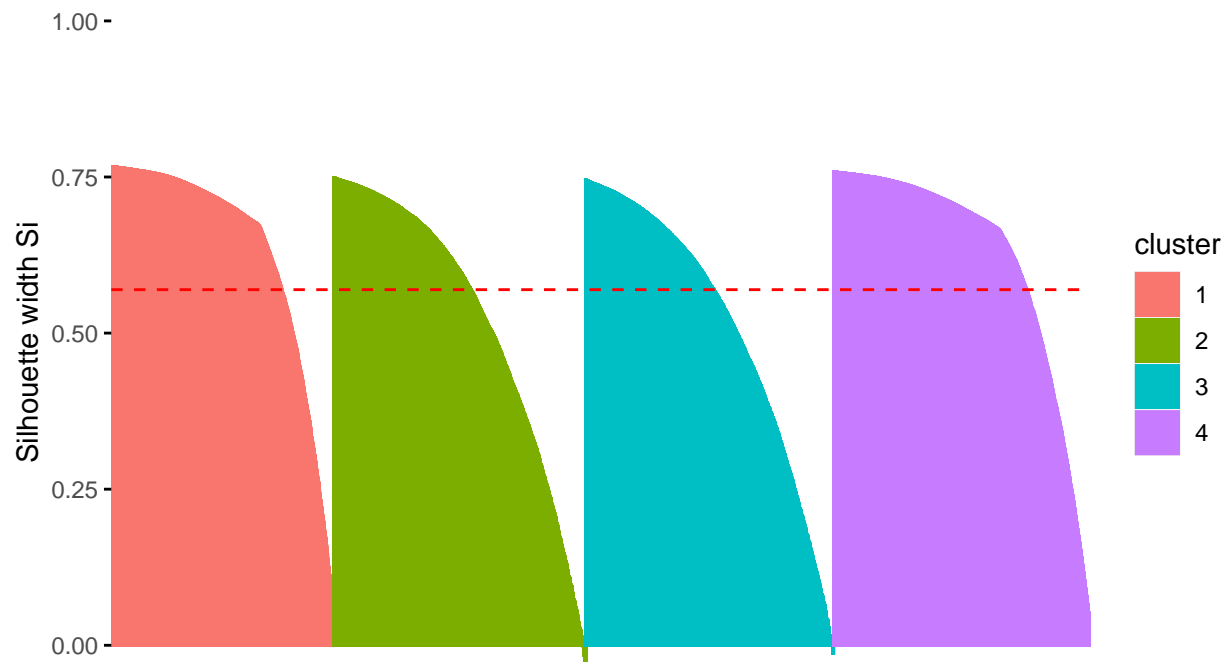

```r
print(silResult)
```

```
##       cluster neighbor   sil_width
## 4178        1        2  0.7669314433
## 4511        1        2  0.7669181941
## 3949        1        2  0.7669149017
## 4514        1        2  0.7669114962
## 3847        1        2  0.7669103564
## 4509        1        2  0.7669061801
## 3815        1        2  0.7668929619
## 4006        1        2  0.7668889193
## 4256        1        2  0.7668754181
## 3964        1        2  0.7668720851
## 4394        1        2  0.7668638932
## 3824        1        2  0.7668636788
## 3965        1        2  0.7668606802
## 3950        1        2  0.7668567247
## 3712        1        2  0.7668424648
## 3822        1        2  0.7668391288
## 3992        1        2  0.7668379073
## 4478        1        2  0.7668374208
## 3859        1        2  0.7668339998
## 12671       1        2  0.7668282161
## 3711        1        2  0.7668258829
## 4275        1        2  0.7668235311
## 3888        1        2  0.7668184901
```

```
## 4588      1      2    0.7668167303
## 4583      1      2    0.7667952299
## 4184      1      2    0.7667911412
## 4862      1      2    0.7667852764
## 4428      1      2    0.7667852461
## 4225      1      2    0.7667754858
## 3955      1      2    0.7667688605
## 3799      1      2    0.7667675077
## 4370      1      2    0.7667666911
## 5730      1      2    0.7667666786
## 5419      1      2    0.7667632880
## 3682      1      2    0.7667632169
## 5227      1      2    0.7667632169
## 3834      1      2    0.7667556338
## 3952      1      2    0.7667542803
## 3823      1      2    0.7667526056
## 5072      1      2    0.7667457763
## 4089      1      2    0.7667424336
## 4182      1      2    0.7667309026
## 7496      1      2    0.7667200809
## 5074      1      2    0.7667130854
## 4094      1      2    0.7667118446
## 4589      1      2    0.7667010993
## 3918      1      2    0.7667005433
## 3638      1      2    0.7666926089
## 4524      1      2    0.7666911011
## 4005      1      2    0.7666905541
## 3637      1      2    0.7666884636
## 3953      1      2    0.7666805458
## 3720      1      2    0.7666779928
## 4070      1      2    0.7666762552
## 3938      1      2    0.7666751349
## 3968      1      2    0.7666743922
## 4707      1      2    0.7666718496
## 3947      1      2    0.7666713578
## 12672     1      2    0.7666710429
## 4299      1      2    0.7666681724
## 4312      1      2    0.7666634365
## 4303      1      2    0.7666591415
## 4521      1      2    0.7666572597
## 3956      1      2    0.7666562377
## 4105      1      2    0.7666488918
## 4189      1      2    0.7666455221
## 3710      1      2    0.7666421877
## 3617      1      2    0.7666378961
## 4073      1      2    0.7666375900
## 3936      1      2    0.7666358323
## 3683      1      2    0.7666261263
## 5228      1      2    0.7666189226
## 4153      1      2    0.7666179447
## 3588      1      2    0.7666079211
## 3679      1      2    0.7666028460
## 5420      1      2    0.7665987542
## 3868      1      2    0.7665962158
```

```
## 4255          1          2  0.7665925997
## 3926          1          2  0.7665893316
## 7952          1          2  0.7665873397
## 4522          1          2  0.7665857726
## 12665         1          2  0.7665827216
## 3673          1          2  0.7665819086
## 4110          1          2  0.7665799558
## 5278          1          2  0.7665783251
## 5418          1          2  0.7665632666
## 4062          1          2  0.7665573898
## 3893          1          2  0.7665553153
## 3861          1          2  0.7665552763
## 4253          1          2  0.7665541077
## 5276          1          2  0.7665511114
## 3957          1          2  0.7665471009
## 3612          1          2  0.7665433652
## 3996          1          2  0.7665197798
## 4300          1          2  0.7665153614
## 3972          1          2  0.7665132022
## 4050          1          2  0.7665041905
## 3870          1          2  0.7664990049
## 4734          1          2  0.7664976838
## 3921          1          2  0.7664906263
## 3726          1          2  0.7664881410
## 4470          1          2  0.7664776006
## 3773          1          2  0.7664715543
## 3985          1          2  0.7664713594
## 3986          1          2  0.7664659378
## 5270          1          2  0.7664579688
## 4131          1          2  0.7664573500
## 4499          1          2  0.7664569692
## 4578          1          2  0.7664546572
## 4633          1          2  0.7664517301
## 4398          1          2  0.7664493866
## 3668          1          2  0.7664434500
## 3649          1          2  0.7664292146
## 4648          1          2  0.7664253683
## 3669          1          2  0.7664199700
## 4163          1          2  0.7664154378
## 3677          1          2  0.7664099722
## 3675          1          2  0.7663720651
## 3798          1          2  0.7663599896
## 3546          1          2  0.7663598965
## 4471          1          2  0.7663576371
## 3906          1          2  0.7663564768
## 4295          1          2  0.7663537107
## 4081          1          2  0.7663464874
## 3889          1          2  0.7663449241
## 3987          1          2  0.7663385152
## 4112          1          2  0.7663366041
## 3942          1          2  0.7663255359
## 4643          1          2  0.7663045760
## 4173          1          2  0.7663037278
## 3896          1          2  0.7663002236
```

```
## 4653          1         2   0.7662896787
## 4649          1         2   0.7662874489
## 3813          1         2   0.7662868557
## 5403          1         2   0.7662857087
## 5718          1         2   0.7662854399
## 4508          1         2   0.7662843375
## 4250          1         2   0.7662805497
## 5076          1         2   0.7662718580
## 4512          1         2   0.7662714380
## 5129          1         2   0.7662704649
## 4124          1         2   0.7662699528
## 4584          1         2   0.7662693769
## 4637          1         2   0.7662664998
## 4371          1         2   0.7662659820
## 3845          1         2   0.7662643693
## 4043          1         2   0.7662616275
## 3820          1         2   0.7662600108
## 4123          1         2   0.7662577394
## 4587          1         2   0.7662515927
## 3887          1         2   0.7662391410
## 5277          1         2   0.7662309473
## 3935          1         2   0.7662294848
## 16372         1         2   0.7662269623
## 4071          1         2   0.7662257993
## 4577          1         2   0.7662236309
## 3585          1         2   0.7662230881
## 3512          1         2   0.7662215783
## 3597          1         2   0.7662207326
## 4004          1         2   0.7662202952
## 5126          1         2   0.7662202499
## 5049          1         2   0.7662138397
## 3667          1         2   0.7661965860
## 5293          1         2   0.7661881583
## 3723          1         2   0.7661872777
## 4542          1         2   0.7661857939
## 4379          1         2   0.7661806913
## 3620          1         2   0.7661773677
## 3782          1         2   0.7661755804
## 4528          1         2   0.7661738347
## 3959          1         2   0.7661685601
## 3932          1         2   0.7661404402
## 4065          1         2   0.7661352505
## 4375          1         2   0.7661310236
## 5722          1         2   0.7661256063
## 4301          1         2   0.7661062670
## 4517          1         2   0.7661055830
## 4489          1         2   0.7661017165
## 3681          1         2   0.7660902003
## 6258          1         2   0.7660816911
## 4166          1         2   0.7660803494
## 5269          1         2   0.7660655535
## 3656          1         2   0.7660551455
## 4080          1         2   0.7660459757
## 4520          1         2   0.7660442377
```

```
## 4234           1           2     0.7660431877
## 16476          1           2     0.7660418429
## 3801           1           2     0.7660417392
## 4042           1           2     0.7660381859
## 3654           1           2     0.7660367386
## 12669          1           2     0.7660333450
## 3660           1           2     0.7660269009
## 4155           1           2     0.7660201079
## 3582           1           2     0.7660196170
## 5320           1           2     0.7660075925
## 12670          1           2     0.7660004239
## 4076           1           2     0.7659964936
## 3819           1           2     0.7659921979
## 3818           1           2     0.7659920355
## 4187           1           2     0.7659825572
## 4128           1           2     0.7659810476
## 3866           1           2     0.7659794846
## 4642           1           2     0.7659708978
## 4644           1           2     0.7659636687
## 3894           1           2     0.7659591636
## 3867           1           2     0.7659502247
## 4597           1           2     0.7659490704
## 4113           1           2     0.7659469456
## 4057           1           2     0.7659409792
## 5225           1           2     0.7659342805
## 3811           1           2     0.7659185448
## 5720           1           2     0.7659084051
## 4595           1           2     0.7659062183
## 4474           1           2     0.7659056959
## 4116           1           2     0.7659032803
## 3509           1           2     0.7659010794
## 3580           1           2     0.7658941567
## 4657           1           2     0.7658897551
## 4221           1           2     0.7658843643
## 3951           1           2     0.7658805308
## 3912           1           2     0.7658753763
## 4579           1           2     0.7658569819
## 3714           1           2     0.7658375677
## 4691           1           2     0.7658305437
## 4122           1           2     0.7658302291
## 3581           1           2     0.7658292966
## 4655           1           2     0.7658238048
## 5842           1           2     0.7658067723
## 3796           1           2     0.7657965988
## 4480           1           2     0.7657962780
## 3596           1           2     0.7657952962
## 3652           1           2     0.7657875226
## 4302           1           2     0.7657845364
## 4305           1           2     0.7657801254
## 4688           1           2     0.7657763514
## 4022           1           2     0.7657675371
## 4673           1           2     0.7657568757
## 3655           1           2     0.7657529959
## 3616           1           2     0.7657499303
```

```
## 4952          1          2   0.7657492908
## 4247          1          2   0.7657463561
## 4132          1          2   0.7657445164
## 3505          1          2   0.7657185750
## 4029          1          2   0.7657172341
## 3544          1          2   0.7657115275
## 4523          1          2   0.7657057614
## 5694          1          2   0.7656981451
## 3478          1          2   0.7656944952
## 4249          1          2   0.7656943988
## 4639          1          2   0.7656905475
## 3458          1          2   0.7656903199
## 3913          1          2   0.7656824520
## 4668          1          2   0.7656775153
## 4352          1          2   0.7656743929
## 4636          1          2   0.7656648045
## 4641          1          2   0.7656577266
## 4891          1          2   0.7656511478
## 4628          1          2   0.7656450869
## 3371          1          2   0.7656412680
## 5193          1          2   0.7656401955
## 3709          1          2   0.7656367203
## 3599          1          2   0.7656340457
## 3364          1          2   0.7656334994
## 4513          1          2   0.7656305891
## 3879          1          2   0.7656283571
## 4031          1          2   0.7656235167
## 4078          1          2   0.7656210936
## 16373         1          2   0.7656207939
## 4254          1          2   0.7656123508
## 3550          1          2   0.7656102934
## 3831          1          2   0.7656057370
## 4120          1          2   0.7656053263
## 4248          1          2   0.7656040614
## 3923          1          2   0.7656017254
## 3871          1          2   0.7655960323
## 3945          1          2   0.7655860419
## 7144          1          2   0.7655757978
## 4287          1          2   0.7655697706
## 3892          1          2   0.7655687979
## 3934          1          2   0.7655581155
## 4002          1          2   0.7655452761
## 3594          1          2   0.7655373627
## 4199          1          2   0.7655274524
## 12668         1          2   0.7655222957
## 4174          1          2   0.7655206874
## 3563          1          2   0.7655003779
## 3800          1          2   0.7654882235
## 5226          1          2   0.7654865801
## 16759         1          2   0.7654778678
## 4126          1          2   0.7654753373
## 4038          1          2   0.7654744082
## 4191          1          2   0.7654725149
## 3382          1          2   0.7654699305
```

```
## 4085        1        2   0.7654663604
## 4761        1        2   0.7654663328
## 3392        1        2   0.7654657139
## 3684        1        2   0.7654651082
## 4135        1        2   0.7654638733
## 3966        1        2   0.7654626852
## 4084        1        2   0.7654624311
## 4097        1        2   0.7654520802
## 3316        1        2   0.7654461788
## 3827        1        2   0.7654390977
## 4484        1        2   0.7654361042
## 12676       1        2   0.7654357549
## 3562        1        2   0.7654356252
## 4204        1        2   0.7654252822
## 4894        1        2   0.7654220421
## 4616        1        2   0.7654138970
## 10366       1        2   0.7654104297
## 3674        1        2   0.7654096458
## 3939        1        2   0.7654058475
## 4317        1        2   0.7654057855
## 3657        1        2   0.7654021726
## 4217        1        2   0.7653994871
## 4618        1        2   0.7653976799
## 3784        1        2   0.7653956433
## 4515        1        2   0.7653954987
## 3605        1        2   0.7653861389
## 4675        1        2   0.7653860960
## 3489        1        2   0.7653718388
## 4656        1        2   0.7653631584
## 16855       1        2   0.7653599082
## 3560        1        2   0.7653485122
## 3613        1        2   0.7653345476
## 4519        1        2   0.7653325187
## 6098        1        2   0.7653225072
## 4035        1        2   0.7653201822
## 4593        1        2   0.7653136219
## 4171        1        2   0.7653133267
## 3584        1        2   0.7652908941
## 4782        1        2   0.7652893078
## 4592        1        2   0.7652813449
## 4979        1        2   0.7652728246
## 3566        1        2   0.7652663492
## 4054        1        2   0.7652563021
## 4242        1        2   0.7652494555
## 4160        1        2   0.7652490757
## 3724        1        2   0.7652383072
## 4678        1        2   0.7652329254
## 3384        1        2   0.7652315900
## 4228        1        2   0.7652231965
## 3837        1        2   0.7652220050
## 4645        1        2   0.7652199257
## 4028        1        2   0.7652140560
## 4526        1        2   0.7652102378
## 4322        1        2   0.7652086096
```

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## 4019         1          2    0.7652042230
## 3865         1          2    0.7652025668
## 4619         1          2    0.7652007926
## 3836         1          2    0.7651906441
## 4748         1          2    0.7651872246
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## 3301         1          2    0.7651781019
## 4151         1          2    0.7651694246
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## 3751         1          2    0.7651657859
## 4276         1          2    0.7651638476
## 4510         1          2    0.7651604291
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## 3858         1          2    0.7651550975
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## 3907         1          2    0.7651471852
## 4220         1          2    0.7651440139
## 5421         1          2    0.7651422689
## 4983         1          2    0.7651405637
## 3809         1          2    0.7651399649
## 5325         1          2    0.7651346453
## 4406         1          2    0.7651331861
## 3804         1          2    0.7651325000
## 4162         1          2    0.7651321687
## 3370         1          2    0.7651295647
## 3817         1          2    0.7651237303
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## 4392         1          2    0.7651171912
## 4284         1          2    0.7651155427
## 4190         1          2    0.7651137922
## 4048         1          2    0.7651098888
## 4238         1          2    0.7651019897
## 3717         1          2    0.7650932569
## 4735         1          2    0.7650922189
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## 3225         1          2    0.7650910292
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## 3247         1          2    0.7650810500
## 4088         1          2    0.7650799912
## 4651         1          2    0.7650734183
## 4072         1          2    0.7650682939
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```

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## 4355          1          2   0.7649713828
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## 3283          1          2   0.7649621597
## 4036          1          2   0.7649615499
## 4516          1          2   0.7649564911
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## 4401          1          2   0.7649523098
## 4032          1          2   0.7649498776
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## 4074          1          2   0.7649135020
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```

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## 4168        1       2   0.7646361592
## 3713        1       2   0.7646360066
## 4485        1       2   0.7646351825
## 3771        1       2   0.7646306624
## 4652        1       2   0.7646293119
## 5717        1       2   0.7646293119
## 3452        1       2   0.7646289695
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## 4981        1       2   0.7646199994
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```

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## 3891        1        2    0.7645272122
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## 4422        1        2    0.7645227370
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## 3904        1        2    0.7645209929
## 4200        1        2    0.7645195665
## 4382        1        2    0.7645169257
## 4157        1        2    0.7645141371
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## 4677        1        2    0.7644842780
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## 4357        1        2    0.7644207690
## 5723        1        2    0.7644207243
## 4365        1        2    0.7644133875
## 12681       1        2    0.7644084036
## 4798        1        2    0.7644003469
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## 4876        1        2    0.7643982271
## 4296        1        2    0.7643952601
## 4670        1        2    0.7643924707
## 4203        1        2    0.7643908072
## 4304        1        2    0.7643900019
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```

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## 3379          1          2    0.7642478079
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## 4566          1          2    0.7642432729
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## 4635          1          2    0.7642365090
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## 3840          1          2    0.7642262456
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## 3988          1          2    0.7642235411
## 4659          1          2    0.7642190389
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## 4772          1          2    0.7642185993
## 4590          1          2    0.7642174961
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## 3178          1          2    0.7642033948
## 3199          1          2    0.7642025083
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## 4167          1          2    0.7641728975
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## 3549          1          2    0.7641126030
```

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## 3747          1          2   0.7640634106
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## 3378          1          2   0.7639917243
## 5623          1          2   0.7639908721
## 4448          1          2   0.7639812980
## 3715          1          2   0.7639800852
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## 4907          1          2   0.7639778464
## 4185          1          2   0.7639740018
## 3848          1          2   0.7639730707
## 4257          1          2   0.7639721126
## 4278          1          2   0.7639637982
## 4258          1          2   0.7639617148
## 3816          1          2   0.7639585874
## 3545          1          2   0.7639550695
## 4901          1          2   0.7639541018
## 4441          1          2   0.7639527256
## 3781          1          2   0.7639498472
## 5067          1          2   0.7639449884
## 5075          1          2   0.7639417359
## 5970          1          2   0.7639372632
## 4292          1          2   0.7639371470
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```

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## 4421          1          2    0.7639257755
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## 5012          1          2    0.7639107923
## 4472          1          2    0.7639092125
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## 5695          1          2    0.7637227099
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## 3756          1          2    0.7636922618
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```

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```

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## 4716       1       2   0.7632103304
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## 3368       1       2   0.7631930098
## 4156       1       2   0.7631889390
```

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## 5138          1        2   0.7631693930
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## 3433          1        2   0.7631117814
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## 4197          1        2   0.7631040420
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## 3753          1        2   0.7629905922
## 4762          1        2   0.7629905922
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## 4567          1        2   0.7629882084
## 3062          1        2   0.7629877609
## 3488          1        2   0.7629868946
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```

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## 4568          1          2    0.7629738405
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```

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## 3223        1        2    0.7626738559
## 3574        1        2    0.7626689273
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## 5010        1        2    0.7626678149
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```

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## 3042        1        2   0.7624765619
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## 3059        1        2   0.7624595958
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## 3752        1        2   0.7624535728
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## 5164          1          2    0.7621205424
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## 4739          1          2    0.7621079198
## 4353          1          2    0.7621038824
## 3636          1          2    0.7620926133
## 4498          1          2    0.7620893719
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## 2975          1          2    0.7620775520
## 4783          1          2    0.7620774778
## 3431          1          2    0.7620772417
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## 3183          1          2    0.7620340532
## 3151          1          2    0.7620286249
## 3758          1          2    0.7620283741
## 3628          1          2    0.7620275278
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```

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## 6036          1          2    0.7618108753
## 3391          1          2    0.7618095064
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## 6256          1          2    0.7617982821
## 3607          1          2    0.7617968730
## 4109          1          2    0.7617934733
## 5026          1          2    0.7617832787
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## 4479          1          2    0.7617489878
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## 3211          1          2    0.7617283227
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## 4362          1          2    0.7617215021
## 6035          1          2    0.7617205344
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## 4912          1          2    0.7616924416
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```

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## 18502        1      2   0.7616513616
## 4661         1      2   0.7616289208
## 3600         1      2   0.7616223414
## 3124         1      2   0.7616199312
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## 3602         1      2   0.7615766679
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```

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```

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## 4461         1         2  0.7607925572
## 3570         1         2  0.7607905863
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## 3631           1           2   0.7596077925
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## 4864          1          2  0.7584400667
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## 5568          1          2  0.7584195481
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## 2960          1          2  0.7584052033
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## 5366          1          2  0.7584037637
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## 4195          1          2  0.7584010372
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## 7522          1          2  0.7583722714
## 4924          1          2  0.7583673760
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## 3000          1          2  0.7583384127
## 4681          1          2  0.7583352510
## 3095          1          2  0.7583330519
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## 6303          1          2  0.7582808121
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## 3352          1          2  0.7582722677
## 4358          1          2  0.7582658621
## 2967          1          2  0.7582551259
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```

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## 3525        1       2    0.7581926679
## 4926        1       2    0.7581843832
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## 5867        1       2    0.7581645537
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## 3524        1       2    0.7581496123
## 3499        1       2    0.7581453887
## 4953        1       2    0.7581316414
## 3399        1       2    0.7581271927
## 5169        1       2    0.7581262065
## 3271        1       2    0.7581229182
## 5041        1       2    0.7581148944
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## 4765        1       2    0.7580102086
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## 4012        1       2    0.7579243906
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```

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## 4447        1        2    0.7578715741
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## 3355        1        2    0.7578475093
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## 3369        1        2    0.7578204276
## 3265        1        2    0.7578138489
## 4615        1        2    0.7578129769
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## 3243        1        2    0.7577910356
## 4017        1        2    0.7577904702
## 5342        1        2    0.7577895645
## 3100        1        2    0.7577795216
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## 2798        1        2    0.7577791703
## 3855        1        2    0.7577745665
## 2996        1        2    0.7577737790
## 4045        1        2    0.7577734575
## 3272        1        2    0.7577631635
## 3092        1        2    0.7577412110
## 3089        1        2    0.7577371966
## 3165        1        2    0.7577244924
## 2765        1        2    0.7577217223
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## 4439        1        2    0.7577146359
## 4714        1        2    0.7577095259
## 5513        1        2    0.7576997007
## 6351        1        2    0.7576976766
## 4957        1        2    0.7576974750
## 3204        1        2    0.7576973638
## 3583        1        2    0.7576838815
## 3259        1        2    0.7576779843
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```

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## 3411          1          2   0.7576726115
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## 4940          1          2   0.7576414087
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## 4927          1          2   0.7576365648
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## 5063          1          2   0.7574886910
## 3423          1          2   0.7574881400
## 15174         1          2   0.7574602584
## 4431          1          2   0.7574552225
## 3046          1          2   0.7574548548
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## 2642          1          2   0.7574323488
## 5213          1          2   0.7574056736
## 3086          1          2   0.7574038780
## 3492          1          2   0.7574025799
## 3853          1          2   0.7573978631
## 4626          1          2   0.7573960123
## 3146          1          2   0.7573939283
## 4863          1          2   0.7573886668
## 3762          1          2   0.7573855867
## 3087          1          2   0.7573840445
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## 12684         1          2   0.7573369635
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## 3011          1          2   0.7573148546
```

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## 2920        1        2   0.7572860533
## 3979        1        2   0.7572812586
## 15407       1        2   0.7572658945
## 4842        1        2   0.7572652468
## 3401        1        2   0.7572620237
## 4929        1        2   0.7572550207
## 2848        1        2   0.7572528803
## 4364        1        2   0.7572512519
## 3172        1        2   0.7572472074
## 3068        1        2   0.7572387567
## 4804        1        2   0.7572320764
## 2841        1        2   0.7572221791
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## 2970        1        2   0.7571855496
## 2829        1        2   0.7571846998
## 5112        1        2   0.7571833587
## 5865        1        2   0.7571539014
## 5375        1        2   0.7571349952
## 3276        1        2   0.7571312064
## 4964        1        2   0.7571310744
## 4481        1        2   0.7571268033
## 6328        1        2   0.7571230225
## 4137        1        2   0.7571212155
## 3744        1        2   0.7571181649
## 2703        1        2   0.7571057965
## 3003        1        2   0.7571039777
## 3721        1        2   0.7571022637
## 2760        1        2   0.7571022006
## 5098        1        2   0.7570989796
## 2901        1        2   0.7570973042
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## 4609        1        2   0.7570762008
## 3410        1        2   0.7570727033
## 6693        1        2   0.7570515502
## 5589        1        2   0.7570411023
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```

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## 5440         1         2    0.7569258302
## 4972         1         2    0.7569195641
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## 2983         1         2    0.7568943113
## 2927         1         2    0.7568884588
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## 3670         1         2    0.7568736001
## 2700         1         2    0.7568604554
## 4246         1         2    0.7568588945
## 5035         1         2    0.7568550082
## 4534         1         2    0.7568431982
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## 4369         1         2    0.7568004296
## 3977         1         2    0.7567920719
## 5048         1         2    0.7567813269
## 2687         1         2    0.7567718863
## 5511         1         2    0.7567706677
## 5379         1         2    0.7567643154
## 4986         1         2    0.7567424157
## 4906         1         2    0.7567393134
## 4959         1         2    0.7567390777
## 3340         1         2    0.7567322847
## 12692        1         2    0.7567304691
## 2727         1         2    0.7567276814
## 12703        1         2    0.7567236633
## 2640         1         2    0.7567098495
## 2639         1         2    0.7567059462
## 3343         1         2    0.7567016254
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## 12705        1         2    0.7566911455
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## 4718         1         2    0.7566781519
## 3203         1         2    0.7566725621
## 3167         1         2    0.7566721782
## 4789         1         2    0.7566671448
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## 2998         1         2    0.7566635568
## 2725         1         2    0.7566619832
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```

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## 4711          1          2    0.7566528494
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## 17802         1          2    0.7566423502
## 2842          1          2    0.7566393134
## 3851          1          2    0.7566201186
## 2931          1          2    0.7566031194
## 3852          1          2    0.7566003805
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## 2705          1          2    0.7565919165
## 2762          1          2    0.7565911712
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## 2732          1          2    0.7565803882
## 2694          1          2    0.7565740415
## 5831          1          2    0.7565732925
## 3662          1          2    0.7565709139
## 2744          1          2    0.7565625956
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## 5182          1          2    0.7565534502
## 3970          1          2    0.7565516233
## 5836          1          2    0.7565498106
## 2630          1          2    0.7565472636
## 4802          1          2    0.7565468881
## 2672          1          2    0.7565401977
## 3162          1          2    0.7565308898
## 2766          1          2    0.7565283370
## 3030          1          2    0.7565182888
## 3060          1          2    0.7565181903
## 3133          1          2    0.7565128002
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## 2957          1          2    0.7565048463
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## 2992          1          2    0.7564918969
## 6267          1          2    0.7564897707
## 3144          1          2    0.7564891252
## 3439          1          2    0.7564754930
## 2707          1          2    0.7564713342
## 6343          1          2    0.7564627173
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## 3021          1          2    0.7564559915
## 4487          1          2    0.7564418769
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## 2933          1          2    0.7564154528
## 3409          1          2    0.7564079169
## 5291          1          2    0.7564019052
## 2726          1          2    0.7564002579
## 4102          1          2    0.7563848579
## 3002          1          2    0.7563737277
```

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## 4822          1          2   0.7563617772
## 6138          1          2   0.7563535004
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## 4330          1          2   0.7563055515
## 5426          1          2   0.7563047372
## 4414          1          2   0.7562992076
## 5062          1          2   0.7562973715
## 5592          1          2   0.7562827491
## 5265          1          2   0.7562653516
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## 3173          1          2   0.7560461798
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## 3241          1          2   0.7560449145
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## 2835          1          2   0.7560398316
## 2838          1          2   0.7560398316
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## 3054          1          2   0.7560366068
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## 15081         1          2   0.7560282926
## 3347          1          2   0.7560267797
## 4958          1          2   0.7560179455
## 12706         1          2   0.7560149781
## 5743          1          2   0.7560099333
## 4245          1          2   0.7560086178
## 2863          1          2   0.7560078990
## 4243          1          2   0.7560047993
## 12264         1          2   0.7559943354
```

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```

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## 2629           1        2    0.7555317914
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## 2616           1        2    0.7555234365
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## 2761           1        2    0.7554453803
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## 2750           1        2    0.7554399739
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## 4373           1        2    0.7554291542
## 3275           1        2    0.7554288304
## 2712           1        2    0.7554249534
## 5436           1        2    0.7554161619
## 2806           1        2    0.7554121632
## 5413           1        2    0.7554069270
## 3194           1        2    0.7553928468
## 4975           1        2    0.7553905298
## 2937           1        2    0.7553853372
## 4978           1        2    0.7553836283
## 2899           1        2    0.7553738627
## 2811           1        2    0.7553654173
## 4491           1        2    0.7553475941
## 2902           1        2    0.7553436042
## 4961           1        2    0.7553424205
## 2834           1        2    0.7553241108
## 2936           1        2    0.7553177464
## 5566           1        2    0.7553116251
## 4855           1        2    0.7553096456
## 6173           1        2    0.7553010005
## 2852           1        2    0.7552714647
## 3254           1        2    0.7552463596
## 2597           1        2    0.7552440457
## 3207           1        2    0.7552420699
## 15955          1        2    0.7552406208
## 3603           1        2    0.7552389434
## 4991           1        2    0.7552344028
```

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## 5114        1        2   0.7552333119
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## 2862        1        2   0.7552262304
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## 2952        1        2   0.7552214240
## 4946        1        2   0.7552092054
## 12686       1        2   0.7552025054
## 4328        1        2   0.7551954629
## 3015        1        2   0.7551882193
## 6341        1        2   0.7551858793
## 3416        1        2   0.7551819991
## 3425        1        2   0.7551819991
## 3476        1        2   0.7551800140
## 6263        1        2   0.7551772879
## 2669        1        2   0.7551733240
## 4212        1        2   0.7551719270
## 5020        1        2   0.7551717882
## 4810        1        2   0.7551677798
## 6353        1        2   0.7551618673
## 5263        1        2   0.7551497915
## 3252        1        2   0.7551440900
## 5595        1        2   0.7551401815
## 4696        1        2   0.7551371185
## 5612        1        2   0.7551364475
## 6508        1        2   0.7551327397
## 2734        1        2   0.7551034933
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## 3982        1        2   0.7550929722
## 2818        1        2   0.7550924854
## 4575        1        2   0.7550919982
## 6081        1        2   0.7550896743
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## 4728        1        2   0.7550778424
## 5052        1        2   0.7550726642
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## 4956        1        2   0.7550652417
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## 2514        1        2   0.7550341115
## 5103        1        2   0.7550305070
## 2728        1        2   0.7550303832
## 4987        1        2   0.7550246911
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## 3290        1        2   0.7550143741
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```

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## 2698        1        2   0.7548604388
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## 4840        1        2   0.7548576292
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## 2668        1        2   0.7548422845
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## 3091        1        2   0.7548307109
## 4432        1        2   0.7548270681
## 2490        1        2   0.7548254584
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## 2730        1        2   0.7546826760
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## 2870        1        2   0.7545849534
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## 2775        1        2   0.7545329316
```

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## 2657          1          2    0.7545302482
## 5195          1          2    0.7545275411
## 5245          1          2    0.7545165884
## 2439          1          2    0.7545163048
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## 2808          1          2    0.7545069601
## 5848          1          2    0.7545040276
## 2496          1          2    0.7544909381
## 3911          1          2    0.7544832393
## 2817          1          2    0.7544773875
## 5445          1          2    0.7544719734
## 3004          1          2    0.7544676545
## 5104          1          2    0.7544579828
## 2890          1          2    0.7544513893
## 2635          1          2    0.7544489443
## 2613          1          2    0.7544444642
## 2638          1          2    0.7544338117
## 2894          1          2    0.7544279051
## 6305          1          2    0.7544116275
## 2866          1          2    0.7544073008
## 6408          1          2    0.7543988453
## 3539          1          2    0.7543758169
## 5280          1          2    0.7543706945
## 5466          1          2    0.7543700791
## 4945          1          2    0.7543694344
## 2886          1          2    0.7543668438
## 6084          1          2    0.7543548813
## 12685         1          2    0.7543530880
## 5327          1          2    0.7543436328
## 4787          1          2    0.7543131541
## 4624          1          2    0.7542949267
## 5088          1          2    0.7542836765
## 12709         1          2    0.7542808941
## 6171          1          2    0.7542779916
## 5767          1          2    0.7542748058
## 12683         1          2    0.7542710653
## 2844          1          2    0.7542534722
## 5028          1          2    0.7542470658
## 5609          1          2    0.7542368846
## 3080          1          2    0.7542342000
## 6698          1          2    0.7542245297
## 6344          1          2    0.7542240538
## 5220          1          2    0.7542222538
## 5187          1          2    0.7542165161
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## 2690          1          2    0.7542074964
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## 4808          1          2    0.7542004405
## 5290          1          2    0.7541896491
## 2466          1          2    0.7541848963
## 5287          1          2    0.7541831505
## 2708          1          2    0.7541785387
## 5200          1          2    0.7541773792
## 2915          1          2    0.7541732026
```

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## 5596         1         2   0.7541398934
## 3093         1         2   0.7541377870
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## 2665         1         2   0.7541298614
## 2717         1         2   0.7541226210
## 6264         1         2   0.7541082442
## 2871         1         2   0.7541019041
## 5085         1         2   0.7540798650
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## 5121         1         2   0.7540730136
## 6507         1         2   0.7540611077
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## 2749         1         2   0.7540554127
## 2763         1         2   0.7540419467
## 5137         1         2   0.7540305534
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## 2662         1         2   0.7540170247
## 2628         1         2   0.7540098701
## 2880         1         2   0.7540068543
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## 2627         1         2   0.7539705720
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## 3978         1         2   0.7539164213
## 5457         1         2   0.7539108454
## 5785         1         2   0.7538946632
## 2865         1         2   0.7538910894
## 4967         1         2   0.7538533938
## 5317         1         2   0.7538449235
## 17893        1         2   0.7538431246
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## 3253         1         2   0.7538394579
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## 4950         1         2   0.7537954350
## 2819         1         2   0.7537921009
## 3426         1         2   0.7537839365
## 6506         1         2   0.7537800325
## 5204         1         2   0.7537766547
## 2464         1         2   0.7537724314
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## 5569         1         2   0.7537642976
## 4708         1         2   0.7537488848
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## 3037         1         2   0.7537267736
```

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## 2820           1           2   0.7537205071
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## 3905           1           2   0.7536959023
## 5593           1           2   0.7536925123
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## 2492           1           2   0.7536897330
## 3226           1           2   0.7536830200
## 5179           1           2   0.7536829179
## 2751           1           2   0.7536784946
## 2374           1           2   0.7536760775
## 2659           1           2   0.7536706650
## 2389           1           2   0.7536561741
## 2792           1           2   0.7536459618
## 4910           1           2   0.7536352906
## 3270           1           2   0.7536335075
## 2943           1           2   0.7536255709
## 5208           1           2   0.7536139987
## 5308           1           2   0.7536126132
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## 5119           1           2   0.7535961658
## 5363           1           2   0.7535959808
## 2715           1           2   0.7535828862
## 2686           1           2   0.7535827865
## 5196           1           2   0.7535742246
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## 15082          1           2   0.7535151717
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## 5340           1           2   0.7534894690
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## 2660           1           2   0.7534640553
## 5073           1           2   0.7534632815
## 3234           1           2   0.7534504015
## 5197           1           2   0.7534477282
## 2723           1           2   0.7534431601
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## 6352           1           2   0.7534182510
## 2501           1           2   0.7533838567
## 4453           1           2   0.7533810197
## 12711          1           2   0.7533687937
## 3121           1           2   0.7533675490
## 2590           1           2   0.7533672910
## 5352           1           2   0.7533627504
## 5037           1           2   0.7533615199
## 5787           1           2   0.7533582249
```

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## 5348         1         2    0.7533439599
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## 2860         1         2    0.7533297291
## 4100         1         2    0.7533185337
## 2495         1         2    0.7533177982
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## 12710        1         2    0.7533113671
## 4349         1         2    0.7533013652
## 5611         1         2    0.7532976438
## 2918         1         2    0.7532969572
## 3278         1         2    0.7532893712
## 2632         1         2    0.7532750843
## 4703         1         2    0.7532663516
## 2631         1         2    0.7532660626
## 2767         1         2    0.7532582897
## 2793         1         2    0.7532581759
## 3353         1         2    0.7532544390
## 4900         1         2    0.7532430144
## 5086         1         2    0.7532363119
## 5606         1         2    0.7532289802
## 12717        1         2    0.7532185425
## 3079         1         2    0.7532102561
## 6172         1         2    0.7532091186
## 2393         1         2    0.7532080202
## 5603         1         2    0.7532077719
## 4326         1         2    0.7532069767
## 6509         1         2    0.7531452562
## 5107         1         2    0.7531120475
## 4800         1         2    0.7531083740
## 3335         1         2    0.7530998480
## 3111         1         2    0.7530776304
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## 2645         1         2    0.7530402550
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## 3074         1         2    0.7530144125
## 3698         1         2    0.7530064211
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## 2661         1         2    0.7529958141
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## 12340        1         2    0.7529816895
## 2663         1         2    0.7529813230
## 2745         1         2    0.7529569575
## 5786         1         2    0.7529552697
## 3077         1         2    0.7529460445
## 5818         1         2    0.7529447468
## 5351         1         2    0.7529410345
## 2781         1         2    0.7529369867
## 2482         1         2    0.7529329961
## 5184         1         2    0.7529323093
## 5180         1         2    0.7529275232
## 2962         1         2    0.7529200166
```

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## 3090           1           2    0.7529164873
## 5608           1           2    0.7529138399
## 2867           1           2    0.7529129226
## 2872           1           2    0.7529033481
## 2653           1           2    0.7529029584
## 2650           1           2    0.7529005149
## 2714           1           2    0.7528992575
## 2579           1           2    0.7528776150
## 2405           1           2    0.7528663843
## 2693           1           2    0.7528655061
## 5230           1           2    0.7528527967
## 3018           1           2    0.7528508337
## 2796           1           2    0.7528503134
## 5176           1           2    0.7528432160
## 2731           1           2    0.7528285129
## 2604           1           2    0.7528245510
## 5467           1           2    0.7528182671
## 5377           1           2    0.7528160092
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## 2988           1           2    0.7528118249
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## 6697           1           2    0.7527837079
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## 5080           1           2    0.7527627960
## 5510           1           2    0.7527523674
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## 5094           1           2    0.7527239622
## 5820           1           2    0.7527223638
## 6648           1           2    0.7527041723
## 5784           1           2    0.7526794416
## 5053           1           2    0.7526594047
## 3078           1           2    0.7526501489
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## 3008           1           2    0.7526024301
## 2634           1           2    0.7525847800
## 2427           1           2    0.7525696139
## 5341           1           2    0.7525512879
## 5601           1           2    0.7525091682
## 2399           1           2    0.7525073944
## 2469           1           2    0.7525065021
## 2443           1           2    0.7525046470
## 2722           1           2    0.7524957435
## 6140           1           2    0.7524917973
## 3277           1           2    0.7524789523
## 2463           1           2    0.7524785585
## 5574           1           2    0.7524770119
## 5329           1           2    0.7524369684
## 12716          1           2    0.7524287819
## 2403           1           2    0.7524100932
## 5500           1           2    0.7523954787
## 5240           1           2    0.7523942872
## 5396           1           2    0.7523621022
```

111

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## 5221        1        2    0.7523534881
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## 6409        1        2    0.7523488828
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## 5383        1        2    0.7523360416
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## 2408        1        2    0.7522702211
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## 4976        1        2    0.7522345348
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## 5315        1        2    0.7522012776
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## 2735        1        2    0.7521561135
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## 2718        1        2    0.7521212656
## 2301        1        2    0.7521185533
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## 5281        1        2    0.7521113608
## 5714        1        2    0.7521009383
```

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## 3084        1        2    0.7520478710
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## 2888        1        2    0.7518007536
## 5559        1        2    0.7517974606
## 5092        1        2    0.7517896442
## 5294        1        2    0.7517884758
## 5385        1        2    0.7517871090
## 2588        1        2    0.7517692943
## 12700       1        2    0.7517591744
## 5343        1        2    0.7517304849
## 2502        1        2    0.7516918344
## 2856        1        2    0.7516225664
## 2311        1        2    0.7516004712
## 5798        1        2    0.7515765119
## 2932        1        2    0.7515745642
## 2729        1        2    0.7515272892
## 4336        1        2    0.7514971982
## 4867        1        2    0.7514813641
## 5503        1        2    0.7514685444
```

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## 2720      1      2   0.7514659011
## 2656      1      2   0.7514489915
## 2468      1      2   0.7514397297
## 2670      1      2   0.7514342919
## 4329      1      2   0.7514278191
## 5744      1      2   0.7514271440
## 2513      1      2   0.7514255783
## 3727      1      2   0.7514117029
## 6342      1      2   0.7514090037
## 2265      1      2   0.7514084063
## 5192      1      2   0.7514035907
## 5499      1      2   0.7513931623
## 5302      1      2   0.7513904849
## 2581      1      2   0.7513803902
## 2440      1      2   0.7513793266
## 3069      1      2   0.7513727978
## 5303      1      2   0.7513594442
## 5451      1      2   0.7513562512
## 3358      1      2   0.7513516922
## 5380      1      2   0.7513409510
## 5864      1      2   0.7513329414
## 2671      1      2   0.7513313978
## 3096      1      2   0.7513214288
## 5711      1      2   0.7513096503
## 5162      1      2   0.7513060759
## 5677      1      2   0.7512864569
## 3297      1      2   0.7512861192
## 2569      1      2   0.7512830805
## 2568      1      2   0.7512760140
## 5770      1      2   0.7512746908
## 2322      1      2   0.7512719203
## 5821      1      2   0.7512686891
## 5198      1      2   0.7512642101
## 2572      1      2   0.7512621472
## 6078      1      2   0.7512512325
## 5168      1      2   0.7512448928
## 5249      1      2   0.7512403945
## 5395      1      2   0.7512403435
## 2802      1      2   0.7512310058
## 2407      1      2   0.7512288512
## 13989     1      2   0.7512271420
## 2406      1      2   0.7512224154
## 5461      1      2   0.7512145913
## 2701      1      2   0.7512136005
## 2567      1      2   0.7512104446
## 4779      1      2   0.7511930800
## 2418      1      2   0.7511929944
## 5532      1      2   0.7511919730
## 12708     1      2   0.7511821497
## 5448      1      2   0.7511808991
## 5505      1      2   0.7511608814
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## 5577      1      2   0.7511201654
## 4786      1      2   0.7511050689
```

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## 3703          1          2    0.7511046126
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## 2876          1          2    0.7510660740
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## 2370          1          2    0.7510582545
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## 7366          1          2    0.7510346970
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## 2873          1          2    0.7510140081
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## 5619          1          2    0.7508873172
## 5506          1          2    0.7508872128
## 6645          1          2    0.7508733168
## 3112          1          2    0.7508561144
## 5345          1          2    0.7508480830
## 2352          1          2    0.7508456002
## 5585          1          2    0.7508389639
## 2742          1          2    0.7508370100
## 2515          1          2    0.7508245249
## 2379          1          2    0.7508216636
## 3026          1          2    0.7508164554
## 2776          1          2    0.7508161087
## 2298          1          2    0.7508159285
## 3248          1          2    0.7508023894
## 2654          1          2    0.7507550995
## 2480          1          2    0.7507520437
## 2637          1          2    0.7507504887
## 2435          1          2    0.7507461873
## 2956          1          2    0.7507393114
## 5791          1          2    0.7507385556
## 2498          1          2    0.7507362483
## 2589          1          2    0.7507119907
## 2633          1          2    0.7507038922
## 5175          1          2    0.7506986961
## 3274          1          2    0.7506795622
## 3169          1          2    0.7506792972
## 5462          1          2    0.7506757281
## 5740          1          2    0.7506757281
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## 3729          1          2    0.7506150198
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## 2382          1          2    0.7505711131
## 3023          1          2    0.7505614498
## 2339          1          2    0.7505592247
```

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## 5178        1        2   0.7504915327
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## 4547        1        2   0.7504770927
## 2453        1        2   0.7504736316
## 5455        1        2   0.7504615981
## 5374        1        2   0.7504534626
## 6688        1        2   0.7504476792
## 2649        1        2   0.7504390249
## 2560        1        2   0.7504263879
## 5458        1        2   0.7503883215
## 2320        1        2   0.7503834154
## 2580        1        2   0.7503825939
## 5862        1        2   0.7503640383
## 5824        1        2   0.7503491495
## 4699        1        2   0.7503378330
## 5087        1        2   0.7503341174
## 2641        1        2   0.7503311987
## 5533        1        2   0.7502895381
## 3641        1        2   0.7502841632
## 5355        1        2   0.7502743131
## 2319        1        2   0.7502417253
## 5166        1        2   0.7502311991
## 5662        1        2   0.7502179092
## 5816        1        2   0.7502146005
## 2832        1        2   0.7502106054
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## 4974        1        2   0.7501586224
## 2562        1        2   0.7501544322
## 2878        1        2   0.7501465944
## 2875        1        2   0.7501439651
## 2746        1        2   0.7501240166
## 3273        1        2   0.7500880177
## 6658        1        2   0.7500880113
## 6657        1        2   0.7500832945
## 3045        1        2   0.7500653534
## 5353        1        2   0.7500258673
## 3475        1        2   0.7500186193
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## 2391        1        2   0.7500117228
## 5387        1        2   0.7500060643
## 2390        1        2   0.7500035007
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## 2585        1        2   0.7499920780
## 2559        1        2   0.7499913123
```

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## 2789          1          2    0.7499687791
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## 2889          1          2    0.7499590957
## 4866          1          2    0.7499424713
## 5262          1          2    0.7499284240
## 2787          1          2    0.7499284216
## 5255          1          2    0.7499207607
## 5305          1          2    0.7499188391
## 17580         1          2    0.7499139807
## 2788          1          2    0.7499120039
## 2446          1          2    0.7499055608
## 2881          1          2    0.7498904744
## 5354          1          2    0.7498763051
## 3036          1          2    0.7498512974
## 6656          1          2    0.7498469810
## 4378          1          2    0.7498294837
## 5211          1          2    0.7498235604
## 2321          1          2    0.7498113330
## 5229          1          2    0.7498104295
## 2652          1          2    0.7498050362
## 2696          1          2    0.7497527634
## 2691          1          2    0.7497312923
## 5093          1          2    0.7497290292
## 5736          1          2    0.7497014168
## 2338          1          2    0.7496745183
## 2360          1          2    0.7496688632
## 2644          1          2    0.7496683892
## 5508          1          2    0.7496681428
## 3451          1          2    0.7496584808
## 2378          1          2    0.7496246777
## 5985          1          2    0.7496200824
## 5691          1          2    0.7496185825
## 5155          1          2    0.7496110638
## 5081          1          2    0.7496021460
## 5120          1          2    0.7495942659
## 5333          1          2    0.7495861369
## 3072          1          2    0.7495771012
## 2429          1          2    0.7495570586
## 5336          1          2    0.7495490635
## 2450          1          2    0.7495332009
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## 2449          1          2    0.7494905937
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## 2343          1          2    0.7494109341
## 4973          1          2    0.7494048690
## 5367          1          2    0.7493801622
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## 2595          1          2    0.7493537283
```

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## 5597          1          2    0.7493504299
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## 5304          1          2    0.7493428135
## 5300          1          2    0.7493280673
## 2264          1          2    0.7493251150
## 2773          1          2    0.7493249798
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## 5362          1          2    0.7493197325
## 2555          1          2    0.7493196129
## 2258          1          2    0.7493163260
## 3208          1          2    0.7493132341
## 5167          1          2    0.7493129778
## 2188          1          2    0.7493100704
## 4859          1          2    0.7493005308
## 6649          1          2    0.7492997736
## 2396          1          2    0.7492997019
## 2586          1          2    0.7492854750
## 2438          1          2    0.7492797224
## 5728          1          2    0.7492614138
## 5358          1          2    0.7492582307
## 5301          1          2    0.7492551026
## 3016          1          2    0.7492378644
## 5405          1          2    0.7492373869
## 6655          1          2    0.7492371604
## 4553          1          2    0.7492303179
## 5190          1          2    0.7492153844
## 5252          1          2    0.7492129577
## 2647          1          2    0.7492093619
## 5251          1          2    0.7492057402
## 5497          1          2    0.7491846124
## 5512          1          2    0.7491775452
## 5571          1          2    0.7491633457
## 5433          1          2    0.7491581881
## 6764          1          2    0.7491559130
## 5468          1          2    0.7491540119
## 5534          1          2    0.7491499561
## 5218          1          2    0.7491456412
## 2294          1          2    0.7491364267
## 5459          1          2    0.7491358775
## 5661          1          2    0.7491354291
## 2304          1          2    0.7491347037
## 5140          1          2    0.7491341233
## 4809          1          2    0.7491302969
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## 5034          1          2    0.7491178960
## 3044          1          2    0.7491003472
## 2357          1          2    0.7490593089
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## 2965          1          2    0.7490040220
## 2964          1          2    0.7490030255
## 3678          1          2    0.7490009975
## 5407          1          2    0.7489836241
## 5509          1          2    0.7489458257
## 5501          1          2    0.7489327786
```

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## 5741        1        2   0.7488886830
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## 2935        1        2   0.7488689775
## 13990       1        2   0.7488681622
## 5141        1        2   0.7488673970
## 2462        1        2   0.7488597798
## 6304        1        2   0.7488450386
## 5373        1        2   0.7488438686
## 5494        1        2   0.7488391514
## 2297        1        2   0.7488389841
## 2739        1        2   0.7488342059
## 2214        1        2   0.7488310274
## 2192        1        2   0.7488250959
## 5409        1        2   0.7488243836
## 2741        1        2   0.7488220442
## 5244        1        2   0.7488202557
## 2430        1        2   0.7488183633
## 2900        1        2   0.7488174659
## 2290        1        2   0.7488109420
## 5591        1        2   0.7487981127
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## 5737        1        2   0.7487950675
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## 2187        1        2   0.7487554878
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## 2550        1        2   0.7487400023
## 2553        1        2   0.7487400023
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## 5241        1        2   0.7487274957
## 2184        1        2   0.7486982986
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## 2432        1        2   0.7486919222
## 6086        1        2   0.7486844571
## 5313        1        2   0.7486817185
## 2198        1        2   0.7486653232
## 5489        1        2   0.7486569254
## 5233        1        2   0.7486535020
## 2460        1        2   0.7486461115
## 5019        1        2   0.7486281905
## 2143        1        2   0.7486271136
## 2552        1        2   0.7486162270
## 6647        1        2   0.7486128598
## 5101        1        2   0.7485884107
## 2133        1        2   0.7485653559
## 6653        1        2   0.7485647232
## 2584        1        2   0.7485523308
## 4273        1        2   0.7485437252
## 2372        1        2   0.7485289757
## 2365        1        2   0.7485206769
## 2977        1        2   0.7485187432
## 2557        1        2   0.7485154080
## 3195        1        2   0.7485080726
## 4546        1        2   0.7485036722
```

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## 2607          1          2   0.7484992784
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## 5282          1          2   0.7484854018
## 5464          1          2   0.7484817094
## 2186          1          2   0.7484752101
## 5246          1          2   0.7484747586
## 2564          1          2   0.7484696188
## 2719          1          2   0.7484675549
## 5400          1          2   0.7484613275
## 2380          1          2   0.7484561496
## 2197          1          2   0.7484559239
## 5239          1          2   0.7484495027
## 2324          1          2   0.7484352992
## 5613          1          2   0.7484314470
## 5431          1          2   0.7484183390
## 5247          1          2   0.7484165335
## 5635          1          2   0.7484164707
## 2877          1          2   0.7484158682
## 2459          1          2   0.7484102241
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## 5370          1          2   0.7483722093
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## 2504          1          2   0.7481997713
## 5795          1          2   0.7481829451
## 4444          1          2   0.7481616174
## 4298          1          2   0.7481461321
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```

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## 5573          1          2    0.7476293392
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## 5502          1          2    0.7475975357
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## 2601          1          2    0.7475933901
## 2412          1          2    0.7475795600
## 2454          1          2    0.7475580014
## 2431          1          2    0.7475453573
## 5231          1          2    0.7475160842
## 5084          1          2    0.7474641249
## 2561          1          2    0.7474485183
## 5475          1          2    0.7474463405
## 2284          1          2    0.7474400807
```

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## 2341            1            2    0.7474239942
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## 2710            1            2    0.7472093670
## 4525            1            2    0.7471648792
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## 2594            1            2    0.7471394331
## 5359            1            2    0.7471352951
## 5561            1            2    0.7471329704
## 2546            1            2    0.7471221368
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## 5552            1            2    0.7470894557
## 6763            1            2    0.7470826878
## 3663            1            2    0.7470476832
## 5860            1            2    0.7470451101
## 2315            1            2    0.7470372293
## 2191            1            2    0.7470349109
## 2337            1            2    0.7469980832
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## 2784            1            2    0.7468644504
## 5518            1            2    0.7468618909
## 3728            1            2    0.7468607195
## 5563            1            2    0.7468535565
## 5517            1            2    0.7468507435
## 6849            1            2    0.7468360735
## 2531            1            2    0.7468287829
## 2112            1            2    0.7468249836
## 2058            1            2    0.7468173199
## 2536            1            2    0.7468173199
## 5256            1            2    0.7468161872
## 2777            1            2    0.7468150250
## 2269            1            2    0.7468116335
## 2551            1            2    0.7468050368
## 2681            1            2    0.7468050368
## 2543            1            2    0.7468004836
```

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## 4351          1          2   0.7467780186
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## 2554          1          2   0.7467707487
## 5607          1          2   0.7467621882
## 4814          1          2   0.7467370755
## 5546          1          2   0.7467359530
## 5486          1          2   0.7467324910
## 5279          1          2   0.7467266465
## 5605          1          2   0.7467208663
## 2769          1          2   0.7467166218
## 2458          1          2   0.7467128991
## 5779          1          2   0.7467069964
## 5371          1          2   0.7466997003
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## 5634          1          2   0.7466889785
## 6428          1          2   0.7466773528
## 2680          1          2   0.7466751756
## 5424          1          2   0.7466709028
## 5242          1          2   0.7466562921
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## 5516          1          2   0.7465912785
## 5453          1          2   0.7465575671
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## 5644          1          2   0.7465277124
## 6845          1          2   0.7465115444
## 6847          1          2   0.7465061012
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## 5920          1          2   0.7464564434
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## 5399          1          2   0.7464405523
## 2532          1          2   0.7464178208
## 2049          1          2   0.7464074495
## 2110          1          2   0.7463878733
## 5491          1          2   0.7463815105
## 5185          1          2   0.7463730443
## 5274          1          2   0.7463687970
## 5984          1          2   0.7463499215
## 2327          1          2   0.7463073571
## 5819          1          2   0.7462721075
## 5259          1          2   0.7462711192
## 2347          1          2   0.7462612118
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## 2300          1          2   0.7461994542
## 2303          1          2   0.7461951868
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## 2281          1          2   0.7461586264
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## 2302          1          2   0.7461396174
```

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## 5298          1          2   0.7461294159
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## 2296          1          2   0.7460701131
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## 5446          1          2   0.7460510395
## 5432          1          2   0.7460498256
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## 5594          1          2   0.7459541873
## 2528          1          2   0.7459485518
## 2287          1          2   0.7459465042
## 2114          1          2   0.7459442981
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## 2057          1          2   0.7458992392
## 5881          1          2   0.7458837116
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## 2139          1          2   0.7458557345
## 1972          1          2   0.7458430320
## 2436          1          2   0.7458364524
## 2179          1          2   0.7458305992
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## 5495          1          2   0.7458047182
## 5538          1          2   0.7458042719
## 5586          1          2   0.7457975457
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## 2533          1          2   0.7457864596
## 5425          1          2   0.7457417532
## 2476          1          2   0.7457183399
## 6592          1          2   0.7456972776
## 2477          1          2   0.7456916411
## 5826          1          2   0.7456887471
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## 6955          1          2   0.7456566295
## 6026          1          2   0.7456450768
## 2942          1          2   0.7456414550
## 6299          1          2   0.7456313102
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## 5903          1          2   0.7456025191
## 5614          1          2   0.7455869225
## 5655          1          2   0.7455866910
## 6689          1          2   0.7455766021
## 6851          1          2   0.7455564151
## 6798          1          2   0.7455470475
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## 5654          1          2   0.7455286022
## 5912          1          2   0.7455185755
## 5479          1          2   0.7455128077
## 5701          1          2   0.7455103917
## 5356          1          2   0.7455048653
```

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## 2620          1          2    0.7455016538
## 2042          1          2    0.7454942742
## 2525          1          2    0.7454942742
## 5652          1          2    0.7454914770
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## 5988          1          2    0.7454860681
## 6348          1          2    0.7454782435
## 5507          1          2    0.7454781227
## 5690          1          2    0.7454752161
## 2527          1          2    0.7454649503
## 2047          1          2    0.7454645407
## 2522          1          2    0.7454446987
## 5845          1          2    0.7454318247
## 2541          1          2    0.7454298161
## 2772          1          2    0.7454280590
## 2542          1          2    0.7454242264
## 2283          1          2    0.7454200132
## 1985          1          2    0.7454192162
## 6957          1          2    0.7454183339
## 2545          1          2    0.7454042993
## 2539          1          2    0.7454026176
## 6796          1          2    0.7453992819
## 2538          1          2    0.7453896128
## 2535          1          2    0.7453881525
## 5314          1          2    0.7453830597
## 5289          1          2    0.7453805236
## 6297          1          2    0.7453764170
## 5775          1          2    0.7453699161
## 5823          1          2    0.7453677404
## 5480          1          2    0.7453443493
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## 2592          1          2    0.7453436478
## 5918          1          2    0.7453411974
## 2507          1          2    0.7453312911
## 5555          1          2    0.7453301729
## 2404          1          2    0.7453185845
## 2574          1          2    0.7453112485
## 2790          1          2    0.7453092226
## 5679          1          2    0.7453033750
## 2173          1          2    0.7452814358
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## 2289          1          2    0.7452718394
## 2452          1          2    0.7452714059
## 5817          1          2    0.7452045993
## 2415          1          2    0.7451934008
## 2526          1          2    0.7451734197
## 5369          1          2    0.7451475229
## 2108          1          2    0.7451381614
## 2424          1          2    0.7451048662
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## 5700          1          2    0.7450418490
## 13994         1          2    0.7450221225
## 5916          1          2    0.7450060907
```

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## 5406          1          2    0.7449832774
## 2130          1          2    0.7449676873
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## 5649          1          2    0.7449489196
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## 5483          1          2    0.7449301080
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## 5777          1          2    0.7449199739
## 2080          1          2    0.7449146277
## 1997          1          2    0.7449102211
## 2908          1          2    0.7449051805
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## 2079          1          2    0.7448878772
## 2041          1          2    0.7448873587
## 2075          1          2    0.7448591083
## 2519          1          2    0.7448492874
## 2618          1          2    0.7448420938
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## 5913          1          2    0.7448275103
## 2291          1          2    0.7447737557
## 5539          1          2    0.7447364411
## 1963          1          2    0.7447193018
## 5429          1          2    0.7447040277
## 5772          1          2    0.7446754777
## 5630          1          2    0.7446514991
## 2353          1          2    0.7446380968
## 2570          1          2    0.7446231037
## 2558          1          2    0.7446151880
## 5914          1          2    0.7446150108
## 2361          1          2    0.7446146024
## 2350          1          2    0.7445869658
## 2346          1          2    0.7445768825
## 2266          1          2    0.7445731115
## 1970          1          2    0.7445663994
## 4622          1          2    0.7445580069
## 2376          1          2    0.7445474254
## 6586          1          2    0.7445454528
## 4608          1          2    0.7445438651
## 5477          1          2    0.7445292556
## 1998          1          2    0.7445226305
## 5632          1          2    0.7445088288
## 1999          1          2    0.7444944400
## 2505          1          2    0.7444914048
## 2907          1          2    0.7444891253
## 2456          1          2    0.7444885829
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## 5535          1          2    0.7444815345
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## 6650          1          2    0.7444614732
## 5364          1          2    0.7444551979
## 5347          1          2    0.7444298471
```

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## 5307          1          2   0.7444194648
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## 6591          1          2   0.7443891937
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## 5531          1          2   0.7443450902
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## 5082          1          2   0.7442990519
## 6108          1          2   0.7442977391
## 5478          1          2   0.7442740181
## 5541          1          2   0.7442668156
## 4623          1          2   0.7442167032
## 6761          1          2   0.7442087192
## 2328          1          2   0.7441727975
## 2100          1          2   0.7441536964
## 5923          1          2   0.7441478295
## 5827          1          2   0.7441431100
## 6958          1          2   0.7441392490
## 6799          1          2   0.7441332709
## 14011         1          2   0.7440950039
## 5521          1          2   0.7440892931
## 13995         1          2   0.7440856399
## 5390          1          2   0.7440408443
## 1983          1          2   0.7440267085
## 2085          1          2   0.7440152875
## 1984          1          2   0.7440120743
## 2017          1          2   0.7440096062
## 5906          1          2   0.7439986232
## 5657          1          2   0.7439915402
## 5217          1          2   0.7439873252
## 1982          1          2   0.7439649323
## 2529          1          2   0.7439443828
## 2091          1          2   0.7439420904
## 1979          1          2   0.7439390734
## 2074          1          2   0.7439064216
## 2248          1          2   0.7438932007
## 2334          1          2   0.7438796612
## 2070          1          2   0.7438762358
## 5939          1          2   0.7438508455
## 2791          1          2   0.7438385436
## 2019          1          2   0.7438376084
## 2340          1          2   0.7438005635
## 2371          1          2   0.7437964413
## 5487          1          2   0.7437858543
## 2329          1          2   0.7437745447
## 1969          1          2   0.7437677690
## 2204          1          2   0.7437524537
## 2148          1          2   0.7437363263
## 5646          1          2   0.7437338265
## 5735          1          2   0.7437252437
## 5219          1          2   0.7437250580
## 6759          1          2   0.7437176980
## 2142          1          2   0.7437135097
## 5616          1          2   0.7437040976
```

```
## 6758         1         2    0.7437037418
## 5299         1         2    0.7437025567
## 5776         1         2    0.7437010644
## 2141         1         2    0.7436859873
## 2738         1         2    0.7436704507
## 5774         1         2    0.7436354001
## 5391         1         2    0.7436156744
## 1981         1         2    0.7436000425
## 2055         1         2    0.7435887140
## 6954         1         2    0.7435754481
## 4380         1         2    0.7435558332
## 2069         1         2    0.7435534509
## 2520         1         2    0.7435475829
## 1980         1         2    0.7435362037
## 1962         1         2    0.7435357558
## 2524         1         2    0.7435024861
## 2183         1         2    0.7434901432
## 2102         1         2    0.7434841116
## 2253         1         2    0.7434729542
## 5712         1         2    0.7434708794
## 6652         1         2    0.7434676454
## 5361         1         2    0.7434054178
## 5258         1         2    0.7433858163
## 5656         1         2    0.7433613577
## 2612         1         2    0.7433441816
## 2591         1         2    0.7433320654
## 2544         1         2    0.7433251723
## 1958         1         2    0.7433131184
## 5288         1         2    0.7433077559
## 4792         1         2    0.7432900756
## 2419         1         2    0.7432815947
## 2534         1         2    0.7432473061
## 2146         1         2    0.7432356051
## 2409         1         2    0.7432044075
## 5530         1         2    0.7432031574
## 5579         1         2    0.7431676183
## 1964         1         2    0.7431595631
## 6028         1         2    0.7431430588
## 5650         1         2    0.7431336329
## 2056         1         2    0.7431086227
## 5580         1         2    0.7430892194
## 5932         1         2    0.7430590685
## 1890         1         2    0.7430573764
## 2622         1         2    0.7430440854
## 5474         1         2    0.7430427779
## 2254         1         2    0.7430326522
## 1996         1         2    0.7430323732
## 6021         1         2    0.7430310920
## 1973         1         2    0.7430232347
## 2012         1         2    0.7429984292
## 2000         1         2    0.7429859371
## 5645         1         2    0.7429851825
## 2246         1         2    0.7429847133
## 2203         1         2    0.7429763787
```

```
## 2247          1          2   0.7429711361
## 2563          1          2   0.7429679868
## 2268          1          2   0.7429655639
## 2488          1          2   0.7429432251
## 2147          1          2   0.7429400706
## 2305          1          2   0.7429040290
## 1885          1          2   0.7428873511
## 2117          1          2   0.7428678180
## 5828          1          2   0.7428578986
## 2099          1          2   0.7428578270
## 5781          1          2   0.7428567041
## 5822          1          2   0.7428349379
## 2402          1          2   0.7428341270
## 5926          1          2   0.7428042415
## 5904          1          2   0.7427794940
## 1905          1          2   0.7427794187
## 2097          1          2   0.7427721443
## 2240          1          2   0.7427720883
## 2155          1          2   0.7427678960
## 1891          1          2   0.7427570092
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## 5794          1          2   0.7427162246
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## 2267          1          2   0.7427012330
## 2307          1          2   0.7426889886
## 2356          1          2   0.7426470063
## 6765          1          2   0.7426442137
## 5522          1          2   0.7426331237
## 2364          1          2   0.7426306068
## 2455          1          2   0.7426061191
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## 1967          1          2   0.7425356953
## 5543          1          2   0.7425319988
## 2846          1          2   0.7425319240
## 1968          1          2   0.7425313453
## 2540          1          2   0.7425307731
## 2022          1          2   0.7425255620
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## 5493          1          2   0.7424813420
## 5928          1          2   0.7424780832
## 5547          1          2   0.7424505229
## 5581          1          2   0.7424413279
## 5921          1          2   0.7424106720
## 6194          1          2   0.7423927312
## 5618          1          2   0.7423760574
## 5799          1          2   0.7423691705
## 5384          1          2   0.7423600120
## 1881          1          2   0.7423256258
## 4889          1          2   0.7423211482
```

```
## 5553           1           2    0.7423084147
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## 5142           1           2    0.7422681896
## 1887           1           2    0.7422604421
## 6956           1           2    0.7422491960
## 11305          1           2    0.7422066878
## 4934           1           2    0.7421816219
## 5648           1           2    0.7421675398
## 5882           1           2    0.7421649221
## 2270           1           2    0.7421631850
## 2506           1           2    0.7421530143
## 6846           1           2    0.7421478872
## 2101           1           2    0.7421284011
## 2177           1           2    0.7421206309
## 5392           1           2    0.7421147343
## 13992          1           2    0.7421056719
## 2387           1           2    0.7421034746
## 2912           1           2    0.7420623364
## 1902           1           2    0.7420594471
## 1889           1           2    0.7420508768
## 2185           1           2    0.7420433461
## 2342           1           2    0.7420365333
## 1807           1           2    0.7420297563
## 1892           1           2    0.7420272902
## 2228           1           2    0.7420099552
## 6102           1           2    0.7419972455
## 1907           1           2    0.7419958384
## 2093           1           2    0.7419749335
## 2416           1           2    0.7419519886
## 1843           1           2    0.7419456418
## 1871           1           2    0.7419435894
## 5660           1           2    0.7418985919
## 1862           1           2    0.7418773523
## 4350           1           2    0.7418614887
## 5537           1           2    0.7418518391
## 2910           1           2    0.7418508213
## 3504           1           2    0.7418322696
## 5930           1           2    0.7418005568
## 5625           1           2    0.7417856178
## 5934           1           2    0.7417830025
## 2231           1           2    0.7417769074
## 2516           1           2    0.7417700938
## 5529           1           2    0.7417700829
## 1944           1           2    0.7417658901
## 5658           1           2    0.7417482403
## 1858           1           2    0.7417419958
## 1841           1           2    0.7417376482
## 2484           1           2    0.7417316090
## 6632           1           2    0.7417296198
## 5587           1           2    0.7416886821
## 6214           1           2    0.7416833211
## 2018           1           2    0.7416785072
## 1961           1           2    0.7416651749
## 5693           1           2    0.7416637056
```

```
## 5434           1           2    0.7416544135
## 5874           1           2    0.7416544135
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## 6430           1           2    0.7416488771
## 1884           1           2    0.7416360477
## 5859           1           2    0.7416127957
## 6760           1           2    0.7415954372
## 2909           1           2    0.7415941012
## 5408           1           2    0.7415918549
## 2244           1           2    0.7415751091
## 5705           1           2    0.7415570287
## 2233           1           2    0.7415541628
## 5909           1           2    0.7415516930
## 5668           1           2    0.7415413212
## 2242           1           2    0.7415321682
## 1882           1           2    0.7415246595
## 5800           1           2    0.7415246369
## 2115           1           2    0.7415093546
## 5562           1           2    0.7414789799
## 5452           1           2    0.7414416093
## 1949           1           2    0.7414089631
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## 2367           1           2    0.7413537559
## 6212           1           2    0.7413393794
## 2369           1           2    0.7413298129
## 2044           1           2    0.7413190063
## 5397           1           2    0.7412707391
## 6487           1           2    0.7412587880
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## 2509           1           2    0.7412484858
## 2740           1           2    0.7412255555
## 2239           1           2    0.7412205510
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## 2181           1           2    0.7411754678
## 1857           1           2    0.7411751665
## 6593           1           2    0.7411631193
## 2016           1           2    0.7411356168
## 4935           1           2    0.7411199090
## 2251           1           2    0.7411089892
## 2489           1           2    0.7410723393
## 5713           1           2    0.7410635212
## 1840           1           2    0.7410533637
## 5680           1           2    0.7410472509
## 1960           1           2    0.7410442329
## 6123           1           2    0.7410385025
## 2234           1           2    0.7410215436
## 2015           1           2    0.7410132831
## 5994           1           2    0.7410090844
## 1836           1           2    0.7410014678
## 1877           1           2    0.7409966350
## 1830           1           2    0.7409924933
## 2221           1           2    0.7409900547
```

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## 2215          1         2   0.7409870525
## 5588          1         2   0.7409848144
## 6161          1         2   0.7409831340
## 5702          1         2   0.7409796082
## 6848          1         2   0.7409632485
## 2362          1         2   0.7409410666
## 6631          1         2   0.7409374478
## 5481          1         2   0.7409330045
## 2227          1         2   0.7409312168
## 2225          1         2   0.7409311820
## 2106          1         2   0.7409188465
## 2226          1         2   0.7409174460
## 5550          1         2   0.7409103328
## 5703          1         2   0.7409103299
## 5536          1         2   0.7409043812
## 5628          1         2   0.7408903316
## 1903          1         2   0.7408892292
## 2217          1         2   0.7408857970
## 1971          1         2   0.7408587916
## 1870          1         2   0.7408383737
## 5765          1         2   0.7408050924
## 2611          1         2   0.7407809256
## 1828          1         2   0.7407499219
## 2053          1         2   0.7407461367
## 6188          1         2   0.7407374816
## 2250          1         2   0.7407312907
## 2092          1         2   0.7407220788
## 2054          1         2   0.7406881623
## 11306         1         2   0.7406728483
## 5629          1         2   0.7406631554
## 2010          1         2   0.7406353680
## 1888          1         2   0.7406301226
## 2222          1         2   0.7405517586
## 1806          1         2   0.7405333014
## 2224          1         2   0.7405133862
## 5297          1         2   0.7404728570
## 6009          1         2   0.7404668111
## 5642          1         2   0.7404459145
## 2548          1         2   0.7404355566
## 6594          1         2   0.7403795299
## 6024          1         2   0.7403649038
## 5651          1         2   0.7403486614
## 2131          1         2   0.7403437391
## 2048          1         2   0.7402905150
## 5097          1         2   0.7402897864
## 5527          1         2   0.7402890012
## 2103          1         2   0.7402888875
## 6016          1         2   0.7402684735
## 5675          1         2   0.7402407399
## 2245          1         2   0.7401987003
## 2252          1         2   0.7401722551
## 2237          1         2   0.7401685804
## 2116          1         2   0.7401605306
## 5936          1         2   0.7401488554
```

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## 5248          1          2   0.7401258841
## 5498          1          2   0.7401241254
## 5061          1          2   0.7401004536
## 5780          1          2   0.7400436293
## 1869          1          2   0.7400121881
## 6771          1          2   0.7400097864
## 2331          1          2   0.7400026609
## 1838          1          2   0.7399899625
## 6213          1          2   0.7399484274
## 1824          1          2   0.7399483739
## 2216          1          2   0.7399339067
## 5626          1          2   0.7399218945
## 5929          1          2   0.7399166778
## 6966          1          2   0.7399051674
## 1966          1          2   0.7399014603
## 5060          1          2   0.7398791364
## 2033          1          2   0.7398655877
## 1994          1          2   0.7398547208
## 2063          1          2   0.7398500114
## 5672          1          2   0.7398201038
## 16094         1          2   0.7397988366
## 1790          1          2   0.7397972159
## 7147          1          2   0.7397846551
## 1950          1          2   0.7397501267
## 5641          1          2   0.7397499731
## 2082          1          2   0.7397380411
## 2229          1          2   0.7397286670
## 1744          1          2   0.7397272906
## 5653          1          2   0.7397229743
## 5925          1          2   0.7397161291
## 1789          1          2   0.7396564246
## 2011          1          2   0.7396360018
## 2230          1          2   0.7396152264
## 5548          1          2   0.7396140194
## 2180          1          2   0.7395672513
## 2040          1          2   0.7395671575
## 2134          1          2   0.7395604240
## 2013          1          2   0.7395487756
## 2045          1          2   0.7395023438
## 1746          1          2   0.7395009097
## 2132          1          2   0.7394971179
## 2486          1          2   0.7394904482
## 2236          1          2   0.7394814656
## 2176          1          2   0.7394810531
## 3081          1          2   0.7394765284
## 6718          1          2   0.7394338334
## 1886          1          2   0.7394229275
## 6595          1          2   0.7394161666
## 2249          1          2   0.7394026079
## 6960          1          2   0.7393908437
## 2518          1          2   0.7393471977
## 5947          1          2   0.7393103401
## 2014          1          2   0.7392863455
## 6316          1          2   0.7392697471
```

```
## 5526           1           2    0.7392657829
## 6162           1           2    0.7392399567
## 5647           1           2    0.7392336938
## 2219           1           2    0.7392304378
## 2220           1           2    0.7392304378
## 2066           1           2    0.7392211287
## 1904           1           2    0.7392048694
## 1842           1           2    0.7392031098
## 1725           1           2    0.7391950271
## 2008           1           2    0.7391898575
## 2317           1           2    0.7391773393
## 5582           1           2    0.7391735313
## 6651           1           2    0.7391117424
## 1861           1           2    0.7390869487
## 13998          1           2    0.7390649836
## 13993          1           2    0.7390395481
## 2756           1           2    0.7390304500
## 5790           1           2    0.7389969222
## 5755           1           2    0.7389850618
## 5731           1           2    0.7389732708
## 1893           1           2    0.7389567334
## 6204           1           2    0.7389562292
## 6795           1           2    0.7389506215
## 6635           1           2    0.7389426672
## 7304           1           2    0.7389411180
## 1815           1           2    0.7389309331
## 5684           1           2    0.7389218280
## 2243           1           2    0.7389196888
## 2060           1           2    0.7389126494
## 6020           1           2    0.7389110389
## 1853           1           2    0.7389031226
## 2433           1           2    0.7389003400
## 5683           1           2    0.7388825719
## 2023           1           2    0.7388796326
## 2158           1           2    0.7388709810
## 1854           1           2    0.7388662572
## 1787           1           2    0.7388553516
## 2175           1           2    0.7388390534
## 6022           1           2    0.7388187455
## 1737           1           2    0.7388174283
## 5575           1           2    0.7388130655
## 1803           1           2    0.7388027006
## 1991           1           2    0.7387992441
## 2474           1           2    0.7387888685
## 1990           1           2    0.7387864615
## 5878           1           2    0.7387833499
## 5545           1           2    0.7387735062
## 5615           1           2    0.7387687894
## 6248           1           2    0.7387682723
## 2263           1           2    0.7387502722
## 1878           1           2    0.7387408664
## 2038           1           2    0.7386815247
## 1796           1           2    0.7386676618
## 2386           1           2    0.7386582732
```

```
## 2434           1        2   0.7386270761
## 2004           1        2   0.7386237916
## 2064           1        2   0.7386189531
## 2029           1        2   0.7385952461
## 5801           1        2   0.7385932976
## 2105           1        2   0.7385910770
## 5738           1        2   0.7385877885
## 1804           1        2   0.7385866794
## 6770           1        2   0.7385845105
## 1747           1        2   0.7385692058
## 6473           1        2   0.7385628437
## 6384           1        2   0.7385567036
## 5560           1        2   0.7385106918
## 6179           1        2   0.7385080578
## 6376           1        2   0.7385072703
## 1741           1        2   0.7385006739
## 2031           1        2   0.7385000314
## 1977           1        2   0.7384664852
## 5698           1        2   0.7384648187
## 1700           1        2   0.7384639503
## 2087           1        2   0.7384609965
## 1847           1        2   0.7384606296
## 1798           1        2   0.7384439497
## 5583           1        2   0.7384273203
## 2090           1        2   0.7384263240
## 2128           1        2   0.7384180525
## 5927           1        2   0.7383899274
## 6074           1        2   0.7383608586
## 2332           1        2   0.7383059048
## 2202           1        2   0.7383016254
## 1821           1        2   0.7382651332
## 2152           1        2   0.7382428321
## 1743           1        2   0.7382262432
## 2157           1        2   0.7382247292
## 2030           1        2   0.7381923191
## 1995           1        2   0.7381721335
## 1855           1        2   0.7381689295
## 5746           1        2   0.7381165560
## 2195           1        2   0.7381054642
## 14116          1        2   0.7380972404
## 1835           1        2   0.7380963367
## 1975           1        2   0.7380618587
## 2363           1        2   0.7380215184
## 2368           1        2   0.7379774309
## 2232           1        2   0.7379441479
## 6719           1        2   0.7379355387
## 2154           1        2   0.7379226415
## 1848           1        2   0.7379165991
## 5766           1        2   0.7378910826
## 2165           1        2   0.7378534600
## 2160           1        2   0.7378518358
## 1839           1        2   0.7378390076
## 1875           1        2   0.7378301794
## 1816           1        2   0.7378279183
```

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## 5627          1       2   0.7378231334
## 6850          1       2   0.7378196785
## 1846          1       2   0.7378170645
## 2028          1       2   0.7378163803
## 2472          1       2   0.7378050937
## 2162          1       2   0.7377988107
## 5542          1       2   0.7377937697
## 2256          1       2   0.7377902009
## 2201          1       2   0.7377894374
## 5576          1       2   0.7377837617
## 2020          1       2   0.7377796432
## 2280          1       2   0.7377635778
## 2021          1       2   0.7377486233
## 2167          1       2   0.7377299671
## 2164          1       2   0.7377115459
## 6010          1       2   0.7377078169
## 13997         1       2   0.7377071916
## 5989          1       2   0.7376865866
## 6375          1       2   0.7376860221
## 1785          1       2   0.7376786488
## 6425          1       2   0.7376283358
## 5990          1       2   0.7376269053
## 1735          1       2   0.7376252386
## 2039          1       2   0.7376206448
## 1951          1       2   0.7376167519
## 1906          1       2   0.7376098311
## 1794          1       2   0.7376028227
## 1827          1       2   0.7375852088
## 1795          1       2   0.7375750129
## 2127          1       2   0.7375669023
## 1845          1       2   0.7375513265
## 2241          1       2   0.7375458734
## 6232          1       2   0.7375393901
## 2003          1       2   0.7375361104
## 2235          1       2   0.7375359457
## 5666          1       2   0.7375318899
## 5937          1       2   0.7374762167
## 1965          1       2   0.7374698883
## 6265          1       2   0.7374653289
## 5733          1       2   0.7374644357
## 6634          1       2   0.7374533041
## 2027          1       2   0.7374494091
## 5704          1       2   0.7374401992
## 5992          1       2   0.7374317928
## 6907          1       2   0.7374311991
## 2125          1       2   0.7374257934
## 6090          1       2   0.7374205172
## 5907          1       2   0.7374115466
## 5760          1       2   0.7374012454
## 5057          1       2   0.7373911855
## 1779          1       2   0.7373665613
## 2150          1       2   0.7373534203
## 2151          1       2   0.7373305980
## 2385          1       2   0.7372946244
```

```
## 6201          1          2    0.7372627034
## 6218          1          2    0.7372088078
## 1731          1          2    0.7371563738
## 1792          1          2    0.7371487876
## 1799          1          2    0.7371479387
## 1805          1          2    0.7371450238
## 1784          1          2    0.7371306466
## 2171          1          2    0.7371241184
## 2050          1          2    0.7371225084
## 7140          1          2    0.7371209032
## 5902          1          2    0.7371123806
## 1736          1          2    0.7371018698
## 14040         1          2    0.7370939016
## 2487          1          2    0.7370748926
## 1786          1          2    0.7370547474
## 2024          1          2    0.7370544310
## 1992          1          2    0.7370409720
## 2006          1          2    0.7370376021
## 5841          1          2    0.7370072602
## 5460          1          2    0.7369972829
## 5933          1          2    0.7369965881
## 1788          1          2    0.7369943190
## 1837          1          2    0.7369899761
## 6217          1          2    0.7369888679
## 7173          1          2    0.7369625928
## 2523          1          2    0.7369408298
## 13999         1          2    0.7369235220
## 2068          1          2    0.7368858530
## 2485          1          2    0.7368812479
## 2255          1          2    0.7368744116
## 6092          1          2    0.7368323427
## 1734          1          2    0.7368293412
## 2166          1          2    0.7368293412
## 1761          1          2    0.7368166917
## 1868          1          2    0.7367973239
## 5761          1          2    0.7367925160
## 5839          1          2    0.7367841181
## 1730          1          2    0.7367472375
## 5056          1          2    0.7367414734
## 1934          1          2    0.7367413625
## 1715          1          2    0.7367349689
## 13891         1          2    0.7367134405
## 2205          1          2    0.7367018624
## 2037          1          2    0.7366777730
## 1974          1          2    0.7366685395
## 2109          1          2    0.7366474645
## 5739          1          2    0.7366456537
## 2207          1          2    0.7366366654
## 2007          1          2    0.7366144586
## 1943          1          2    0.7366097720
## 2009          1          2    0.7366004307
## 2684          1          2    0.7365835593
## 6298          1          2    0.7365652965
## 5993          1          2    0.7365413822
```

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## 1856          1          2   0.7365361331
## 6011          1          2   0.7365223003
## 1933          1          2   0.7365187913
## 6025          1          2   0.7365177385
## 2026          1          2   0.7365056486
## 1793          1          2   0.7364990643
## 5742          1          2   0.7364903384
## 5709          1          2   0.7364844327
## 1952          1          2   0.7364756981
## 1940          1          2   0.7364713548
## 2126          1          2   0.7364543726
## 4933          1          2   0.7364524346
## 1773          1          2   0.7363929284
## 1937          1          2   0.7363213446
## 2123          1          2   0.7363213446
## 2218          1          2   0.7363118053
## 3156          1          2   0.7363046592
## 5856          1          2   0.7362891720
## 1860          1          2   0.7362796584
## 1976          1          2   0.7362702280
## 5754          1          2   0.7362677976
## 5949          1          2   0.7362580014
## 6015          1          2   0.7362452831
## 2208          1          2   0.7362120964
## 5707          1          2   0.7362074361
## 1932          1          2   0.7362019388
## 6716          1          2   0.7361201383
## 7293          1          2   0.7361020903
## 2111          1          2   0.7360730343
## 2169          1          2   0.7360643285
## 2122          1          2   0.7360296539
## 1797          1          2   0.7360285171
## 2086          1          2   0.7360194755
## 5940          1          2   0.7360072099
## 2473          1          2   0.7359956912
## 1831          1          2   0.7359871407
## 2621          1          2   0.7359629866
## 5748          1          2   0.7359587296
## 2344          1          2   0.7359432588
## 6223          1          2   0.7359251136
## 6911          1          2   0.7358982359
## 6471          1          2   0.7358801611
## 7141          1          2   0.7358374101
## 1959          1          2   0.7358218308
## 2223          1          2   0.7358008135
## 5879          1          2   0.7358004361
## 6909          1          2   0.7357942417
## 5492          1          2   0.7357883036
## 13996         1          2   0.7357802359
## 2062          1          2   0.7357802270
## 1726          1          2   0.7357767298
## 7291          1          2   0.7357720060
## 1701          1          2   0.7357653911
## 1759          1          2   0.7357574793
```

```
## 6908          1          2    0.7357518902
## 5554          1          2    0.7357332848
## 1942          1          2    0.7357275749
## 5482          1          2    0.7356911894
## 6224          1          2    0.7356649124
## 1813          1          2    0.7356590059
## 5706          1          2    0.7356536946
## 5753          1          2    0.7356525343
## 2088          1          2    0.7356497903
## 6633          1          2    0.7356355066
## 1988          1          2    0.7356335310
## 1732          1          2    0.7356327315
## 1926          1          2    0.7356162991
## 6017          1          2    0.7356069954
## 6014          1          2    0.7355834074
## 1844          1          2    0.7355512645
## 5756          1          2    0.7355355268
## 1742          1          2    0.7355268668
## 5584          1          2    0.7355055028
## 5762          1          2    0.7354996676
## 3157          1          2    0.7354927038
## 5640          1          2    0.7354895676
## 6221          1          2    0.7354724916
## 6135          1          2    0.7354402869
## 1778          1          2    0.7354012384
## 1896          1          2    0.7353974684
## 6073          1          2    0.7353974612
## 2174          1          2    0.7353741306
## 1645          1          2    0.7353684299
## 2683          1          2    0.7353555889
## 1663          1          2    0.7353529734
## 1925          1          2    0.7353483646
## 5941          1          2    0.7353458155
## 5783          1          2    0.7353424202
## 2682          1          2    0.7353215947
## 2035          1          2    0.7353067513
## 2196          1          2    0.7352964906
## 6630          1          2    0.7352687738
## 5905          1          2    0.7352282181
## 2036          1          2    0.7352024827
## 1895          1          2    0.7351643292
## 1650          1          2    0.7351614260
## 6910          1          2    0.7351419371
## 5931          1          2    0.7351136212
## 2358          1          2    0.7350748565
## 5578          1          2    0.7350641044
## 1774          1          2    0.7350612094
## 2401          1          2    0.7350486104
## 6220          1          2    0.7350146996
## 1729          1          2    0.7350143773
## 5957          1          2    0.7349778236
## 15490         1          2    0.7349629059
## 2159          1          2    0.7349513586
## 6767          1          2    0.7349311329
```

```
## 1762          1          2    0.7349234142
## 2025          1          2    0.7349058088
## 2206          1          2    0.7349020888
## 1716          1          2    0.7348820462
## 5055          1          2    0.7348709616
## 1717          1          2    0.7348651756
## 7172          1          2    0.7348592603
## 1927          1          2    0.7348494685
## 1823          1          2    0.7348084247
## 5669          1          2    0.7347799427
## 5699          1          2    0.7347439567
## 2052          1          2    0.7346985370
## 6226          1          2    0.7346882680
## 5059          1          2    0.7346162230
## 2470          1          2    0.7346045386
## 2043          1          2    0.7345778351
## 1876          1          2    0.7345753000
## 6332          1          2    0.7345519291
## 1733          1          2    0.7345333811
## 5808          1          2    0.7345288435
## 5544          1          2    0.7345230170
## 7289          1          2    0.7345074615
## 7294          1          2    0.7345069535
## 1611          1          2    0.7344979766
## 1667          1          2    0.7344945896
## 2262          1          2    0.7344837507
## 6902          1          2    0.7344736055
## 6166          1          2    0.7344654962
## 6012          1          2    0.7344636460
## 6210          1          2    0.7344598514
## 1749          1          2    0.7344384872
## 6216          1          2    0.7344180727
## 6431          1          2    0.7344180727
## 6331          1          2    0.7344086315
## 1626          1          2    0.7343960064
## 5752          1          2    0.7343854263
## 1745          1          2    0.7343797053
## 5667          1          2    0.7343753168
## 5942          1          2    0.7343604301
## 5663          1          2    0.7343567736
## 1989          1          2    0.7343393759
## 14039         1          2    0.7343322642
## 1763          1          2    0.7343314549
## 1640          1          2    0.7343284874
## 2163          1          2    0.7343200332
## 1691          1          2    0.7343189495
## 6835          1          2    0.7343169204
## 2089          1          2    0.7343160373
## 2168          1          2    0.7343006074
## 7139          1          2    0.7342860350
## 5849          1          2    0.7342743133
## 6228          1          2    0.7342710772
## 6129          1          2    0.7342540498
## 5685          1          2    0.7342466848
```

```
## 2278        1        2    0.7342202552
## 6382        1        2    0.7342059188
## 6018        1        2    0.7342058518
## 5789        1        2    0.7341803719
## 5908        1        2    0.7341385521
## 5811        1        2    0.7341283193
## 1644        1        2    0.7341204801
## 5897        1        2    0.7340850665
## 1776        1        2    0.7340657467
## 1621        1        2    0.7340573276
## 1740        1        2    0.7340550391
## 1665        1        2    0.7340419328
## 5716        1        2    0.7340397950
## 1727        1        2    0.7340380249
## 1938        1        2    0.7340172925
## 2104        1        2    0.7339914009
## 7295        1        2    0.7339726990
## 6095        1        2    0.7339167747
## 2124        1        2    0.7338964989
## 6013        1        2    0.7338952889
## 5870        1        2    0.7338933416
## 1941        1        2    0.7338466788
## 6912        1        2    0.7338264499
## 2032        1        2    0.7338261156
## 1822        1        2    0.7338205539
## 5673        1        2    0.7337882454
## 2061        1        2    0.7337750279
## 6097        1        2    0.7337718709
## 1775        1        2    0.7337591817
## 1931        1        2    0.7337576349
## 5622        1        2    0.7337571306
## 1649        1        2    0.7337422644
## 5747        1        2    0.7336239711
## 6330        1        2    0.7335960476
## 2005        1        2    0.7335784880
## 2065        1        2    0.7335719252
## 6383        1        2    0.7335480425
## 5782        1        2    0.7335125025
## 6128        1        2    0.7334961278
## 1935        1        2    0.7334696012
## 1758        1        2    0.7334607982
## 5991        1        2    0.7334419993
## 5807        1        2    0.7334038870
## 5806        1        2    0.7333809708
## 6500        1        2    0.7333702327
## 1782        1        2    0.7333617564
## 6335        1        2    0.7333454886
## 1738        1        2    0.7333430107
## 6233        1        2    0.7333347459
## 1866        1        2    0.7333299349
## 5950        1        2    0.7333255162
## 2471        1        2    0.7333232468
## 1957        1        2    0.7333164632
## 2034        1        2    0.7333101803
```

```
## 1812          1          2    0.7333091414
## 1939          1          2    0.7332990051
## 5853          1          2    0.7332971242
## 2260          1          2    0.7332853249
## 1894          1          2    0.7332844035
## 2001          1          2    0.7332771970
## 5054          1          2    0.7332694003
## 1728          1          2    0.7332637407
## 6222          1          2    0.7332604961
## 1703          1          2    0.7332328076
## 1898          1          2    0.7332304290
## 2084          1          2    0.7332136327
## 6836          1          2    0.7331618940
## 2067          1          2    0.7331544405
## 5951          1          2    0.7331202665
## 2144          1          2    0.7331192705
## 5958          1          2    0.7330973158
## 1584          1          2    0.7330930173
## 1585          1          2    0.7330909775
## 6336          1          2    0.7330875738
## 4724          1          2    0.7330817003
## 1914          1          2    0.7330778026
## 6720          1          2    0.7330352365
## 2161          1          2    0.7330301383
## 1814          1          2    0.7330289635
## 2149          1          2    0.7330189399
## 2153          1          2    0.7330134465
## 6151          1          2    0.7329818304
## 1993          1          2    0.7329675868
## 11215         1          2    0.7329608704
## 5682          1          2    0.7329601656
## 4725          1          2    0.7329578216
## 5664          1          2    0.7329524499
## 14004         1          2    0.7329173221
## 7302          1          2    0.7329143728
## 5953          1          2    0.7328628457
## 18314         1          2    0.7327998505
## 1859          1          2    0.7327967343
## 6091          1          2    0.7327818520
## 6030          1          2    0.7327734141
## 5880          1          2    0.7327629864
## 2277          1          2    0.7327608606
## 5732          1          2    0.7327409398
## 6624          1          2    0.7327323295
## 6315          1          2    0.7327211246
## 5734          1          2    0.7327132084
## 6126          1          2    0.7326534039
## 7299          1          2    0.7326519647
## 2209          1          2    0.7326506601
## 5624          1          2    0.7326295970
## 1921          1          2    0.7326234588
## 5956          1          2    0.7326160795
## 6225          1          2    0.7326159276
## 1583          1          2    0.7326138018
```

```
## 1829         1        2   0.7326118689
## 13785        1        2   0.7326114726
## 2279         1        2   0.7325961162
## 6319         1        2   0.7325928870
## 1589         1        2   0.7325909230
## 5846         1        2   0.7325845210
## 6209         1        2   0.7325810501
## 6165         1        2   0.7325771913
## 6148         1        2   0.7325739709
## 2051         1        2   0.7325469554
## 1739         1        2   0.7325329460
## 6266         1        2   0.7325318399
## 6125         1        2   0.7325284740
## 2210         1        2   0.7324932978
## 1899         1        2   0.7323966985
## 6203         1        2   0.7323852224
## 1646         1        2   0.7323723099
## 1666         1        2   0.7323570465
## 1709         1        2   0.7323023834
## 5796         1        2   0.7322896390
## 5961         1        2   0.7322872095
## 14517        1        2   0.7322858817
## 6019         1        2   0.7322809032
## 1953         1        2   0.7322762966
## 1834         1        2   0.7322659841
## 6439         1        2   0.7322517010
## 3802         1        2   0.7322205209
## 1647         1        2   0.7322071747
## 13669        1        2   0.7322045248
## 1769         1        2   0.7321963793
## 2118         1        2   0.7321963793
## 6149         1        2   0.7321955090
## 1873         1        2   0.7321946141
## 2002         1        2   0.7321827421
## 1651         1        2   0.7321732547
## 1936         1        2   0.7321689797
## 1849         1        2   0.7321644867
## 1615         1        2   0.7321528201
## 1919         1        2   0.7321127250
## 1574         1        2   0.7321127231
## 1550         1        2   0.7321120351
## 1911         1        2   0.7320904033
## 1578         1        2   0.7320538463
## 6438         1        2   0.7320239367
## 6076         1        2   0.7320196389
## 6243         1        2   0.7320180457
## 5855         1        2   0.7320128872
## 6377         1        2   0.7319881842
## 1917         1        2   0.7319844520
## 1556         1        2   0.7319832718
## 6180         1        2   0.7319825331
## 1760         1        2   0.7319628117
## 11214        1        2   0.7319625345
## 2349         1        2   0.7319583195
```

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## 5825          1          2    0.7319492921
## 6211          1          2    0.7319078289
## 5621          1          2    0.7318649424
## 1929          1          2    0.7318450626
## 7290          1          2    0.7318290029
## 1558          1          2    0.7318143715
## 1551          1          2    0.7318066059
## 1620          1          2    0.7318019300
## 7292          1          2    0.7317933812
## 6227          1          2    0.7317603911
## 2129          1          2    0.7317515200
## 5952          1          2    0.7317390239
## 1851          1          2    0.7317212958
## 6333          1          2    0.7316989242
## 1916          1          2    0.7316805082
## 6741          1          2    0.7316137535
## 7300          1          2    0.7315677332
## 1685          1          2    0.7315646748
## 1918          1          2    0.7315636745
## 2211          1          2    0.7315375426
## 1872          1          2    0.7315228827
## 2170          1          2    0.7315106130
## 6219          1          2    0.7314881794
## 1522          1          2    0.7314429542
## 14005         1          2    0.7313369168
## 5899          1          2    0.7313267184
## 7262          1          2    0.7313236774
## 6152          1          2    0.7313169850
## 1987          1          2    0.7313155750
## 1555          1          2    0.7313086574
## 6245          1          2    0.7313067363
## 1777          1          2    0.7313030885
## 1754          1          2    0.7312928243
## 2610          1          2    0.7312925627
## 7263          1          2    0.7312832876
## 2783          1          2    0.7312773797
## 1616          1          2    0.7312772455
## 6202          1          2    0.7312752059
## 15291         1          2    0.7312731807
## 5750          1          2    0.7312689763
## 1617          1          2    0.7312644386
## 1582          1          2    0.7312610524
## 2261          1          2    0.7312449402
## 1901          1          2    0.7312385105
## 5696          1          2    0.7312340588
## 1922          1          2    0.7312336192
## 1688          1          2    0.7312099220
## 5697          1          2    0.7311982486
## 1594          1          2    0.7311834040
## 1867          1          2    0.7311727850
## 1897          1          2    0.7311724398
## 6717          1          2    0.7311626590
## 5058          1          2    0.7311561604
## 16458         1          2    0.7311465558
```

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```
## 1770           1           2    0.7310822392
## 6075           1           2    0.7310685772
## 1710           1           2    0.7310405390
## 6334           1           2    0.7310376622
## 5973           1           2    0.7310312265
## 3880           1           2    0.7310312071
## 4721           1           2    0.7310256862
## 1463           1           2    0.7310150576
## 6436           1           2    0.7310136537
## 5858           1           2    0.7309898453
## 6156           1           2    0.7309759718
## 5788           1           2    0.7309389441
## 6094           1           2    0.7309324522
## 1956           1           2    0.7309312916
## 14006          1           2    0.7309191661
## 1600           1           2    0.7309015213
## 2135           1           2    0.7308845659
## 5764           1           2    0.7308593480
## 14000          1           2    0.7308562153
## 5896           1           2    0.7308539557
## 1648           1           2    0.7308488203
## 1681           1           2    0.7308470580
## 12702          1           2    0.7308245144
## 1808           1           2    0.7308215848
## 6435           1           2    0.7308025251
## 1780           1           2    0.7308007616
## 6400           1           2    0.7307714408
## 7264           1           2    0.7307678577
## 11704          1           2    0.7307547348
## 6153           1           2    0.7307425619
## 1680           1           2    0.7307385609
## 6625           1           2    0.7307259670
## 1986           1           2    0.7307098232
## 1912           1           2    0.7307091778
## 5894           1           2    0.7307060888
## 1443           1           2    0.7306629640
## 1618           1           2    0.7306568633
## 1750           1           2    0.7306467482
## 5901           1           2    0.7305874079
## 14001          1           2    0.7305731398
## 1852           1           2    0.7305642724
## 1900           1           2    0.7305407429
## 5815           1           2    0.7305325187
## 1909           1           2    0.7305253775
## 1557           1           2    0.7305153910
## 5803           1           2    0.7304789137
## 6023           1           2    0.7304477555
## 1826           1           2    0.7304435385
## 6060           1           2    0.7304347470
## 2178           1           2    0.7304234120
## 1571           1           2    0.7304169056
## 5948           1           2    0.7304114914
## 1544           1           2    0.7303965074
## 6155           1           2    0.7303811201
```

```
## 1928         1         2    0.7303556037
## 16457        1         2    0.7303544296
## 1491         1         2    0.7303411380
## 6318         1         2    0.7303133796
## 1771         1         2    0.7303081933
## 1576         1         2    0.7302920491
## 5802         1         2    0.7302806266
## 5966         1         2    0.7302746395
## 6077         1         2    0.7302574080
## 7297         1         2    0.7302529218
## 5887         1         2    0.7301629894
## 5968         1         2    0.7301415974
## 5850         1         2    0.7301401180
## 1597         1         2    0.7301358552
## 1923         1         2    0.7301180604
## 1809         1         2    0.7301062248
## 1464         1         2    0.7301013207
## 1810         1         2    0.7300827378
## 5872         1         2    0.7300819361
## 1553         1         2    0.7300623805
## 1593         1         2    0.7300207261
## 1704         1         2    0.7299679410
## 6756         1         2    0.7299515926
## 5810         1         2    0.7299500902
## 6434         1         2    0.7299375042
## 2276         1         2    0.7299347214
## 9094         1         2    0.7299124799
## 1549         1         2    0.7299083267
## 1565         1         2    0.7298908140
## 6061         1         2    0.7298469627
## 6424         1         2    0.7298454950
## 7138         1         2    0.7298454950
## 1624         1         2    0.7298396975
## 14007        1         2    0.7298361283
## 2077         1         2    0.7298207902
## 1477         1         2    0.7298196815
## 5708         1         2    0.7298195472
## 1462         1         2    0.7297920843
## 1930         1         2    0.7297817618
## 5805         1         2    0.7297581929
## 6337         1         2    0.7297410441
## 5890         1         2    0.7297337058
## 5943         1         2    0.7297171714
## 5763         1         2    0.7297169765
## 6327         1         2    0.7296599373
## 1436         1         2    0.7296559873
## 1694         1         2    0.7296544351
## 5981         1         2    0.7296523946
## 9095         1         2    0.7296080231
## 6099         1         2    0.7296062232
## 1573         1         2    0.7295862548
## 1686         1         2    0.7295786706
## 1684         1         2    0.7295780241
## 6089         1         2    0.7294544616
```

```
## 5995        1        2    0.7294366332
## 6234        1        2    0.7294352129
## 5964        1        2    0.7294262874
## 1683        1        2    0.7294239207
## 1692        1        2    0.7294149097
## 5898        1        2    0.7294140440
## 1671        1        2    0.7294111941
## 5955        1        2    0.7294105672
## 5945        1        2    0.7294049340
## 1525        1        2    0.7293963455
## 1561        1        2    0.7293927364
## 1702        1        2    0.7293915749
## 14003       1        2    0.7293888399
## 5812        1        2    0.7293847709
## 1689        1        2    0.7293799774
## 5809        1        2    0.7293599745
## 6157        1        2    0.7293587155
## 1955        1        2    0.7293582452
## 1479        1        2    0.7293565765
## 1756        1        2    0.7293481912
## 6244        1        2    0.7293298564
## 6290        1        2    0.7292909257
## 6191        1        2    0.7292616798
## 2785        1        2    0.7292554644
## 2138        1        2    0.7292257975
## 6008        1        2    0.7292212305
## 6398        1        2    0.7292092490
## 1674        1        2    0.7292058056
## 6190        1        2    0.7292005715
## 1676        1        2    0.7291454216
## 1682        1        2    0.7291110781
## 1783        1        2    0.7291003867
## 1687        1        2    0.7290253107
## 15207       1        2    0.7289934100
## 6066        1        2    0.7289299338
## 1915        1        2    0.7289140392
## 4932        1        2    0.7289081624
## 1757        1        2    0.7288684347
## 1850        1        2    0.7288624402
## 4722        1        2    0.7288194265
## 7298        1        2    0.7288112734
## 1564        1        2    0.7287552111
## 5757        1        2    0.7287504431
## 1662        1        2    0.7287216367
## 5974        1        2    0.7286915865
## 1945        1        2    0.7286886818
## 1908        1        2    0.7286835555
## 1658        1        2    0.7286762883
## 6347        1        2    0.7286736708
## 1913        1        2    0.7286734145
## 1457        1        2    0.7286628287
## 5665        1        2    0.7286578881
## 1425        1        2    0.7286465332
## 7301        1        2    0.7286327898
```

```
## 6401          1          2     0.7286259574
## 1427          1          2     0.7286033043
## 1657          1          2     0.7285941977
## 6154          1          2     0.7285623210
## 6521          1          2     0.7285581726
## 6281          1          2     0.7285487165
## 1755          1          2     0.7285442262
## 6063          1          2     0.7285395663
## 6627          1          2     0.7284937706
## 7329          1          2     0.7284884567
## 5892          1          2     0.7284814201
## 6065          1          2     0.7284587815
## 1563          1          2     0.7284333342
## 1426          1          2     0.7284101611
## 5854          1          2     0.7283755570
## 1656          1          2     0.7283695342
## 1825          1          2     0.7283010795
## 5987          1          2     0.7282983933
## 1946          1          2     0.7282580521
## 5758          1          2     0.7282415128
## 1566          1          2     0.7282305169
## 1690          1          2     0.7282267401
## 11216         1          2     0.7282267322
## 2119          1          2     0.7282201356
## 1625          1          2     0.7282135151
## 2189          1          2     0.7281812543
## 1601          1          2     0.7281756560
## 1659          1          2     0.7281725056
## 5963          1          2     0.7281653755
## 1529          1          2     0.7281344806
## 5851          1          2     0.7281267507
## 5857          1          2     0.7281217193
## 7303          1          2     0.7281194200
## 5967          1          2     0.7281100644
## 1541          1          2     0.7280785178
## 6725          1          2     0.7280749056
## 1442          1          2     0.7280543565
## 6192          1          2     0.7279923527
## 1781          1          2     0.7279839738
## 1910          1          2     0.7279777754
## 4720          1          2     0.7279676268
## 9692          1          2     0.7279631763
## 1559          1          2     0.7279495314
## 1677          1          2     0.7279349959
## 6527          1          2     0.7279272553
## 6045          1          2     0.7279241996
## 6071          1          2     0.7279220431
## 6903          1          2     0.7279144378
## 1461          1          2     0.7278914147
## 6042          1          2     0.7278755785
## 6235          1          2     0.7278729228
## 6628          1          2     0.7278576818
## 6790          1          2     0.7278452197
## 6282          1          2     0.7278423953
```

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## 5751          1        2   0.7278421607
## 6528          1        2   0.7278301011
## 6522          1        2   0.7278266954
## 1478          1        2   0.7277868526
## 6007          1        2   0.7277800768
## 1627          1        2   0.7277689767
## 5938          1        2   0.7277620076
## 5871          1        2   0.7277577305
## 1802          1        2   0.7277488122
## 6048          1        2   0.7277340529
## 6195          1        2   0.7277176874
## 17917         1        2   0.7277107401
## 6158          1        2   0.7277089478
## 6003          1        2   0.7276808311
## 1572          1        2   0.7276701098
## 1424          1        2   0.7276386763
## 1636          1        2   0.7276260804
## 1668          1        2   0.7276206038
## 6068          1        2   0.7275964931
## 1811          1        2   0.7275649743
## 2259          1        2   0.7275647102
## 1599          1        2   0.7275331316
## 5759          1        2   0.7275277988
## 5954          1        2   0.7275259230
## 6189          1        2   0.7274865648
## 1614          1        2   0.7274848529
## 1767          1        2   0.7274754249
## 1489          1        2   0.7274738581
## 1817          1        2   0.7274654078
## 1475          1        2   0.7274463170
## 1416          1        2   0.7274300545
## 1818          1        2   0.7274217187
## 1542          1        2   0.7274151873
## 1455          1        2   0.7274070439
## 1432          1        2   0.7273557372
## 1498          1        2   0.7273493041
## 5959          1        2   0.7273167238
## 7164          1        2   0.7273158199
## 1422          1        2   0.7272985815
## 7342          1        2   0.7272870249
## 5888          1        2   0.7272869456
## 1696          1        2   0.7272802829
## 1428          1        2   0.7272701112
## 1669          1        2   0.7272622614
## 1623          1        2   0.7272466457
## 1420          1        2   0.7272311762
## 6515          1        2   0.7271900984
## 6426          1        2   0.7271793598
## 1554          1        2   0.7271488765
## 6526          1        2   0.7271333439
## 1978          1        2   0.7271233675
## 6484          1        2   0.7271192290
## 1552          1        2   0.7271054209
## 1675          1        2   0.7270829235
```

```
## 1567           1           2   0.7270696971
## 1678           1           2   0.7270516344
## 1410           1           2   0.7270363764
## 1496           1           2   0.7270136774
## 1502           1           2   0.7270102547
## 6714           1           2   0.7270074775
## 1705           1           2   0.7269963871
## 6132           1           2   0.7269953786
## 1619           1           2   0.7269952230
## 1430           1           2   0.7269931271
## 6006           1           2   0.7269705922
## 6067           1           2   0.7269579774
## 7331           1           2   0.7269430650
## 1488           1           2   0.7268656911
## 4723           1           2   0.7268474931
## 1411           1           2   0.7268465533
## 1456           1           2   0.7268447384
## 1421           1           2   0.7268321677
## 1497           1           2   0.7268269932
## 1819           1           2   0.7268204949
## 1492           1           2   0.7268195280
## 6134           1           2   0.7268187688
## 14002          1           2   0.7267894848
## 6768           1           2   0.7267861613
## 1429           1           2   0.7267533780
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## 2136           1           2   0.7266833549
## 2078           1           2   0.7266806095
## 1772           1           2   0.7266703498
## 1655           1           2   0.7265690359
## 1654           1           2   0.7265576404
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## 3293           1           2   0.7264326346
## 6062           1           2   0.7264320765
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## 6049           1           2   0.7262798998
## 6326           1           2   0.7262759747
## 1444           1           2   0.7262348317
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## 4343           1           2   0.7262166665
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```

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## 1707             1          2   0.7261707519
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## 1516             1          2   0.7260927307
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## 14075            1          2   0.7259613400
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## 1476             1          2   0.7259381591
## 6390             1          2   0.7259076223
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## 6088             1          2   0.7258081527
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## 1487             1          2   0.7254309362
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## 1708             1          2   0.7252631193
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## 1459             1          2   0.7252472780
## 6301             1          2   0.7252462452
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```

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## 6133          1        2   0.7251507152
## 6150          1        2   0.7251439943
## 5840          1        2   0.7251431724
## 6124          1        2   0.7251351387
## 7332          1        2   0.7251338968
## 6193          1        2   0.7251083772
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## 1353          1        2   0.7248235671
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## 1511          1        2   0.7246064541
## 6043          1        2   0.7245994988
## 5891          1        2   0.7245783778
## 1954          1        2   0.7245749342
## 1637          1        2   0.7245684646
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```

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## 6039          1          2    0.7242876332
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## 6238          1          2    0.7241416364
## 2190          1          2    0.7241138785
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## 17724         1          2    0.7239686885
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## 1481          1          2    0.7236158301
## 6440          1          2    0.7235853201
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## 6087          1          2    0.7235320063
## 1863          1          2    0.7235193649
```

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## 1720          1          2    0.7233830204
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## 6053          1          2    0.7232274270
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## 1632          1          2    0.7232139208
## 1560          1          2    0.7231743786
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## 5895          1          2    0.7230904529
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## 1521          1          2    0.7229407897
## 1499          1          2    0.7229382937
## 6380          1          2    0.7229331274
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## 7441          1          2    0.7229234256
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## 5976          1          2    0.7228295703
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## 1480          1          2    0.7227562820
## 1296          1          2    0.7227237295
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## 2467          1          2    0.7226913589
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## 6729          1          2    0.7226404295
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```

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## 1602          1          2    0.7225564019
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## 6293          1          2    0.7224569859
## 1635          1          2    0.7224402811
## 17667         1          2    0.7224378375
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## 6583          1          2    0.7224291328
## 6443          1          2    0.7224236047
## 1329          1          2    0.7224048026
## 6057          1          2    0.7223982324
## 1324          1          2    0.7223920908
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## 1506          1          2    0.7223685800
## 1540          1          2    0.7223628853
## 1865          1          2    0.7223438199
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## 6159          1          2    0.7220541242
## 6175          1          2    0.7220531024
## 1325          1          2    0.7220169777
## 1512          1          2    0.7219969345
## 1495          1          2    0.7219900946
## 1358          1          2    0.7219858784
## 1791          1          2    0.7219828895
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## 7578          1          2    0.7218583998
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## 7580          1          2    0.7217905809
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## 6056          1          2    0.7217365901
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## 1514          1          2    0.7217305723
```

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## 5982         1         2   0.7217293094
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## 6542         1         2   0.7216738755
## 1328         1         2   0.7216316313
## 1323         1         2   0.7215859374
## 1360         1         2   0.7215843185
## 1719         1         2   0.7215386627
## 5847         1         2   0.7215377302
## 10024        1         2   0.7215137921
## 1634         1         2   0.7214878322
## 1282         1         2   0.7214499233
## 17849        1         2   0.7214233032
## 6294         1         2   0.7213757426
## 6715         1         2   0.7213752088
## 5978         1         2   0.7213633039
## 6106         1         2   0.7213427316
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## 1748         1         2   0.7213109463
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## 1232         1         2   0.7212273696
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## 1379         1         2   0.7211606653
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## 1359         1         2   0.7210708930
## 1268         1         2   0.7210657724
## 1431         1         2   0.7210654719
## 1408         1         2   0.7210552864
## 6046         1         2   0.7210530790
## 6753         1         2   0.7210464906
## 6120         1         2   0.7210305057
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## 1539         1         2   0.7209479057
## 4139         1         2   0.7209133524
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```

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## 6044          1          2    0.7207235135
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## 1318          1          2    0.7206105603
## 17725         1          2    0.7205791992
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## 7239          1          2    0.7202692545
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## 6394          1          2    0.7200600726
## 6054          1          2    0.7200503236
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```

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## 1281          1      2   0.7199993475
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## 1610          1      2   0.7196023795
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## 2737          1      2   0.7192176788
## 6121          1      2   0.7192160181
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## 4261          1      2   0.7191894917
```

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## 6168          1        2   0.7189249451
## 6113          1        2   0.7189234789
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## 11836         1        2   0.7188823133
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## 1301          1        2   0.7187174857
## 1288          1        2   0.7186956449
## 4140          1        2   0.7186766917
## 1212          1        2   0.7186429197
## 1250          1        2   0.7186300177
## 1179          1        2   0.7186081024
## 1180          1        2   0.7186003477
## 1368          1        2   0.7185966361
## 1367          1        2   0.7185913755
## 7074          1        2   0.7185728703
## 1175          1        2   0.7185652438
## 1322          1        2   0.7185628200
## 1131          1        2   0.7185578223
## 6207          1        2   0.7185577853
## 7582          1        2   0.7185429183
## 1245          1        2   0.7185263601
## 1244          1        2   0.7185139461
## 6385          1        2   0.7185016719
## 1300          1        2   0.7184920785
## 1147          1        2   0.7184905654
## 9010          1        2   0.7184876742
## 7364          1        2   0.7184806533
## 1149          1        2   0.7184392402
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## 14287         1        2   0.7184134515
## 1191          1        2   0.7183987601
## 1252          1        2   0.7183932444
## 6536          1        2   0.7183859917
## 1177          1        2   0.7183724782
## 1150          1        2   0.7183580703
## 1341          1        2   0.7183570436
## 6178          1        2   0.7183482626
## 17666         1        2   0.7183350578
## 6295          1        2   0.7183210153
```

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## 1366          1          2    0.7182067443
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## 1188          1          2    0.7182031478
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## 6834          1          2    0.7181747299
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## 1226          1          2    0.7179775517
## 14077         1          2    0.7179384832
## 7404          1          2    0.7179104538
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## 6393          1          2    0.7178736797
## 6371          1          2    0.7178730988
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## 6112          1          2    0.7177310609
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## 16803         1          2    0.7177057042
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## 1138          1          2    0.7175935145
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## 6104          1          2    0.7174445753
## 4791          1          2    0.7174056037
## 17586         1          2    0.7173939777
## 1438          1          2    0.7173825650
## 1319          1          2    0.7172923615
## 1115          1          2    0.7172839282
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## 1523          1          2    0.7172683866
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```

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## 6254        1        2    0.7171482931
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## 1357        1        2    0.7171053046
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```

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## 9008        1        2   0.7164143703
## 9015        1        2   0.7164019315
## 6317        1        2   0.7163946425
## 17587       1        2   0.7163783015
## 7073        1        2   0.7163758056
## 9016        1        2   0.7163594260
## 6945        1        2   0.7163592106
## 6873        1        2   0.7163201483
## 3876        1        2   0.7163194013
## 1129        1        2   0.7163079813
## 1128        1        2   0.7162813069
## 6543        1        2   0.7162687134
## 6142        1        2   0.7162685154
## 7583        1        2   0.7162594599
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## 6242        1        2   0.7161696096
## 1201        1        2   0.7161671772
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## 6278        1        2   0.7161552893
## 4540        1        2   0.7161552509
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## 6174          1          2   0.7151839856
## 7577          1          2   0.7151720069
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## 1397          1          2   0.7151464443
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## 1243          1          2   0.7148836992
## 4263          1          2   0.7148658170
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## 1045          1          2   0.7148438760
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## 1167          1          2   0.7148140795
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```

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## 1133         1         2   0.7146357365
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## 6659         1         2   0.7145640764
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## 1533         1         2   0.7145446233
## 7128         1         2   0.7145342351
## 7509         1         2   0.7145328948
## 6182         1         2   0.7145212817
## 1010         1         2   0.7145112559
## 6501         1         2   0.7144811051
## 1018         1         2   0.7144485486
## 7510         1         2   0.7144465196
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## 6626         1         2   0.7143937124
## 6359         1         2   0.7143906084
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## 991          1         2   0.7143504945
## 6421         1         2   0.7143400514
## 1210         1         2   0.7143340928
## 7167         1         2   0.7143313018
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## 1228         1         2   0.7142482940
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## 6466         1         2   0.7140573939
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```

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## 1043          1          2     0.7136165246
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## 1346          1          2     0.7136021244
## 1120          1          2     0.7135885007
## 6881          1          2     0.7135257784
## 6356          1          2     0.7134815740
## 6117          1          2     0.7133632968
## 6119          1          2     0.7133594485
## 6879          1          2     0.7133552725
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## 6114          1          2     0.7133439089
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## 995           1          2     0.7132873633
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## 6277          1          2     0.7132786352
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## 6841          1          2     0.7132527380
## 1168          1          2     0.7132438175
## 7129          1          2     0.7132430930
## 954           1          2     0.7132393627
## 949           1          2     0.7132345208
## 960           1          2     0.7132311378
## 1697          1          2     0.7132283664
## 945           1          2     0.7132249025
## 990           1          2     0.7131648738
## 988           1          2     0.7131547285
## 1102          1          2     0.7131125252
## 1311          1          2     0.7131125252
## 951           1          2     0.7130926051
## 1077          1          2     0.7130884243
## 2377          1          2     0.7130753556
## 1145          1          2     0.7130719621
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## 6357          1          2     0.7130202557
## 6105          1          2     0.7130177581
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## 985           1          2     0.7129964369
## 980           1          2     0.7129944870
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## 3877          1          2     0.7129657049
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```

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## 6559          1          2   0.7124197049
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## 6579          1          2   0.7122060397
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```

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```

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## 9014       1        2    0.7102491101
## 6857       1        2    0.7102318314
## 6887       1        2    0.7102306330
## 6888       1        2    0.7102286682
## 6308       1        2    0.7101997309
## 6637       1        2    0.7101978702
## 6859       1        2    0.7101599513
## 6861       1        2    0.7101435080
## 856        1        2    0.7101278722
## 6452       1        2    0.7101206677
## 14508      1        2    0.7101169159
## 1309       1        2    0.7100256336
## 891        1        2    0.7100221502
## 864        1        2    0.7100070074
## 2809       1        2    0.7100009044
## 7569       1        2    0.7099918516
## 4426       1        2    0.7099848938
## 1197       1        2    0.7099394204
## 896        1        2    0.7099016851
## 9022       1        2    0.7098547957
```

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## 6740         1       2   0.7098327439
## 914          1       2   0.7098236531
## 17496        1       2   0.7098012028
## 1098         1       2   0.7097853257
## 890          1       2   0.7097800605
## 6416         1       2   0.7097745581
## 965          1       2   0.7097483076
## 6415         1       2   0.7097337371
## 1002         1       2   0.7097206127
## 1220         1       2   0.7096828037
## 6876         1       2   0.7096354840
## 6878         1       2   0.7096354840
## 6475         1       2   0.7096191565
## 919          1       2   0.7096189777
## 1093         1       2   0.7095961903
## 3459         1       2   0.7095923541
## 975          1       2   0.7095831621
## 6363         1       2   0.7095744768
## 898          1       2   0.7095681454
## 941          1       2   0.7095627643
## 7433         1       2   0.7095354207
## 7568         1       2   0.7095109704
## 6991         1       2   0.7094808522
## 7131         1       2   0.7093654241
## 7808         1       2   0.7093571030
## 1833         1       2   0.7093330585
## 1482         1       2   0.7093298408
## 6554         1       2   0.7093279880
## 947          1       2   0.7093160029
## 2940         1       2   0.7093051365
## 6324         1       2   0.7092713154
## 6560         1       2   0.7092494888
## 1034         1       2   0.7092211621
## 6856         1       2   0.7091951123
## 6338         1       2   0.7091918406
## 6476         1       2   0.7091812356
## 3795         1       2   0.7091744164
## 6678         1       2   0.7091411516
## 821          1       2   0.7090812629
## 863          1       2   0.7090716885
## 976          1       2   0.7090644382
## 1339         1       2   0.7090640288
## 847          1       2   0.7090579154
## 7022         1       2   0.7090532642
## 843          1       2   0.7090447580
## 850          1       2   0.7090423279
## 8039         1       2   0.7090348167
## 1000         1       2   0.7090327148
## 1014         1       2   0.7090306475
## 886          1       2   0.7090287792
## 1001         1       2   0.7090235274
## 940          1       2   0.7090051231
## 825          1       2   0.7089987223
## 1337         1       2   0.7089921674
```

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## 838        1        2   0.7089878366
## 6208       1        2   0.7089832782
## 869        1        2   0.7089725534
## 1439       1        2   0.7089482286
## 1338       1        2   0.7089449497
## 848        1        2   0.7088947480
## 6549       1        2   0.7088882396
## 875        1        2   0.7088786903
## 6870       1        2   0.7088433800
## 17108      1        2   0.7088332159
## 6477       1        2   0.7088223058
## 893        1        2   0.7088222734
## 3794       1        2   0.7088030012
## 1664       1        2   0.7087900022
## 6952       1        2   0.7087532061
## 6403       1        2   0.7087411371
## 969        1        2   0.7087325596
## 1134       1        2   0.7087230772
## 7111       1        2   0.7086743140
## 849        1        2   0.7086161326
## 6855       1        2   0.7085884665
## 832        1        2   0.7085696723
## 837        1        2   0.7085353653
## 913        1        2   0.7085288268
## 6886       1        2   0.7085278734
## 938        1        2   0.7085222846
## 1073       1        2   0.7084381172
## 855        1        2   0.7084232273
## 1531       1        2   0.7084165025
## 829        1        2   0.7083956035
## 4427       1        2   0.7083953350
## 845        1        2   0.7083801261
## 998        1        2   0.7083661798
## 1344       1        2   0.7083550021
## 1071       1        2   0.7082853652
## 6350       1        2   0.7082829071
## 6840       1        2   0.7082558365
## 6360       1        2   0.7082554428
## 6358       1        2   0.7082543972
## 9017       1        2   0.7082514080
## 6368       1        2   0.7082400398
## 6467       1        2   0.7082362332
## 6311       1        2   0.7082345777
## 871        1        2   0.7082218260
## 894        1        2   0.7082207754
## 1203       1        2   0.7082116826
## 6250       1        2   0.7081758776
## 6556       1        2   0.7081737713
## 14506      1        2   0.7081608290
## 9023       1        2   0.7081533097
## 842        1        2   0.7081399303
## 839        1        2   0.7080994948
## 6885       1        2   0.7080715743
## 3793       1        2   0.7080157052
```

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## 1307        1        2   0.7080068478
## 6596        1        2   0.7079880027
## 858         1        2   0.7079727952
## 6865        1        2   0.7078183109
## 8188        1        2   0.7077450981
## 851         1        2   0.7077261157
## 8187        1        2   0.7077111319
## 1065        1        2   0.7077092711
## 1609        1        2   0.7077001327
## 779         1        2   0.7076897670
## 799         1        2   0.7076897670
## 892         1        2   0.7076871140
## 915         1        2   0.7076845572
## 6810        1        2   0.7076845065
## 807         1        2   0.7076597722
## 1336        1        2   0.7076563492
## 861         1        2   0.7076538020
## 1081        1        2   0.7076492127
## 1607        1        2   0.7076451396
## 778         1        2   0.7076064760
## 6900        1        2   0.7075976952
## 783         1        2   0.7075959019
## 2512        1        2   0.7075934699
## 780         1        2   0.7075830559
## 6948        1        2   0.7075821329
## 808         1        2   0.7075815265
## 6724        1        2   0.7075745710
## 1219        1        2   0.7075669670
## 6737        1        2   0.7075640576
## 6447        1        2   0.7075552414
## 17495       1        2   0.7074427515
## 1164        1        2   0.7074312345
## 1163        1        2   0.7074241904
## 6365        1        2   0.7074225004
## 6858        1        2   0.7074095809
## 1340        1        2   0.7073743272
## 9020        1        2   0.7073570341
## 805         1        2   0.7073554363
## 6366        1        2   0.7073535257
## 6271        1        2   0.7073406803
## 803         1        2   0.7073290739
## 6864        1        2   0.7073131637
## 831         1        2   0.7072790678
## 6890        1        2   0.7072746230
## 6455        1        2   0.7072679791
## 6839        1        2   0.7072529698
## 846         1        2   0.7072489877
## 14507       1        2   0.7072356119
## 870         1        2   0.7072216597
## 782         1        2   0.7072138828
## 6564        1        2   0.7071972834
## 6423        1        2   0.7071807714
## 804         1        2   0.7071751794
## 761         1        2   0.7071538385
```

```
## 760           1       2   0.7071305980
## 2941          1       2   0.7070306598
## 844           1       2   0.7070191833
## 826           1       2   0.7070185019
## 810           1       2   0.7070031506
## 17494         1       2   0.7070002446
## 1385          1       2   0.7069910488
## 781           1       2   0.7069669439
## 14509         1       2   0.7069295849
## 6410          1       2   0.7069251883
## 14510         1       2   0.7069108920
## 912           1       2   0.7068814539
## 887           1       2   0.7068634990
## 1099          1       2   0.7068594795
## 6680          1       2   0.7068554624
## 6889          1       2   0.7068374698
## 6860          1       2   0.7068133924
## 836           1       2   0.7068038765
## 6866          1       2   0.7067948050
## 6417          1       2   0.7067664663
## 6374          1       2   0.7066869725
## 883           1       2   0.7066618180
## 867           1       2   0.7065789113
## 841           1       2   0.7065767026
## 827           1       2   0.7065564436
## 868           1       2   0.7065525878
## 6456          1       2   0.7064774068
## 6563          1       2   0.7064329181
## 6868          1       2   0.7064091743
## 6433          1       2   0.7063901822
## 17357         1       2   0.7063726346
## 6623          1       2   0.7063403115
## 6811          1       2   0.7063248300
## 840           1       2   0.7063197062
## 853           1       2   0.7062957372
## 747           1       2   0.7062258003
## 879           1       2   0.7062142254
## 1217          1       2   0.7061967225
## 6354          1       2   0.7061806277
## 758           1       2   0.7061749821
## 6361          1       2   0.7061694022
## 17107         1       2   0.7061681405
## 6854          1       2   0.7061513660
## 1161          1       2   0.7061394998
## 7565          1       2   0.7061376380
## 6728          1       2   0.7061302469
## 6565          1       2   0.7061257041
## 7108          1       2   0.7061042584
## 738           1       2   0.7060689931
## 746           1       2   0.7060485475
## 854           1       2   0.7060329792
## 944           1       2   0.7060283665
## 4340          1       2   0.7060260197
## 813           1       2   0.7060258877
```

```
## 6325        1        2   0.7060103883
## 785         1        2   0.7060082114
## 6619        1        2   0.7059978510
## 1011        1        2   0.7059901288
## 968         1        2   0.7059789866
## 739         1        2   0.7059781798
## 748         1        2   0.7059214554
## 1008        1        2   0.7059011593
## 1114        1        2   0.7058739849
## 973         1        2   0.7058685260
## 6953        1        2   0.7058601438
## 911         1        2   0.7058588535
## 830         1        2   0.7058584823
## 762         1        2   0.7058484627
## 977         1        2   0.7058480293
## 818         1        2   0.7058179558
## 6569        1        2   0.7058057775
## 6582        1        2   0.7057856467
## 3666        1        2   0.7057789939
## 6962        1        2   0.7057764440
## 6963        1        2   0.7057314449
## 6479        1        2   0.7056758720
## 6803        1        2   0.7056427889
## 8190        1        2   0.7056406129
## 6453        1        2   0.7056006840
## 935         1        2   0.7055460877
## 6459        1        2   0.7055432122
## 6706        1        2   0.7055392055
## 6707        1        2   0.7055273089
## 1070        1        2   0.7054921031
## 790         1        2   0.7054448882
## 1009        1        2   0.7054441162
## 6672        1        2   0.7053786004
## 895         1        2   0.7053738842
## 812         1        2   0.7053621216
## 1165        1        2   0.7052641457
## 936         1        2   0.7052518711
## 828         1        2   0.7052476130
## 6422        1        2   0.7051895371
## 6349        1        2   0.7051803731
## 716         1        2   0.7051726036
## 6679        1        2   0.7051576147
## 6576        1        2   0.7051485852
## 6412        1        2   0.7051414133
## 3269        1        2   0.7051128429
## 7257        1        2   0.7050470776
## 6965        1        2   0.7050179906
## 6458        1        2   0.7049859168
## 6772        1        2   0.7049826075
## 714         1        2   0.7049729891
## 9021        1        2   0.7049527006
## 7434        1        2   0.7049510977
## 1060        1        2   0.7049497279
## 18212       1        2   0.7049379243
```

```
## 6381          1          2    0.7049256681
## 1724          1          2    0.7049221517
## 689           1          2    0.7049184350
## 6562          1          2    0.7049159404
## 6809          1          2    0.7049126497
## 6636          1          2    0.7048937319
## 1162          1          2    0.7048426291
## 740           1          2    0.7048291233
## 1384          1          2    0.7048224973
## 1158          1          2    0.7047999736
## 684           1          2    0.7047984163
## 680           1          2    0.7047964765
## 816           1          2    0.7047577015
## 4602          1          2    0.7047531774
## 1135          1          2    0.7047498851
## 2308          1          2    0.7047315368
## 6457          1          2    0.7047031976
## 632           1          2    0.7047001306
## 730           1          2    0.7046894428
## 833           1          2    0.7046569549
## 728           1          2    0.7046373150
## 14511         1          2    0.7046311724
## 823           1          2    0.7046013986
## 6831          1          2    0.7045959432
## 8878          1          2    0.7045487760
## 6047          1          2    0.7045310767
## 630           1          2    0.7044930978
## 1218          1          2    0.7044730468
## 741           1          2    0.7044648560
## 759           1          2    0.7044648560
## 1160          1          2    0.7044579960
## 787           1          2    0.7044521267
## 806           1          2    0.7044463348
## 6413          1          2    0.7044391515
## 802           1          2    0.7044346629
## 1086          1          2    0.7044334928
## 6406          1          2    0.7044319952
## 6622          1          2    0.7044247560
## 6411          1          2    0.7043805186
## 6961          1          2    0.7043608394
## 1087          1          2    0.7043253785
## 713           1          2    0.7042826471
## 6373          1          2    0.7042771841
## 733           1          2    0.7042440071
## 6872          1          2    0.7042268901
## 7403          1          2    0.7041919951
## 1059          1          2    0.7041885145
## 742           1          2    0.7041866306
## 1067          1          2    0.7041345393
## 677           1          2    0.7041221186
## 6445          1          2    0.7040727207
## 7361          1          2    0.7040700186
## 9019          1          2    0.7040384677
## 6362          1          2    0.7040231647
```

```
## 683          1      2   0.7040165243
## 743          1      2   0.7040062419
## 6869         1      2   0.7039939247
## 885          1      2   0.7039820560
## 7110         1      2   0.7039479756
## 6723         1      2   0.7038895347
## 1083         1      2   0.7038606105
## 772          1      2   0.7038335893
## 1141         1      2   0.7038255512
## 1142         1      2   0.7038255512
## 6947         1      2   0.7037838751
## 6867         1      2   0.7037760270
## 1723         1      2   0.7037632974
## 6949         1      2   0.7037598578
## 710          1      2   0.7037577211
## 786          1      2   0.7037469963
## 909          1      2   0.7037302011
## 681          1      2   0.7037274653
## 6461         1      2   0.7036739634
## 6757         1      2   0.7035737534
## 737          1      2   0.7035698364
## 784          1      2   0.7035441157
## 3268         1      2   0.7035431481
## 6418         1      2   0.7035337198
## 6987         1      2   0.7035138360
## 7134         1      2   0.7034547156
## 6676         1      2   0.7034323713
## 771          1      2   0.7034223768
## 711          1      2   0.7034218530
## 8238         1      2   0.7033986154
## 1085         1      2   0.7033596485
## 656          1      2   0.7033577700
## 9024         1      2   0.7033562892
## 622          1      2   0.7033382517
## 6833         1      2   0.7033367903
## 6490         1      2   0.7033360574
## 603          1      2   0.7033288228
## 617          1      2   0.7033140066
## 6750         1      2   0.7033013522
## 1029         1      2   0.7032853263
## 9025         1      2   0.7032828515
## 6668         1      2   0.7032575081
## 1088         1      2   0.7032369331
## 6340         1      2   0.7031976883
## 1159         1      2   0.7031956476
## 4601         1      2   0.7031885905
## 6862         1      2   0.7031862520
## 6871         1      2   0.7031820037
## 773          1      2   0.7031794454
## 623          1      2   0.7031736380
## 6853         1      2   0.7031437503
## 6639         1      2   0.7030843433
## 708          1      2   0.7030619400
## 745          1      2   0.7030445348
```

```
## 7436           1           2    0.7030425232
## 6674           1           2    0.7030362022
## 6462           1           2    0.7030301336
## 6709           1           2    0.7030269268
## 815            1           2    0.7030248546
## 749            1           2    0.7030246015
## 736            1           2    0.7030221823
## 6482           1           2    0.7030215542
## 685            1           2    0.7030099640
## 732            1           2    0.7030084578
## 744            1           2    0.7029972242
## 7362           1           2    0.7029826113
## 6901           1           2    0.7029602853
## 6620           1           2    0.7029456274
## 17356          1           2    0.7029393498
## 6663           1           2    0.7029057461
## 8191           1           2    0.7029034148
## 7255           1           2    0.7028986867
## 625            1           2    0.7028910702
## 6364           1           2    0.7028878014
## 6673           1           2    0.7028749935
## 6454           1           2    0.7028667699
## 706            1           2    0.7028572462
## 7435           1           2    0.7028418457
## 6288           1           2    0.7028135770
## 619            1           2    0.7028133489
## 14290          1           2    0.7028129265
## 982            1           2    0.7027891585
## 788            1           2    0.7027091204
## 6621           1           2    0.7026954067
## 6492           1           2    0.7026722781
## 767            1           2    0.7026642645
## 620            1           2    0.7026602847
## 6429           1           2    0.7026331845
## 6407           1           2    0.7026235124
## 908            1           2    0.7026235096
## 707            1           2    0.7026171496
## 709            1           2    0.7026095022
## 6996           1           2    0.7026065898
## 1722           1           2    0.7025790902
## 1028           1           2    0.7025679775
## 631            1           2    0.7025654402
## 907            1           2    0.7025587202
## 777            1           2    0.7024520779
## 653            1           2    0.7023936074
## 723            1           2    0.7023626492
## 943            1           2    0.7023590313
## 697            1           2    0.7023393848
## 621            1           2    0.7023066188
## 910            1           2    0.7023059070
## 822            1           2    0.7022874089
## 7390           1           2    0.7022757728
## 17493          1           2    0.7022671259
## 7571           1           2    0.7022651751
```

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## 6749        1        2   0.7022410558
## 9026        1        2   0.7022396065
## 6708        1        2   0.7022282338
## 6472        1        2   0.7021935576
## 7428        1        2   0.7021438187
## 17251       1        2   0.7021342715
## 817         1        2   0.7021190805
## 605         1        2   0.7021049659
## 8189        1        2   0.7020943395
## 809         1        2   0.7020023533
## 835         1        2   0.7019875075
## 17074       1        2   0.7019513556
## 6568        1        2   0.7019494935
## 624         1        2   0.7019473699
## 789         1        2   0.7019104912
## 1080        1        2   0.7018912784
## 602         1        2   0.7018790141
## 972         1        2   0.7018745407
## 6832        1        2   0.7018668482
## 6681        1        2   0.7018587177
## 1196        1        2   0.7018286084
## 586         1        2   0.7018270615
## 612         1        2   0.7018255082
## 610         1        2   0.7018032625
## 611         1        2   0.7017967671
## 582         1        2   0.7017825884
## 571         1        2   0.7017710058
## 971         1        2   0.7017588274
## 1721        1        2   0.7017234865
## 3791        1        2   0.7017195861
## 1331        1        2   0.7017178890
## 878         1        2   0.7016967088
## 3201        1        2   0.7016890778
## 882         1        2   0.7016745291
## 1022        1        2   0.7016572130
## 704         1        2   0.7015533654
## 731         1        2   0.7015522301
## 735         1        2   0.7015480597
## 607         1        2   0.7015317032
## 6884        1        2   0.7014398685
## 657         1        2   0.7014184718
## 613         1        2   0.7013770048
## 957         1        2   0.7013561807
## 618         1        2   0.7013544450
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## 6677        1        2   0.7013437833
## 627         1        2   0.7013266572
## 629         1        2   0.7012965105
## 9027        1        2   0.7012914563
## 585         1        2   0.7012316151
## 609         1        2   0.7012040982
## 1157        1        2   0.7011754689
## 1156        1        2   0.7011663789
## 970         1        2   0.7011472279
```

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## 719      1      2   0.7011373070
## 7391     1      2   0.7011174216
## 16999    1      2   0.7010908846
## 942      1      2   0.7010840991
## 712      1      2   0.7010815020
## 6603     1      2   0.7010133264
## 8239     1      2   0.7009664150
## 6581     1      2   0.7009396997
## 615      1      2   0.7009311112
## 6432     1      2   0.7009307893
## 703      1      2   0.7009250371
## 696      1      2   0.7009062830
## 6601     1      2   0.7009021816
## 7630     1      2   0.7008973940
## 7260     1      2   0.7008919059
## 791      1      2   0.7008857509
## 721      1      2   0.7008514438
## 7075     1      2   0.7008307351
## 9030     1      2   0.7008065411
## 1139     1      2   0.7007776632
## 17206    1      2   0.7007458521
## 3665     1      2   0.7007455167
## 682      1      2   0.7007372653
## 981      1      2   0.7007322001
## 1058     1      2   0.7007029870
## 7254     1      2   0.7006845056
## 6667     1      2   0.7006641612
## 9032     1      2   0.7006508737
## 6808     1      2   0.7006465831
## 6665     1      2   0.7006414164
## 1012     1      2   0.7006367490
## 8234     1      2   0.7006142996
## 9031     1      2   0.7005993695
## 6478     1      2   0.7005908318
## 9029     1      2   0.7005673016
## 7045     1      2   0.7005250395
## 7120     1      2   0.7005241101
## 6685     1      2   0.7005221852
## 718      1      2   0.7005044657
## 1079     1      2   0.7004843705
## 6830     1      2   0.7004490137
## 6738     1      2   0.7004383814
## 866      1      2   0.7004329350
## 658      1      2   0.7003965405
## 715      1      2   0.7003840014
## 542      1      2   0.7003797524
## 539      1      2   0.7003700410
## 550      1      2   0.7003571828
## 554      1      2   0.7003162895
## 6573     1      2   0.7003159197
## 545      1      2   0.7003063105
## 588      1      2   0.7002920120
## 717      1      2   0.7002849990
## 614      1      2   0.7002740347
```

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## 1332          1        2   0.7002686884
## 958           1        2   0.7002677196
## 16998         1        2   0.7002454009
## 705           1        2   0.7002296078
## 1026          1        2   0.7002193105
## 544           1        2   0.7001006827
## 543           1        2   0.7000608913
## 552           1        2   0.7000579548
## 6493          1        2   0.6999886615
## 6666          1        2   0.6999805086
## 628           1        2   0.6998973696
## 604           1        2   0.6998909107
## 597           1        2   0.6998821151
## 1021          1        2   0.6998690032
## 865           1        2   0.6998483867
## 722           1        2   0.6998479588
## 3792          1        2   0.6998471021
## 670           1        2   0.6998453200
## 6932          1        2   0.6997510540
## 7005          1        2   0.6997510540
## 7169          1        2   0.6997355203
## 6807          1        2   0.6997321584
## 4285          1        2   0.6997305412
## 589           1        2   0.6997238924
## 877           1        2   0.6997221735
## 587           1        2   0.6997114484
## 540           1        2   0.6996989362
## 955           1        2   0.6996599108
## 692           1        2   0.6996584224
## 6773          1        2   0.6995361191
## 770           1        2   0.6995281024
## 678           1        2   0.6995210932
## 655           1        2   0.6995036967
## 6468          1        2   0.6994815783
## 800           1        2   0.6994784959
## 7052          1        2   0.6994741149
## 881           1        2   0.6994691691
## 801           1        2   0.6994429719
## 1090          1        2   0.6994399225
## 1154          1        2   0.6994319335
## 6804          1        2   0.6994256956
## 7681          1        2   0.6994228528
## 563           1        2   0.6994035331
## 7133          1        2   0.6993689131
## 1155          1        2   0.6993596178
## 553           1        2   0.6993549297
## 814           1        2   0.6993203819
## 7046          1        2   0.6993037530
## 583           1        2   0.6992832094
## 956           1        2   0.6992701414
## 720           1        2   0.6992579530
## 734           1        2   0.6991994263
## 6675          1        2   0.6991945276
## 7570          1        2   0.6991905456
```

```
## 6491          1          2    0.6991537899
## 547           1          2    0.6991489923
## 6682          1          2    0.6991427844
## 616           1          2    0.6990024001
## 6488          1          2    0.6989344261
## 6686          1          2    0.6989112430
## 577           1          2    0.6988952340
## 573           1          2    0.6988722645
## 1279          1          2    0.6988484140
## 668           1          2    0.6988346035
## 529           1          2    0.6988327575
## 531           1          2    0.6988274254
## 536           1          2    0.6988059065
## 3477          1          2    0.6988013340
## 798           1          2    0.6987527583
## 606           1          2    0.6987437472
## 6570          1          2    0.6987413134
## 889           1          2    0.6987389788
## 525           1          2    0.6987243975
## 1613          1          2    0.6987187177
## 1714          1          2    0.6987141875
## 533           1          2    0.6987115075
## 572           1          2    0.6987110938
## 880           1          2    0.6986889189
## 551           1          2    0.6986815364
## 3789          1          2    0.6986596116
## 1113          1          2    0.6986340924
## 519           1          2    0.6985972207
## 575           1          2    0.6985927487
## 729           1          2    0.6985359548
## 14866         1          2    0.6985322269
## 7437          1          2    0.6984792776
## 6610          1          2    0.6984740400
## 6967          1          2    0.6984735076
## 649           1          2    0.6984435535
## 601           1          2    0.6984315751
## 6662          1          2    0.6984255354
## 530           1          2    0.6984194506
## 6463          1          2    0.6984172927
## 7287          1          2    0.6984089974
## 8362          1          2    0.6983812489
## 6978          1          2    0.6983794019
## 7680          1          2    0.6983102248
## 6669          1          2    0.6982914474
## 562           1          2    0.6982851905
## 6670          1          2    0.6982701682
## 580           1          2    0.6982454833
## 537           1          2    0.6982447047
## 541           1          2    0.6982445704
## 3790          1          2    0.6982257537
## 1608          1          2    0.6982089814
## 6606          1          2    0.6981829301
## 669           1          2    0.6981817432
## 874           1          2    0.6981642025
```

```
## 534          1          2   0.6981547270
## 1027         1          2   0.6981057309
## 6589         1          2   0.6981008218
## 6588         1          2   0.6980863575
## 7259         1          2   0.6980659270
## 6710         1          2   0.6980421012
## 538          1          2   0.6979421273
## 7566         1          2   0.6979236384
## 1089         1          2   0.6979020385
## 1140         1          2   0.6978745396
## 4503         1          2   0.6978729685
## 578          1          2   0.6978693229
## 626          1          2   0.6978505808
## 548          1          2   0.6978408059
## 679          1          2   0.6978312006
## 6979         1          2   0.6978182355
## 6683         1          2   0.6978161243
## 7394         1          2   0.6978095213
## 686          1          2   0.6978044706
## 6690         1          2   0.6977582066
## 6499         1          2   0.6977000682
## 766          1          2   0.6976637594
## 584          1          2   0.6976563725
## 6470         1          2   0.6976310441
## 535          1          2   0.6975584978
## 6481         1          2   0.6975561869
## 6480         1          2   0.6975519912
## 574          1          2   0.6975481914
## 6752         1          2   0.6975467610
## 532          1          2   0.6975420968
## 581          1          2   0.6975304802
## 14867        1          2   0.6975293176
## 6661         1          2   0.6975282840
## 546          1          2   0.6975013597
## 6713         1          2   0.6974473686
## 6968         1          2   0.6974392534
## 17535        1          2   0.6973920775
## 636          1          2   0.6973635290
## 503          1          2   0.6973479329
## 727          1          2   0.6973060158
## 6460         1          2   0.6972524544
## 7170         1          2   0.6972461124
## 906          1          2   0.6972246999
## 576          1          2   0.6972178020
## 757          1          2   0.6972130632
## 695          1          2   0.6971654889
## 497          1          2   0.6970853899
## 566          1          2   0.6970616802
## 504          1          2   0.6970463891
## 6604         1          2   0.6970382850
## 635          1          2   0.6970348995
## 7429         1          2   0.6970304528
## 9033         1          2   0.6969919052
## 1278         1          2   0.6969512826
```

```
## 500        1       2   0.6969486096
## 570        1       2   0.6969465004
## 663        1       2   0.6968911690
## 6687       1       2   0.6968909175
## 496        1       2   0.6968735718
## 594        1       2   0.6968456419
## 518        1       2   0.6968024623
## 549        1       2   0.6967836246
## 6711       1       2   0.6967424241
## 2619       1       2   0.6967349230
## 494        1       2   0.6967220241
## 14512      1       2   0.6966443480
## 523        1       2   0.6966405422
## 6660       1       2   0.6966243203
## 7171       1       2   0.6966243203
## 7076       1       2   0.6965397513
## 6608       1       2   0.6965065271
## 6969       1       2   0.6964930778
## 6691       1       2   0.6964777852
## 579        1       2   0.6964773587
## 499        1       2   0.6964564823
## 1057       1       2   0.6964440417
## 6464       1       2   0.6964385167
## 528        1       2   0.6964365020
## 508        1       2   0.6963871862
## 564        1       2   0.6961973542
## 505        1       2   0.6961784802
## 6863       1       2   0.6961670209
## 6469       1       2   0.6961614435
## 3901       1       2   0.6961412535
## 6838       1       2   0.6960857586
## 666        1       2   0.6960547273
## 495        1       2   0.6960274939
## 6981       1       2   0.6958781770
## 6640       1       2   0.6958603212
## 16667      1       2   0.6958240201
## 7555       1       2   0.6958131754
## 426        1       2   0.6958106182
## 6615       1       2   0.6958093324
## 1082       1       2   0.6958062598
## 453        1       2   0.6958041519
## 671        1       2   0.6958007972
## 754        1       2   0.6957988999
## 694        1       2   0.6957613885
## 824        1       2   0.6957442954
## 1580       1       2   0.6957197283
## 498        1       2   0.6957192155
## 905        1       2   0.6957147793
## 6829       1       2   0.6957138282
## 427        1       2   0.6957130038
## 484        1       2   0.6957010007
## 6755       1       2   0.6956964536
## 429        1       2   0.6956930422
## 507        1       2   0.6956844657
```

```
## 7054       1       2   0.6956830029
## 665        1       2   0.6956829661
## 6590       1       2   0.6956805530
## 6642       1       2   0.6956676545
## 6614       1       2   0.6956613748
## 6997       1       2   0.6956583257
## 14513      1       2   0.6956446831
## 478        1       2   0.6956318615
## 432        1       2   0.6955992845
## 477        1       2   0.6955635414
## 447        1       2   0.6955569030
## 520        1       2   0.6955535721
## 667        1       2   0.6955479616
## 873        1       2   0.6955348122
## 454        1       2   0.6954495118
## 469        1       2   0.6954322773
## 595        1       2   0.6954231972
## 596        1       2   0.6954116823
## 664        1       2   0.6953099969
## 6641       1       2   0.6953010212
## 6572       1       2   0.6952470146
## 792        1       2   0.6952330882
## 558        1       2   0.6951494677
## 7430       1       2   0.6951106938
## 513        1       2   0.6951052588
## 608        1       2   0.6950499467
## 1153       1       2   0.6950023650
## 598        1       2   0.6949958993
## 2754       1       2   0.6949891556
## 6494       1       2   0.6949834354
## 6571       1       2   0.6949430720
## 7574       1       2   0.6949326615
## 6611       1       2   0.6948998514
## 7258       1       2   0.6948934452
## 660        1       2   0.6948796822
## 3788       1       2   0.6948693207
## 7053       1       2   0.6947442320
## 662        1       2   0.6946780816
## 501        1       2   0.6945939213
## 506        1       2   0.6945683701
## 7047       1       2   0.6944491007
## 637        1       2   0.6944345145
## 6692       1       2   0.6944316513
## 524        1       2   0.6944064060
## 428        1       2   0.6943416074
## 884        1       2   0.6943248477
## 6609       1       2   0.6943167282
## 592        1       2   0.6943079702
## 14869      1       2   0.6943032127
## 464        1       2   0.6943022343
## 420        1       2   0.6942843920
## 1055       1       2   0.6942790853
## 567        1       2   0.6942077573
## 1056       1       2   0.6941842064
```

```
## 461          1          2    0.6941794747
## 472          1          2    0.6941732360
## 591          1          2    0.6940735099
## 6489         1          2    0.6940596653
## 7261         1          2    0.6940529226
## 384          1          2    0.6940177720
## 659          1          2    0.6940094216
## 383          1          2    0.6940019342
## 388          1          2    0.6939959732
## 7377         1          2    0.6939819091
## 425          1          2    0.6939691357
## 7557         1          2    0.6939573743
## 676          1          2    0.6939222170
## 1151         1          2    0.6939013812
## 557          1          2    0.6938816618
## 385          1          2    0.6938524256
## 422          1          2    0.6938358902
## 452          1          2    0.6938218076
## 475          1          2    0.6938173054
## 6754         1          2    0.6938062670
## 6495         1          2    0.6937453461
## 590          1          2    0.6936910071
## 1276         1          2    0.6936788651
## 752          1          2    0.6936708636
## 7121         1          2    0.6936203474
## 6891         1          2    0.6936110254
## 14865        1          2    0.6935617010
## 16666        1          2    0.6935497853
## 6734         1          2    0.6935270029
## 6894         1          2    0.6935245869
## 512          1          2    0.6935114217
## 7365         1          2    0.6934642769
## 474          1          2    0.6934393520
## 674          1          2    0.6934321908
## 7438         1          2    0.6934006686
## 6574         1          2    0.6933955133
## 672          1          2    0.6933658198
## 673          1          2    0.6933657200
## 6998         1          2    0.6933650467
## 386          1          2    0.6933539816
## 419          1          2    0.6933491406
## 479          1          2    0.6933468767
## 430          1          2    0.6933461630
## 6977         1          2    0.6933185486
## 424          1          2    0.6933142764
## 14864        1          2    0.6933091942
## 7237         1          2    0.6933081901
## 393          1          2    0.6933021666
## 6607         1          2    0.6932672448
## 18159        1          2    0.6932194969
## 7048         1          2    0.6932182837
## 12713        1          2    0.6931650464
## 6971         1          2    0.6931601946
## 7556         1          2    0.6931515261
```

```
## 1581        1        2   0.6931263641
## 1152        1        2   0.6931179129
## 431         1        2   0.6931162555
## 593         1        2   0.6931091008
## 7079        1        2   0.6931029168
## 7080        1        2   0.6931010694
## 6806        1        2   0.6930502227
## 395         1        2   0.6930399912
## 391         1        2   0.6930132330
## 16668       1        2   0.6929735842
## 3900        1        2   0.6929090688
## 755         1        2   0.6928951488
## 691         1        2   0.6928307264
## 7626        1        2   0.6928192034
## 7063        1        2   0.6927460583
## 560         1        2   0.6927431983
## 7238        1        2   0.6927281819
## 390         1        2   0.6927079588
## 421         1        2   0.6926953734
## 1199        1        2   0.6926795627
## 392         1        2   0.6926602544
## 423         1        2   0.6926569883
## 306         1        2   0.6926469296
## 6805        1        2   0.6926203800
## 661         1        2   0.6926179616
## 309         1        2   0.6925783777
## 6739        1        2   0.6925284666
## 6931        1        2   0.6925073649
## 6598        1        2   0.6925064159
## 446         1        2   0.6924999950
## 1548        1        2   0.6924897259
## 751         1        2   0.6924856521
## 693         1        2   0.6924788807
## 750         1        2   0.6924783435
## 775         1        2   0.6924695394
## 6893        1        2   0.6924682605
## 373         1        2   0.6924672515
## 3118        1        2   0.6924518470
## 6702        1        2   0.6924217101
## 448         1        2   0.6924181270
## 6733        1        2   0.6923647206
## 556         1        2   0.6923338275
## 3001        1        2   0.6923329618
## 966         1        2   0.6922973953
## 473         1        2   0.6922938540
## 312         1        2   0.6922895116
## 462         1        2   0.6922858337
## 470         1        2   0.6920411071
## 688         1        2   0.6919298728
## 1007        1        2   0.6918788268
## 6937        1        2   0.6918718954
## 1054        1        2   0.6918532471
## 1277        1        2   0.6918479507
## 8495        1        2   0.6918044893
```

```
## 6970          1          2    0.6917952785
## 6602          1          2    0.6916395722
## 376           1          2    0.6916289515
## 6616          1          2    0.6916156791
## 314           1          2    0.6916118922
## 417           1          2    0.6916025300
## 6671          1          2    0.6915959719
## 406           1          2    0.6915856725
## 463           1          2    0.6915844014
## 6664          1          2    0.6915625841
## 3471          1          2    0.6915476328
## 311           1          2    0.6914967316
## 313           1          2    0.6914862137
## 502           1          2    0.6914571319
## 8363          1          2    0.6914426655
## 6605          1          2    0.6914232479
## 471           1          2    0.6914091158
## 387           1          2    0.6913867073
## 6704          1          2    0.6913746619
## 7051          1          2    0.6913643109
## 7150          1          2    0.6913461650
## 6951          1          2    0.6913356346
## 6976          1          2    0.6913067232
## 6788          1          2    0.6912703021
## 6775          1          2    0.6912558048
## 476           1          2    0.6912520222
## 6974          1          2    0.6912492989
## 328           1          2    0.6912272422
## 301           1          2    0.6912243068
## 765           1          2    0.6912115659
## 481           1          2    0.6911807400
## 3470          1          2    0.6911777974
## 819           1          2    0.6911558617
## 418           1          2    0.6911538263
## 329           1          2    0.6911413068
## 555           1          2    0.6911387053
## 408           1          2    0.6911291500
## 296           1          2    0.6911114436
## 1053          1          2    0.6911020068
## 327           1          2    0.6910706105
## 1051          1          2    0.6910643360
## 303           1          2    0.6910628637
## 1052          1          2    0.6910537154
## 375           1          2    0.6910203301
## 305           1          2    0.6910021050
## 409           1          2    0.6909851076
## 872           1          2    0.6909487972
## 7029          1          2    0.6909468501
## 445           1          2    0.6909413067
## 300           1          2    0.6909374448
## 6703          1          2    0.6909308022
## 304           1          2    0.6909299420
## 7033          1          2    0.6908526197
## 7629          1          2    0.6908249270
```

```
## 7100          1          2    0.6908248677
## 6705          1          2    0.6908177787
## 363           1          2    0.6908014584
## 820           1          2    0.6907959928
## 6813          1          2    0.6907920622
## 7723          1          2    0.6907732770
## 308           1          2    0.6907591968
## 7031          1          2    0.6907564707
## 8429          1          2    0.6907514528
## 6935          1          2    0.6907448315
## 6748          1          2    0.6907405168
## 6684          1          2    0.6907190793
## 6984          1          2    0.6907068396
## 6950          1          2    0.6906643415
## 7025          1          2    0.6906636499
## 6727          1          2    0.6906402141
## 1025          1          2    0.6906218550
## 389           1          2    0.6906050896
## 6895          1          2    0.6905329104
## 480           1          2    0.6905311253
## 298           1          2    0.6905277088
## 7805          1          2    0.6904908056
## 7378          1          2    0.6904610676
## 6985          1          2    0.6904553499
## 6597          1          2    0.6904443064
## 6801          1          2    0.6904303158
## 7119          1          2    0.6904243011
## 6812          1          2    0.6904045248
## 407           1          2    0.6903582891
## 444           1          2    0.6903459405
## 1198          1          2    0.6903432522
## 398           1          2    0.6903110106
## 639           1          2    0.6902884228
## 768           1          2    0.6902632672
## 7035          1          2    0.6902222983
## 7032          1          2    0.6902119001
## 6751          1          2    0.6901666307
## 774           1          2    0.6900802736
## 8879          1          2    0.6900734959
## 7062          1          2    0.6900347703
## 675           1          2    0.6900173360
## 3117          1          2    0.6900071413
## 442           1          2    0.6899423282
## 6575          1          2    0.6899297890
## 6936          1          2    0.6898771057
## 2780          1          2    0.6897616044
## 302           1          2    0.6897523881
## 17536         1          2    0.6897368134
## 1386          1          2    0.6896643562
## 307           1          2    0.6896324915
## 440           1          2    0.6896276370
## 348           1          2    0.6896209659
## 455           1          2    0.6896162428
## 292           1          2    0.6896093810
```

```
## 441          1          2    0.6896092158
## 416          1          2    0.6896081872
## 903          1          2    0.6896034251
## 291          1          2    0.6895996055
## 293          1          2    0.6895497982
## 2413         1          2    0.6895425572
## 340          1          2    0.6895410300
## 904          1          2    0.6895114950
## 769          1          2    0.6893982710
## 295          1          2    0.6893810459
## 700          1          2    0.6893751629
## 299          1          2    0.6893734936
## 290          1          2    0.6893662321
## 412          1          2    0.6893662321
## 362          1          2    0.6893528378
## 834          1          2    0.6893454046
## 9748         1          2    0.6893044910
## 397          1          2    0.6892619395
## 372          1          2    0.6892395191
## 6747         1          2    0.6892277838
## 359          1          2    0.6891994484
## 967          1          2    0.6891077004
## 7409         1          2    0.6890973014
## 343          1          2    0.6890542926
## 297          1          2    0.6890341738
## 6769         1          2    0.6889292198
## 14868        1          2    0.6889232396
## 6980         1          2    0.6888483582
## 9819         1          2    0.6888234860
## 294          1          2    0.6888047491
## 6899         1          2    0.6888012972
## 8430         1          2    0.6887922076
## 6802         1          2    0.6887597565
## 8431         1          2    0.6887346827
## 763          1          2    0.6887127336
## 7246         1          2    0.6886595248
## 7627         1          2    0.6886314790
## 482          1          2    0.6885844836
## 483          1          2    0.6885706506
## 367          1          2    0.6885458041
## 341          1          2    0.6884193782
## 527          1          2    0.6883981862
## 1006         1          2    0.6883838682
## 6972         1          2    0.6883229422
## 347          1          2    0.6882599839
## 6784         1          2    0.6882596503
## 361          1          2    0.6882462062
## 6787         1          2    0.6882247322
## 16145        1          2    0.6882139964
## 6776         1          2    0.6881893375
## 6793         1          2    0.6881883488
## 2779         1          2    0.6881124934
## 1711         1          2    0.6881056897
## 6782         1          2    0.6881016912
```

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## 346           1       2   0.6880997722
## 410           1       2   0.6880890899
## 8498          1       2   0.6880828450
## 357           1       2   0.6880557373
## 7223          1       2   0.6880553769
## 257           1       2   0.6880462864
## 337           1       2   0.6880451719
## 270           1       2   0.6880449470
## 258           1       2   0.6880440064
## 7631          1       2   0.6880281801
## 285           1       2   0.6880194955
## 253           1       2   0.6880118138
## 7392          1       2   0.6879973921
## 486           1       2   0.6879953438
## 7439          1       2   0.6879683431
## 932           1       2   0.6879114087
## 3465          1       2   0.6879003410
## 1024          1       2   0.6878975955
## 374           1       2   0.6878775408
## 255           1       2   0.6878514614
## 6617          1       2   0.6878320868
## 256           1       2   0.6877886063
## 6783          1       2   0.6877719275
## 411           1       2   0.6877372883
## 9506          1       2   0.6876869370
## 274           1       2   0.6876826784
## 3989          1       2   0.6876825887
## 277           1       2   0.6876413385
## 7039          1       2   0.6876252338
## 764           1       2   0.6876164680
## 380           1       2   0.6876093621
## 7309          1       2   0.6875952990
## 7023          1       2   0.6875754034
## 6982          1       2   0.6875672763
## 261           1       2   0.6875630107
## 6643          1       2   0.6875590633
## 7151          1       2   0.6875122716
## 360           1       2   0.6874859783
## 2778          1       2   0.6874763205
## 7008          1       2   0.6874746541
## 6778          1       2   0.6874618344
## 7041          1       2   0.6874378568
## 278           1       2   0.6874308333
## 7256          1       2   0.6873965974
## 370           1       2   0.6873859026
## 7724          1       2   0.6872978111
## 344           1       2   0.6872963518
## 394           1       2   0.6872154078
## 6973          1       2   0.6871571384
## 259           1       2   0.6871430331
## 339           1       2   0.6871345997
## 8496          1       2   0.6870910674
## 776           1       2   0.6870788255
## 7674          1       2   0.6870518440
```

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## 702          1          2    0.6870490534
## 934          1          2    0.6868619138
## 350          1          2    0.6868548702
## 1049         1          2    0.6868536896
## 405          1          2    0.6868337245
## 701          1          2    0.6868252971
## 6789         1          2    0.6866999344
## 7037         1          2    0.6866931598
## 254          1          2    0.6866897430
## 6816         1          2    0.6866872824
## 6786         1          2    0.6866798145
## 6892         1          2    0.6866581776
## 6986         1          2    0.6865961620
## 687          1          2    0.6865288193
## 465          1          2    0.6865196855
## 640          1          2    0.6864910926
## 7077         1          2    0.6864868395
## 232          1          2    0.6864722363
## 6745         1          2    0.6864670804
## 600          1          2    0.6864656419
## 288          1          2    0.6864434539
## 6599         1          2    0.6864431927
## 318          1          2    0.6864416377
## 434          1          2    0.6864385509
## 6828         1          2    0.6864361070
## 6743         1          2    0.6864277241
## 3467         1          2    0.6864258307
## 7143         1          2    0.6864087371
## 3469         1          2    0.6864018509
## 6800         1          2    0.6863995297
## 349          1          2    0.6863903307
## 6933         1          2    0.6863767200
## 1023         1          2    0.6863563686
## 6618         1          2    0.6863471730
## 6712         1          2    0.6863463498
## 933          1          2    0.6863420675
## 271          1          2    0.6863351427
## 382          1          2    0.6863333063
## 468          1          2    0.6862492723
## 272          1          2    0.6861857573
## 1591         1          2    0.6861538852
## 698          1          2    0.6861462805
## 230          1          2    0.6861130640
## 345          1          2    0.6861029979
## 7043         1          2    0.6860952872
## 316          1          2    0.6860361634
## 234          1          2    0.6860273649
## 287          1          2    0.6859994244
## 276          1          2    0.6859762042
## 654          1          2    0.6859655150
## 485          1          2    0.6859645428
## 9034         1          2    0.6859523783
## 3464         1          2    0.6859523488
## 317          1          2    0.6859399816
```

```
## 379         1      2   0.6859259879
## 638         1      2   0.6858466172
## 3468        1      2   0.6858239203
## 240         1      2   0.6858148515
## 2422        1      2   0.6858066354
## 753         1      2   0.6857697580
## 414         1      2   0.6857681092
## 381         1      2   0.6857578984
## 404         1      2   0.6857575255
## 9589        1      2   0.6857451386
## 6744        1      2   0.6857410268
## 2309        1      2   0.6857387879
## 231         1      2   0.6856974699
## 7142        1      2   0.6856959941
## 931         1      2   0.6856659836
## 526         1      2   0.6856233561
## 1050        1      2   0.6855930781
## 450         1      2   0.6855909170
## 7006        1      2   0.6855843776
## 7104        1      2   0.6855738531
## 901         1      2   0.6855563742
## 1351        1      2   0.6855163761
## 371         1      2   0.6855120283
## 14870       1      2   0.6855072121
## 260         1      2   0.6854954347
## 6779        1      2   0.6854695266
## 6896        1      2   0.6854599268
## 17760       1      2   0.6854595023
## 6612        1      2   0.6854489160
## 228         1      2   0.6854356734
## 403         1      2   0.6854259420
## 7154        1      2   0.6853802185
## 7015        1      2   0.6853613875
## 338         1      2   0.6853074763
## 3466        1      2   0.6852981308
## 6822        1      2   0.6852662868
## 7512        1      2   0.6851655056
## 10060       1      2   0.6851449611
## 902         1      2   0.6850750893
## 275         1      2   0.6850690981
## 7090        1      2   0.6850314452
## 358         1      2   0.6849839753
## 252         1      2   0.6849628101
## 9028        1      2   0.6849539439
## 378         1      2   0.6849451252
## 226         1      2   0.6848722101
## 561         1      2   0.6848661680
## 177         1      2   0.6848528115
## 2425        1      2   0.6848473775
## 326         1      2   0.6848462402
## 212         1      2   0.6848368846
## 488         1      2   0.6848294420
## 194         1      2   0.6848280691
## 145         1      2   0.6848170386
```

```
## 929        1      2   0.6848157477
## 324        1      2   0.6848100385
## 211        1      2   0.6848023580
## 7044       1      2   0.6847936693
## 7040       1      2   0.6847897693
## 1713       1      2   0.6847897599
## 6983       1      2   0.6847841604
## 6821       1      2   0.6847814792
## 251        1      2   0.6847796169
## 7036       1      2   0.6847785483
## 7225       1      2   0.6847769840
## 229        1      2   0.6847631066
## 250        1      2   0.6847591638
## 210        1      2   0.6847523121
## 1590       1      2   0.6847485060
## 204        1      2   0.6847244871
## 269        1      2   0.6847131478
## 7276       1      2   0.6847112577
## 354        1      2   0.6846570584
## 233        1      2   0.6846105448
## 699        1      2   0.6846054373
## 206        1      2   0.6846034373
## 930        1      2   0.6845991332
## 7034       1      2   0.6845984202
## 2420       1      2   0.6845896394
## 490        1      2   0.6845792841
## 756        1      2   0.6845682826
## 634        1      2   0.6845022175
## 7013       1      2   0.6844618689
## 7132       1      2   0.6843882952
## 310        1      2   0.6843159625
## 413        1      2   0.6842930090
## 213        1      2   0.6842304618
## 457        1      2   0.6842229235
## 6613       1      2   0.6841329918
## 3463       1      2   0.6841160780
## 174        1      2   0.6840857608
## 458        1      2   0.6840656144
## 7091       1      2   0.6840426802
## 7011       1      2   0.6840222791
## 273        1      2   0.6840171570
## 208        1      2   0.6840011515
## 199        1      2   0.6839941527
## 650        1      2   0.6839589264
## 7224       1      2   0.6839467942
## 2318       1      2   0.6838424146
## 6934       1      2   0.6838409804
## 280        1      2   0.6838032431
## 17640      1      2   0.6837595378
## 7236       1      2   0.6837127691
## 325        1      2   0.6837060983
## 268        1      2   0.6836872232
## 633        1      2   0.6835533912
## 202        1      2   0.6835260347
```

```
## 6735        1        2   0.6835236840
## 342         1        2   0.6834958868
## 415         1        2   0.6834953489
## 14871       1        2   0.6834931428
## 451         1        2   0.6834715937
## 6905        1        2   0.6834097759
## 928         1        2   0.6834019106
## 172         1        2   0.6833993233
## 1143        1        2   0.6833942821
## 651         1        2   0.6833834614
## 200         1        2   0.6833612563
## 9036        1        2   0.6832834761
## 3462        1        2   0.6832710628
## 171         1        2   0.6832496041
## 248         1        2   0.6832161965
## 646         1        2   0.6832128462
## 926         1        2   0.6832100860
## 396         1        2   0.6832081822
## 249         1        2   0.6832056350
## 266         1        2   0.6831988823
## 647         1        2   0.6831956400
## 141         1        2   0.6831951683
## 489         1        2   0.6831711690
## 510         1        2   0.6831581712
## 140         1        2   0.6831242367
## 170         1        2   0.6830633618
## 224         1        2   0.6829608184
## 7038        1        2   0.6828491107
## 173         1        2   0.6828478644
## 648         1        2   0.6828463542
## 487         1        2   0.6828444556
## 565         1        2   0.6828400230
## 176         1        2   0.6828381543
## 876         1        2   0.6828308777
## 351         1        2   0.6828217514
## 559         1        2   0.6828032537
## 289         1        2   0.6827950620
## 6919        1        2   0.6827464729
## 244         1        2   0.6827327790
## 264         1        2   0.6827247293
## 8432        1        2   0.6827233249
## 6915        1        2   0.6827211177
## 6742        1        2   0.6827091474
## 6918        1        2   0.6827076960
## 460         1        2   0.6826582926
## 7708        1        2   0.6826423220
## 492         1        2   0.6826410913
## 169         1        2   0.6826337672
## 366         1        2   0.6826226595
## 7118        1        2   0.6826190999
## 142         1        2   0.6826081702
## 14874       1        2   0.6826059393
## 7677        1        2   0.6825868394
## 7088        1        2   0.6825513822
```

```
## 6825        1        2   0.6825167315
## 927         1        2   0.6824708883
## 1038        1        2   0.6824566569
## 201         1        2   0.6824434253
## 267         1        2   0.6824276207
## 6774        1        2   0.6824208288
## 7007        1        2   0.6824104498
## 129         1        2   0.6823863905
## 119         1        2   0.6823606246
## 7341        1        2   0.6823374604
## 7095        1        2   0.6823230979
## 6914        1        2   0.6823071475
## 6906        1        2   0.6822869650
## 198         1        2   0.6822569530
## 175         1        2   0.6822154342
## 11654       1        2   0.6821304097
## 7673        1        2   0.6821214838
## 160         1        2   0.6821095949
## 139         1        2   0.6820887234
## 7012        1        2   0.6820856447
## 7573        1        2   0.6820200529
## 2421        1        2   0.6819859543
## 167         1        2   0.6819856739
## 2426        1        2   0.6819790733
## 1712        1        2   0.6819680847
## 7226        1        2   0.6819598021
## 2076        1        2   0.6819583571
## 164         1        2   0.6819576533
## 2172        1        2   0.6819125221
## 7092        1        2   0.6818945606
## 352         1        2   0.6818260642
## 9139        1        2   0.6818070325
## 7149        1        2   0.6816932993
## 7024        1        2   0.6816437727
## 7227        1        2   0.6816430713
## 163         1        2   0.6816420925
## 168         1        2   0.6816418625
## 61          1        2   0.6816330761
## 130         1        2   0.6816242145
## 197         1        2   0.6816240622
## 136         1        2   0.6816192576
## 162         1        2   0.6816151111
## 959         1        2   0.6816109957
## 128         1        2   0.6816037226
## 321         1        2   0.6816022215
## 6897        1        2   0.6815931765
## 63          1        2   0.6815510181
## 146         1        2   0.6815420815
## 6746        1        2   0.6815302812
## 1880        1        2   0.6815245473
## 439         1        2   0.6815057086
## 209         1        2   0.6815055238
## 178         1        2   0.6815035586
## 323         1        2   0.6814995104
```

```
## 7101          1          2    0.6814958366
## 203           1          2    0.6814827529
## 217           1          2    0.6814802181
## 369           1          2    0.6814480353
## 8975          1          2    0.6814446981
## 263           1          2    0.6814182443
## 58            1          2    0.6814160194
## 279           1          2    0.6813624205
## 94            1          2    0.6812812235
## 111           1          2    0.6812639825
## 511           1          2    0.6812636134
## 6827          1          2    0.6812618214
## 1036          1          2    0.6812584248
## 7010          1          2    0.6812455117
## 336           1          2    0.6812441132
## 225           1          2    0.6812407447
## 6916          1          2    0.6812110657
## 103           1          2    0.6811942768
## 599           1          2    0.6811524251
## 7146          1          2    0.6811493399
## 7794          1          2    0.6811463462
## 93            1          2    0.6811410881
## 7089          1          2    0.6811261732
## 7676          1          2    0.6811133189
## 7084          1          2    0.6810969680
## 7042          1          2    0.6810886211
## 6824          1          2    0.6810769961
## 9140          1          2    0.6810760905
## 265           1          2    0.6810760315
## 161           1          2    0.6810708799
## 6913          1          2    0.6810695384
## 6823          1          2    0.6810178466
## 144           1          2    0.6809686117
## 925           1          2    0.6809139936
## 7675          1          2    0.6808292222
## 7393          1          2    0.6808217376
## 216           1          2    0.6808170324
## 282           1          2    0.6807800968
## 353           1          2    0.6807404808
## 7228          1          2    0.6806387580
## 7148          1          2    0.6805407070
## 102           1          2    0.6805321740
## 104           1          2    0.6805062641
## 6964          1          2    0.6805031697
## 355           1          2    0.6804594845
## 138           1          2    0.6804336939
## 16131         1          2    0.6803640320
## 335           1          2    0.6803636414
## 438           1          2    0.6803606594
## 221           1          2    0.6803590987
## 7102          1          2    0.6803404052
## 7085          1          2    0.6802958288
## 6600          1          2    0.6802695303
## 131           1          2    0.6802146074
```

```
## 207          1          2    0.6802031339
## 493          1          2    0.6802016099
## 9035         1          2    0.6801847392
## 6818         1          2    0.6801021268
## 59           1          2    0.6800299345
## 491          1          2    0.6800289626
## 509          1          2    0.6800198873
## 83           1          2    0.6800189559
## 109          1          2    0.6800063440
## 459          1          2    0.6799927426
## 331          1          2    0.6799890714
## 437          1          2    0.6799781667
## 165          1          2    0.6799739591
## 7094         1          2    0.6799702848
## 7156         1          2    0.6799658280
## 241          1          2    0.6799609181
## 159          1          2    0.6799489246
## 7918         1          2    0.6799286847
## 219          1          2    0.6798992697
## 924          1          2    0.6798896325
## 690          1          2    0.6798804881
## 47           1          2    0.6798448186
## 7793         1          2    0.6798438991
## 48           1          2    0.6798353112
## 7711         1          2    0.6798060301
## 319          1          2    0.6798054390
## 84           1          2    0.6797735456
## 514          1          2    0.6797735456
## 7000         1          2    0.6797396980
## 7370         1          2    0.6797385383
## 137          1          2    0.6797198265
## 239          1          2    0.6796838547
## 89           1          2    0.6796724312
## 6777         1          2    0.6796687740
## 8434         1          2    0.6796563579
## 645          1          2    0.6795864931
## 332          1          2    0.6795742047
## 7469         1          2    0.6795610896
## 14875        1          2    0.6795531604
## 984          1          2    0.6795078010
## 724          1          2    0.6794966491
## 54           1          2    0.6794760772
## 108          1          2    0.6794753137
## 243          1          2    0.6794718762
## 569          1          2    0.6794701893
## 132          1          2    0.6794627857
## 7371         1          2    0.6794544001
## 91           1          2    0.6794265637
## 135          1          2    0.6793164932
## 281          1          2    0.6793057754
## 189          1          2    0.6793028917
## 284          1          2    0.6792724475
## 725          1          2    0.6792604110
## 8974         1          2    0.6792565804
```

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## 356           1          2   0.6792221992
## 1612          1          2   0.6792106424
## 166           1          2   0.6791872074
## 14873         1          2   0.6791233132
## 7182          1          2   0.6790963401
## 726           1          2   0.6790817369
## 92            1          2   0.6790765786
## 7229          1          2   0.6790668061
## 49            1          2   0.6790525312
## 87            1          2   0.6790406307
## 205           1          2   0.6790348690
## 53            1          2   0.6790268191
## 81            1          2   0.6790222688
## 330           1          2   0.6790132642
## 368           1          2   0.6789366736
## 399           1          2   0.6789084961
## 46            1          2   0.6789040573
## 2120          1          2   0.6788791609
## 1801          1          2   0.6788778553
## 57            1          2   0.6788689105
## 1579          1          2   0.6788628490
## 320           1          2   0.6788521859
## 7795          1          2   0.6788503430
## 7050          1          2   0.6788210443
## 6942          1          2   0.6787819539
## 515           1          2   0.6787777340
## 242           1          2   0.6787707738
## 188           1          2   0.6787429155
## 7919          1          2   0.6787381182
## 60            1          2   0.6786506600
## 100           1          2   0.6786198361
## 449           1          2   0.6786141702
## 88            1          2   0.6786024883
## 6917          1          2   0.6784851278
## 50            1          2   0.6784512866
## 86            1          2   0.6784469494
## 6819          1          2   0.6784187893
## 7086          1          2   0.6784038585
## 95            1          2   0.6784030352
## 7083          1          2   0.6783874837
## 7311          1          2   0.6783612206
## 7014          1          2   0.6783576043
## 642           1          2   0.6783455348
## 8558          1          2   0.6783240851
## 236           1          2   0.6783239244
## 262           1          2   0.6783208543
## 157           1          2   0.6783108610
## 71            1          2   0.6783014264
## 90            1          2   0.6782884667
## 365           1          2   0.6782811245
## 7030          1          2   0.6782615949
## 7796          1          2   0.6782589104
## 39            1          2   0.6782500812
## 192           1          2   0.6782461744
```

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## 7017          1          2   0.6781947115
## 223           1          2   0.6781655963
## 3105          1          2   0.6781319495
## 41            1          2   0.6781062610
## 55            1          2   0.6781039272
## 433           1          2   0.6780976929
## 7103          1          2   0.6780921794
## 238           1          2   0.6780669641
## 516           1          2   0.6780365116
## 237           1          2   0.6779495081
## 220           1          2   0.6779377838
## 101           1          2   0.6779357310
## 222           1          2   0.6779096333
## 112           1          2   0.6778924628
## 51            1          2   0.6778916518
## 364           1          2   0.6778892541
## 235           1          2   0.6778851257
## 40            1          2   0.6778734320
## 38            1          2   0.6778680759
## 7185          1          2   0.6778316968
## 6923          1          2   0.6777839926
## 156           1          2   0.6777816123
## 107           1          2   0.6777673464
## 43            1          2   0.6777634724
## 143           1          2   0.6777632988
## 62            1          2   0.6776850352
## 44            1          2   0.6776664891
## 283           1          2   0.6776650109
## 811           1          2   0.6776573854
## 517           1          2   0.6776488754
## 134           1          2   0.6776461290
## 1800          1          2   0.6776459089
## 921           1          2   0.6776431387
## 79            1          2   0.6775616743
## 923           1          2   0.6775551683
## 6939          1          2   0.6775471604
## 121           1          2   0.6775092145
## 85            1          2   0.6774953412
## 56            1          2   0.6774888566
## 52            1          2   0.6774856302
## 80            1          2   0.6774262577
## 1037          1          2   0.6773961429
## 6938          1          2   0.6773956174
## 12605         1          2   0.6773766386
## 133           1          2   0.6773684589
## 7016          1          2   0.6773263174
## 3106          1          2   0.6773060044
## 218           1          2   0.6773020464
## 42            1          2   0.6772622920
## 6826          1          2   0.6772394323
## 568           1          2   0.6771419916
## 7184          1          2   0.6771147501
## 8661          1          2   0.6770622594
## 7049          1          2   0.6770370177
```

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## 7187         1         2    0.6770167465
## 7055         1         2    0.6769954194
## 456          1         2    0.6769921598
## 17830        1         2    0.6769353508
## 7628         1         2    0.6769210718
## 7791         1         2    0.6768982137
## 6993         1         2    0.6768740255
## 1543         1         2    0.6768539580
## 467          1         2    0.6768404239
## 334          1         2    0.6768390782
## 16130        1         2    0.6768308314
## 333          1         2    0.6768177916
## 110          1         2    0.6768069865
## 6927         1         2    0.6768035204
## 7884         1         2    0.6767727882
## 17           1         2    0.6767436408
## 69           1         2    0.6767193036
## 78           1         2    0.6767151798
## 67           1         2    0.6767069764
## 113          1         2    0.6767049116
## 17829        1         2    0.6766995588
## 65           1         2    0.6766953754
## 153          1         2    0.6766949546
## 16           1         2    0.6766895223
## 187          1         2    0.6766818287
## 25           1         2    0.6766814799
## 182          1         2    0.6766650410
## 2072         1         2    0.6766586681
## 7221         1         2    0.6766336021
## 120          1         2    0.6766047162
## 74           1         2    0.6765893602
## 96           1         2    0.6765858356
## 7106         1         2    0.6765679528
## 322          1         2    0.6765664464
## 794          1         2    0.6765579141
## 797          1         2    0.6765380279
## 18           1         2    0.6765328055
## 33           1         2    0.6765320159
## 7028         1         2    0.6765054639
## 106          1         2    0.6764985263
## 7682         1         2    0.6764385237
## 7183         1         2    0.6763929205
## 21           1         2    0.6763756419
## 7162         1         2    0.6763749403
## 6898         1         2    0.6763390338
## 401          1         2    0.6763357845
## 26           1         2    0.6763176431
## 400          1         2    0.6763151017
## 155          1         2    0.6763116506
## 6852         1         2    0.6763103545
## 3873         1         2    0.6763080682
## 7188         1         2    0.6763040563
## 8235         1         2    0.6762976095
## 124          1         2    0.6762602024
```

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## 7009          1        2    0.6762596949
## 795           1        2    0.6762476758
## 6941          1        2    0.6762446106
## 8497          1        2    0.6762091488
## 70            1        2    0.6761611011
## 19            1        2    0.6761306198
## 158           1        2    0.6761169653
## 82            1        2    0.6761108675
## 152           1        2    0.6761035641
## 77            1        2    0.6760586095
## 20            1        2    0.6760267523
## 9037          1        2    0.6759907668
## 6925          1        2    0.6759699551
## 76            1        2    0.6759464358
## 6943          1        2    0.6759436524
## 24            1        2    0.6759325304
## 123           1        2    0.6759147884
## 215           1        2    0.6759107587
## 126           1        2    0.6759106796
## 6999          1        2    0.6758998215
## 149           1        2    0.6758941654
## 9038          1        2    0.6758919477
## 6975          1        2    0.6758580308
## 6926          1        2    0.6758560164
## 7127          1        2    0.6758057067
## 7913          1        2    0.6757940124
## 796           1        2    0.6757846796
## 922           1        2    0.6757291270
## 8559          1        2    0.6757056611
## 8349          1        2    0.6756606277
## 227           1        2    0.6756505177
## 45            1        2    0.6755956777
## 7087          1        2    0.6755886846
## 36            1        2    0.6755518532
## 23            1        2    0.6755341769
## 7277          1        2    0.6755336459
## 7155          1        2    0.6755281294
## 31            1        2    0.6755268702
## 34            1        2    0.6755152312
## 6928          1        2    0.6754650214
## 7789          1        2    0.6754277505
## 7470          1        2    0.6754183343
## 10243         1        2    0.6753661200
## 793           1        2    0.6750693386
## 28            1        2    0.6750583471
## 118           1        2    0.6750554083
## 22            1        2    0.6750540468
## 522           1        2    0.6750433662
## 644           1        2    0.6750431043
## 148           1        2    0.6750320494
## 191           1        2    0.6750217871
## 66            1        2    0.6750029260
## 122           1        2    0.6749920539
## 7             1        2    0.6749868752
```

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## 99          1       2   0.6749867897
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## 29          1       2   0.6749366491
## 7082        1       2   0.6749260065
## 315         1       2   0.6749190384
## 3104        1       2   0.6749099925
## 32          1       2   0.6748999729
## 72          1       2   0.6748983453
## 64          1       2   0.6748967755
## 6785        1       2   0.6748834201
## 7096        1       2   0.6748756148
## 68          1       2   0.6748589627
## 8315        1       2   0.6748368122
## 184         1       2   0.6748140328
## 196         1       2   0.6748000058
## 4           1       2   0.6747822409
## 185         1       2   0.6747774610
## 147         1       2   0.6747506289
## 7790        1       2   0.6747476669
## 35          1       2   0.6747048462
## 125         1       2   0.6747009486
## 7186        1       2   0.6746778984
## 27          1       2   0.6746777348
## 6921        1       2   0.6746522454
## 190         1       2   0.6746427651
## 179         1       2   0.6745990247
## 117         1       2   0.6745868164
## 436         1       2   0.6745594906
## 2           1       2   0.6744979846
## 6924        1       2   0.6744537800
## 116         1       2   0.6743812028
## 466         1       2   0.6743255814
## 15          1       2   0.6743225478
## 195         1       2   0.6742931883
## 6           1       2   0.6742925066
## 1440        1       2   0.6742903890
## 8604        1       2   0.6742830858
## 2073        1       2   0.6742742384
## 377         1       2   0.6742701243
## 105         1       2   0.6741181101
## 8348        1       2   0.6741043738
## 127         1       2   0.6740871367
## 7065        1       2   0.6740795077
## 5           1       2   0.6740628737
## 14          1       2   0.6740502218
## 1382        1       2   0.6740333116
## 8           1       2   0.6740244726
## 7194        1       2   0.6740108688
## 7397        1       2   0.6740089079
## 7281        1       2   0.6740066058
## 7278        1       2   0.6739169898
## 443         1       2   0.6739158531
## 521         1       2   0.6739111845
## 402         1       2   0.6738945956
```

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## 1398         1        2   0.6738872446
## 7280         1        2   0.6738327502
## 7019         1        2   0.6738324304
## 7193         1        2   0.6738131138
## 7189         1        2   0.6737134306
## 983          1        2   0.6736643473
## 7414         1        2   0.6736454536
## 247          1        2   0.6736069224
## 7911         1        2   0.6735851758
## 6994         1        2   0.6735529006
## 154          1        2   0.6734952226
## 6820         1        2   0.6734853591
## 7222         1        2   0.6734804173
## 3103         1        2   0.6734505763
## 37           1        2   0.6734321757
## 7004         1        2   0.6734006144
## 7241         1        2   0.6733221843
## 30           1        2   0.6731907479
## 9039         1        2   0.6730311944
## 7572         1        2   0.6729978516
## 75           1        2   0.6729954788
## 186          1        2   0.6729454781
## 7396         1        2   0.6729334393
## 7018         1        2   0.6729229559
## 12           1        2   0.6728949319
## 9            1        2   0.6727439402
## 193          1        2   0.6727381834
## 7081         1        2   0.6727351103
## 13           1        2   0.6727321241
## 150          1        2   0.6727068201
## 183          1        2   0.6726971800
## 17761        1        2   0.6726833485
## 6995         1        2   0.6725525153
## 214          1        2   0.6725280330
## 115          1        2   0.6725185864
## 97           1        2   0.6725086120
## 9310         1        2   0.6724825692
## 6922         1        2   0.6724673574
## 7468         1        2   0.6724582176
## 7026         1        2   0.6724538462
## 6940         1        2   0.6724528715
## 7859         1        2   0.6724388354
## 7806         1        2   0.6723711816
## 151          1        2   0.6723606174
## 10           1        2   0.6723308366
## 643          1        2   0.6723293220
## 11           1        2   0.6721080385
## 3            1        2   0.6721043733
## 114          1        2   0.6720669145
## 7282         1        2   0.6719905206
## 7191         1        2   0.6718799569
## 1            1        2   0.6718729648
## 245          1        2   0.6718699912
## 10950        1        2   0.6716497245
```

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## 7190          1          2    0.6716176311
## 6992          1          2    0.6716106445
## 1381          1          2    0.6716061630
## 435           1          2    0.6714131411
## 7401          1          2    0.6713199224
## 7199          1          2    0.6712695354
## 7807          1          2    0.6712137239
## 641           1          2    0.6711614409
## 7283          1          2    0.6710699053
## 7177          1          2    0.6710527740
## 7916          1          2    0.6710339532
## 7197          1          2    0.6709950914
## 7275          1          2    0.6709592802
## 246           1          2    0.6709348618
## 181           1          2    0.6709276167
## 7201          1          2    0.6708530090
## 7072          1          2    0.6708256266
## 7178          1          2    0.6708115525
## 7195          1          2    0.6706719165
## 9311          1          2    0.6706061897
## 7056          1          2    0.6705209942
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## 7402          1          2    0.6704091873
## 7308          1          2    0.6703748483
## 7858          1          2    0.6703430037
## 15931         1          2    0.6701262228
## 7176          1          2    0.6701028854
## 8433          1          2    0.6700654828
## 7069          1          2    0.6700344377
## 7202          1          2    0.6700163270
## 7467          1          2    0.6698956116
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## 286           1          2    0.6698661986
## 6944          1          2    0.6698429410
## 7001          1          2    0.6696786413
## 73            1          2    0.6696001282
## 7066          1          2    0.6695989922
## 7912          1          2    0.6695973499
## 7558          1          2    0.6695712271
## 7415          1          2    0.6695268173
## 7408          1          2    0.6695037436
## 17932         1          2    0.6694944671
## 6920          1          2    0.6694055947
## 7363          1          2    0.6693923583
## 7093          1          2    0.6693120749
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## 7915          1          2    0.6689606893
## 9042          1          2    0.6689524285
## 7327          1          2    0.6689153860
## 7198          1          2    0.6689039709
## 7196          1          2    0.6688805397
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## 7027          1          2    0.6687047016
## 7003          1          2    0.6686131552
```

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## 7068          1          2    0.6682737108
## 7856          1          2    0.6681201450
## 7663          1          2    0.6679756240
## 7115          1          2    0.6679699327
## 7417          1          2    0.6679390161
## 8174          1          2    0.6678831079
## 7114          1          2    0.6678067719
## 7211          1          2    0.6677809353
## 14876         1          2    0.6677653899
## 7105          1          2    0.6677620818
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## 7179          1          2    0.6676312946
## 8107          1          2    0.6676020000
## 7206          1          2    0.6675801675
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## 7355          1          2    0.6674903978
## 98            1          2    0.6674502199
## 7071          1          2    0.6673751864
## 7203          1          2    0.6673579379
## 14877         1          2    0.6673481430
## 7210          1          2    0.6672887357
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## 9405          1          2    0.6672776317
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## 7242          1          2    0.6671844184
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## 7107          1          2    0.6668373041
## 7205          1          2    0.6668276587
## 7200          1          2    0.6667946612
## 7213          1          2    0.6667555171
## 9406          1          2    0.6667515800
## 7135          1          2    0.6666555670
## 7792          1          2    0.6666401297
## 7279          1          2    0.6666348671
## 7126          1          2    0.6663722793
## 7212          1          2    0.6663218528
## 6930          1          2    0.6662918231
## 9040          1          2    0.6658398921
## 7914          1          2    0.6658364812
## 7152          1          2    0.6658308634
## 7466          1          2    0.6658242385
## 7216          1          2    0.6657889333
## 7078          1          2    0.6656773635
## 7192          1          2    0.6654771630
## 7123          1          2    0.6650651749
## 7217          1          2    0.6650538866
## 6929          1          2    0.6649424695
## 14878         1          2    0.6648354948
## 7157          1          2    0.6647654180
## 7219          1          2    0.6647645379
## 7857          1          2    0.6647577388
## 7265          1          2    0.6647436095
```

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## 7451          1          2   0.6646589441
## 7507          1          2   0.6646469313
## 7097          1          2   0.6645736272
## 7860          1          2   0.6644788340
## 7662          1          2   0.6644768696
## 7359          1          2   0.6644287772
## 7112          1          2   0.6644159034
## 7117          1          2   0.6643726315
## 7209          1          2   0.6643010215
## 9043          1          2   0.6642674015
## 14872         1          2   0.6642522156
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## 7552          1          2   0.6640705695
## 7235          1          2   0.6640601644
## 7234          1          2   0.6639865723
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## 7284          1          2   0.6637201684
## 7204          1          2   0.6635879213
## 7113          1          2   0.6634633060
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## 7306          1          2   0.6627302730
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## 7861          1          2   0.6627254886
## 7125          1          2   0.6627126571
## 7137          1          2   0.6626878477
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## 7307          1          2   0.6612709492
## 7508          1          2   0.6612405324
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## 7453          1          2   0.6611292737
## 7159          1          2   0.6611115129
## 7230          1          2   0.6610027875
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## 9046          1          2   0.6608588769
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## 7863          1          2   0.6605295965
## 7326          1          2   0.6605006381
```

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## 7360            1            2     0.6604807202
## 7175            1            2     0.6604601220
## 7400            1            2     0.6604487944
## 7099            1            2     0.6601774388
## 8110            1            2     0.6600475296
## 8109            1            2     0.6599991832
## 7500            1            2     0.6599909665
## 7318            1            2     0.6599145004
## 7357            1            2     0.6596046885
## 7266            1            2     0.6595604284
## 7862            1            2     0.6595268555
## 7268            1            2     0.6594975882
## 7208            1            2     0.6593808865
## 7244            1            2     0.6593665547
## 7153            1            2     0.6593620771
## 7270            1            2     0.6593580963
## 9523            1            2     0.6593446096
## 7180            1            2     0.6593119711
## 17933           1            2     0.6588928958
## 7269            1            2     0.6587582023
## 7501            1            2     0.6587373668
## 7399            1            2     0.6587107802
## 7356            1            2     0.6583974674
## 8157            1            2     0.6583901694
## 7560            1            2     0.6583880203
## 7314            1            2     0.6583515907
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## 7720            1            2     0.6582242939
## 15200           1            2     0.6582036410
## 7443            1            2     0.6581845012
## 7145            1            2     0.6580937954
## 7233            1            2     0.6580872290
## 7511            1            2     0.6580035451
## 7772            1            2     0.6579812185
## 7313            1            2     0.6579442550
## 7305            1            2     0.6579405136
## 8435            1            2     0.6578917344
## 7344            1            2     0.6578577173
## 7773            1            2     0.6576969728
## 8113            1            2     0.6576613403
## 7325            1            2     0.6576069276
## 7561            1            2     0.6575968740
## 7389            1            2     0.6575921512
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## 7215            1            2     0.6573680428
## 7245            1            2     0.6573153550
## 9524            1            2     0.6572981261
## 17934           1            2     0.6572966741
## 7316            1            2     0.6572929936
## 7231            1            2     0.6572306492
## 7613            1            2     0.6572233890
## 7320            1            2     0.6571247713
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## 7910            1            2     0.6567122347
```

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## 7174       1       2   0.6564020511
## 7383       1       2   0.6563773390
## 7372       1       2   0.6563713829
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## 7273       1       2   0.6552183960
## 7474       1       2   0.6550312614
## 7343       1       2   0.6548736855
## 7349       1       2   0.6548312179
## 7323       1       2   0.6547894307
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## 7478       1       2   0.6546748419
## 7465       1       2   0.6546474597
## 7477       1       2   0.6545659657
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## 7271       1       2   0.6543460005
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## 7611       1       2   0.6542968110
## 8538       1       2   0.6542739899
## 7622       1       2   0.6542722994
## 7502       1       2   0.6542588457
## 18018      1       2   0.6542464595
## 9044       1       2   0.6541371849
## 7181       1       2   0.6540125993
## 7334       1       2   0.6539942330
## 7615       1       2   0.6539499127
## 7617       1       2   0.6534383976
## 7503       1       2   0.6533995768
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## 7346       1       2   0.6530892634
## 7310       1       2   0.6529393165
## 7347       1       2   0.6529320529
## 7317       1       2   0.6529154213
## 7614       1       2   0.6528869289
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## 7220       1       2   0.6526484018
## 8204       1       2   0.6521733935
## 7553       1       2   0.6520073355
## 7345       1       2   0.6519666950
## 7353       1       2   0.6515678982
## 7340       1       2   0.6515671797
## 7505       1       2   0.6515173194
## 7651       1       2   0.6514388966
```

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## 7594         1         2    0.6514214136
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## 7376         1         2    0.6513933144
## 8226         1         2    0.6513574640
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## 7942         1         2    0.6511738779
## 7369         1         2    0.6511171283
## 7387         1         2    0.6510501580
## 7386         1         2    0.6508802222
## 7321         1         2    0.6507601892
## 7481         1         2    0.6505774472
## 7354         1         2    0.6505612663
## 9598         1         2    0.6505121833
## 9601         1         2    0.6504535048
## 7367         1         2    0.6504451971
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## 7489         1         2    0.6499000462
## 7427         1         2    0.6498261614
## 7373         1         2    0.6497315031
## 7395         1         2    0.6497121837
## 11191        1         2    0.6496433599
## 7480         1         2    0.6494247790
## 7352         1         2    0.6494070447
## 15543        1         2    0.6493946855
## 7319         1         2    0.6493945453
## 7534         1         2    0.6488168862
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## 7333         1         2    0.6487332211
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## 7384         1         2    0.6486996807
## 10570        1         2    0.6486776796
## 7374         1         2    0.6484978619
## 7909         1         2    0.6484795775
## 7398         1         2    0.6484061036
## 7492         1         2    0.6482000329
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## 7493         1         2    0.6481645295
## 7382         1         2    0.6481285910
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## 7483         1         2    0.6479916852
## 7538         1         2    0.6479813325
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## 7520         1         2    0.6479769162
## 18020        1         2    0.6477989637
## 7564         1         2    0.6477610799
## 15642        1         2    0.6477442339
## 7517         1         2    0.6476485217
## 9600         1         2    0.6475211039
## 7454         1         2    0.6475010504
## 7482         1         2    0.6475010504
```

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## 9707           1          2    0.6473837095
## 7562           1          2    0.6471132228
## 7685           1          2    0.6471043620
## 7563           1          2    0.6470329568
## 8332           1          2    0.6470045672
## 7485           1          2    0.6470006200
## 8540           1          2    0.6466192838
## 7351           1          2    0.6466073077
## 8436           1          2    0.6466063004
## 8236           1          2    0.6465378818
## 7498           1          2    0.6464764237
## 7920           1          2    0.6463575669
## 7497           1          2    0.6463362859
## 9599           1          2    0.6463264317
## 7537           1          2    0.6459636725
## 7504           1          2    0.6454258949
## 10571          1          2    0.6453504771
## 7421           1          2    0.6452543235
## 7411           1          2    0.6452096251
## 7536           1          2    0.6451958539
## 10572          1          2    0.6451820020
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## 7746           1          2    0.6446499758
## 7603           1          2    0.6446331798
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## 7672           1          2    0.6445394071
## 9049           1          2    0.6445029098
## 7419           1          2    0.6444878909
## 8176           1          2    0.6444647063
## 7521           1          2    0.6444582326
## 15643          1          2    0.6443907618
## 9602           1          2    0.6443402178
## 7339           1          2    0.6443270497
## 7753           1          2    0.6443089204
## 7446           1          2    0.6442416858
## 7748           1          2    0.6442407693
## 7607           1          2    0.6442219483
## 7535           1          2    0.6441511573
## 7608           1          2    0.6441130119
## 8267           1          2    0.6440006403
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## 9048           1          2    0.6439635552
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## 7976           1          2    0.6439415165
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## 7449           1          2    0.6438589780
## 7426           1          2    0.6438511655
## 7749           1          2    0.6438473705
## 7375           1          2    0.6437254732
## 7380           1          2    0.6437017641
## 7761           1          2    0.6436964292
## 7599           1          2    0.6435703851
```

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## 8333        1        2   0.6435048195
## 7601        1        2   0.6430253867
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## 7686        1        2   0.6425050221
## 7600        1        2   0.6424472439
## 7445        1        2   0.6424358399
## 7381        1        2   0.6418561512
## 10573       1        2   0.6417393747
## 7977        1        2   0.6417390060
## 7616        1        2   0.6416968935
## 7944        1        2   0.6416916081
## 7440        1        2   0.6410690354
## 7540        1        2   0.6410560123
## 7610        1        2   0.6410371125
## 7933        1        2   0.6410137212
## 7513        1        2   0.6410101090
## 7442        1        2   0.6409248188
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## 7506        1        2   0.6408027086
## 7486        1        2   0.6407990771
## 7606        1        2   0.6406743601
## 7458        1        2   0.6406204649
## 7462        1        2   0.6406145997
## 8437        1        2   0.6403380513
## 8584        1        2   0.6403133002
## 7461        1        2   0.6402602403
## 7425        1        2   0.6402397823
## 8266        1        2   0.6401682142
## 7679        1        2   0.6398587128
## 15201       1        2   0.6397039763
## 7494        1        2   0.6396703431
## 7487        1        2   0.6395301998
## 8331        1        2   0.6395229639
## 7476        1        2   0.6394771371
## 8335        1        2   0.6394153986
## 7765        1        2   0.6393897852
## 7754        1        2   0.6393466976
## 7819        1        2   0.6393383918
## 7541        1        2   0.6388420288
## 7755        1        2   0.6384953136
## 10575       1        2   0.6382565449
## 7684        1        2   0.6382448989
## 7406        1        2   0.6382380722
## 10574       1        2   0.6382357546
## 8334        1        2   0.6382152102
## 7596        1        2   0.6381976630
## 7456        1        2   0.6381561488
## 7424        1        2   0.6381220023
## 7652        1        2   0.6374101971
```

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## 7605      1      2   0.6373977036
## 8585      1      2   0.6373596194
## 10577     1      2   0.6373469707
## 7712      1      2   0.6373428286
## 7644      1      2   0.6373392142
## 7514      1      2   0.6373354752
## 9157      1      2   0.6373197763
## 7893      1      2   0.6372836088
## 8439      1      2   0.6372337523
## 7763      1      2   0.6372320427
## 7524      1      2   0.6372176518
## 7527      1      2   0.6369328448
## 7590      1      2   0.6369138217
## 7986      1      2   0.6369012998
## 8371      1      2   0.6368457520
## 7935      1      2   0.6366279991
## 8992      1      2   0.6366226734
## 7638      1      2   0.6366134646
## 9051      1      2   0.6366010660
## 7834      1      2   0.6365807248
## 7604      1      2   0.6365766733
## 8336      1      2   0.6362413940
## 7525      1      2   0.6362054353
## 7934      1      2   0.6361722866
## 7379      1      2   0.6358811736
## 7653      1      2   0.6358043211
## 15203     1      2   0.6357890212
## 7833      1      2   0.6357779045
## 10578     1      2   0.6357734654
## 7642      1      2   0.6357560576
## 8993      1      2   0.6357488753
## 15801     1      2   0.6355830443
## 7460      1      2   0.6355770294
## 7459      1      2   0.6355628038
## 7529      1      2   0.6352055287
## 8586      1      2   0.6351178913
## 8543      1      2   0.6351044021
## 7747      1      2   0.6349140668
## 7539      1      2   0.6347638937
## 7602      1      2   0.6346921509
## 9050      1      2   0.6346875400
## 7472      1      2   0.6346221316
## 7471      1      2   0.6345706430
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## 8063      1      2   0.6336697977
## 7645      1      2   0.6336480958
## 8017      1      2   0.6336091343
## 10582     1      2   0.6335186938
## 7531      1      2   0.6332824297
## 7647      1      2   0.6332239253
## 7750      1      2   0.6332194929
## 7545      1      2   0.6332044677
## 7656      1      2   0.6328403524
## 10579     1      2   0.6328390035
```

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## 7937          1        2   0.6328062952
## 7928          1        2   0.6324995860
## 8416          1        2   0.6324779735
## 7939          1        2   0.6324679114
## 7639          1        2   0.6324610524
## 10576         1        2   0.6323387178
## 7463          1        2   0.6323307177
## 7593          1        2   0.6320570265
## 9052          1        2   0.6320217794
## 7938          1        2   0.6320151735
## 7641          1        2   0.6320109268
## 7546          1        2   0.6320023829
## 7634          1        2   0.6319987247
## 8291          1        2   0.6319221815
## 10583         1        2   0.6319112791
## 8542          1        2   0.6318699626
## 7766          1        2   0.6318670435
## 7657          1        2   0.6318542596
## 7762          1        2   0.6315516570
## 7649          1        2   0.6314481412
## 7752          1        2   0.6314148370
## 8292          1        2   0.6313898315
## 7751          1        2   0.6313202242
## 7609          1        2   0.6313183082
## 7464          1        2   0.6312799181
## 8541          1        2   0.6311300625
## 7418          1        2   0.6310023553
## 7528          1        2   0.6309579223
## 7542          1        2   0.6309228134
## 8544          1        2   0.6308146883
## 8994          1        2   0.6308054360
## 7835          1        2   0.6307696846
## 7619          1        2   0.6300296006
## 7836          1        2   0.6300099426
## 7841          1        2   0.6300034872
## 10580         1        2   0.6299820280
## 7633          1        2   0.6299688613
## 7532          1        2   0.6299051122
## 7838          1        2   0.6299036470
## 7591          1        2   0.6298726738
## 7812          1        2   0.6298624567
## 7551          1        2   0.6298367705
## 10584         1        2   0.6298367705
## 7544          1        2   0.6298276331
## 7621          1        2   0.6297879142
## 7549          1        2   0.6297867479
## 7927          1        2   0.6297850101
## 7543          1        2   0.6297804390
## 7548          1        2   0.6297735642
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## 11002         1        2   0.6296677260
## 8417          1        2   0.6296657207
## 7547          1        2   0.6296419213
## 9158          1        2   0.6295677298
```

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## 15903           1           2    0.6294348505
## 7550            1           2    0.6294179733
## 7515            1           2    0.6292011844
## 7837            1           2    0.6291024154
## 7788            1           2    0.6290951665
## 7640            1           2    0.6289994095
## 7592            1           2    0.6288856352
## 7767            1           2    0.6288658413
## 7643            1           2    0.6287328104
## 15802           1           2    0.6287127381
## 7530            1           2    0.6286893882
## 18154           1           2    0.6286878619
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## 7803            1           2    0.6286149572
## 7839            1           2    0.6282323152
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## 7715            1           2    0.6281682697
## 8546            1           2    0.6281623813
## 8056            1           2    0.6280948026
## 8064            1           2    0.6275942343
## 7636            1           2    0.6275864062
## 7714            1           2    0.6275709567
## 8547            1           2    0.6275439757
## 7820            1           2    0.6275271772
## 7646            1           2    0.6274527474
## 15202           1           2    0.6273623459
## 7814            1           2    0.6272399185
## 7840            1           2    0.6272181111
## 7718            1           2    0.6268557226
## 7801            1           2    0.6261879405
## 8007            1           2    0.6261678249
## 7648            1           2    0.6261023876
## 7533            1           2    0.6260942346
## 8337            1           2    0.6260734957
## 10581           1           2    0.6260255032
## 8520            1           2    0.6259242117
## 9159            1           2    0.6259237441
## 7625            1           2    0.6259129252
## 7457            1           2    0.6258754773
## 7931            1           2    0.6258751855
## 7668            1           2    0.6258530442
## 9160            1           2    0.6254732535
## 7957            1           2    0.6253713269
## 7717            1           2    0.6253584786
## 7769            1           2    0.6253397770
## 8441            1           2    0.6252334189
## 7719            1           2    0.6252278967
## 8227            1           2    0.6251883194
## 8089            1           2    0.6251513627
## 7770            1           2    0.6251037246
## 7932            1           2    0.6247650302
## 7452            1           2    0.6243840710
## 7690            1           2    0.6243008839
## 15904           1           2    0.6243008839
```

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## 10585     1     2   0.6242837539
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## 8440      1     2   0.6236476534
## 7716      1     2   0.6234545223
## 8065      1     2   0.6234458942
## 8995      1     2   0.6233854326
## 8228      1     2   0.6233329858
## 7620      1     2   0.6232984633
## 7713      1     2   0.6230185007
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## 8087      1     2   0.6229900806
## 7632      1     2   0.6222582538
## 7664      1     2   0.6219277441
## 8105      1     2   0.6219192723
## 7667      1     2   0.6219117850
## 7666      1     2   0.6218212669
## 7689      1     2   0.6218162624
## 7868      1     2   0.6217851373
## 7729      1     2   0.6217702828
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## 7705      1     2   0.6215542912
## 7954      1     2   0.6215498707
## 8033      1     2   0.6215307749
## 7659      1     2   0.6215243534
## 8106      1     2   0.6215037874
## 7683      1     2   0.6214892890
## 8000      1     2   0.6213782906
## 7726      1     2   0.6213711643
## 8862      1     2   0.6212660032
## 7618      1     2   0.6212570297
## 8996      1     2   0.6212427726
## 7702      1     2   0.6212378359
## 8861      1     2   0.6211812518
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## 7962      1     2   0.6208727002
## 7966      1     2   0.6208211804
## 7730      1     2   0.6207897008
## 8444      1     2   0.6207628909
## 7665      1     2   0.6207537088
## 7635      1     2   0.6206529303
## 7687      1     2   0.6205344508
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## 8419      1     2   0.6204259862
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## 8229      1     2   0.6202690394
## 7691      1     2   0.6202388053
## 7804      1     2   0.6200056496
## 7802      1     2   0.6198891709
## 8545      1     2   0.6198731710
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## 8446      1     2   0.6197887095
## 7727      1     2   0.6197744459
```

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## 7955          1          2    0.6197160591
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## 7624          1          2    0.6194829102
## 15205         1          2    0.6194708248
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## 7906          1          2    0.6189638192
## 8090          1          2    0.6189551002
## 10029         1          2    0.6183188143
## 7725          1          2    0.6183056388
## 8442          1          2    0.6182893142
## 8418          1          2    0.6182753979
## 8001          1          2    0.6179379734
## 8848          1          2    0.6179068155
## 7732          1          2    0.6178873871
## 7848          1          2    0.6177686565
## 8850          1          2    0.6177564642
## 11004         1          2    0.6177501534
## 7734          1          2    0.6177446529
## 7737          1          2    0.6177229860
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## 8445          1          2    0.6174784275
## 7961          1          2    0.6174478389
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## 7707          1          2    0.6172532944
## 7851          1          2    0.6172073907
## 7669          1          2    0.6171870024
## 7697          1          2    0.6171768623
## 7670          1          2    0.6171460529
## 8970          1          2    0.6170743048
## 7849          1          2    0.6167870999
## 7964          1          2    0.6165471090
## 7731          1          2    0.6162557463
## 8237          1          2    0.6162379090
## 7843          1          2    0.6160405836
## 7842          1          2    0.6160199654
## 10028         1          2    0.6159613695
## 15204         1          2    0.6159510839
## 8086          1          2    0.6159429753
## 8088          1          2    0.6159230454
## 7797          1          2    0.6156709201
## 7757          1          2    0.6156697849
## 8024          1          2    0.6156321857
## 7671          1          2    0.6155708267
## 7728          1          2    0.6155192194
## 7733          1          2    0.6150456175
## 7967          1          2    0.6149888595
## 7956          1          2    0.6149735099
## 7692          1          2    0.6149703901
## 7693          1          2    0.6149703901
## 8997          1          2    0.6145376643
```

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## 7847           1           2   0.6144951864
## 7996           1           2   0.6144779668
## 7963           1           2   0.6143777546
## 7694           1           2   0.6142511411
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## 7899           1           2   0.6137936379
## 8716           1           2   0.6137822898
## 7778           1           2   0.6136246994
## 8738           1           2   0.6134548937
## 7776           1           2   0.6134314902
## 7699           1           2   0.6134272585
## 7799           1           2   0.6134202173
## 7700           1           2   0.6133799236
## 8034           1           2   0.6133429771
## 8849           1           2   0.6133116000
## 7704           1           2   0.6131879451
## 9161           1           2   0.6131176836
## 8005           1           2   0.6130703938
## 11987          1           2   0.6130612216
## 7815           1           2   0.6130524677
## 7852           1           2   0.6130288128
## 8448           1           2   0.6130227063
## 8736           1           2   0.6130142287
## 7988           1           2   0.6130128987
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## 8847           1           2   0.6123932351
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## 11003          1           2   0.6121554579
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## 10030          1           2   0.6119320302
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## 7898           1           2   0.6108008033
## 8737           1           2   0.6107812050
## 7735           1           2   0.6104046644
## 8025           1           2   0.6103959708
## 7800           1           2   0.6101818039
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## 7786           1           2   0.6095776373
## 9585           1           2   0.6095639539
## 10176          1           2   0.6095384224
## 7854           1           2   0.6095186326
## 8724           1           2   0.6094498057
## 8739           1           2   0.6093970722
## 7787           1           2   0.6093628318
```

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## 7756          1        2   0.6092700615
## 8449          1        2   0.6092697395
## 7736          1        2   0.6092591806
## 9162          1        2   0.6092116391
## 7869          1        2   0.6091851122
## 7698          1        2   0.6091203355
## 7864          1        2   0.6088601600
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## 7782          1        2   0.6083002469
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## 8721          1        2   0.6073983817
## 8689          1        2   0.6073772218
## 8073          1        2   0.6073738957
## 8998          1        2   0.6073694863
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## 9163          1        2   0.6072941375
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## 7855          1        2   0.6066245145
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## 7777          1        2   0.6062162011
## 9294          1        2   0.6061422554
## 7989          1        2   0.6061354879
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## 8074          1        2   0.6052940461
## 7810          1        2   0.6052721538
## 7759          1        2   0.6052659012
## 7825          1        2   0.6052613657
## 8027          1        2   0.6052347442
## 7972          1        2   0.6052191660
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## 10261         1        2   0.6051194069
## 8029          1        2   0.6051089370
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## 9636          1        2   0.6050422481
## 8548          1        2   0.6050387197
## 8714          1        2   0.6049386997
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```

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## 8706         1       2   0.6049084175
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## 10177        1       2   0.6042059352
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## 8719         1       2   0.6041489163
## 8999         1       2   0.6041297790
## 10741        1       2   0.6041274299
## 11005        1       2   0.6041175010
## 8068         1       2   0.6041103060
## 8723         1       2   0.6041010104
## 10175        1       2   0.6040320876
## 7780         1       2   0.6038077401
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## 7771         1       2   0.6036680938
## 8075         1       2   0.6036677671
## 8704         1       2   0.6036521126
## 7949         1       2   0.6036504840
## 8037         1       2   0.6032033252
## 9584         1       2   0.6031257059
## 9165         1       2   0.6030629682
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## 7823         1       2   0.6023998929
## 8705         1       2   0.6023802652
## 7894         1       2   0.6023773610
## 7785         1       2   0.6020736810
## 7703         1       2   0.6019827752
## 8740         1       2   0.6019763405
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## 7826         1       2   0.6016491378
## 8708         1       2   0.6016361710
## 8199         1       2   0.6015463695
## 8078         1       2   0.6009474696
## 7832         1       2   0.6009277786
## 7740         1       2   0.6009135425
## 8741         1       2   0.6009113288
## 7742         1       2   0.6009051310
## 7741         1       2   0.6009020462
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## 8036         1       2   0.6008714905
## 8330         1       2   0.6008434827
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```

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## 7811          1          2   0.6007261689
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## 7882          1          2   0.5998201737
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## 9172          1          2   0.5997919705
## 7744          1          2   0.5997915898
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## 7818          1          2   0.5997316862
## 8316          1          2   0.5993257472
## 7901          1          2   0.5993148086
## 7831          1          2   0.5993075608
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## 8452          1          2   0.5988795743
## 7809          1          2   0.5988678451
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## 8079          1          2   0.5984684612
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## 8030          1          2   0.5971230413
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## 7973          1          2   0.5965642135
## 7879          1          2   0.5965419579
## 7923          1          2   0.5965336060
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```

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## 8727        1        2   0.5957810113
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## 8134        1        2   0.5948000364
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## 7974        1        2   0.5942122110
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## 7745        1        2   0.5933722683
## 7905        1        2   0.5928225777
## 7924        1        2   0.5928070090
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## 7828        1        2   0.5923102687
## 7829        1        2   0.5923001467
## 7992        1        2   0.5921362309
## 7968        1        2   0.5920246814
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## 8733        1        2   0.5920082917
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## 7875        1        2   0.5916030190
## 7888        1        2   0.5915382820
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## 8137        1        2   0.5912806559
## 7877        1        2   0.5912579451
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```

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## 8009          1          2    0.5910155615
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## 15532         1          2    0.5908536696
## 7925          1          2    0.5908396984
## 7878          1          2    0.5908331070
## 10664         1          2    0.5907320782
## 9001          1          2    0.5903347015
## 9002          1          2    0.5902399930
## 8728          1          2    0.5900644062
## 8141          1          2    0.5900325700
## 10297         1          2    0.5900004211
## 8059          1          2    0.5899916371
## 8707          1          2    0.5899040985
## 10067         1          2    0.5898132793
## 7871          1          2    0.5897994386
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## 8456          1          2    0.5890146383
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## 9170          1          2    0.5882482136
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## 7872          1          2    0.5877055887
## 8123          1          2    0.5874529783
## 10315         1          2    0.5873511527
## 8773          1          2    0.5873475743
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## 8014          1          2    0.5873020522
## 8774          1          2    0.5872754676
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## 7926          1          2    0.5869415717
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## 8181          1          2    0.5866575897
## 8124          1          2    0.5866162514
## 15533         1          2    0.5865837979
## 8206          1          2    0.5865288298
## 7760          1          2    0.5864838426
## 7889          1          2    0.5864776618
## 8324          1          2    0.5862485344
## 8504          1          2    0.5862002252
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## 8012          1          2    0.5856714363
## 9546          1          2    0.5851509696
## 7947          1          2    0.5851002821
## 10314         1          2    0.5850975737
## 8772          1          2    0.5850743389
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## 7965          1          2    0.5844549245
```

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## 8500          1          2    0.5844379911
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## 8455          1          2    0.5840068121
## 8010          1          2    0.5837525267
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## 8203          1          2    0.5836417980
## 8071          1          2    0.5831349354
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## 9205          1          2    0.5828345799
## 7984          1          2    0.5828336761
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## 8254          1          2    0.5827948255
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## 8019          1          2    0.5825696267
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## 8257          1          2    0.5824522085
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## 8159          1          2    0.5815419120
## 8506          1          2    0.5815184346
## 7941          1          2    0.5815164097
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## 8507          1          2    0.5814675941
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## 8041          1          2    0.5810508663
## 8779          1          2    0.5810436869
## 8781          1          2    0.5810353978
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## 7921          1          2    0.5807938546
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## 8091          1          2    0.5803329926
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## 8222          1          2    0.5797627452
```

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## 8163          1          2    0.5797354876
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## 8509          1          2    0.5777117496
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## 8480          1          2    0.5771461329
## 9003          1          2    0.5771425419
## 8842          1          2    0.5771330295
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```

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## 9004         1       2   0.5738213525
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## 8785         1       2   0.5722824781
## 15536        1       2   0.5714689290
## 7959         1       2   0.5714416571
## 19300        1       2   0.5713524562
## 8092         1       2   0.5707693099
## 10319        1       2   0.5707352161
## 8784         1       2   0.5707324346
## 8786         1       2   0.5700591974
## 8568         1       2   0.5700526391
## 8611         1       2   0.5700510379
## 8318         1       2   0.5700489667
## 9345         1       2   0.5693050249
## 8050         1       2   0.5692652332
## 9458         1       2   0.5692571077
## 8569         1       2   0.5692502180
## 8461         1       2   0.5691656592
## 8209         1       2   0.5690373511
## 8743         1       2   0.5689883267
## 8273         1       2   0.5687309828
## 7958         1       2   0.5687082272
## 9344         1       2   0.5683905400
## 8268         1       2   0.5683598605
## 8762         1       2   0.5679977378
## 8054         1       2   0.5679870190
```

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## 8744          1          2    0.5678560808
## 8347          1          2    0.5678497090
## 8044          1          2    0.5678437499
## 10192         1          2    0.5678354933
## 8749          1          2    0.5678287770
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## 8171          1          2    0.5677813100
## 7997          1          2    0.5677716920
## 8750          1          2    0.5676404200
## 8053          1          2    0.5676130175
## 8156          1          2    0.5676104475
## 8360          1          2    0.5675600220
## 8008          1          2    0.5673257034
## 8761          1          2    0.5672682920
## 8069          1          2    0.5672535316
## 10320         1          2    0.5672398908
## 8055          1          2    0.5668636279
## 9006          1          2    0.5667799174
## 8155          1          2    0.5665407410
## 7998          1          2    0.5665066422
## 8147          1          2    0.5664695808
## 8233          1          2    0.5664310601
## 8783          1          2    0.5664182319
## 8787          1          2    0.5664182319
## 8070          1          2    0.5663997934
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## 8148          1          2    0.5657525387
## 8501          1          2    0.5656038557
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## 8776          1          2    0.5642783751
## 8320          1          2    0.5642750213
## 8319          1          2    0.5642741606
## 8051          1          2    0.5641793561
## 8782          1          2    0.5641636946
## 9647          1          2    0.5641513079
## 8052          1          2    0.5634207690
## 8763          1          2    0.5634156324
## 19301         1          2    0.5629793577
## 8301          1          2    0.5629525244
## 8023          1          2    0.5629356117
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## 7999          1          2    0.5625717172
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```

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## 8096           1           2    0.5612739567
## 8422           1           2    0.5612073462
## 8757           1           2    0.5607264074
## 8766           1           2    0.5607040489
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## 9891           1           2    0.5606610092
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## 8180           1           2    0.5592555568
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## 11044          1           2    0.5592424553
## 9890           1           2    0.5592318677
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## 8421           1           2    0.5583999993
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## 10193          1           2    0.5577922947
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## 8394           1           2    0.5575796190
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## 8224           1           2    0.5575129284
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## 8526           1           2    0.5574605562
## 8752           1           2    0.5574585241
## 8150           1           2    0.5574489925
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```

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## 8755          1          2    0.5553235684
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## 8758          1          2    0.5541264416
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```

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## 10338          1         2    0.5496146224
## 8791           1         2    0.5495990862
## 10194          1         2    0.5495796163
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## 8793           1         2    0.5479464245
## 8104           1         2    0.5479392236
## 8770           1         2    0.5478823696
## 8126           1         2    0.5477320803
## 8557           1         2    0.5472463030
## 8392           1         2    0.5471814242
## 8798           1         2    0.5471547303
## 9973           1         2    0.5470950713
## 8789           1         2    0.5470852566
## 9007           1         2    0.5470852566
## 8117           1         2    0.5470265466
## 8103           1         2    0.5469976570
## 8166           1         2    0.5469897725
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## 8183           1         2    0.5467592899
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## 8677           1         2    0.5460081151
## 10368          1         2    0.5459738110
## 8800           1         2    0.5459181053
## 8979           1         2    0.5459124764
## 8351           1         2    0.5454569236
```

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## 8252          1          2    0.5442452113
## 12114         1          2    0.5442147133
## 8327          1          2    0.5441250270
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## 8671          1          2    0.5438533532
## 8198          1          2    0.5438291757
## 8679          1          2    0.5438196621
## 8393          1          2    0.5434532059
## 8145          1          2    0.5426075853
## 8196          1          2    0.5424875787
## 8678          1          2    0.5424768617
## 8674          1          2    0.5423901672
## 8810          1          2    0.5417404161
## 8795          1          2    0.5417194957
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## 8428          1          2    0.5413485136
## 8595          1          2    0.5413194150
## 8809          1          2    0.5413058322
## 8329          1          2    0.5412803795
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## 8522          1          2    0.5412476258
## 8219          1          2    0.5410184609
## 8811          1          2    0.5409707866
## 8796          1          2    0.5407110365
## 8143          1          2    0.5406631550
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## 8683          1          2    0.5405783219
## 12113         1          2    0.5405640648
## 8808          1          2    0.5405225644
## 8310          1          2    0.5400845826
## 8562          1          2    0.5400177681
## 8322          1          2    0.5395034144
## 8807          1          2    0.5395000522
## 9299          1          2    0.5394735521
## 8802          1          2    0.5394590479
## 8863          1          2    0.5394480206
```

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## 8843       1      2   0.5387796770
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## 8492       1      2   0.5387611882
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## 8182       1      2   0.5383608554
## 8556       1      2   0.5382709538
## 8684       1      2   0.5380395632
## 10196      1      2   0.5380200331
## 8427       1      2   0.5379876694
## 8425       1      2   0.5373235551
## 8804       1      2   0.5371753209
## 8218       1      2   0.5371174400
## 8195       1      2   0.5371124980
## 10195      1      2   0.5370993435
## 8328       1      2   0.5362503378
## 8566       1      2   0.5361817530
## 10197      1      2   0.5361804746
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## 8491       1      2   0.5357375844
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## 8278       1      2   0.5354628542
## 8281       1      2   0.5354212040
## 10198      1      2   0.5354095774
## 8892       1      2   0.5353751402
## 8286       1      2   0.5353259161
## 8340       1      2   0.5351115259
## 8529       1      2   0.5350527918
## 8608       1      2   0.5350315600
## 12117      1      2   0.5349980407
## 8894       1      2   0.5349918557
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## 8280       1      2   0.5345170449
## 12116      1      2   0.5344618717
## 8212       1      2   0.5342451875
## 8864       1      2   0.5341870500
## 8812       1      2   0.5341278557
## 8464       1      2   0.5341154294
## 8597       1      2   0.5341048337
## 8845       1      2   0.5340646731
## 8282       1      2   0.5339071041
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## 10515      1      2   0.5338546425
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```

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## 8374       1       2   0.5332088810
## 8895       1       2   0.5331726673
## 8311       1       2   0.5330598414
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## 10201      1       2   0.5329226181
## 8263       1       2   0.5328902222
## 8805       1       2   0.5318512595
## 8211       1       2   0.5318490435
## 10145      1       2   0.5306595591
## 8220       1       2   0.5306424281
## 8426       1       2   0.5304986906
## 15913      1       2   0.5304866182
## 8891       1       2   0.5304722249
## 19532      1       2   0.5304707652
## 8948       1       2   0.5304157693
## 8474       1       2   0.5303586787
## 15912      1       2   0.5303179265
## 8681       1       2   0.5303016465
## 8215       1       2   0.5302432465
## 8366       1       2   0.5301561714
## 8889       1       2   0.5301236291
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## 8813       1       2   0.5300789433
## 8946       1       2   0.5300648378
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## 8893       1       2   0.5295776768
## 8815       1       2   0.5293765897
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## 9550       1       2   0.5288189688
## 8532       1       2   0.5286513528
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## 8305       1       2   0.5282448768
## 8369       1       2   0.5275823745
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## 8563       1       2   0.5260885927
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```

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## 8896            1        2    0.5246185863
## 8902            1        2    0.5246047425
## 8475            1        2    0.5246016326
## 8951            1        2    0.5243563043
## 8383            1        2    0.5243020521
## 9280            1        2    0.5242665725
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## 8602            1        2    0.5228344108
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```

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## 9260          1          2   0.5184604026
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## 8953          1          2   0.5182202528
## 8304          1          2   0.5180061938
## 8899          1          2   0.5172681088
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## 8404          1          2   0.5127534436
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## 8259          1          2   0.5122706735
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## 8639          1          2   0.5121153406
## 8907          1          2   0.5117321094
## 8816          1          2   0.5113814848
## 8645          1          2   0.5113749263
## 9352          1          2   0.5113082025
## 8343          1          2   0.5112912025
## 10923         1          2   0.5112871985
## 8377          1          2   0.5112656045
## 8346          1          2   0.5112649498
## 8513          1          2   0.5112608592
## 8931          1          2   0.5112555835
```

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## 10143        1          2    0.5112142402
## 9281         1          2    0.5109306282
## 8952         1          2    0.5108577025
## 8403         1          2    0.5107319013
## 8980         1          2    0.5106924625
## 8342         1          2    0.5106127941
## 8341         1          2    0.5105799804
## 8904         1          2    0.5102245714
## 8932         1          2    0.5102117785
## 9367         1          2    0.5100580496
## 8982         1          2    0.5100452421
## 8399         1          2    0.5099443773
## 8641         1          2    0.5099185929
## 8606         1          2    0.5092845821
## 8983         1          2    0.5092119033
## 8981         1          2    0.5091326850
## 8375         1          2    0.5090719811
## 8284         1          2    0.5088926546
## 8270         1          2    0.5088441129
## 9394         1          2    0.5084660371
## 8512         1          2    0.5084162651
## 8913         1          2    0.5083147966
## 10146        1          2    0.5077272009
## 8338         1          2    0.5075485776
## 9385         1          2    0.5075372471
## 8912         1          2    0.5074812003
## 12123        1          2    0.5073635287
## 8357         1          2    0.5068279722
## 16135        1          2    0.5068210828
## 9100         1          2    0.5068007277
## 8918         1          2    0.5067818927
## 8400         1          2    0.5067778900
## 9395         1          2    0.5067773834
## 8933         1          2    0.5067282233
## 8637         1          2    0.5065715419
## 8830         1          2    0.5065075402
## 8985         1          2    0.5064992608
## 9396         1          2    0.5064820624
## 8917         1          2    0.5064249979
## 16137        1          2    0.5064229359
## 11084        1          2    0.5064217075
## 9091         1          2    0.5063919640
## 8483         1          2    0.5063608615
## 12125        1          2    0.5061208195
## 16134        1          2    0.5061064135
## 10769        1          2    0.5059955026
## 8916         1          2    0.5056933491
## 8971         1          2    0.5054551074
## 8277         1          2    0.5053157074
## 16136        1          2    0.5052284525
## 8646         1          2    0.5051507325
## 8915         1          2    0.5051400743
## 9387         1          2    0.5046205981
## 9099         1          2    0.5045532721
```

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## 8485          1          2   0.5044782389
## 8405          1          2   0.5043475024
## 8987          1          2   0.5039395516
## 8636          1          2   0.5038640104
## 8482          1          2   0.5031490495
## 8350          1          2   0.5031156179
## 8575          1          2   0.5028739300
## 8523          1          2   0.5022959616
## 8660          1          2   0.5022569291
## 12124         1          2   0.5014879774
## 8635          1          2   0.5013689171
## 16139         1          2   0.5006549397
## 8285          1          2   0.5006474730
## 11052         1          2   0.5006467922
## 8984          1          2   0.5005702687
## 8919          1          2   0.5004867060
## 8514          1          2   0.5003573021
## 8510          1          2   0.5003529441
## 8465          1          2   0.5003319890
## 11012         1          2   0.5003138729
## 8401          1          2   0.5002743476
## 8488          1          2   0.5002675143
## 8634          1          2   0.5002301455
## 8857          1          2   0.5001493278
## 8385          1          2   0.5001176971
## 8411          1          2   0.4999563701
## 8856          1          2   0.4999152245
## 8977          1          2   0.4998666434
## 16138         1          2   0.4998459633
## 8914          1          2   0.4993545513
## 8647          1          2   0.4992593571
## 10649         1          2   0.4992542619
## 11011         1          2   0.4992196445
## 8832          1          2   0.4990898632
## 8648          1          2   0.4990355184
## 8825          1          2   0.4984601155
## 9404          1          2   0.4983815051
## 8515          1          2   0.4983734929
## 9105          1          2   0.4983291706
## 8934          1          2   0.4981222572
## 8313          1          2   0.4980836523
## 8466          1          2   0.4977255970
## 8667          1          2   0.4976959227
## 9388          1          2   0.4976929240
## 9101          1          2   0.4976699230
## 8484          1          2   0.4971084137
## 8524          1          2   0.4970940282
## 9746          1          2   0.4968776939
## 8633          1          2   0.4968684696
## 11296         1          2   0.4968335625
## 9102          1          2   0.4961893838
## 8831          1          2   0.4961835047
## 8926          1          2   0.4959945023
## 8303          1          2   0.4957786062
```

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## 8410          1          2   0.4952934412
## 8398          1          2   0.4952623230
## 8384          1          2   0.4951947099
## 8695          1          2   0.4943687062
## 11314         1          2   0.4943621842
## 8865          1          2   0.4943456288
## 9103          1          2   0.4943033176
## 8836          1          2   0.4942848349
## 8535          1          2   0.4942245915
## 9434          1          2   0.4941899461
## 16142         1          2   0.4941559496
## 16143         1          2   0.4941508245
## 8929          1          2   0.4941422571
## 8826          1          2   0.4941323812
## 8649          1          2   0.4940966483
## 8590          1          2   0.4940339970
## 8528          1          2   0.4939214552
## 8694          1          2   0.4936069121
## 8591          1          2   0.4934703373
## 9399          1          2   0.4932669103
## 9104          1          2   0.4932573415
## 8833          1          2   0.4932371738
## 8700          1          2   0.4931955428
## 9400          1          2   0.4931653814
## 9092          1          2   0.4931488187
## 8697          1          2   0.4931391956
## 8924          1          2   0.4927338935
## 8698          1          2   0.4926888724
## 9792          1          2   0.4926628112
## 8699          1          2   0.4921013445
## 8406          1          2   0.4920890975
## 11315         1          2   0.4920773629
## 8577          1          2   0.4920078770
## 8525          1          2   0.4919304172
## 9106          1          2   0.4918893422
## 9203          1          2   0.4915093402
## 8696          1          2   0.4913875335
## 8920          1          2   0.4907429316
## 8692          1          2   0.4907142551
## 8827          1          2   0.4906617530
## 8668          1          2   0.4906080126
## 9204          1          2   0.4899082084
## 11013         1          2   0.4898894071
## 8923          1          2   0.4898182197
## 9148          1          2   0.4897551225
## 16141         1          2   0.4888704436
## 16140         1          2   0.4888671324
## 8835          1          2   0.4880203338
## 8834          1          2   0.4879783725
## 8413          1          2   0.4879524630
## 9149          1          2   0.4879422571
## 8414          1          2   0.4879160689
## 8966          1          2   0.4879135954
## 9521          1          2   0.4879135954
```

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## 8592          1          2   0.4879087204
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## 8969          1          2   0.4878644485
## 8536          1          2   0.4878619811
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## 11054         1          2   0.4876532522
## 8967          1          2   0.4875542062
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## 8407          1          2   0.4871822170
## 11422         1          2   0.4871567982
## 9147          1          2   0.4869479453
## 8534          1          2   0.4869431626
## 8693          1          2   0.4868470597
## 8858          1          2   0.4867914662
## 8600          1          2   0.4867900624
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## 9111          1          2   0.4866962134
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## 9098          1          2   0.4863392330
## 9150          1          2   0.4857590784
## 9433          1          2   0.4857419781
## 8871          1          2   0.4857025565
## 9054          1          2   0.4856995171
## 8965          1          2   0.4856838641
## 8494          1          2   0.4856691455
## 8968          1          2   0.4856152860
## 8925          1          2   0.4855304749
## 8593          1          2   0.4849972725
## 8828          1          2   0.4849694930
## 8921          1          2   0.4846489395
## 8412          1          2   0.4844700512
## 9153          1          2   0.4842547727
## 9540          1          2   0.4842428539
## 12126         1          2   0.4840806563
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## 10236         1          2   0.4833224126
## 12129         1          2   0.4825660581
## 8599          1          2   0.4825217621
## 8868          1          2   0.4825089982
## 8691          1          2   0.4824576367
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## 8578          1          2   0.4815263693
## 11423         1          2   0.4814178595
## 8518          1          2   0.4813649350
## 9081          1          2   0.4813622561
## 9220          1          2   0.4813411330
## 8517          1          2   0.4813233382
## 9082          1          2   0.4812542762
## 9543          1          2   0.4812539558
## 16144         1          2   0.4812220342
```

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## 9085          1          2   0.4811116886
## 9567          1          2   0.4810331447
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## 9219          1          2   0.4810192185
## 9211          1          2   0.4810073229
## 8875          1          2   0.4809919660
## 9086          1          2   0.4809870289
## 8866          1          2   0.4806784220
## 8829          1          2   0.4806549934
## 9151          1          2   0.4805944154
## 9152          1          2   0.4805334015
## 8598          1          2   0.4805323734
## 12127         1          2   0.4805080495
## 9112          1          2   0.4804423003
## 8870          1          2   0.4804102338
## 8930          1          2   0.4802722187
## 9565          1          2   0.4801969825
## 10996         1          2   0.4801954041
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## 8837          1          2   0.4798421007
## 8874          1          2   0.4792021138
## 8594          1          2   0.4791871102
## 8867          1          2   0.4791805739
## 8872          1          2   0.4791695935
## 9080          1          2   0.4791445429
## 9800          1          2   0.4791339952
## 9541          1          2   0.4785108907
## 9087          1          2   0.4784983300
## 9059          1          2   0.4784547348
## 8686          1          2   0.4784134269
## 9134          1          2   0.4780652316
## 10997         1          2   0.4778197464
## 9221          1          2   0.4778172944
## 9564          1          2   0.4777873510
## 9906          1          2   0.4769730291
## 8516          1          2   0.4769707628
## 9566          1          2   0.4769638701
## 9083          1          2   0.4769630370
## 9084          1          2   0.4769118437
## 9079          1          2   0.4767866220
## 8873          1          2   0.4759539417
## 9542          1          2   0.4759119183
## 8650          1          2   0.4750462175
## 11126         1          2   0.4749869671
## 8489          1          2   0.4749341471
## 11127         1          2   0.4747142221
## 9225          1          2   0.4746765145
## 8989          1          2   0.4746571064
## 9228          1          2   0.4746027671
## 8655          1          2   0.4745957920
## 9230          1          2   0.4745858249
## 9130          1          2   0.4745531184
```

```
## 12131          1          2   0.4745499138
## 9227           1          2   0.4745378215
## 9131           1          2   0.4745262989
## 8838           1          2   0.4744257844
## 8876           1          2   0.4744257844
## 9124           1          2   0.4743475299
## 9097           1          2   0.4743412999
## 9128           1          2   0.4740732240
## 8687           1          2   0.4740496470
## 9207           1          2   0.4739965597
## 9229           1          2   0.4739885562
## 8653           1          2   0.4739663748
## 9522           1          2   0.4739215114
## 8964           1          2   0.4738905453
## 9125           1          2   0.4730428635
## 8688           1          2   0.4730420576
## 9088           1          2   0.4727866929
## 8657           1          2   0.4727219693
## 9127           1          2   0.4726126415
## 8656           1          2   0.4725467440
## 9732           1          2   0.4723918530
## 9931           1          2   0.4718477865
## 8642           1          2   0.4718228858
## 9224           1          2   0.4718093581
## 8820           1          2   0.4717128456
## 9907           1          2   0.4716105181
## 9126           1          2   0.4712409120
## 9226           1          2   0.4711438622
## 8851           1          2   0.4705063708
## 9212           1          2   0.4703937005
## 9346           1          2   0.4703657282
## 9977           1          2   0.4703545621
## 12130          1          2   0.4702398821
## 8579           1          2   0.4702203404
## 8852           1          2   0.4694853260
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## 8877           1          2   0.4692810588
## 8652           1          2   0.4684611901
## 9930           1          2   0.4683820804
## 8658           1          2   0.4682926240
## 9236           1          2   0.4679644855
## 9234           1          2   0.4679201092
## 9117           1          2   0.4678798063
## 9625           1          2   0.4678421247
## 8821           1          2   0.4678353819
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## 9233           1          2   0.4674549358
## 10466          1          2   0.4672993300
## 9231           1          2   0.4672980023
## 8659           1          2   0.4672683758
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## 8702           1          2   0.4663649186
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```

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## 9934         1        2   0.4663017352
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## 9113         1        2   0.4662772839
## 9933         1        2   0.4662670262
## 8632         1        2   0.4662144493
## 9235         1        2   0.4658322739
## 8855         1        2   0.4657348991
## 12133        1        2   0.4651558900
## 9935         1        2   0.4651232872
## 8638         1        2   0.4643922404
## 9568         1        2   0.4643922404
## 9569         1        2   0.4643080665
## 8654         1        2   0.4638499168
## 9061         1        2   0.4635311606
## 9132         1        2   0.4635294586
## 8822         1        2   0.4626897834
## 11246        1        2   0.4626259392
## 8701         1        2   0.4625813547
## 8614         1        2   0.4617313239
## 9062         1        2   0.4616266656
## 12132        1        2   0.4615839042
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## 9178         1        2   0.4609888079
## 19755        1        2   0.4609576860
## 8978         1        2   0.4609235765
## 10467        1        2   0.4608620397
## 9188         1        2   0.4608518746
## 8817         1        2   0.4608422338
## 9133         1        2   0.4606921001
## 9505         1        2   0.4605461812
## 9321         1        2   0.4604005798
## 8690         1        2   0.4602859972
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## 9179         1        2   0.4599360873
## 11247        1        2   0.4599328638
## 9646         1        2   0.4594242078
## 9239         1        2   0.4594207872
## 9932         1        2   0.4594166850
## 9240         1        2   0.4589685885
## 9176         1        2   0.4588691266
## 8853         1        2   0.4584066984
## 9187         1        2   0.4583218803
## 8854         1        2   0.4582790081
## 8976         1        2   0.4582676349
## 9175         1        2   0.4582306209
## 9189         1        2   0.4576084709
## 9397         1        2   0.4575348550
## 9190         1        2   0.4566765167
## 9238         1        2   0.4566724768
## 11731        1        2   0.4558410267
## 9595         1        2   0.4548571999
```

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## 8703       1       2    0.4547716034
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## 8961       1       2    0.4547239995
## 9089       1       2    0.4545609784
## 9317       1       2    0.4540992795
## 9618       1       2    0.4540813547
## 9277       1       2    0.4540209253
## 9200       1       2    0.4538749600
## 9619       1       2    0.4538590851
## 9197       1       2    0.4538527875
## 8882       1       2    0.4537393979
## 9201       1       2    0.4537090147
## 11014      1       2    0.4536635112
## 8818       1       2    0.4536463606
## 9429       1       2    0.4533362427
## 9316       1       2    0.4529737802
## 9620       1       2    0.4529593833
## 12157      1       2    0.4529478299
## 9318       1       2    0.4529360042
## 9643       1       2    0.4527520362
## 8824       1       2    0.4525450884
## 8881       1       2    0.4525238560
## 9196       1       2    0.4524167745
## 9199       1       2    0.4518362180
## 9115       1       2    0.4518315717
## 9177       1       2    0.4514361743
## 9174       1       2    0.4513839929
## 8880       1       2    0.4513561640
## 9398       1       2    0.4513483139
## 9075       1       2    0.4512764800
## 8963       1       2    0.4511995053
## 9621       1       2    0.4511832788
## 9195       1       2    0.4506196337
## 9597       1       2    0.4504541123
## 9191       1       2    0.4503515218
## 9327       1       2    0.4497047374
## 11437      1       2    0.4496509478
## 16410      1       2    0.4496169339
## 9617       1       2    0.4488805044
## 9198       1       2    0.4488574791
## 9430       1       2    0.4488065029
## 9116       1       2    0.4487848620
## 9060       1       2    0.4487613405
## 9202       1       2    0.4479281411
## 8957       1       2    0.4477677260
## 10219      1       2    0.4469668192
## 9877       1       2    0.4469400772
## 9373       1       2    0.4469285029
## 9465       1       2    0.4467883338
## 9704       1       2    0.4467730936
## 9141       1       2    0.4467312157
## 9687       1       2    0.4466801613
## 9063       1       2    0.4465787119
## 9108       1       2    0.4465150783
```

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## 8990        1        2    0.4463159517
## 8884        1        2    0.4462105249
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## 9622        1        2    0.4458099562
## 9431        1        2    0.4457725166
## 11015       1        2    0.4455435232
## 10692       1        2    0.4455405759
## 8958        1        2    0.4446234112
## 9319        1        2    0.4445893419
## 9114        1        2    0.4444274774
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## 8988        1        2    0.4441872399
## 9432        1        2    0.4441520719
## 9261        1        2    0.4440741921
## 9702        1        2    0.4440185342
## 9374        1        2    0.4440092323
## 11172       1        2    0.4435245395
## 9180        1        2    0.4435131157
## 8959        1        2    0.4434869024
## 9372        1        2    0.4434645393
## 16411       1        2    0.4434087271
## 9296        1        2    0.4433717539
## 8941        1        2    0.4426775053
## 9107        1        2    0.4426736117
## 9876        1        2    0.4426595172
## 9315        1        2    0.4421256833
## 9701        1        2    0.4417645855
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## 8883        1        2    0.4406303906
## 9703        1        2    0.4397571305
## 10534       1        2    0.4396967494
## 10535       1        2    0.4396947774
## 10021       1        2    0.4396837658
## 9266        1        2    0.4396816382
## 8885        1        2    0.4396696566
## 8927        1        2    0.4396273756
## 9466        1        2    0.4396226256
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## 9074        1        2    0.4394916520
## 11016       1        2    0.4394731249
## 9401        1        2    0.4392749749
## 9442        1        2    0.4392538761
## 9439        1        2    0.4390204338
## 9246        1        2    0.4389963656
## 9265        1        2    0.4389514799
## 16413       1        2    0.4389514799
```

```
## 8973        1        2   0.4386633581
## 9440        1        2   0.4386521780
## 9705        1        2   0.4386061375
## 9304        1        2   0.4385504118
## 10993       1        2   0.4385353343
## 16412       1        2   0.4385305062
## 11519       1        2   0.4384936935
## 9392        1        2   0.4384598234
## 9142        1        2   0.4381562570
## 9064        1        2   0.4381330971
## 9264        1        2   0.4381301141
## 8935        1        2   0.4379940055
## 9470        1        2   0.4375939997
## 12158       1        2   0.4375804443
## 9464        1        2   0.4374922863
## 9944        1        2   0.4374242813
## 9467        1        2   0.4374093241
## 9478        1        2   0.4369734705
## 8960        1        2   0.4369502991
## 9073        1        2   0.4369477210
## 9469        1        2   0.4368735251
## 11573       1        2   0.4368562612
## 8928        1        2   0.4362331787
## 9438        1        2   0.4354410296
## 9263        1        2   0.4352834199
## 9648        1        2   0.4351971712
## 9514        1        2   0.4350112409
## 10536       1        2   0.4343673718
## 9267        1        2   0.4336471526
## 9065        1        2   0.4325890467
## 9268        1        2   0.4324414688
## 9145        1        2   0.4324081790
## 11337       1        2   0.4323286453
## 14341       1        2   0.4322971718
## 9909        1        2   0.4322635376
## 9444        1        2   0.4322630594
## 9067        1        2   0.4322511947
## 9271        1        2   0.4322502804
## 9077        1        2   0.4321597159
## 9472        1        2   0.4321483233
## 9446        1        2   0.4320776967
## 9273        1        2   0.4319587993
## 9076        1        2   0.4319558845
## 9445        1        2   0.4318597749
## 9908        1        2   0.4318116831
## 9143        1        2   0.4315719854
## 9471        1        2   0.4315590946
## 11700       1        2   0.4315564653
## 11701       1        2   0.4315544031
## 10855       1        2   0.4315040340
## 9468        1        2   0.4314832732
## 11512       1        2   0.4312046091
## 9885        1        2   0.4311952145
## 12412       1        2   0.4311742314
```

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## 9215         1         2   0.4311361126
## 9443         1         2   0.4307372341
## 9066         1         2   0.4306557745
## 9498         1         2   0.4306315382
## 9258         1         2   0.4306313258
## 9058         1         2   0.4306154186
## 9441         1         2   0.4303696203
## 12413        1         2   0.4302838622
## 9269         1         2   0.4301713908
## 9496         1         2   0.4301664554
## 9270         1         2   0.4296052549
## 9118         1         2   0.4295047342
## 9056         1         2   0.4294494945
## 9473         1         2   0.4288337715
## 8936         1         2   0.4288216890
## 9247         1         2   0.4288203378
## 9057         1         2   0.4280884294
## 9156         1         2   0.4279379464
## 12414        1         2   0.4272077366
## 9402         1         2   0.4271763969
## 9447         1         2   0.4270130759
## 9093         1         2   0.4270037014
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## 9276         1         2   0.4246333668
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## 9476         1         2   0.4241277515
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## 9497         1         2   0.4239220603
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## 9475         1         2   0.4237012589
## 9528         1         2   0.4236792945
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## 9910         1         2   0.4220990721
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```

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## 11702       1       2   0.4219324547
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## 8972        1       2   0.4194238775
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## 8991        1       2   0.4185500514
## 9527        1       2   0.4185331225
## 9911        1       2   0.4177310805
## 9337        1       2   0.4175397002
## 10048       1       2   0.4171300280
## 11945       1       2   0.4171300280
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## 9375        1       2   0.4170449679
## 10423       1       2   0.4169919099
## 9376        1       2   0.4168901212
## 9259        1       2   0.4167015298
## 10047       1       2   0.4165516161
## 9216        1       2   0.4165363998
## 11018       1       2   0.4164840062
## 9390        1       2   0.4164828873
## 9329        1       2   0.4164676567
## 9532        1       2   0.4164342828
## 17082       1       2   0.4161123097
## 10857       1       2   0.4160890166
## 9531        1       2   0.4160741982
## 9262        1       2   0.4159998326
## 9414        1       2   0.4155323253
## 10049       1       2   0.4155192698
## 10856       1       2   0.4153687206
## 11017       1       2   0.4152819664
## 9630        1       2   0.4150844868
## 9391        1       2   0.4144321033
## 9533        1       2   0.4143371071
## 9407        1       2   0.4142829401
## 9136        1       2   0.4137183240
## 12159       1       2   0.4137099994
## 9582        1       2   0.4136715949
## 9328        1       2   0.4136347018
## 9214        1       2   0.4136312495
## 9501        1       2   0.4136144468
## 9120        1       2   0.4130153781
## 9330        1       2   0.4129890295
## 9301        1       2   0.4129608280
## 11819       1       2   0.4128935555
## 10050       1       2   0.4127904692
## 9500        1       2   0.4120448980
## 12160       1       2   0.4111618916
## 9302        1       2   0.4111066336
## 12826       1       2   0.4101439300
## 9360        1       2   0.4099904527
## 9209        1       2   0.4099854118
## 9509        1       2   0.4093771484
```

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## 10009      1      2   0.4093589650
## 9181       1      2   0.4093566606
## 9331       1      2   0.4093388664
## 12827      1      2   0.4093304227
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## 9632       1      2   0.4093066683
## 9583       1      2   0.4092400440
## 12143      1      2   0.4092292234
## 9631       1      2   0.4091981277
## 9241       1      2   0.4091258552
## 12564      1      2   0.4089232776
## 9364       1      2   0.4089006920
## 9121       1      2   0.4088787050
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## 9332       1      2   0.4085591963
## 9563       1      2   0.4081510098
## 9633       1      2   0.4078333113
## 9348       1      2   0.4078276170
## 9110       1      2   0.4077489254
## 9213       1      2   0.4077483548
## 9474       1      2   0.4076479985
## 11019      1      2   0.4067533934
## 9611       1      2   0.4067000493
## 12161      1      2   0.4066903689
## 10051      1      2   0.4066667467
## 9242       1      2   0.4066356304
## 9182       1      2   0.4066014383
## 9610       1      2   0.4065546852
## 9562       1      2   0.4060059635
## 11409      1      2   0.4058527509
## 9534       1      2   0.4052348793
## 10011      1      2   0.4052121338
## 9535       1      2   0.4051644935
## 10010      1      2   0.4044049748
## 10858      1      2   0.4043062503
## 9499       1      2   0.4042680517
## 9210       1      2   0.4042095246
## 18577      1      2   0.4032543109
## 9123       1      2   0.4023115097
## 9137       1      2   0.4022433786
## 9249       1      2   0.4014436155
## 9297       1      2   0.4014242155
## 11410      1      2   0.4014202463
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## 9603       1      2   0.4014196760
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## 9510       1      2   0.4013782998
## 9138       1      2   0.4013633349
## 11886      1      2   0.4013418480
## 9184       1      2   0.4012272631
## 9996       1      2   0.4012070074
## 18628      1      2   0.4011842510
## 12163      1      2   0.4011769580
```

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## 9412     1     2   0.4011386479
## 9675     1     2   0.4010704297
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## 9183     1     2   0.4002851790
## 9122     1     2   0.4002439738
## 9366     1     2   0.4000889741
## 18576    1     2   0.4000501562
## 17083    1     2   0.3999465689
## 9975     1     2   0.3998557551
## 9676     1     2   0.3993110183
## 9383     1     2   0.3992655792
## 9677     1     2   0.3992442928
## 9512     1     2   0.3992294249
## 9608     1     2   0.3992215874
## 10059    1     2   0.3987928536
## 9609     1     2   0.3980879952
## 9605     1     2   0.3980874097
## 9282     1     2   0.3979546683
## 9305     1     2   0.3973510477
## 9674     1     2   0.3973124835
## 9185     1     2   0.3971405273
## 9303     1     2   0.3954000704
## 10859    1     2   0.3945653654
## 9607     1     2   0.3945321040
## 9186     1     2   0.3944967973
## 9604     1     2   0.3943896756
## 18629    1     2   0.3943803106
## 9997     1     2   0.3943282642
## 9681     1     2   0.3933484205
## 9361     1     2   0.3933460829
## 9652     1     2   0.3933256851
## 12162    1     2   0.3933223790
## 9307     1     2   0.3932840542
## 9653     1     2   0.3932308502
## 9194     1     2   0.3932268116
## 9437     1     2   0.3932194166
## 9651     1     2   0.3931962526
## 9193     1     2   0.3931943920
## 9251     1     2   0.3931699299
## 12273    1     2   0.3929794405
## 9415     1     2   0.3929597769
## 9308     1     2   0.3929500335
## 12272    1     2   0.3929284297
## 9309     1     2   0.3927037186
## 9462     1     2   0.3926722636
## 9192     1     2   0.3926568994
## 9250     1     2   0.3922864489
## 12274    1     2   0.3918541069
## 11684    1     2   0.3917959709
## 9511     1     2   0.3917887958
## 9306     1     2   0.3917804984
## 12271    1     2   0.3917101618
## 10470    1     2   0.3917057275
```

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## 9245        1        2   0.3913272195
## 9435        1        2   0.3913066826
## 9314        1        2   0.3912830261
## 9463        1        2   0.3912661565
## 9244        1        2   0.3912654183
## 9679        1        2   0.3912625296
## 9278        1        2   0.3912190583
## 9243        1        2   0.3911772568
## 10861       1        2   0.3907818543
## 12894       1        2   0.3906637753
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## 10191       1        2   0.3900041595
## 12949       1        2   0.3898338143
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## 9377        1        2   0.3884441994
## 9519        1        2   0.3884285524
## 9436        1        2   0.3875560043
## 9612        1        2   0.3875370141
## 9461        1        2   0.3875251442
## 9378        1        2   0.3873530021
## 9411        1        2   0.3873324644
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## 9257        1        2   0.3850909497
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## 9287        1        2   0.3849660189
## 9495        1        2   0.3849175172
## 9253        1        2   0.3848582768
## 9658        1        2   0.3848222222
## 9816        1        2   0.3847382671
## 9659        1        2   0.3845394815
## 11659       1        2   0.3844871582
## 9490        1        2   0.3844376104
## 9539        1        2   0.3844050014
## 9655        1        2   0.3843673513
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## 9678        1        2   0.3842432559
## 18732       1        2   0.3840841188
## 10075       1        2   0.3836942014
## 9493        1        2   0.3836732957
## 9492        1        2   0.3836224641
## 10074       1        2   0.3835942734
## 9491        1        2   0.3831947118
## 9254        1        2   0.3831914857
## 10073       1        2   0.3831803477
## 10862       1        2   0.3830081701
## 9943        1        2   0.3825834173
## 9252        1        2   0.3824632379
## 9545        1        2   0.3824200671
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```

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## 9489         1         2    0.3817285644
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## 9284         1         2    0.3811631048
## 9413         1         2    0.3809729422
## 9552         1         2    0.3809282844
## 10072        1         2    0.3801813494
## 9289         1         2    0.3793239678
## 12275        1         2    0.3792158367
## 9551         1         2    0.3791983286
## 9283         1         2    0.3773676391
## 9520         1         2    0.3772254649
## 9742         1         2    0.3772030312
## 9255         1         2    0.3771903243
## 13017        1         2    0.3767926525
## 9593         1         2    0.3767368082
## 9455         1         2    0.3767069463
## 9817         1         2    0.3767069340
## 9577         1         2    0.3766713837
## 9714         1         2    0.3766519897
## 10289        1         2    0.3766375027
## 9290         1         2    0.3766301789
## 10864        1         2    0.3765793947
## 12276        1         2    0.3764158916
## 9661         1         2    0.3763617137
## 10312        1         2    0.3763462469
## 9507         1         2    0.3763361877
## 9450         1         2    0.3763288616
## 9494         1         2    0.3763235456
## 10151        1         2    0.3763234311
## 9576         1         2    0.3760861478
## 9285         1         2    0.3760560836
## 9293         1         2    0.3758141220
## 9449         1         2    0.3757134533
## 9538         1         2    0.3753833329
## 9324         1         2    0.3752287340
## 9288         1         2    0.3751539160
## 9325         1         2    0.3747940686
## 9554         1         2    0.3747350441
## 9456         1         2    0.3746764352
## 9715         1         2    0.3742202512
## 9312         1         2    0.3741776178
## 10966        1         2    0.3741765992
## 9553         1         2    0.3741449734
## 9656         1         2    0.3739859113
## 9291         1         2    0.3735214095
## 9326         1         2    0.3734841793
## 9389         1         2    0.3728312292
## 10863        1         2    0.3727879001
## 9286         1         2    0.3727469186
## 9537         1         2    0.3727391495
## 9594         1         2    0.3726638134
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## 9313         1         2    0.3719791092
## 9716         1         2    0.3719228044
```

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## 9662       1         2   0.3717772430
## 9689       1         2   0.3701828058
## 9657       1         2   0.3701618957
## 11114      1         2   0.3701400405
## 9349       1         2   0.3699468963
## 9334       1         2   0.3699295980
## 9336       1         2   0.3699012386
## 18733      1         2   0.3689559483
## 18734      1         2   0.3689469654
## 9354       1         2   0.3683156885
## 9624       1         2   0.3682783882
## 9382       1         2   0.3682400109
## 9560       1         2   0.3681678505
## 9557       1         2   0.3681445745
## 10076      1         2   0.3681345703
## 9369       1         2   0.3680733564
## 9380       1         2   0.3679507770
## 17085      1         2   0.3679022502
## 13171      1         2   0.3678701650
## 9335       1         2   0.3678413073
## 9592       1         2   0.3678368201
## 17084      1         2   0.3678202879
## 9333       1         2   0.3678154346
## 10152      1         2   0.3677833152
## 9558       1         2   0.3676625238
## 9645       1         2   0.3676402642
## 9725       1         2   0.3673421310
## 9579       1         2   0.3672768590
## 9555       1         2   0.3672767717
## 9660       1         2   0.3672607505
## 10079      1         2   0.3672557575
## 9292       1         2   0.3669353377
## 9359       1         2   0.3668346024
## 9724       1         2   0.3668346024
## 9750       1         2   0.3668179609
## 9559       1         2   0.3666704891
## 9723       1         2   0.3662209316
## 9556       1         2   0.3657870492
## 13728      1         2   0.3657550378
## 9947       1         2   0.3656951047
## 9719       1         2   0.3656184292
## 10077      1         2   0.3655877071
## 9623       1         2   0.3642822429
## 13095      1         2   0.3641922892
## 9358       1         2   0.3635518241
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## 9353       1         2   0.3626747548
## 10078      1         2   0.3626430226
## 9718       1         2   0.3626335994
## 9717       1         2   0.3626029366
## 9355       1         2   0.3624475410
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## 9451       1         2   0.3617160556
```

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## 9946      1      2    0.3617030824
## 17086     1      2    0.3616950059
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## 9580      1      2    0.3607010537
## 11873     1      2    0.3606547615
## 9937      1      2    0.3596430962
## 9726      1      2    0.3596059952
## 9720      1      2    0.3595844999
## 10645     1      2    0.3595753609
## 11621     1      2    0.3595607924
## 9508      1      2    0.3595005714
## 10646     1      2    0.3594930361
## 9756      1      2    0.3594768376
## 9356      1      2    0.3594621993
## 9357      1      2    0.3594510778
## 9418      1      2    0.3592836464
## 9770      1      2    0.3592379383
## 11686     1      2    0.3592322343
## 10367     1      2    0.3592237943
## 9757      1      2    0.3592225387
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## 17087     1      2    0.3586025812
## 11849     1      2    0.3585679238
## 9581      1      2    0.3585628232
## 10081     1      2    0.3585558879
## 11847     1      2    0.3582379328
## 9421      1      2    0.3582372932
## 9749      1      2    0.3582139990
## 9403      1      2    0.3582099767
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## 9408      1      2    0.3581117879
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## 9460      1      2    0.3570414267
## 9755      1      2    0.3570414267
## 9409      1      2    0.3570202061
## 11850     1      2    0.3569973246
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## 9938      1      2    0.3564478517
## 9423      1      2    0.3563473827
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## 9536      1      2    0.3540605058
## 10647     1      2    0.3540405667
## 9459      1      2    0.3529567293
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## 9615      1      2    0.3508496604
## 9836      1      2    0.3508284245
```

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## 9517           1        2   0.3508149429
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## 10058          1        2   0.3507840689
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## 9425           1        2   0.3506590469
## 13173          1        2   0.3505581467
## 17089          1        2   0.3502430436
## 9452           1        2   0.3502400890
## 9427           1        2   0.3501512823
## 9837           1        2   0.3501512823
## 9614           1        2   0.3500873083
## 9454           1        2   0.3500868091
## 11622          1        2   0.3499927225
## 14482          1        2   0.3498852134
## 13172          1        2   0.3498182812
## 9824           1        2   0.3497602518
## 9790           1        2   0.3497486375
## 10648          1        2   0.3494655998
## 10934          1        2   0.3494581656
## 9426           1        2   0.3494429878
## 9838           1        2   0.3494127919
## 9453           1        2   0.3489837727
## 10163          1        2   0.3483884212
## 9839           1        2   0.3482801773
## 9835           1        2   0.3482311559
## 9971           1        2   0.3477199790
## 9428           1        2   0.3476940059
## 9424           1        2   0.3475819211
## 10190          1        2   0.3469930288
## 9525           1        2   0.3468703977
## 17088          1        2   0.3460341042
## 9682           1        2   0.3453748761
## 9791           1        2   0.3453207119
## 9970           1        2   0.3453120205
## 9587           1        2   0.3444240239
## 9969           1        2   0.3432128370
## 9616           1        2   0.3431877149
## 11851          1        2   0.3421867099
## 10765          1        2   0.3418725674
## 9570           1        2   0.3417024850
## 10668          1        2   0.3415673533
## 12060          1        2   0.3414559518
## 10936          1        2   0.3414538164
## 9765           1        2   0.3414211759
## 9422           1        2   0.3412590585
## 9760           1        2   0.3412465887
## 12061          1        2   0.3409044522
## 9764           1        2   0.3408050849
## 17090          1        2   0.3404229201
## 9979           1        2   0.3400264012
## 10226          1        2   0.3398837425
## 9698           1        2   0.3398794743
## 9666           1        2   0.3394919446
## 9761           1        2   0.3394715373
```

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## 9762      1      2   0.3394446369
## 12062     1      2   0.3394392419
## 17093     1      2   0.3388471950
## 9700      1      2   0.3387910061
## 9665      1      2   0.3386897215
## 11762     1      2   0.3386045735
## 17092     1      2   0.3379104318
## 9773      1      2   0.3372477212
## 9766      1      2   0.3371017659
## 10022     1      2   0.3362804562
## 9629      1      2   0.3362567311
## 9628      1      2   0.3362203410
## 10764     1      2   0.3355486211
## 9811      1      2   0.3353214430
## 9763      1      2   0.3345366880
## 9978      1      2   0.3343663490
## 12277     1      2   0.3333401680
## 17091     1      2   0.3333243812
## 9738      1      2   0.3327689776
## 9670      1      2   0.3327465299
## 9672      1      2   0.3327092705
## 10530     1      2   0.3326660797
## 9812      1      2   0.3326217579
## 10084     1      2   0.3325861765
## 9813      1      2   0.3325816841
## 9814      1      2   0.3325742140
## 9739      1      2   0.3325280459
## 10221     1      2   0.3324223341
## 17094     1      2   0.3323381988
## 9735      1      2   0.3320915987
## 10347     1      2   0.3318347037
## 12783     1      2   0.3317976700
## 9741      1      2   0.3317720740
## 9709      1      2   0.3316958453
## 9768      1      2   0.3316941976
## 9641      1      2   0.3313440186
## 9482      1      2   0.3313285892
## 9775      1      2   0.3312945744
## 9503      1      2   0.3312752946
## 9691      1      2   0.3312320024
## 10346     1      2   0.3309099686
## 9728      1      2   0.3308597952
## 9483      1      2   0.3308054885
## 17095     1      2   0.3303903602
## 9729      1      2   0.3302893251
## 9802      1      2   0.3302733651
## 9673      1      2   0.3302604645
## 9740      1      2   0.3297509923
## 9929      1      2   0.3296758321
## 9690      1      2   0.3295646966
## 9801      1      2   0.3295474132
## 9736      1      2   0.3289992150
## 9774      1      2   0.3289982682
## 11020     1      2   0.3289634177
```

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## 9737          1        2   0.3288861534
## 9627          1        2   0.3288847116
## 13730         1        2   0.3288607794
## 9847          1        2   0.3288448778
## 12278         1        2   0.3282814825
## 13729         1        2   0.3280828451
## 9640          1        2   0.3280245606
## 9727          1        2   0.3274158617
## 9481          1        2   0.3274120025
## 9769          1        2   0.3274047028
## 9626          1        2   0.3273834555
## 9928          1        2   0.3273614378
## 10083         1        2   0.3271788602
## 12287         1        2   0.3264567728
## 9730          1        2   0.3263095224
## 9815          1        2   0.3253264149
## 12415         1        2   0.3252829619
## 12288         1        2   0.3252759663
## 17926         1        2   0.3245763910
## 9767          1        2   0.3243313646
## 9671          1        2   0.3235419049
## 9780          1        2   0.3234770498
## 9753          1        2   0.3234403517
## 9927          1        2   0.3234207649
## 9754          1        2   0.3234072797
## 9896          1        2   0.3233396526
## 9484          1        2   0.3232938933
## 10068         1        2   0.3232852576
## 10513         1        2   0.3232599501
## 10867         1        2   0.3230946949
## 10964         1        2   0.3230797981
## 10384         1        2   0.3230652689
## 10767         1        2   0.3230593019
## 12784         1        2   0.3228273183
## 9779          1        2   0.3228013641
## 9488          1        2   0.3225004016
## 10222         1        2   0.3224862611
## 10766         1        2   0.3224332416
## 9644          1        2   0.3224306120
## 9639          1        2   0.3221376978
## 11021         1        2   0.3220807945
## 17927         1        2   0.3220300992
## 9731          1        2   0.3220103751
## 9926          1        2   0.3219716228
## 9804          1        2   0.3216962909
## 9669          1        2   0.3216250321
## 9834          1        2   0.3215295934
## 9781          1        2   0.3215201704
## 9518          1        2   0.3214934024
## 14155         1        2   0.3214674610
## 13503         1        2   0.3212915094
## 12280         1        2   0.3210765832
## 10071         1        2   0.3210674036
## 10514         1        2   0.3210353023
```

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## 12279          1          2   0.3209414367
## 17096          1          2   0.3205142706
## 9485           1          2   0.3204450274
## 9486           1          2   0.3204284197
## 9895           1          2   0.3203566944
## 9803           1          2   0.3197823863
## 9833           1          2   0.3197532856
## 9831           1          2   0.3196103755
## 9642           1          2   0.3190360363
## 9487           1          2   0.3189981670
## 9848           1          2   0.3189630992
## 10023          1          2   0.3188888248
## 10967          1          2   0.3173276425
## 9708           1          2   0.3171380878
## 9832           1          2   0.3171035233
## 17097          1          2   0.3161694527
## 9914           1          2   0.3151400299
## 9685           1          2   0.3140033662
## 9844           1          2   0.3139846340
## 9845           1          2   0.3139115024
## 9897           1          2   0.3138951321
## 9571           1          2   0.3138605541
## 9849           1          2   0.3138090965
## 9875           1          2   0.3137810820
## 10223          1          2   0.3134271783
## 9840           1          2   0.3133969801
## 9588           1          2   0.3133845521
## 9590           1          2   0.3133624899
## 9572           1          2   0.3133299594
## 9829           1          2   0.3131158114
## 10140          1          2   0.3130428324
## 9575           1          2   0.3129529535
## 10506          1          2   0.3127225630
## 10596          1          2   0.3126879696
## 9842           1          2   0.3126372568
## 9843           1          2   0.3125942589
## 9873           1          2   0.3125866435
## 9898           1          2   0.3122738666
## 9900           1          2   0.3121833298
## 10082          1          2   0.3121705802
## 10595          1          2   0.3121516227
## 9841           1          2   0.3121315127
## 10913          1          2   0.3117498522
## 9591           1          2   0.3117033517
## 10505          1          2   0.3116506066
## 11022          1          2   0.3115285260
## 9874           1          2   0.3103731775
## 9782           1          2   0.3102730678
## 9699           1          2   0.3102421523
## 14483          1          2   0.3102023322
## 12785          1          2   0.3101749287
## 9771           1          2   0.3094541635
## 9783           1          2   0.3088732224
## 10597          1          2   0.3088422603
```

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## 9915       1      2   0.3086932157
## 10598      1      2   0.3080034710
## 9574       1      2   0.3079300806
## 9899       1      2   0.3078174028
## 9916       1      2   0.3077587781
## 12281      1      2   0.3077483626
## 9573       1      2   0.3070963713
## 9772       1      2   0.3058896963
## 9786       1      2   0.3043665898
## 9994       1      2   0.3043569343
## 10224      1      2   0.3043450551
## 12282      1      2   0.3042863080
## 9668       1      2   0.3042479916
## 11023      1      2   0.3042145386
## 9785       1      2   0.3042037254
## 9664       1      2   0.3040270481
## 17098      1      2   0.3039961745
## 9851       1      2   0.3039929509
## 9667       1      2   0.3039535813
## 10085      1      2   0.3039241664
## 9852       1      2   0.3038266386
## 10062      1      2   0.3038203258
## 9902       1      2   0.3037799793
## 9788       1      2   0.3037481241
## 9822       1      2   0.3037431513
## 10141      1      2   0.3034505564
## 10166      1      2   0.3031722087
## 9784       1      2   0.3031195382
## 9693       1      2   0.3030322966
## 9993       1      2   0.3029945761
## 9694       1      2   0.3026677282
## 9995       1      2   0.3026510955
## 9992       1      2   0.3026323493
## 9948       1      2   0.3025283879
## 9821       1      2   0.3024875766
## 9711       1      2   0.3015121525
## 9710       1      2   0.3014952757
## 9850       1      2   0.3013488285
## 9789       1      2   0.3008513923
## 9903       1      2   0.2999643137
## 10739      1      2   0.2999331152
## 10965      1      2   0.2995406903
## 17099      1      2   0.2993514756
## 13504      1      2   0.2982771719
## 11024      1      2   0.2982624229
## 9959       1      2   0.2982612897
## 9787       1      2   0.2976037693
## 9901       1      2   0.2973977971
## 9634       1      2   0.2973519142
## 10165      1      2   0.2973175754
## 10164      1      2   0.2964095339
## 12283      1      2   0.2964080503
## 17100      1      2   0.2946191701
## 9696       1      2   0.2946026931
```

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## 11038        1        2    0.2945700874
## 9855         1        2    0.2945561556
## 12284        1        2    0.2945124276
## 10252        1        2    0.2944929683
## 11036        1        2    0.2944523084
## 9856         1        2    0.2944489994
## 12883        1        2    0.2944374654
## 14134        1        2    0.2943849739
## 9734         1        2    0.2940043420
## 10036        1        2    0.2939818443
## 9695         1        2    0.2939677063
## 10286        1        2    0.2937416100
## 9713         1        2    0.2937387098
## 10034        1        2    0.2937268446
## 11037        1        2    0.2937113006
## 10167        1        2    0.2933506218
## 9825         1        2    0.2933329826
## 10032        1        2    0.2933078325
## 9820         1        2    0.2932659582
## 9854         1        2    0.2929200651
## 13782        1        2    0.2928979417
## 9853         1        2    0.2927511350
## 9878         1        2    0.2927489128
## 14135        1        2    0.2927310267
## 13783        1        2    0.2924164859
## 10016        1        2    0.2923810977
## 10035        1        2    0.2922523314
## 10253        1        2    0.2916985566
## 13784        1        2    0.2916305048
## 9683         1        2    0.2911311667
## 9879         1        2    0.2911148245
## 9858         1        2    0.2910033938
## 10033        1        2    0.2902743665
## 9823         1        2    0.2902145290
## 9684         1        2    0.2896391874
## 10507        1        2    0.2894705137
## 9857         1        2    0.2894336876
## 10031        1        2    0.2888452406
## 9712         1        2    0.2877253055
## 9733         1        2    0.2867805663
## 10227        1        2    0.2867629214
## 13868        1        2    0.2846204046
## 10672        1        2    0.2845932312
## 9863         1        2    0.2845921501
## 10040        1        2    0.2845909215
## 10038        1        2    0.2845393135
## 9778         1        2    0.2845314521
## 11919        1        2    0.2844525763
## 10013        1        2    0.2842893446
## 9807         1        2    0.2842754900
## 9806         1        2    0.2837811356
## 12286        1        2    0.2837669470
## 9859         1        2    0.2837377807
## 10037        1        2    0.2834161411
```

```
## 9862        1        2    0.2834007281
## 9808        1        2    0.2833581024
## 9861        1        2    0.2833403984
## 9960        1        2    0.2832964950
## 10004       1        2    0.2828446422
## 11039       1        2    0.2822756146
## 10487       1        2    0.2819438277
## 17101       1        2    0.2813053979
## 9745        1        2    0.2811553695
## 9697        1        2    0.2811008778
## 9980        1        2    0.2810625062
## 9830        1        2    0.2805661246
## 9805        1        2    0.2805529253
## 9752        1        2    0.2805447196
## 9881        1        2    0.2804883341
## 9860        1        2    0.2803615226
## 10620       1        2    0.2803040796
## 10005       1        2    0.2798102330
## 9880        1        2    0.2798004002
## 10012       1        2    0.2796003047
## 9810        1        2    0.2795671790
## 9743        1        2    0.2787804903
## 9751        1        2    0.2787455591
## 12285       1        2    0.2787394481
## 10673       1        2    0.2781150517
## 10142       1        2    0.2779380499
## 9827        1        2    0.2772157628
## 9809        1        2    0.2772103306
## 9961        1        2    0.2769882632
## 10039       1        2    0.2769451155
## 9976        1        2    0.2763192418
## 9865        1        2    0.2744869374
## 9818        1        2    0.2744262271
## 9846        1        2    0.2743613837
## 9794        1        2    0.2743216270
## 9744        1        2    0.2743065386
## 10674       1        2    0.2742088584
## 9826        1        2    0.2741518964
## 9955        1        2    0.2738434603
## 10600       1        2    0.2736773186
## 9882        1        2    0.2736506228
## 9866        1        2    0.2735900773
## 9918        1        2    0.2733459022
## 9991        1        2    0.2732075442
## 9919        1        2    0.2731684265
## 9921        1        2    0.2731633584
## 9913        1        2    0.2728312738
## 17102       1        2    0.2727888180
## 10306       1        2    0.2724325117
## 9957        1        2    0.2723873813
## 9864        1        2    0.2723791698
## 9883        1        2    0.2723322969
## 10599       1        2    0.2722191625
## 10027       1        2    0.2722041004
```

```
## 10045          1          2    0.2721942321
## 9795           1          2    0.2718384017
## 9956           1          2    0.2718082340
## 9793           1          2    0.2716397860
## 10203          1          2    0.2710504210
## 9945           1          2    0.2705065786
## 9990           1          2    0.2704698994
## 10017          1          2    0.2702919812
## 13869          1          2    0.2695765258
## 9989           1          2    0.2690030259
## 12502          1          2    0.2689775915
## 10026          1          2    0.2689561995
## 9917           1          2    0.2688081179
## 10205          1          2    0.2679376076
## 9920           1          2    0.2678991284
## 10275          1          2    0.2670375273
## 10204          1          2    0.2670367317
## 15514          1          2    0.2670113382
## 9981           1          2    0.2670064805
## 10254          1          2    0.2654032561
## 10281          1          2    0.2641804297
## 12503          1          2    0.2641492410
## 10218          1          2    0.2641422001
## 12289          1          2    0.2641336053
## 10386          1          2    0.2641263150
## 9953           1          2    0.2641208843
## 10134          1          2    0.2641027839
## 9888           1          2    0.2640817713
## 10200          1          2    0.2640787674
## 9828           1          2    0.2640666006
## 10089          1          2    0.2640565880
## 9922           1          2    0.2640402410
## 10283          1          2    0.2640399462
## 9887           1          2    0.2640296680
## 10746          1          2    0.2640223859
## 11151          1          2    0.2639808376
## 12504          1          2    0.2639497157
## 10019          1          2    0.2636655719
## 10298          1          2    0.2636235142
## 10020          1          2    0.2635948214
## 10088          1          2    0.2633861718
## 9868           1          2    0.2633746551
## 9923           1          2    0.2633424518
## 10307          1          2    0.2633050465
## 9924           1          2    0.2630458619
## 10090          1          2    0.2629923875
## 10006          1          2    0.2626056324
## 9949           1          2    0.2625450315
## 9951           1          2    0.2625396424
## 10387          1          2    0.2624946422
## 10280          1          2    0.2621322002
## 12336          1          2    0.2621212254
## 9886           1          2    0.2621149096
## 9798           1          2    0.2619675010
```

```
## 10135       1       2    0.2615721439
## 9799        1       2    0.2615397110
## 9869        1       2    0.2614655858
## 10018       1       2    0.2614376266
## 11887       1       2    0.2609755884
## 9867        1       2    0.2608029820
## 9797        1       2    0.2607973416
## 10601       1       2    0.2602754361
## 11181       1       2    0.2601250873
## 12624       1       2    0.2600564958
## 10279       1       2    0.2596005885
## 9796        1       2    0.2595596106
## 9952        1       2    0.2593713978
## 9925        1       2    0.2593554554
## 9962        1       2    0.2588630044
## 10747       1       2    0.2586288635
## 10791       1       2    0.2585975345
## 11025       1       2    0.2585435243
## 10282       1       2    0.2585203483
## 10602       1       2    0.2578086138
## 11180       1       2    0.2578086138
## 9963        1       2    0.2571750592
## 17103       1       2    0.2562544027
## 9939        1       2    0.2553261073
## 17104       1       2    0.2536499012
## 9905        1       2    0.2536450516
## 9942        1       2    0.2535507473
## 10299       1       2    0.2535354109
## 10056       1       2    0.2534561032
## 10339       1       2    0.2534246954
## 10274       1       2    0.2533441508
## 12857       1       2    0.2532698961
## 9889        1       2    0.2531547168
## 9872        1       2    0.2531306519
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## 10103       1       2    0.2529312264
## 10217       1       2    0.2525668231
## 10340       1       2    0.2524924556
## 10792       1       2    0.2524639345
## 10155       1       2    0.2524245725
## 9950        1       2    0.2520137686
## 11152       1       2    0.2516441448
## 10300       1       2    0.2511496272
## 10309       1       2    0.2511456779
## 10091       1       2    0.2509894507
## 10104       1       2    0.2505658537
## 9870        1       2    0.2503880823
## 10308       1       2    0.2499004218
## 9871        1       2    0.2497407490
## 9941        1       2    0.2490203806
## 10285       1       2    0.2490084456
## 12884       1       2    0.2482345729
## 9954        1       2    0.2482026820
## 10284       1       2    0.2474507896
```

```
## 14578         1         2    0.2474070812
## 9964          1         2    0.2468770770
## 10092         1         2    0.2468495801
## 10301         1         2    0.2430331211
## 9936          1         2    0.2429897821
## 9985          1         2    0.2429870397
## 9965          1         2    0.2429182605
## 10363         1         2    0.2429071921
## 9983          1         2    0.2428522447
## 11154         1         2    0.2427486835
## 10153         1         2    0.2426816468
## 10156         1         2    0.2426753733
## 9986          1         2    0.2426710307
## 14924         1         2    0.2426626886
## 10342         1         2    0.2424116780
## 14926         1         2    0.2422082746
## 10008         1         2    0.2414087489
## 9966          1         2    0.2413692735
## 17918         1         2    0.2410818211
## 10341         1         2    0.2410703213
## 10105         1         2    0.2410258483
## 9988          1         2    0.2409335677
## 12505         1         2    0.2409232113
## 10362         1         2    0.2403722940
## 10343         1         2    0.2403645257
## 9987          1         2    0.2399985470
## 10302         1         2    0.2399489642
## 14925         1         2    0.2398326814
## 9984          1         2    0.2397822332
## 9967          1         2    0.2397574091
## 10061         1         2    0.2393442854
## 10303         1         2    0.2391307449
## 10245         1         2    0.2391210562
## 10554         1         2    0.2386860275
## 10025         1         2    0.2386736835
## 9958          1         2    0.2384543803
## 10748         1         2    0.2384192782
## 10052         1         2    0.2379862775
## 13870         1         2    0.2372059669
## 10106         1         2    0.2371866890
## 11153         1         2    0.2361227414
## 10259         1         2    0.2328929819
## 10157         1         2    0.2320938599
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## 10003         1         2    0.2320626694
## 10379         1         2    0.2320619346
## 10053         1         2    0.2320540747
## 10749         1         2    0.2320516268
## 12530         1         2    0.2320357515
## 10154         1         2    0.2320157173
## 10228         1         2    0.2319948201
## 9999          1         2    0.2319863779
## 9982          1         2    0.2319468933
## 10114         1         2    0.2319466219
```

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## 10057        1        2  0.2318906197
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## 10158        1        2  0.2313430377
## 10345        1        2  0.2313097952
## 10000        1        2  0.2312878647
## 10007        1        2  0.2312249896
## 17507        1        2  0.2310781165
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## 9968         1        2  0.2301083224
## 10115        1        2  0.2300603909
## 10891        1        2  0.2300578046
## 9974         1        2  0.2299630871
## 12506        1        2  0.2297552369
## 10095        1        2  0.2297048966
## 10170        1        2  0.2292314348
## 10093        1        2  0.2292179223
## 10147        1        2  0.2292024339
## 10892        1        2  0.2290034392
## 10110        1        2  0.2289646070
## 10001        1        2  0.2285928066
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## 10121        1        2  0.2277216230
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## 10246        1        2  0.2249716308
## 10380        1        2  0.2249583248
## 9998         1        2  0.2223897134
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## 10111        1        2  0.2210129943
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## 17510        1        2  0.2207561938
## 10160        1        2  0.2207379984
## 10751        1        2  0.2206456006
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## 10125        1        2  0.2205114623
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## 17508        1        2  0.2203496610
## 10054        1        2  0.2202686353
```

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## 10099          1          2    0.2196666452
## 10124          1          2    0.2196357809
## 10336          1          2    0.2195744033
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## 10116          1          2    0.2189996295
## 17509          1          2    0.2186033788
## 10796          1          2    0.2185929807
## 10041          1          2    0.2180710103
## 10381          1          2    0.2176859636
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```

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## 10131         1         2   0.2057288120
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## 10128         1         2   0.2050401401
## 10132         1         2   0.2049818596
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## 10181         1         2   0.2046301755
## 10179         1         2   0.2043482406
## 11145         1         2   0.2042867278
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## 10148         1         2   0.1982916894
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## 17512         1         2   0.1982547474
## 10188         1         2   0.1982274439
## 10214         1         2   0.1982251385
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## 10265          1          2   0.1865847204
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## 10269          1          2   0.1865049589
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## 10276          1          2   0.1861902238
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## 10238          1          2   0.1825981049
## 10268          1          2   0.1823051789
## 10270          1          2   0.1822485156
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## 10464          1          2   0.1819838943
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```

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## 10469          1          2    0.1747029980
## 10938          1          2    0.1746888723
## 10272          1          2    0.1746796092
## 10477          1          2    0.1746634807
## 10263          1          2    0.1746363748
## 10450          1          2    0.1744886833
## 11213          1          2    0.1744612985
## 10402          1          2    0.1744510366
## 11267          1          2    0.1744115321
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## 10449          1          2    0.1742993703
## 11028          1          2    0.1742320996
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## 10451          1          2    0.1739263306
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## 10567          1          2    0.1737591220
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## 10139          1          2    0.1731603717
## 10621          1          2    0.1731012398
## 10250          1          2    0.1729424628
## 10240          1          2    0.1726230032
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## 11265          1          2    0.1724841356
## 10403          1          2    0.1722801806
## 10472          1          2    0.1722461530
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## 10956          1          2    0.1720207002
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## 11266          1          2    0.1715492092
## 10137          1          2    0.1715283217
## 10329          1          2    0.1715283217
## 10452          1          2    0.1715109223
## 10255          1          2    0.1711797289
## 10622          1          2    0.1710125584
## 10260          1          2    0.1709848890
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```

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## 10331        1        2  0.1698405121
## 10404        1        2  0.1691834833
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## 10258        1        2  0.1626643546
## 10489        1        2  0.1626523524
## 10392        1        2  0.1626507194
## 12394        1        2  0.1626389324
## 10242        1        2  0.1626211633
## 12392        1        2  0.1626065562
## 11268        1        2  0.1626006058
## 10391        1        2  0.1624396184
## 10394        1        2  0.1624310511
## 12648        1        2  0.1624248743
## 17515        1        2  0.1624180641
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## 10326        1        2  0.1609359231
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## 10356        1        2  0.1605569306
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## 10393        1        2  0.1603301470
## 10210        1        2  0.1603260591
## 11207        1        2  0.1603153145
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## 10211        1        2  0.1580574194
## 11040        1        2  0.1576270874
## 10213        1        2  0.1568926067
## 10390        1        2  0.1568805540
## 15556        1        2  0.1503598890
## 10396        1        2  0.1503592290
## 10428        1        2  0.1503409632
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## 11042        1        2  0.1503282779
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```

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## 11043         1        2   0.1503186226
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## 10288         1        2   0.1502349283
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## 10427         1        2   0.1501566310
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## 10399         1        2   0.1500699208
## 11208         1        2   0.1500024081
## 10395         1        2   0.1499860604
## 10413         1        2   0.1498647585
## 10632         1        2   0.1498380896
## 10685         1        2   0.1497618368
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## 10262         1        2   0.1494268099
## 12395         1        2   0.1493951770
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## 10385         1        2   0.1462429171
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## 10287         1        2   0.1460979167
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## 10651         1        2   0.1432184949
## 10373         1        2   0.1378835089
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## 10433         1        2   0.1377935460
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```

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## 12155          1          2    0.1250321792
## 10354          1          2    0.1249851032
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## 10695          1          2    0.1249753292
## 10441          1          2    0.1248984664
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## 10653          1          2    0.1247606267
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```

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## 10698        1        2    0.1119964795
## 10436        1        2    0.1119819825
## 10700        1        2    0.1119775908
## 10510        1        2    0.1119754773
## 11368        1        2    0.1119702039
## 14521        1        2    0.1118665305
## 10733        1        2    0.1118104260
## 10623        1        2    0.1117075202
## 12399        1        2    0.1116966861
## 10815        1        2    0.1116651167
## 10778        1        2    0.1115556771
## 10456        1        2    0.1115416678
## 10502        1        2    0.1115050687
## 10637        1        2    0.1113403159
## 12380        1        2    0.1113248949
## 10697        1        2    0.1113214531
```

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## 10779            1          2   0.1113088473
## 10635            1          2   0.1111096137
## 10511            1          2   0.1110916493
## 17519            1          2   0.1110852040
## 13630            1          2   0.1110774328
## 10458            1          2   0.1110579051
## 10533            1          2   0.1107837581
## 11034            1          2   0.1105133646
## 10499            1          2   0.1105092649
## 10636            1          2   0.1104995641
## 10691            1          2   0.1104816114
## 10503            1          2   0.1104762714
## 11339            1          2   0.1098432301
## 13629            1          2   0.1098017901
## 10447            1          2   0.1094985971
## 10420            1          2   0.1094920147
## 10699            1          2   0.1094685163
## 10701            1          2   0.1087361052
## 10405            1          2   0.1083113100
## 10445            1          2   0.1078524167
## 11345            1          2   0.0990398604
## 10545            1          2   0.0990381887
## 10461            1          2   0.0990267722
## 10546            1          2   0.0990251019
## 11462            1          2   0.0990146935
## 10639            1          2   0.0990047083
## 10408            1          2   0.0989897326
## 10407            1          2   0.0989786022
## 12401            1          2   0.0989464126
## 10518            1          2   0.0989445833
## 10434            1          2   0.0989269140
## 11341            1          2   0.0989041316
## 11156            1          2   0.0988611924
## 12384            1          2   0.0988580922
## 10640            1          2   0.0988424848
## 12385            1          2   0.0987576340
## 11295            1          2   0.0987462896
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## 10437            1          2   0.0986230996
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## 10519            1          2   0.0984462352
## 10520            1          2   0.0984460506
## 16000            1          2   0.0984421670
## 10544            1          2   0.0982766089
## 10593            1          2   0.0982401708
## 12382            1          2   0.0980628816
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## 10811            1          2   0.0980496007
## 10786            1          2   0.0980454356
## 15813            1          2   0.0978515900
## 15814            1          2   0.0978412664
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## 10885            1          2   0.0978064802
## 12381            1          2   0.0975032866
```

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## 10517         1         2    0.0972557646
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## 11030         1         2    0.0972204605
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## 11344         1         2    0.0966905744
## 10594         1         2    0.0966169122
## 10774         1         2    0.0966169122
## 10459         1         2    0.0959185686
## 10780         1         2    0.0856556668
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## 10783         1         2    0.0856314022
## 10735         1         2    0.0856199518
## 10563         1         2    0.0856168563
## 10784         1         2    0.0855820625
## 10781         1         2    0.0855559910
## 12402         1         2    0.0853916841
## 17520         1         2    0.0853883833
## 10757         1         2    0.0852855560
## 10756         1         2    0.0851759819
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## 15083         1         2    0.0851506846
## 10607         1         2    0.0851100177
## 10604         1         2    0.0849662695
## 11193         1         2    0.0848594563
## 10562         1         2    0.0847689327
## 10605         1         2    0.0846567806
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## 10606         1         2    0.0845787437
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## 10522         1         2    0.0844302969
## 10608         1         2    0.0843623470
## 10462         1         2    0.0843612916
## 17521         1         2    0.0842372531
## 10463         1         2    0.0842279862
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```

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## 10790       1          2    0.0717135989
## 12404       1          2    0.0716772070
## 10565       1          2    0.0716714465
## 11888       1          2    0.0715780622
## 10946       1          2    0.0715526947
## 10529       1          2    0.0715510792
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## 10737       1          2    0.0581996663
## 10564       1          2    0.0581915951
## 17522       1          2    0.0581715079
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## 14884       1          2    0.0581368968
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## 10745       1          2    0.0581144338
## 10709       1          2    0.0581087340
## 10843       1          2    0.0580998024
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```

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## 11177        1        2   0.0441835844
## 11783        1        2   0.0441742128
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## 10683        1        2   0.0441446904
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## 10715        1        2   0.0436529494
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## 10682        1        2   0.0435559287
## 10763        1        2   0.0435533686
## 10642        1        2   0.0435533572
## 11534        1        2   0.0434581377
## 10615        1        2   0.0434550497
## 10610        1        2   0.0434515342
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## 16370        1        2   0.0431004255
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```

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## 18640       2       1   0.7483535008
## 22150       2       1   0.7483075535
## 18327       2       1   0.7482650048
## 18324       2       1   0.7482549389
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## 18405       2       1   0.7481975794
## 19106       2       1   0.7481895674
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## 21886       2       1   0.7481720556
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## 24857       2       1   0.7479252955
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## 21746       2       1   0.7478206687
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```

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## 18220        2           1   0.7476957185
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## 18402        2           1   0.7475843755
## 18330        2           1   0.7475741566
## 18704        2           1   0.7475682422
## 18445        2           1   0.7475598481
## 18703        2           1   0.7475592554
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## 18217        2           1   0.7475529325
## 18394        2           1   0.7475320238
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## 20640        2           1   0.7474732386
## 18451        2           3   0.7474723541
## 18213        2           1   0.7474684436
## 18367        2           1   0.7474597639
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## 18243        2           1   0.7473256517
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## 18197        2           1   0.7472363390
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```

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## 18192          2          1    0.7470417692
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## 18781          2          1    0.7465396589
## 18181          2          1    0.7465391689
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```

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```

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## 18811       2        1   0.7454770089
```

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## 19683      2      1   0.7452455680
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```

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```

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```

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```

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```

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```

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## 20256          2          1     0.7405057496
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## 17994          2          1     0.7404739814
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## 17871          2          1     0.7404005432
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## 18826          2          3     0.7403830051
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## 18265          2          1     0.7402273019
## 18891          2          3     0.7402248017
## 18454          2          1     0.7402203595
## 27594          2          3     0.7402186294
## 18571          2          3     0.7402164325
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## 18184          2          1     0.7401757018
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## 23420          2          3    0.7372233281
## 18822          2          3    0.7372203316
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## 18667          2          3    0.7371716866
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```

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```

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## 18849        2        3    0.7359775470
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## 23525        2        1    0.7355571093
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## 19097          2          3    0.7354076680
## 18926          2          3    0.7354008735
## 17367          2          1    0.7353925128
## 18678          2          3    0.7353737966
## 17415          2          1    0.7353672595
## 19121          2          1    0.7353554373
## 18420          2          1    0.7353270228
## 17468          2          1    0.7353150166
## 18838          2          3    0.7352790748
## 18748          2          3    0.7352570258
## 18816          2          3    0.7352310278
## 18031          2          1    0.7351952888
## 19854          2          1    0.7351704961
## 18758          2          3    0.7351627812
## 17806          2          1    0.7351555436
## 23641          2          1    0.7351459506
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## 18624          2          1    0.7351196891
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## 19262          2          3    0.7350667955
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## 17556          2          1    0.7346612499
```

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```

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## 18817      2      3   0.7336269631
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## 17336      2      1   0.7336131966
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## 22162      2      3   0.7336002896
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## 17557      2      1   0.7334573838
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```

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```

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## 18871        2         1   0.7324797690
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## 17315        2         1   0.7323620581
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## 17326        2         1   0.7322555698
## 18840        2         3   0.7322544828
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## 18996        2         3   0.7322252436
## 18659        2         3   0.7322218841
## 17017        2         1   0.7321990528
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## 17257        2         1   0.7320054308
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```

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## 18860       2          3   0.7317405789
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## 17327       2          1   0.7315478942
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## 17348       2          1   0.7315032940
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```

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## 19394          2          1    0.7309625496
## 17344          2          1    0.7309560494
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## 16960          2          1    0.7307274289
## 19483          2          3    0.7307209800
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```

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```

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## 17289          2          1  0.7292832176
## 22164          2          3  0.7292831424
## 17497          2          1  0.7292687653
## 16900          2          1  0.7292111726
## 17602          2          1  0.7292094806
## 17288          2          1  0.7292021777
## 20923          2          1  0.7291899410
## 18137          2          1  0.7291874191
## 17930          2          1  0.7291245104
## 17303          2          1  0.7291092896
## 17171          2          1  0.7290967627
## 17567          2          1  0.7290840118
## 19808          2          1  0.7290757169
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## 19401          2          1  0.7289440401
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## 18757          2          3  0.7289287725
## 19068          2          3  0.7288959871
## 18858          2          3  0.7288941552
## 20861          2          3  0.7288699472
## 17397          2          1  0.7288674176
## 23313          2          3  0.7288585281
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## 17253          2          1  0.7288356756
## 17113          2          1  0.7288338267
## 17379          2          1  0.7288267624
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## 17175          2          1  0.7287736769
## 19757          2          1  0.7287558396
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## 17226          2          1  0.7285757918
```

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## 20859      2          3    0.7283876408
## 19157      2          3    0.7283542690
## 19909      2          1    0.7283535349
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## 20826      2          3    0.7281555151
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## 23157      2          1    0.7280305457
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## 19554      2          1    0.7280165351
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## 19120      2          3    0.7279734898
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```

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## 17669    2        1   0.7278177457
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## 17196    2        1   0.7276038499
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## 16885    2        1   0.7275293327
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## 16899    2        1   0.7275083768
## 16860    2        1   0.7274783173
## 17198    2        1   0.7274512262
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## 20825    2        3   0.7274140419
## 20802    2        3   0.7274033888
## 19049    2        3   0.7273951466
## 25798    2        3   0.7273886139
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## 17173    2        1   0.7272274345
## 26050    2        3   0.7270559566
## 18861    2        3   0.7270415163
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## 19184    2        3   0.7270189823
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```

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## 22757        2        1    0.7269219525
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```

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## 17018       2       1   0.7260503857
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## 18839       2       3   0.7260257546
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## 21596       2       3   0.7259959363
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```

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## 26049      2        3   0.7253006900
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## 19094      2        3   0.7252662247
## 17131      2        1   0.7252305983
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```

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## 19487         2         3    0.7244861572
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## 17049         2         1    0.7244028026
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## 16914         2         1    0.7243832988
## 16708         2         1    0.7243832471
## 17154         2         1    0.7243137258
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## 22536         2         1    0.7242968599
## 16869         2         1    0.7242906231
## 16932         2         1    0.7242710320
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## 19016         2         3    0.7242488325
## 19159         2         3    0.7242488241
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## 19316         2         3    0.7242089586
## 19584         2         3    0.7242077106
## 19039         2         3    0.7241955960
## 24088         2         3    0.7241919247
## 20749         2         3    0.7241856355
## 19237         2         3    0.7241744784
## 20669         2         3    0.7241690694
## 19629         2         3    0.7241418479
## 19317         2         3    0.7241266612
## 17727         2         1    0.7240926111
## 19059         2         3    0.7240690590
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## 20096         2         1    0.7240080322
## 17054         2         1    0.7240032597
## 19122         2         3    0.7239840902
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## 16982         2         1    0.7239684697
## 16679         2         1    0.7239631645
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## 19060         2         3    0.7239109663
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## 19055         2         3    0.7238864130
## 16726         2         1    0.7237676122
## 18765         2         1    0.7236940771
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## 16810         2         1    0.7236829265
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```

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## 19843          2           3   0.7236726445
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## 17214          2           1   0.7236397133
## 19057          2           3   0.7236327978
## 16678          2           1   0.7236159323
## 17177          2           1   0.7236149488
## 17078          2           1   0.7236144880
## 17042          2           1   0.7235999176
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## 16791          2           1   0.7235851947
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## 16696          2           1   0.7234601420
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## 16593          2           1   0.7234090157
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## 22756          2           1   0.7234071962
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## 19145          2           3   0.7233635872
## 19583          2           3   0.7233554423
## 19185          2           3   0.7233458592
## 19738          2           3   0.7233184199
## 19488          2           3   0.7233077103
## 19386          2           1   0.7233044537
## 19151          2           3   0.7233004447
## 17346          2           1   0.7232764482
## 19268          2           3   0.7232678292
## 19680          2           3   0.7232636637
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## 18948          2           3   0.7232433564
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```

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```

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## 17232      2      1   0.7217104714
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## 17044      2      1   0.7216260139
## 19799      2      3   0.7215953358
## 19189      2      3   0.7215692387
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## 20956      2      3   0.7215532513
## 16724      2      1   0.7215482373
## 19175      2      3   0.7215254896
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## 19567      2      3   0.7212094643
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## 20129      2      3   0.7212036993
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```

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```

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```

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## 19410      2       3   0.7176245302
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## 16851      2       1   0.7175620933
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## 20131      2       3   0.7175451622
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```

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## 19131          2          3   0.7168250315
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## 16664          2          1   0.7159749276
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## 16555          2          1   0.7159084265
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```

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## 16581       2        1    0.7137562614
## 19594       2        1    0.7137425186
## 20960       2        3    0.7137168765
## 16464       2        1    0.7137159094
## 20633       2        3    0.7137024037
## 16777       2        1    0.7136085431
## 16478       2        1    0.7135698963
## 16519       2        1    0.7135680979
## 16639       2        1    0.7135346884
## 16603       2        1    0.7135025070
## 16602       2        1    0.7133543719
## 16604       2        1    0.7133023958
## 19415       2        3    0.7132954671
## 16553       2        1    0.7132637534
## 16422       2        1    0.7132520891
## 22578       2        3    0.7132491568
## 16254       2        1    0.7132465580
## 16421       2        1    0.7132328725
## 22396       2        1    0.7132323387
## 19715       2        3    0.7132301662
## 20245       2        3    0.7132215469
## 16634       2        1    0.7132211309
## 19417       2        3    0.7132063904
## 19742       2        3    0.7131757955
## 16434       2        1    0.7131748768
## 20549       2        3    0.7131569244
## 19464       2        3    0.7131546554
## 19892       2        3    0.7131537676
```

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## 26583        2           3   0.7131457908
## 16579        2           1   0.7131273386
## 19550        2           3   0.7131210799
## 16644        2           1   0.7131207802
## 19890        2           3   0.7131191082
## 19706        2           3   0.7131113316
## 20248        2           3   0.7131053246
## 20251        2           3   0.7131036167
## 22050        2           1   0.7130900131
## 19699        2           3   0.7130774915
## 19244        2           1   0.7130733854
## 16409        2           1   0.7130492685
## 18496        2           1   0.7130478777
## 16580        2           1   0.7130445616
## 19463        2           3   0.7130281464
## 19657        2           1   0.7130016486
## 16601        2           1   0.7130011987
## 16967        2           1   0.7129983105
## 19205        2           3   0.7129764562
## 16659        2           1   0.7129752445
## 16527        2           1   0.7129322752
## 19467        2           3   0.7129286612
## 24212        2           3   0.7128623643
## 16866        2           1   0.7128606766
## 19314        2           3   0.7128419914
## 26584        2           3   0.7128408703
## 19250        2           3   0.7128072704
## 16631        2           1   0.7127712520
## 19378        2           3   0.7126453240
## 16447        2           1   0.7126362874
## 16232        2           1   0.7126313863
## 19891        2           3   0.7126312848
## 21147        2           3   0.7126266445
## 16375        2           1   0.7126238344
## 19465        2           3   0.7126164423
## 16496        2           1   0.7126140541
## 16401        2           1   0.7126130392
## 16433        2           1   0.7125958782
## 17296        2           1   0.7125874443
## 18498        2           1   0.7125784730
## 18024        2           1   0.7125746127
## 16291        2           1   0.7125658671
## 20384        2           1   0.7125546539
## 16289        2           1   0.7125545045
## 16893        2           1   0.7125481074
## 20381        2           1   0.7125357718
## 19740        2           3   0.7125279672
## 16210        2           1   0.7125278027
## 16211        2           1   0.7125274025
## 16570        2           1   0.7125101894
## 17552        2           1   0.7125056335
## 16463        2           1   0.7124975985
## 16813        2           1   0.7124901549
## 16816        2           1   0.7124853454
```

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## 16873      2      1   0.7124851998
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## 16402      2      1   0.7124157193
## 18848      2      1   0.7123954452
## 16431      2      1   0.7123873420
## 16621      2      1   0.7123843948
## 16874      2      1   0.7123720440
## 16627      2      1   0.7123696888
## 16382      2      1   0.7123692101
## 16430      2      1   0.7123658342
## 16404      2      1   0.7123485641
## 19888      2      3   0.7123415005
## 16249      2      1   0.7123411616
## 22577      2      3   0.7123256119
## 20635      2      3   0.7122799434
## 19495      2      3   0.7122680401
## 19476      2      3   0.7122574914
## 16400      2      1   0.7122258861
## 21961      2      1   0.7121815212
## 16435      2      1   0.7121781989
## 16625      2      1   0.7121781989
## 16288      2      1   0.7121773757
## 16417      2      1   0.7121305220
## 16517      2      1   0.7121224413
## 16537      2      1   0.7120195033
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## 16336      2      1   0.7119553906
## 19243      2      1   0.7118726470
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## 19714      2      3   0.7118684242
## 16892      2      1   0.7118654199
## 16623      2      1   0.7118589495
## 16815      2      1   0.7118403784
## 24142      2      3   0.7118163063
## 19696      2      3   0.7118157064
## 19499      2      3   0.7118128801
## 21875      2      3   0.7117871122
## 16585      2      1   0.7116717833
## 29705      2      3   0.7116222402
## 22574      2      3   0.7116128829
## 16513      2      1   0.7116072628
## 22142      2      1   0.7115965946
## 16518      2      1   0.7115895635
## 19339      2      3   0.7115868933
## 16848      2      1   0.7115858465
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## 19337      2      3   0.7115633696
## 19403      2      3   0.7115624210
## 26476      2      3   0.7115594709
## 19245      2      1   0.7115577563
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## 16671      2      1   0.7114908591
```

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## 16424          2          1     0.7114668497
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## 19980          2          3     0.7114206279
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## 16284          2          1     0.7113977319
## 16335          2          1     0.7113843227
## 20246          2          3     0.7113835134
## 22562          2          1     0.7113820726
## 21684          2          3     0.7113500238
## 18699          2          1     0.7110967590
## 20234          2          3     0.7110715772
## 16622          2          1     0.7110501439
## 16266          2          1     0.7110099268
## 19874          2          3     0.7110060598
## 16534          2          1     0.7109997081
## 16213          2          1     0.7109755668
## 16812          2          1     0.7109755668
## 17063          2          1     0.7109223674
## 16475          2          1     0.7109130788
## 19471          2          3     0.7109116215
## 16583          2          1     0.7109090122
## 19826          2          3     0.7108867286
## 19758          2          3     0.7108805767
## 19713          2          3     0.7108738427
## 16423          2          1     0.7108712732
## 21087          2          3     0.7108676621
## 19889          2          3     0.7108593944
## 19711          2          3     0.7108367066
## 24633          2          3     0.7108328020
## 17555          2          1     0.7108242841
## 19498          2          3     0.7108039635
## 19523          2          3     0.7107996458
## 19934          2          3     0.7107797444
## 16989          2          1     0.7107777993
## 19279          2          3     0.7107668875
## 16208          2          1     0.7107653733
## 19225          2          3     0.7107636632
## 16557          2          1     0.7107628800
## 20907          2          3     0.7107510557
## 19759          2          3     0.7107481507
## 16280          2          1     0.7107340153
## 16460          2          1     0.7107285911
## 21685          2          3     0.7107127898
## 18097          2          1     0.7107068801
## 16290          2          1     0.7106479298
## 19373          2          3     0.7106250280
## 19542          2          3     0.7105980069
## 19560          2          3     0.7105833939
## 16111          2          1     0.7105764020
## 16282          2          1     0.7105628546
## 20961          2          3     0.7105578931
## 16158          2          1     0.7105374275
## 19381          2          3     0.7105108228
## 20380          2          1     0.7105024795
```

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## 21883        2        1    0.7104812296
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## 16619        2        1    0.7104664350
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## 16283        2        1    0.7104371964
## 19750        2        1    0.7103751466
## 16906        2        1    0.7103689384
## 19955        2        3    0.7103020820
## 19957        2        3    0.7103018906
## 18992        2        1    0.7102997784
## 24305        2        3    0.7102913767
## 19701        2        3    0.7102616702
## 17902        2        1    0.7102543842
## 19672        2        3    0.7102486140
## 20249        2        3    0.7102460985
## 19376        2        3    0.7102385688
## 19360        2        3    0.7102238185
## 20250        2        3    0.7102106843
## 16490        2        1    0.7101523797
## 16296        2        1    0.7101104900
## 18096        2        1    0.7101019451
## 17199        2        1    0.7100896357
## 16374        2        1    0.7100841475
## 16386        2        1    0.7100336455
## 16818        2        1    0.7100324103
## 16576        2        1    0.7100074101
## 19958        2        3    0.7099785282
## 16564        2        1    0.7099626533
## 19829        2        3    0.7099429683
## 16638        2        1    0.7099307193
## 16966        2        1    0.7099078651
## 19570        2        3    0.7098849134
## 16990        2        1    0.7098770878
## 16814        2        1    0.7098619835
## 16532        2        1    0.7098058098
## 16543        2        1    0.7098050681
## 16234        2        1    0.7097966830
## 18932        2        1    0.7097756393
## 22047        2        1    0.7097508474
## 16584        2        1    0.7097313446
## 19462        2        1    0.7097192734
## 29555        2        3    0.7096666621
## 16794        2        1    0.7096572257
## 16489        2        1    0.7096472669
## 20143        2        3    0.7096452364
## 20136        2        3    0.7096327257
## 21003        2        3    0.7096300602
## 19355        2        3    0.7096281940
## 19303        2        3    0.7096257125
## 17936        2        1    0.7096106618
## 20140        2        3    0.7095793920
## 20235        2        3    0.7095737705
## 21085        2        3    0.7095643042
## 19896        2        3    0.7095614066
```

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## 16399      2      1   0.7095527819
## 19564      2      3   0.7095467108
## 19834      2      3   0.7095463874
## 22563      2      1   0.7095263654
## 19710      2      3   0.7095060676
## 19466      2      3   0.7094986628
## 19538      2      3   0.7094863086
## 16978      2      1   0.7094575089
## 16853      2      1   0.7093270402
## 16843      2      1   0.7093199788
## 16383      2      1   0.7092407258
## 16297      2      1   0.7092186210
## 16389      2      1   0.7091899304
## 16819      2      1   0.7091782777
## 16194      2      1   0.7091515846
## 16474      2      1   0.7091488930
## 16872      2      1   0.7091433771
## 18023      2      1   0.7091433771
## 16166      2      1   0.7091303431
## 19663      2      3   0.7090817942
## 19828      2      3   0.7090626601
## 16628      2      1   0.7090598864
## 19661      2      3   0.7090434604
## 20636      2      3   0.7090406859
## 19585      2      3   0.7090333587
## 16637      2      1   0.7090172890
## 16522      2      1   0.7089436542
## 16972      2      1   0.7089417214
## 16295      2      1   0.7089357930
## 19525      2      1   0.7089289084
## 16256      2      1   0.7089191399
## 16095      2      1   0.7088758309
## 16768      2      1   0.7088758309
## 16790      2      1   0.7088701952
## 19334      2      1   0.7088656499
## 16080      2      1   0.7088225579
## 16248      2      1   0.7088181495
## 20634      2      3   0.7087899064
## 16766      2      1   0.7087726958
## 17064      2      1   0.7087657376
## 16077      2      1   0.7087241899
## 16112      2      1   0.7087106453
## 16926      2      1   0.7087087708
## 16062      2      1   0.7086727584
## 16767      2      1   0.7086454755
## 26475      2      3   0.7086138433
## 17831      2      1   0.7086101466
## 17076      2      1   0.7085665673
## 19632      2      3   0.7085375974
## 16182      2      1   0.7085292025
## 16793      2      1   0.7085252537
## 19876      2      3   0.7085192530
## 16060      2      1   0.7085162831
## 19882      2      3   0.7084961232
```

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## 19563    2       3   0.7084872972
## 20962    2       3   0.7084802142
## 19559    2       3   0.7084783967
## 19881    2       3   0.7084734087
## 21081    2       3   0.7084524510
## 19537    2       3   0.7084489920
## 19878    2       3   0.7084255955
## 19340    2       3   0.7084147133
## 19358    2       3   0.7084062076
## 19357    2       3   0.7083822679
## 16523    2       1   0.7083774447
## 19595    2       3   0.7083596900
## 16931    2       1   0.7083489555
## 17297    2       1   0.7083330546
## 19478    2       3   0.7083164208
## 16212    2       1   0.7083146803
## 19045    2       1   0.7082428020
## 16247    2       1   0.7082201421
## 17554    2       1   0.7082105901
## 16250    2       1   0.7081949506
## 20818    2       3   0.7081879061
## 19508    2       3   0.7081850812
## 19477    2       3   0.7081575068
## 16769    2       1   0.7081528684
## 19543    2       3   0.7081459174
## 21080    2       3   0.7081353584
## 16988    2       1   0.7081333887
## 16635    2       1   0.7080657388
## 19664    2       1   0.7080023766
## 16390    2       1   0.7079948450
## 19761    2       3   0.7079303472
## 19524    2       1   0.7079172993
## 19833    2       3   0.7078854345
## 19831    2       3   0.7078489620
## 19521    2       3   0.7078484956
## 16985    2       1   0.7078154215
## 22048    2       1   0.7078102777
## 16764    2       1   0.7076987709
## 20316    2       3   0.7076105614
## 19884    2       3   0.7075671644
## 19611    2       3   0.7075547823
## 20145    2       3   0.7075436718
## 23090    2       3   0.7075323307
## 19504    2       3   0.7075295090
## 16195    2       1   0.7074487999
## 16388    2       1   0.7073925582
## 19704    2       3   0.7073783636
## 16771    2       1   0.7073750939
## 19359    2       3   0.7073412698
## 18440    2       1   0.7073229763
## 16099    2       1   0.7073139645
## 19368    2       3   0.7073137286
## 19286    2       3   0.7072835032
## 18206    2       1   0.7072799575
```

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## 16834        2        1    0.7072493609
## 20383        2        1    0.7072362150
## 19383        2        3    0.7072232235
## 16376        2        1    0.7072035501
## 16298        2        1    0.7071889630
## 19827        2        3    0.7071852700
## 21951        2        3    0.7071849936
## 19413        2        3    0.7071764524
## 19468        2        3    0.7071749756
## 19496        2        3    0.7071611434
## 19513        2        3    0.7071349380
## 22579        2        3    0.7071285742
## 20318        2        3    0.7070848442
## 19379        2        3    0.7070748123
## 16657        2        1    0.7070611675
## 24304        2        3    0.7070512057
## 16231        2        1    0.7070434991
## 20247        2        3    0.7070242844
## 19406        2        1    0.7069915808
## 16770        2        1    0.7069400353
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## 16024        2        1    0.7068937749
## 19099        2        1    0.7068837174
## 16245        2        1    0.7068666213
## 16097        2        1    0.7068466518
## 16074        2        1    0.7067355114
## 20317        2        3    0.7066788252
## 16126        2        1    0.7066349918
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## 21079        2        3    0.7065825166
## 16620        2        1    0.7065730102
## 16624        2        1    0.7065460964
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## 16453        2        1    0.7064835349
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## 19046        2        1    0.7064132912
## 19558        2        3    0.7064068425
## 19382        2        3    0.7063962443
## 17901        2        1    0.7063797717
## 20286        2        3    0.7063725443
## 16285        2        1    0.7063630955
## 16242        2        1    0.7063566393
## 21088        2        3    0.7063526142
## 16908        2        1    0.7063386412
## 16839        2        1    0.7063275725
## 19741        2        3    0.7063113432
## 16064        2        1    0.7063017180
## 20119        2        3    0.7062985570
## 16330        2        1    0.7062953249
## 16314        2        1    0.7062650271
## 16257        2        1    0.7062207315
## 16530        2        1    0.7062110915
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```

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## 16255          2          1    0.7061891757
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## 19474          2          3    0.7061155579
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## 19510          2          3    0.7061008355
## 21078          2          3    0.7060932005
## 23102          2          3    0.7060869238
## 17840          2          1    0.7060858883
## 19565          2          3    0.7060722110
## 16106          2          1    0.7060693752
## 19885          2          3    0.7060554149
## 29917          2          3    0.7060511648
## 16078          2          1    0.7060356239
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## 16096          2          1    0.7060227603
## 20066          2          3    0.7060184111
## 16239          2          1    0.7060163737
## 19600          2          3    0.7060050476
## 19548          2          3    0.7059972260
## 19530          2          3    0.7059813172
## 19514          2          3    0.7059488984
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## 16027          2          1    0.7059365358
## 19599          2          3    0.7059332227
## 19855          2          3    0.7059121673
## 16026          2          1    0.7059069894
## 19752          2          3    0.7058990830
## 19989          2          3    0.7058880245
## 19779          2          3    0.7058619788
## 19630          2          3    0.7058596501
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## 19534          2          3    0.7057274483
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## 19601          2          3    0.7056869170
## 16907          2          1    0.7056791561
## 16391          2          1    0.7056650736
## 19990          2          3    0.7056536622
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## 16165          2          1    0.7056344431
## 20906          2          3    0.7055903966
## 19562          2          3    0.7055834354
## 19541          2          3    0.7055610937
## 20144          2          3    0.7055531123
## 16183          2          1    0.7055268915
## 16281          2          1    0.7055079318
## 19988          2          3    0.7055076014
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## 16167          2          1    0.7054824040
## 19519          2          3    0.7054685183
## 23091          2          3    0.7054554941
## 19847          2          3    0.7054359535
## 19848          2          3    0.7054344656
## 20817          2          3    0.7054313605
```

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## 19512    2        3    0.7054264595
## 22003    2        3    0.7054254869
## 19778    2        3    0.7054245677
## 26772    2        3    0.7054236179
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## 16238    2        1    0.7048533112
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## 19472    2        3    0.7047771886
## 19505    2        3    0.7047771886
## 19520    2        3    0.7047495253
## 17795    2        1    0.7047429989
## 16258    2        1    0.7047396053
## 16178    2        1    0.7047341074
## 16333    2        1    0.7047235203
## 19830    2        3    0.7047234724
## 16177    2        1    0.7047191615
## 19744    2        3    0.7047188174
## 16329    2        1    0.7047068851
## 19470    2        3    0.7046997066
## 19777    2        3    0.7046797052
## 17832    2        1    0.7046668341
## 19832    2        3    0.7046651177
## 19561    2        3    0.7046642102
## 19986    2        3    0.7046638576
```

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## 16185          2          1    0.7046253070
## 19825          2          3    0.7046069936
## 18268          2          1    0.7045258669
## 19526          2          1    0.7045086426
## 16392          2          1    0.7044938859
## 16174          2          1    0.7044447250
## 16381          2          1    0.7044367755
## 16175          2          1    0.7044030810
## 16192          2          1    0.7044024041
## 16093          2          1    0.7043760219
## 22079          2          1    0.7043415434
## 16521          2          1    0.7042208255
## 19994          2          3    0.7042165263
## 16716          2          1    0.7042154424
## 16240          2          1    0.7042061648
## 20065          2          3    0.7041821534
## 16241          2          1    0.7041663805
## 16179          2          1    0.7040899432
## 15860          2          1    0.7040396748
## 19506          2          3    0.7040347870
## 20912          2          3    0.7040266926
## 19473          2          3    0.7040234499
## 16710          2          1    0.7040137834
## 19333          2          1    0.7040079523
## 19522          2          3    0.7039846278
## 19749          2          1    0.7037583138
## 19991          2          3    0.7037059556
## 16334          2          1    0.7036772308
## 19539          2          3    0.7036552129
## 19992          2          3    0.7036451452
## 16146          2          1    0.7036378978
## 16223          2          1    0.7036249075
## 16065          2          1    0.7036145285
## 16059          2          1    0.7036124227
## 19461          2          1    0.7035958923
## 16268          2          1    0.7035885710
## 19645          2          3    0.7035427317
## 19646          2          3    0.7035373608
## 19898          2          3    0.7035153405
## 16572          2          1    0.7035053033
## 20036          2          3    0.7034997140
## 16656          2          1    0.7034749158
## 20030          2          3    0.7034660796
## 16217          2          1    0.7034600437
## 16226          2          1    0.7034585950
## 16021          2          1    0.7034571715
## 16658          2          1    0.7034450062
## 19571          2          3    0.7034367014
## 19405          2          1    0.7034218387
## 16244          2          1    0.7034098243
## 19592          2          3    0.7034039000
## 19590          2          3    0.7034027339
## 20032          2          3    0.7034018418
## 19737          2          3    0.7033881469
```

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## 19603         2          3    0.7032500701
## 16811         2          1    0.7032394589
## 21952         2          3    0.7032233025
## 20315         2          3    0.7032217065
## 19511         2          3    0.7031976788
## 19500         2          3    0.7031930560
## 29916         2          3    0.7031505023
## 16073         2          1    0.7031473800
## 19841         2          3    0.7031397980
## 19501         2          3    0.7031282836
## 16923         2          1    0.7031143999
## 18911         2          1    0.7030636783
## 16020         2          1    0.7030596557
## 16569         2          1    0.7030103805
## 16318         2          1    0.7029893503
## 16157         2          1    0.7029648363
## 19651         2          3    0.7029451410
## 15962         2          1    0.7029390803
## 20252         2          3    0.7029346316
## 16220         2          1    0.7029146066
## 15966         2          1    0.7029111783
## 15965         2          1    0.7029037309
## 16714         2          1    0.7028971697
## 16308         2          1    0.7028358300
## 19459         2          1    0.7027674905
## 16379         2          1    0.7027642270
## 16715         2          1    0.7027622839
## 16275         2          1    0.7027592722
## 16316         2          1    0.7027565930
## 16215         2          1    0.7027365477
## 16002         2          1    0.7027351810
## 15901         2          1    0.7027216078
## 19662         2          3    0.7027141293
## 21086         2          3    0.7027020870
## 20035         2          3    0.7026438075
## 16098         2          1    0.7026326584
## 19597         2          3    0.7026073500
## 19572         2          3    0.7025575718
## 19682         2          3    0.7025526953
## 16369         2          1    0.7024694193
## 16227         2          1    0.7024434095
## 16224         2          1    0.7024294681
## 16216         2          1    0.7023814118
## 16023         2          1    0.7023640884
## 23103         2          3    0.7023563662
## 20963         2          3    0.7023140975
## 19760         2          3    0.7023129128
## 20062         2          3    0.7023069015
## 19552         2          3    0.7022893590
## 19576         2          3    0.7022864126
## 19507         2          3    0.7022748138
## 19905         2          3    0.7022440456
## 20471         2          3    0.7021656424
## 19577         2          3    0.7021563777
```

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## 16331      2       1   0.7019818952
## 16025      2       1   0.7019370746
## 16108      2       1   0.7018976802
## 16492      2       1   0.7018917404
## 16313      2       1   0.7018621178
## 16207      2       1   0.7018258263
## 16181      2       1   0.7017691052
## 16332      2       1   0.7017541691
## 17441      2       1   0.7017478191
## 16236      2       1   0.7017473495
## 16105      2       1   0.7017469924
## 20034      2       3   0.7017350501
## 19573      2       3   0.7017057423
## 16225      2       1   0.7017001582
## 16228      2       1   0.7016771537
## 16315      2       1   0.7016746407
## 19575      2       3   0.7016555014
## 16246      2       1   0.7016393754
## 16172      2       1   0.7015990467
## 20075      2       3   0.7015819317
## 19377      2       3   0.7015693198
## 19985      2       3   0.7015637100
## 20063      2       3   0.7015544021
## 19536      2       3   0.7015453303
## 20819      2       3   0.7015238336
## 16193      2       1   0.7015190942
## 16712      2       1   0.7014880484
## 16310      2       1   0.7014748995
## 16271      2       1   0.7014690288
## 19551      2       3   0.7013492975
## 19509      2       3   0.7013135821
## 19875      2       3   0.7013127423
## 16319      2       1   0.7012272199
## 16041      2       1   0.7011621884
## 16118      2       1   0.7011148992
## 20821      2       3   0.7010724689
## 15986      2       1   0.7010557824
## 20041      2       3   0.7010453775
## 19407      2       1   0.7010400736
## 16018      2       1   0.7010134420
## 19782      2       3   0.7009849630
## 19853      2       3   0.7009802635
## 19753      2       3   0.7009747962
## 20225      2       3   0.7009742346
## 19917      2       3   0.7009695159
## 19619      2       3   0.7009666256
## 16629      2       1   0.7009580147
## 16711      2       1   0.7009417807
## 16305      2       1   0.7009354690
## 19805      2       3   0.7009329753
## 16328      2       1   0.7009305228
## 21050      2       3   0.7009233795
## 20527      2       3   0.7009229228
## 16924      2       1   0.7009038586
```

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## 19346        2          1    0.7009002084
## 19618        2          3    0.7008883778
## 21132        2          3    0.7008661101
## 19621        2          3    0.7008448644
## 17792        2          1    0.7008426964
## 20291        2          3    0.7008215689
## 16817        2          1    0.7007757153
## 19987        2          3    0.7007467416
## 16116        2          1    0.7007373749
## 16063        2          1    0.7007367377
## 17641        2          1    0.7007290036
## 19856        2          3    0.7007257632
## 19785        2          3    0.7007217452
## 16272        2          1    0.7007204970
## 16173        2          1    0.7007127884
## 15930        2          1    0.7007087602
## 19547        2          3    0.7006891451
## 19622        2          3    0.7006799435
## 16218        2          1    0.7006767611
## 19656        2          3    0.7006584747
## 20039        2          3    0.7006459691
## 20284        2          3    0.7006325280
## 19650        2          3    0.7005821870
## 19647        2          3    0.7005726446
## 19574        2          3    0.7005587096
## 19418        2          3    0.7005405266
## 20067        2          3    0.7005402549
## 19748        2          3    0.7005379227
## 19588        2          3    0.7005375171
## 23105        2          3    0.7005151394
## 16169        2          1    0.7005019744
## 18266        2          1    0.7004912719
## 16012        2          1    0.7004857864
## 19457        2          1    0.7004839304
## 19649        2          3    0.7004695857
## 19643        2          3    0.7004673529
## 19784        2          3    0.7004292424
## 21148        2          3    0.7004213223
## 19617        2          3    0.7004127963
## 15835        2          1    0.7004102044
## 17070        2          1    0.7003755909
## 19596        2          3    0.7003492865
## 15867        2          1    0.7003468621
## 19904        2          3    0.7003380027
## 20314        2          3    0.7003251290
## 19502        2          3    0.7003232181
## 16214        2          1    0.7003007397
## 19743        2          3    0.7002958487
## 16071        2          1    0.7001469358
## 19456        2          1    0.7001311802
## 19460        2          1    0.7000538345
## 16221        2          1    0.7000521937
## 16520        2          1    0.7000504805
## 16076        2          1    0.7000428590
```

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## 20038          2          3    0.7000064160
## 16168          2          1    0.7000063852
## 16014          2          1    0.6999866021
## 16109          2          1    0.6999360601
## 19781          2          3    0.6998233011
## 16222          2          1    0.6998112812
## 19546          2          3    0.6997893854
## 16717          2          1    0.6997689702
## 15964          2          1    0.6996742019
## 20043          2          3    0.6996218334
## 16152          2          1    0.6996193252
## 20042          2          3    0.6996071349
## 19345          2          1    0.6994779515
## 19956          2          3    0.6993907864
## 16273          2          1    0.6993314179
## 16100          2          1    0.6993052590
## 20319          2          3    0.6992868560
## 20298          2          3    0.6992020711
## 19655          2          3    0.6992008735
## 19654          2          3    0.6991749825
## 19658          2          3    0.6991721120
## 19642          2          3    0.6991628604
## 22004          2          3    0.6991522771
## 19852          2          3    0.6991491228
## 20609          2          3    0.6991453329
## 20068          2          3    0.6991262225
## 18267          2          1    0.6990914729
## 19598          2          3    0.6990903207
## 16219          2          1    0.6990774792
## 19455          2          1    0.6990709640
## 16010          2          1    0.6990516869
## 16129          2          1    0.6990454361
## 19602          2          3    0.6990402989
## 17791          2          1    0.6990356352
## 16117          2          1    0.6990020604
## 16327          2          1    0.6989828831
## 16326          2          1    0.6989591640
## 16500          2          1    0.6989286840
## 16571          2          1    0.6989159536
## 15952          2          1    0.6988956984
## 15816          2          1    0.6988903173
## 15988          2          1    0.6988890342
## 15963          2          1    0.6988852372
## 15851          2          1    0.6988832745
## 15818          2          1    0.6988802606
## 16311          2          1    0.6988801235
## 16176          2          1    0.6988796039
## 19993          2          3    0.6988704445
## 16057          2          1    0.6988606923
## 19282          2          1    0.6988379036
## 19846          2          3    0.6988197660
## 16378          2          1    0.6987580798
## 15945          2          1    0.6987471494
## 16987          2          1    0.6987107390
```

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## 16019          2          1   0.6987071823
## 19347          2          1   0.6987000747
## 15852          2          1   0.6986965789
## 16928          2          1   0.6986868705
## 16124          2          1   0.6986776055
## 16486          2          1   0.6986677973
## 15764          2          1   0.6986435475
## 19665          2          3   0.6984121479
## 19678          2          3   0.6984077077
## 20287          2          3   0.6983949640
## 19686          2          3   0.6983761638
## 19688          2          3   0.6983680609
## 19667          2          3   0.6982727433
## 16056          2          1   0.6982579864
## 20033          2          3   0.6982549826
## 20482          2          3   0.6982532731
## 20266          2          3   0.6982509997
## 16307          2          1   0.6982460482
## 16151          2          1   0.6982459939
## 16013          2          1   0.6982122360
## 19807          2          3   0.6981955328
## 19687          2          3   0.6981133378
## 20408          2          3   0.6980833976
## 20321          2          3   0.6980715423
## 19689          2          3   0.6980566727
## 16773          2          1   0.6980480376
## 17764          2          1   0.6980164184
## 19783          2          3   0.6979595174
## 19695          2          3   0.6978714399
## 16312          2          1   0.6978475257
## 19693          2          3   0.6978466186
## 16626          2          1   0.6978312383
## 19845          2          3   0.6978026189
## 21960          2          1   0.6977992260
## 16042          2          1   0.6977909445
## 20822          2          3   0.6977753310
## 16488          2          1   0.6977596006
## 16317          2          1   0.6977522166
## 16491          2          1   0.6977398913
## 16499          2          1   0.6976972675
## 16113          2          1   0.6976686101
## 16114          2          1   0.6976310118
## 15961          2          1   0.6975366182
## 16824          2          1   0.6975215425
## 16368          2          1   0.6974963346
## 16922          2          1   0.6974813385
## 16306          2          1   0.6974180824
## 16125          2          1   0.6973900800
## 19747          2          3   0.6973648781
## 19591          2          3   0.6973508734
## 20040          2          3   0.6973025645
## 20083          2          3   0.6972939779
## 19566          2          3   0.6972552116
## 19746          2          3   0.6972527336
```

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## 16309        2          1    0.6970852572
## 20005        2          3    0.6970819234
## 20322        2          3    0.6970504192
## 20055        2          3    0.6970452748
## 19475        2          3    0.6970068219
## 20293        2          3    0.6969950049
## 20481        2          3    0.6969879952
## 15800        2          1    0.6969691465
## 16831        2          1    0.6969620346
## 16324        2          1    0.6969392876
## 16683        2          1    0.6969380914
## 19454        2          1    0.6969367733
## 15956        2          1    0.6969344192
## 15828        2          1    0.6969327776
## 16366        2          1    0.6969302415
## 19404        2          1    0.6969259236
## 16595        2          1    0.6968935476
## 16448        2          1    0.6968825262
## 19897        2          3    0.6968786382
## 15871        2          1    0.6968738601
## 19458        2          1    0.6968638800
## 16682        2          1    0.6968483929
## 15959        2          1    0.6968479809
## 15902        2          1    0.6968399639
## 19780        2          3    0.6968258496
## 19535        2          3    0.6968186012
## 15929        2          1    0.6968016035
## 16072        2          1    0.6966952918
## 16596        2          1    0.6966591758
## 19615        2          3    0.6965380000
## 19616        2          3    0.6964841002
## 19653        2          3    0.6964801545
## 19216        2          1    0.6964593799
## 19589        2          3    0.6964166134
## 20031        2          3    0.6963926411
## 19762        2          3    0.6963710585
## 17537        2          1    0.6963235433
## 15985        2          1    0.6963207247
## 19648        2          3    0.6963197433
## 15960        2          1    0.6962876410
## 16058        2          1    0.6962450612
## 17820        2          1    0.6962279386
## 16483        2          1    0.6961886850
## 16150        2          1    0.6961625880
## 15762        2          1    0.6961610748
## 16128        2          1    0.6961428077
## 16551        2          1    0.6961411181
## 15766        2          1    0.6961181856
## 18993        2          1    0.6961068509
## 20051        2          3    0.6960282801
## 20054        2          3    0.6959965557
## 16485        2          1    0.6959070788
## 15750        2          1    0.6958677141
## 16830        2          1    0.6958613513
```

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## 15827          2          1   0.6958590385
## 19879          2          3   0.6958169548
## 18930          2          1   0.6957609039
## 15862          2          1   0.6957604582
## 16104          2          1   0.6957296426
## 19614          2          3   0.6957259747
## 20079          2          3   0.6957157119
## 20164          2          3   0.6957104467
## 21134          2          3   0.6957101491
## 20162          2          3   0.6956965750
## 19620          2          3   0.6956879297
## 20409          2          3   0.6956805083
## 20546          2          3   0.6956676445
## 21686          2          3   0.6956040452
## 20152          2          3   0.6954788155
## 18931          2          1   0.6954276994
## 20267          2          3   0.6954268768
## 20057          2          3   0.6954004650
## 20155          2          3   0.6953994459
## 19965          2          3   0.6953930975
## 21237          2          3   0.6953908239
## 19692          2          3   0.6953879939
## 23104          2          3   0.6953725298
## 19867          2          3   0.6953685358
## 20231          2          3   0.6953338514
## 22040          2          3   0.6953158589
## 16594          2          1   0.6952824594
## 18928          2          1   0.6952513548
## 20166          2          3   0.6951938186
## 20165          2          3   0.6951907813
## 21184          2          3   0.6951877371
## 16633          2          1   0.6951145062
## 20667          2          3   0.6950831149
## 15946          2          1   0.6949618170
## 16482          2          1   0.6948989053
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## 19960          2          3   0.6948675875
## 19791          2          3   0.6948492548
## 20154          2          3   0.6948439334
## 16826          2          1   0.6948368144
## 20179          2          3   0.6948218136
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## 16823          2          1   0.6947920029
## 19788          2          3   0.6947794980
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## 19153          2          1   0.6947622825
## 24710          2          3   0.6947582517
## 19557          2          3   0.6947230299
## 17822          2          1   0.6946968233
## 18912          2          1   0.6946967551
## 23108          2          3   0.6946966669
## 19894          2          3   0.6946913265
## 19659          2          3   0.6946911372
## 19786          2          3   0.6946822459
```

```
## 20052          2          3    0.6946764492
## 16469          2          1    0.6946473135
## 19694          2          3    0.6946471581
## 16299          2          1    0.6946417309
## 15751          2          1    0.6946383307
## 16889          2          1    0.6946372375
## 16471          2          1    0.6945903359
## 20064          2          3    0.6945871114
## 16092          2          1    0.6945669470
## 16325          2          1    0.6945643618
## 16526          2          1    0.6945636896
## 15689          2          1    0.6945355785
## 16302          2          1    0.6945201777
## 20160          2          3    0.6944441178
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## 16102          2          1    0.6943434691
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## 16153          2          1    0.6939843416
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## 19806          2          3    0.6939160676
## 19677          2          3    0.6939139837
## 15804          2          1    0.6939081591
## 19862          2          3    0.6938971044
## 19652          2          3    0.6938879050
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## 19612          2          3    0.6938311280
## 19842          2          3    0.6937815696
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## 15943          2          1    0.6937026506
## 16467          2          1    0.6936419409
## 19006          2          1    0.6936384383
## 16504          2          1    0.6935850518
## 19154          2          1    0.6935141193
## 17268          2          1    0.6935128671
```

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## 16009          2          1    0.6934794856
## 20151          2          3    0.6933741385
## 15958          2          1    0.6933678323
## 19776          2          3    0.6933518573
## 16552          2          1    0.6932712667
## 16481          2          1    0.6932572575
## 16742          2          1    0.6932512669
## 16597          2          1    0.6932469953
## 15957          2          1    0.6932292490
## 20053          2          3    0.6931669902
## 23107          2          3    0.6931575168
## 19679          2          3    0.6930849294
## 20320          2          3    0.6930849294
## 19673          2          3    0.6930712166
## 20258          2          3    0.6930662781
## 15942          2          1    0.6930581255
## 20058          2          3    0.6930542406
## 16209          2          1    0.6930288104
## 20484          2          3    0.6930110215
## 15989          2          1    0.6929580236
## 19795          2          3    0.6929518729
## 18995          2          1    0.6929332491
## 19768          2          3    0.6929219464
## 16028          2          1    0.6929144022
## 15817          2          1    0.6929136003
## 16825          2          1    0.6929024536
## 20446          2          3    0.6929005297
## 16827          2          1    0.6928997701
## 20441          2          3    0.6927910003
## 20544          2          3    0.6927849855
## 20037          2          3    0.6927840144
## 20460          2          3    0.6927412645
## 19751          2          3    0.6927268247
## 20687          2          3    0.6927011942
## 20688          2          3    0.6927010529
## 15987          2          1    0.6926855734
## 20442          2          3    0.6926708623
## 15771          2          1    0.6926576306
## 20448          2          3    0.6926477355
## 15679          2          1    0.6925095646
## 15721          2          1    0.6925077640
## 20443          2          3    0.6925005322
## 17071          2          1    0.6924912614
## 15706          2          1    0.6924792127
## 20094          2          3    0.6924626442
## 20091          2          3    0.6924521859
## 16359          2          1    0.6924423078
## 15769          2          1    0.6923928092
## 16358          2          1    0.6923919876
## 17750          2          1    0.6923866790
## 15792          2          1    0.6923840759
## 15640          2          1    0.6923819075
## 16377          2          1    0.6923045324
## 16753          2          1    0.6922641452
```

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## 20686     2        3  0.6922335393
## 21236     2        3  0.6921651450
## 15938     2        1  0.6921319329
## 19966     2        3  0.6921318465
## 22070     2        3  0.6921307645
## 20505     2        3  0.6921298595
## 19864     2        3  0.6921262642
## 21135     2        3  0.6921196480
## 20268     2        3  0.6920934253
## 15918     2        1  0.6920870659
## 19790     2        3  0.6920831182
## 15866     2        1  0.6920778957
## 20161     2        3  0.6920554037
## 19764     2        3  0.6920510046
## 15939     2        1  0.6920507514
## 19959     2        3  0.6920487324
## 18578     2        1  0.6920218074
## 20966     2        3  0.6920029105
## 16360     2        1  0.6919911298
## 20373     2        3  0.6919803324
## 16465     2        1  0.6919512023
## 16828     2        1  0.6919232375
## 19281     2        1  0.6919193749
## 16055     2        1  0.6919158610
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## 16480     2        1  0.6918121376
## 15641     2        1  0.6918046320
## 16466     2        1  0.6917900268
## 15941     2        1  0.6917858243
## 21136     2        3  0.6917653056
## 19709     2        3  0.6917649988
## 18581     2        1  0.6917637172
## 18579     2        1  0.6917529613
## 16357     2        1  0.6917426724
## 16437     2        1  0.6917365471
## 15767     2        1  0.6917317785
## 19908     2        3  0.6917220190
## 16365     2        1  0.6917098583
## 19793     2        3  0.6916965672
## 19794     2        3  0.6916863812
## 17794     2        1  0.6916556713
## 16003     2        1  0.6916519367
## 15920     2        1  0.6915064634
## 16498     2        1  0.6914466493
## 15940     2        1  0.6913616023
## 15768     2        1  0.6913140264
## 20158     2        3  0.6912842859
## 19906     2        3  0.6912509844
## 20964     2        3  0.6912476835
## 20540     2        3  0.6912412889
## 16754     2        1  0.6912291349
## 20447     2        3  0.6911832841
## 23106     2        3  0.6911697861
## 16470     2        1  0.6911155706
```

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## 15720        2          1   0.6909947162
## 16920        2          1   0.6908186717
## 16832        2          1   0.6908046035
## 16484        2          1   0.6908044377
## 18929        2          1   0.6907813961
## 18580        2          1   0.6907791397
## 17790        2          1   0.6907354277
## 20445        2          3   0.6906974257
## 20044        2          3   0.6906940379
## 24863        2          3   0.6906732139
## 19767        2          3   0.6906591742
## 16833        2          1   0.6905518474
## 23110        2          3   0.6905265724
## 16921        2          1   0.6905250585
## 15765        2          1   0.6905049043
## 16304        2          1   0.6904939312
## 16303        2          1   0.6904668397
## 16294        2          1   0.6904173183
## 20360        2          3   0.6903390621
## 19772        2          3   0.6902861445
## 19691        2          3   0.6902689127
## 19796        2          3   0.6902662281
## 19869        2          3   0.6902613258
## 20056        2          3   0.6902539401
## 15612        2          1   0.6902494680
## 17748        2          1   0.6902478107
## 16011        2          1   0.6902278777
## 16203        2          1   0.6902068840
## 19690        2          3   0.6902063429
## 16362        2          1   0.6901930288
## 21133        2          3   0.6901871450
## 16439        2          1   0.6901869048
## 20579        2          3   0.6901752866
## 21280        2          3   0.6901644094
## 16199        2          1   0.6901455325
## 15795        2          1   0.6901393349
## 19450        2          1   0.6901345670
## 16449        2          1   0.6901325390
## 15666        2          1   0.6901246316
## 15607        2          1   0.6900550941
## 17787        2          1   0.6900365168
## 16356        2          1   0.6900332814
## 20628        2          3   0.6899955495
## 20459        2          3   0.6899836756
## 19821        2          3   0.6899774986
## 21889        2          3   0.6899463008
## 19931        2          3   0.6899369470
## 15975        2          1   0.6899014058
## 15983        2          1   0.6897966465
## 16752        2          1   0.6897954678
## 19920        2          3   0.6897680419
## 16196        2          1   0.6897415234
## 16293        2          1   0.6897248452
## 19775        2          3   0.6897168362
```

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## 19004      2        1   0.6897147428
## 16432      2        1   0.6897079269
## 19900      2        3   0.6896978832
## 19870      2        3   0.6896971527
## 19278      2        1   0.6896327323
## 20153      2        3   0.6896307065
## 18910      2        1   0.6896174821
## 16568      2        1   0.6895904729
## 16361      2        1   0.6895903458
## 15669      2        1   0.6895688000
## 16822      2        1   0.6895604106
## 19961      2        3   0.6895497785
## 20159      2        3   0.6895466358
## 20410      2        3   0.6895465752
## 20163      2        3   0.6895382369
## 19613      2        3   0.6895309730
## 19765      2        3   0.6895272992
## 19215      2        1   0.6895184814
## 23113      2        3   0.6895179611
## 15870      2        1   0.6895030488
## 15609      2        1   0.6894945359
## 16205      2        1   0.6894921233
## 19893      2        3   0.6894771267
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## 20577      2        3   0.6894299408
## 19712      2        3   0.6894218878
## 19851      2        3   0.6894071109
## 19007      2        1   0.6893874663
## 20449      2        3   0.6893825579
## 21281      2        3   0.6893782842
## 19871      2        3   0.6893422378
## 19822      2        3   0.6893269313
## 19810      2        3   0.6893082594
## 20504      2        3   0.6892964804
## 18994      2        1   0.6892806046
## 16300      2        1   0.6892712440
## 16186      2        1   0.6891481434
## 16206      2        1   0.6891393816
## 15606      2        1   0.6890176719
## 15604      2        1   0.6890019529
## 19921      2        3   0.6889890542
## 19872      2        3   0.6889843739
## 16204      2        1   0.6889709884
## 16197      2        1   0.6889436943
## 19344      2        1   0.6888946057
## 16829      2        1   0.6886655113
## 20440      2        3   0.6886583309
## 16550      2        1   0.6886581622
## 19907      2        3   0.6886356937
## 15631      2        1   0.6886340313
## 15611      2        1   0.6886319506
## 18953      2        1   0.6886130772
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## 19789      2        3   0.6885878468
```

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## 16548        2         1   0.6885810471
## 20269        2         3   0.6885747383
## 20259        2         3   0.6885717728
## 15670        2         1   0.6885499387
## 15974        2         1   0.6885391784
## 15668        2         1   0.6885374200
## 15936        2         1   0.6885280040
## 19924        2         3   0.6885225524
## 21818        2         3   0.6885146715
## 20359        2         3   0.6884973793
## 20678        2         3   0.6884970190
## 20069        2         3   0.6884570897
## 17269        2         1   0.6883290374
## 17267        2         1   0.6881889417
## 15917        2         1   0.6881609835
## 15976        2         1   0.6881224060
## 16367        2         1   0.6880921542
## 15763        2         1   0.6880742947
## 16363        2         1   0.6880339209
## 19865        2         3   0.6879884968
## 15937        2         1   0.6879754150
## 19797        2         3   0.6879525192
## 15883        2         1   0.6879413694
## 16380        2         1   0.6879288810
## 15794        2         1   0.6879219600
## 15977        2         1   0.6878875897
## 15789        2         1   0.6878698487
## 20967        2         3   0.6878629632
## 19448        2         1   0.6878561499
## 16202        2         1   0.6878366210
## 15891        2         1   0.6878095760
## 16049        2         1   0.6878062635
## 19707        2         3   0.6878010873
## 19771        2         3   0.6877845649
## 17786        2         1   0.6877658134
## 15690        2         1   0.6877513982
## 16043        2         1   0.6877504073
## 19708        2         3   0.6877415836
## 19863        2         3   0.6877249200
## 15735        2         1   0.6876853990
## 17219        2         1   0.6876577902
## 15590        2         1   0.6876563090
## 20156        2         3   0.6876466167
## 15599        2         1   0.6876347086
## 15894        2         1   0.6876316015
## 15972        2         1   0.6875954070
## 21183        2         3   0.6875616356
## 20700        2         3   0.6875532186
## 20019        2         3   0.6875482364
## 15803        2         1   0.6875262596
## 19977        2         3   0.6875199030
## 19927        2         3   0.6875133240
## 19925        2         3   0.6875105299
## 19214        2         1   0.6875036565
```

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## 19152     2      1   0.6875023367
## 15603     2      1   0.6874975010
## 16888     2      1   0.6874954390
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## 20375     2      3   0.6874887012
## 20698     2      3   0.6874683559
## 15897     2      1   0.6874624467
## 16598     2      1   0.6874584878
## 20989     2      3   0.6874531543
## 15749     2      1   0.6874429690
## 20808     2      3   0.6874277675
## 15982     2      1   0.6874271541
## 15736     2      1   0.6874110681
## 21138     2      3   0.6874065193
## 19951     2      3   0.6873976584
## 19451     2      1   0.6873953552
## 16047     2      1   0.6873723488
## 20578     2      3   0.6873541676
## 19452     2      1   0.6873508305
## 19902     2      3   0.6873300939
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## 19277     2      1   0.6873246484
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## 19922     2      3   0.6872830556
## 19824     2      3   0.6872661192
## 20462     2      3   0.6872416224
## 20811     2      3   0.6872387721
## 19838     2      3   0.6872111457
## 17220     2      1   0.6871840457
## 21137     2      3   0.6871685732
## 20374     2      3   0.6871019937
## 15680     2      1   0.6870796023
## 21149     2      3   0.6870773271
## 16048     2      1   0.6870659395
## 15980     2      1   0.6870650500
## 17749     2      1   0.6870331494
## 20699     2      3   0.6869668879
## 20507     2      3   0.6868914559
## 19835     2      3   0.6868724648
## 16052     2      1   0.6868644697
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## 16046     2      1   0.6867997836
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## 15968     2      1   0.6867631579
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## 15737     2      1   0.6866601411
## 16044     2      1   0.6866376096
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## 19901     2      3   0.6865952300
## 19823     2      3   0.6865949882
## 20585     2      3   0.6865808155
## 19895     2      3   0.6865745542
```

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## 20081          2          3    0.6865702584
## 20122          2          3    0.6865649041
## 20813          2          3    0.6865629360
## 20150          2          3    0.6865511100
## 19860          2          3    0.6865280170
## 19754          2          3    0.6865263629
## 20668          2          3    0.6865080135
## 16301          2          1    0.6864666571
## 16007          2          1    0.6864661312
## 16547          2          1    0.6864103069
## 15770          2          1    0.6863222119
## 18439          2          1    0.6863155010
## 15900          2          1    0.6863004708
## 16054          2          1    0.6862143298
## 15686          2          1    0.6862011200
## 20697          2          3    0.6861761759
## 19008          2          1    0.6861469051
## 15893          2          1    0.6861187901
## 19926          2          3    0.6861170375
## 16292          2          1    0.6861074992
## 19453          2          1    0.6860849448
## 19792          2          3    0.6859634704
## 15922          2          1    0.6859472998
## 15610          2          1    0.6859212136
## 16040          2          1    0.6858890234
## 19769          2          3    0.6858578666
## 19857          2          3    0.6858152559
## 24864          2          3    0.6857982621
## 15953          2          1    0.6857878374
## 15954          2          1    0.6857788607
## 17784          2          1    0.6857660520
## 15971          2          1    0.6857554211
## 20809          2          3    0.6856959655
## 19974          2          3    0.6856938829
## 15608          2          1    0.6856816108
## 20991          2          3    0.6856674265
## 15589          2          1    0.6855559103
## 23112          2          3    0.6855220757
## 16397          2          1    0.6854848154
## 15579          2          1    0.6854834636
## 19866          2          3    0.6854369769
## 19446          2          1    0.6854304247
## 17781          2          1    0.6854269758
## 16396          2          1    0.6853982482
## 15580          2          1    0.6853380870
## 15627          2          1    0.6852994263
## 15702          2          1    0.6852785794
## 15994          2          1    0.6852718466
## 15732          2          1    0.6852641859
## 15997          2          1    0.6852465555
## 16016          2          1    0.6852298300
## 16546          2          1    0.6852004312
## 18853          2          1    0.6851847735
## 15970          2          1    0.6851564582
```

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## 15996          2          1   0.6851489978
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## 20968          2          3   0.6851253354
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## 20185          2          3   0.6851213520
## 20650          2          3   0.6851031641
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## 15993          2          1   0.6850729339
## 15687          2          1   0.6850513958
## 15784          2          1   0.6850467224
## 15614          2          1   0.6850304169
## 15560          2          1   0.6850220514
## 20184          2          3   0.6850218368
## 16201          2          1   0.6850217881
## 20677          2          3   0.6850194156
## 15665          2          1   0.6850164337
## 19923          2          3   0.6849801709
## 18630          2          1   0.6849755926
## 16505          2          1   0.6849683807
## 19773          2          3   0.6849610544
## 20696          2          3   0.6849433333
## 15688          2          1   0.6849281449
## 15592          2          1   0.6849127585
## 15594          2          1   0.6848847366
## 20506          2          3   0.6848335292
## 21247          2          3   0.6848290452
## 15788          2          1   0.6847309594
## 17788          2          1   0.6847241215
## 17780          2          1   0.6847116185
## 16274          2          1   0.6846775356
## 20010          2          3   0.6846740245
## 20883          2          3   0.6846329398
## 20879          2          3   0.6846070683
## 19887          2          3   0.6846001415
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## 22133          2          3   0.6845075993
## 21027          2          3   0.6844912368
## 19836          2          3   0.6844561908
## 20990          2          3   0.6844558845
## 20886          2          3   0.6844521939
## 20885          2          3   0.6844484113
## 20294          2          3   0.6844441029
## 20852          2          3   0.6844402895
## 20863          2          3   0.6844165191
## 15738          2          1   0.6843951046
## 16751          2          1   0.6843853445
## 16050          2          1   0.6843810938
## 15649          2          1   0.6843689358
## 20008          2          3   0.6843109141
## 20009          2          3   0.6843091717
## 15597          2          1   0.6842876528
## 20815          2          3   0.6842862001
## 15576          2          1   0.6842822631
```

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## 15730       2        1   0.6842708493
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## 15991       2        1   0.6842231788
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## 15895       2        1   0.6841829022
## 15969       2        1   0.6841806427
## 15734       2        1   0.6841706129
## 20271       2        3   0.6841658994
## 19798       2        3   0.6841388274
## 21139       2        3   0.6841129437
## 19849       2        3   0.6841101999
## 20455       2        3   0.6841054395
## 15593       2        1   0.6841020624
## 20109       2        3   0.6840944362
## 15598       2        1   0.6840648293
## 20884       2        3   0.6840616239
## 19449       2        1   0.6840582522
## 20630       2        3   0.6840507873
## 20629       2        3   0.6840173735
## 19950       2        3   0.6838495395
## 19903       2        3   0.6837766293
## 19919       2        3   0.6837685068
## 15613       2        1   0.6837569239
## 15785       2        1   0.6837526003
## 20807       2        3   0.6837339840
## 19928       2        3   0.6837258770
## 20880       2        3   0.6836843439
## 19962       2        3   0.6836800700
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## 15628       2        1   0.6835266075
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## 20007       2        3   0.6833152037
## 21151       2        3   0.6832907078
## 15981       2        1   0.6832836647
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## 19964       2        3   0.6830935313
## 15796       2        1   0.6830524850
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## 15500       2        1   0.6829952711
## 19967       2        3   0.6829880862
## 20461       2        3   0.6829824982
## 15583       2        1   0.6829299037
## 18702       2        1   0.6829064451
## 15498       2        1   0.6828862123
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## 16408       2        1   0.6828629943
```

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## 22057    2    3    0.6828503893
## 15705    2    1    0.6828392122
## 15858    2    1    0.6828254113
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## 15501    2    1    0.6828054107
## 17658    2    1    0.6827741290
## 15973    2    1    0.6827038274
## 15588    2    1    0.6826877963
## 15807    2    1    0.6826670159
## 15506    2    1    0.6825104090
## 16479    2    1    0.6824654738
## 18438    2    1    0.6824082367
## 19136    2    1    0.6823323984
## 19968    2    3    0.6822933653
## 15951    2    1    0.6822794328
## 20112    2    3    0.6822702072
## 18435    2    1    0.6822697368
## 19970    2    3    0.6822654216
## 20576    2    3    0.6822343284
## 19774    2    3    0.6821758768
## 16159    2    1    0.6821758094
## 19861    2    3    0.6820735347
## 15475    2    1    0.6819655007
## 15820    2    1    0.6819435282
## 19445    2    1    0.6819368185
## 15504    2    1    0.6819122041
## 15791    2    1    0.6819029393
## 15935    2    1    0.6818844174
## 15823    2    1    0.6818256802
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## 20279    2    3    0.6817183300
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## 19899    2    3    0.6816811306
## 20300    2    3    0.6816279947
## 23118    2    3    0.6816269881
## 20476    2    3    0.6816154169
## 23115    2    3    0.6816045651
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## 20377    2    3    0.6813646993
## 20028    2    3    0.6813643971
## 20082    2    3    0.6813441783
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```

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## 15503        2           1    0.6812764129
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## 20299        2           3    0.6811897079
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## 20013        2           3    0.6811250982
## 20076        2           3    0.6811228760
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## 21153        2           3    0.6810928007
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## 20358        2           3    0.6807685447
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## 16160        2           1    0.6802355031
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## 15845        2           1    0.6799943978
```

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## 15451       2          1    0.6796742099
## 17659       2          1    0.6795275036
## 15774       2          1    0.6794982526
## 16455       2          1    0.6794658306
## 20816       2          3    0.6794536259
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## 19840       2          3    0.6792387053
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## 20085       2          3    0.6786423086
## 19998       2          3    0.6786354248
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## 20098       2          3    0.6784537973
## 20882       2          3    0.6784498702
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## 17409    2         1    0.6775445524
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```

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## 15361     2     1   0.6767101024
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## 15398     2     1   0.6766315056
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## 20464     2     3   0.6765080209
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## 18701     2     1   0.6764578811
## 19929     2     3   0.6764504783
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## 20196     2     3   0.6764003007
## 20439     2     3   0.6763420002
## 20120     2     3   0.6763295052
## 17411     2     1   0.6761930977
## 15448     2     1   0.6759151022
## 17660     2     1   0.6759140866
## 16260     2     1   0.6759048462
## 15822     2     1   0.6757967106
## 20105     2     3   0.6757950483
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## 20084     2     3   0.6757687424
## 20491     2     3   0.6757598307
## 20125     2     3   0.6757474552
## 15857     2     1   0.6757436114
## 15646     2     1   0.6757137054
## 20147     2     3   0.6756933987
## 20332     2     3   0.6756707450
## 20199     2     3   0.6756619683
## 20015     2     3   0.6756509728
## 20647     2     3   0.6756496658
## 15549     2     1   0.6756479541
## 20102     2     3   0.6756080147
## 20029     2     3   0.6756074054
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## 20328     2     3   0.6755643106
## 19971     2     3   0.6755286077
## 20017     2     3   0.6755132830
## 15517     2     1   0.6755095020
## 16950     2     1   0.6754404364
## 16053     2     1   0.6754278270
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## 15546     2     1   0.6752800693
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```

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## 15839      2        1   0.6752543491
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## 18215      2        1   0.6751724131
## 15332      2        1   0.6751596725
## 20649      2        3   0.6751554029
## 15476      2        1   0.6751481048
## 21600      2        3   0.6751408865
## 15555      2        1   0.6751371997
## 20103      2        3   0.6751322928
## 20413      2        3   0.6751049288
## 15758      2        1   0.6750909906
## 21591      2        3   0.6750872078
## 20301      2        3   0.6750196114
## 15427      2        1   0.6750100708
## 20438      2        3   0.6750065303
## 15840      2        1   0.6750007196
## 15547      2        1   0.6749082427
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## 20018      2        3   0.6746711944
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## 19999      2        3   0.6742791218
## 16949      2        1   0.6742700857
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## 15439      2        1   0.6742486748
## 15273      2        1   0.6742365943
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## 20262      2        3   0.6739762174
## 15848      2        1   0.6739746160
## 20327      2        3   0.6739666735
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## 21201      2        3   0.6738654200
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```

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## 15355          2          1   0.6736045357
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## 20088          2          3   0.6734746500
## 19996          2          3   0.6734517498
## 15497          2          1   0.6734100914
## 15466          2          1   0.6734030391
## 20450          2          3   0.6733733579
## 21202          2          3   0.6733506331
## 20548          2          3   0.6733265730
## 15644          2          1   0.6732437671
## 15826          2          1   0.6732437671
## 17656          2          1   0.6732419933
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## 15457          2          1   0.6730051037
## 16692          2          1   0.6730051037
## 19443          2          1   0.6728806452
## 16321          2          1   0.6728587174
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## 20554          2          3   0.6727016652
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## 20310          2          3   0.6726943655
## 20201          2          3   0.6726942591
## 15458          2          1   0.6726792711
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## 17436          2          1   0.6725943814
## 15495          2          1   0.6725741102
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## 15309          2          1   0.6725390843
## 21235          2          3   0.6725346676
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## 15494          2          1   0.6724518310
## 15714          2          1   0.6724397286
## 15324          2          1   0.6723876784
## 20340          2          3   0.6723793655
## 20175          2          3   0.6723695893
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## 20200          2          3   0.6723651327
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## 15220     2      1    0.6687529450
## 15754     2      1    0.6687058684
## 15269     2      1    0.6686865389
## 15544     2      1    0.6686112835
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## 16061     2      1    0.6685947620
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## 15570     2      1    0.6682705047
## 15491     2      1    0.6682525257
## 15305     2      1    0.6682448348
## 15710     2      1    0.6682325123
## 20220     2      3    0.6682044213
## 20466     2      3    0.6681844422
## 21674     2      3    0.6681559094
## 20203     2      3    0.6681448395
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## 20470     2      3    0.6677305107
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## 20620     2      3    0.6676932738
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## 15564     2      1    0.6673726240
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## 15567     2      1    0.6673054155
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## 15456        2        1    0.6668520740
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## 20348    2    3  0.6657239778
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## 20854    2    3  0.6655481013
## 21675    2    3  0.6655005203
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## 20173    2    3  0.6654418141
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## 19441     2     1   0.6642039503
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```

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## 15602      2        1   0.6602767819
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## 15138      2        1   0.6593719829
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## 17906      2        1   0.6593691348
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## 22303      2        3   0.6593114344
## 20349      2        3   0.6592274509
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## 20704      2        3   0.6588634814
## 15160      2        1   0.6588538616
## 20596      2        3   0.6588494587
## 15150      2        1   0.6588252332
## 21341      2        3   0.6587869052
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## 20242      2        3   0.6586072054
## 20281      2        3   0.6585918650
```

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## 15274          2          1   0.6585505143
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## 20712          2          3   0.6584979736
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## 20325          2          3   0.6580480333
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## 16462          2          1   0.6577616943
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## 15051          2          1   0.6577180395
## 15042          2          1   0.6576748864
## 15637          2          1   0.6576515320
## 15149          2          1   0.6576476977
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## 17202          2          1   0.6575411520
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## 15394          2          1   0.6573656077
## 17823          2          1   0.6573648293
## 17935          2          1   0.6573477339
## 15141          2          1   0.6573200754
## 15510          2          1   0.6572731247
## 15700          2          1   0.6571962452
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## 20598          2          3   0.6571580278
## 15199          2          1   0.6571273391
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## 15034          2          1   0.6568885217
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```

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## 21663         2          3   0.6565652146
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## 23163         2          3   0.6564016316
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## 25113         2          3   0.6555794263
## 18898         2          1   0.6554348909
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```

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```

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## 20415          2          3   0.6520083430
## 17072          2          1   0.6519962625
## 21008          2          3   0.6519449200
## 15111          2          1   0.6519394793
## 14953          2          1   0.6519248903
## 18899          2          1   0.6519215034
## 15351          2          1   0.6519117617
## 15874          2          1   0.6519089632
## 20593          2          3   0.6518885166
## 14903          2          1   0.6517962934
## 15011          2          1   0.6517727658
## 15236          2          1   0.6517619907
## 14950          2          1   0.6517453411
## 22306          2          3   0.6517333047
## 15698          2          1   0.6517322691
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## 19432          2          1   0.6516283868
## 15682          2          1   0.6515998626
## 15096          2          1   0.6515885699
## 15113          2          1   0.6515756924
## 19431          2          1   0.6515652285
## 15032          2          1   0.6515399284
## 15341          2          1   0.6515045160
## 15014          2          1   0.6514850899
## 15140          2          1   0.6514692819
```

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## 20592        2        3    0.6514247560
## 22304        2        3    0.6514206489
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## 20588        2        3    0.6513953567
## 14900        2        1    0.6513377041
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## 15296        2        1    0.6512823254
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## 15012        2        1    0.6511360809
## 16001        2        1    0.6511301652
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## 17708        2        1    0.6509246374
## 15134        2        1    0.6508621133
## 20595        2        3    0.6508599403
## 15206        2        1    0.6508213191
## 15509        2        1    0.6508097687
## 14982        2        1    0.6507745814
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## 15053        2        1    0.6504492138
## 15107        2        1    0.6504279483
## 15948        2        1    0.6504269017
## 15329        2        1    0.6504110737
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## 17699        2        1    0.6502369926
## 15348        2        1    0.6501923826
## 23165        2        3    0.6500916151
## 23164        2        3    0.6500855403
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```

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## 20406          2          3   0.6461571454
## 15413          2          1   0.6461443270
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```

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## 20490       2       3  0.6449731827
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```

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## 14820          2          1    0.6427275056
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## 15650          2          1    0.6426841821
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## 20569          2          3    0.6425856953
## 21375          2          3    0.6425854209
## 20472          2          3    0.6425564613
## 20691          2          3    0.6425369848
## 20536          2          3    0.6425332998
## 20555          2          3    0.6425311051
## 20566          2          3    0.6424820429
## 21140          2          3    0.6424792980
## 20657          2          3    0.6424253258
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## 20606          2          3    0.6423766449
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## 15419          2          1    0.6423530862
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## 20493          2          3    0.6420051176
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## 15265          2          1    0.6417482445
## 15266          2          1    0.6417329133
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```

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## 20345          2          3   0.6411833967
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## 15662          2          1   0.6409242725
## 17705          2          1   0.6409141100
## 19427          2          1   0.6407697373
## 15264          2          1   0.6406843604
## 15285          2          1   0.6404643329
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## 26875          2          3   0.6398346123
## 14983          2          1   0.6398067612
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## 21378          2          3   0.6395879357
## 20717          2          3   0.6395425148
## 14980          2          1   0.6394585248
## 16734          2          1   0.6394387172
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## 20921          2          3   0.6393352768
## 16737          2          1   0.6392540462
## 19425          2          1   0.6391646554
## 20713          2          3   0.6391523363
## 16735          2          1   0.6391501555
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```

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## 14989     2        1    0.6388243586
## 14714     2        1    0.6388158748
## 14737     2        1    0.6388138141
## 15660     2        1    0.6387299889
## 20607     2        3    0.6387299473
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```

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## 26876         2          3    0.6375944505
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## 19424      2       1    0.6332573431
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## 14987      2       1    0.6331496530
## 14672      2       1    0.6331412222
## 14744      2       1    0.6330828457
## 22425      2       3    0.6330819126
## 14788      2       1    0.6330681973
## 20736      2       3    0.6329638138
## 14679      2       1    0.6329237128
## 27065      2       3    0.6328791850
## 14818      2       1    0.6326810235
```

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## 15240       2          1   0.6325535147
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## 19423       2          1   0.6325300820
## 14709       2          1   0.6325178152
## 19422       2          1   0.6325178152
## 16732       2          1   0.6325003451
## 20683       2          3   0.6323596809
## 14792       2          1   0.6323480157
## 21155       2          3   0.6323033253
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## 14680       2          1   0.6322307724
## 17080       2          1   0.6321603182
## 15271       2          1   0.6321445698
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## 20790       2          3   0.6316500844
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```

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## 15728          2          1    0.6301433561
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## 14707          2          1    0.6295823484
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## 16880          2          1    0.6289007223
## 27157          2          3    0.6288545027
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## 20559          2          3    0.6280773960
```

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## 14664        2          1   0.6278634251
## 22848        2          3   0.6278423891
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## 14790        2          1   0.6278357327
## 22045        2          3   0.6278243252
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## 22046        2          3   0.6277782504
## 15019        2          1   0.6277730446
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## 20862        2          3   0.6277060773
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## 20724        2          3   0.6275448324
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## 20765        2          3   0.6275008013
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## 14879        2          1   0.6274578100
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## 14655        2          1   0.6274344516
## 14612        2          1   0.6273448018
## 15152        2          1   0.6273282832
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## 15172      2      1   0.6254244809
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## 20797      2      3   0.6237053066
```

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## 20693        2        3   0.6235991963
## 27158        2        3   0.6235587246
## 20897        2        3   0.6234763908
## 20796        2        3   0.6234361837
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## 14753        2        1   0.6233781711
## 16883        2        1   0.6233611915
## 14537        2        1   0.6233550655
## 14591        2        1   0.6232456540
## 14677        2        1   0.6232060628
## 20893        2        3   0.6231843255
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## 14629        2        1   0.6231615047
## 15464        2        1   0.6231468680
## 14933        2        1   0.6231396445
## 15006        2        1   0.6231226726
## 27206        2        3   0.6230292568
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## 15018        2        1   0.6228312720
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## 14534        2        1   0.6225989201
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## 14538        2        1   0.6220496755
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```

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## 20878       2          3   0.6212079933
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## 14847       2          1   0.6207533841
## 14948       2          1   0.6207237505
## 14730       2          1   0.6207176100
## 15176       2          1   0.6207000943
## 14477       2          1   0.6206904039
## 15926       2          1   0.6206761123
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## 16510       2          1   0.6206560551
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## 14843       2          1   0.6206279437
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## 20786       2          3   0.6200793327
## 21239       2          3   0.6200557689
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## 14535       2          1   0.6200521957
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## 15077       2          1   0.6200195431
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## 20899       2          3   0.6198898926
## 20895       2          3   0.6198863007
## 25526       2          3   0.6198765887
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## 15727       2          1   0.6198364417
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```

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## 21360          2          3    0.6195266314
## 20784          2          3    0.6195007648
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## 14530          2          1    0.6182820156
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## 20980          2          3    0.6171232465
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## 20869        2         3    0.6142935985
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## 19293        2         1    0.6118688647
## 14459        2         1    0.6118537304
## 21055        2         3    0.6118316353
## 14751        2         1    0.6117968851
## 21057        2         3    0.6117920125
```

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## 20865     2        3   0.6117650018
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## 21058     2        3   0.6116477425
## 14437     2        1   0.6115881389
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## 19296     2        1   0.6115171511
## 21219     2        3   0.6115017585
## 14491     2        1   0.6114744976
## 14652     2        1   0.6114424891
## 21054     2        3   0.6113857773
## 21056     2        3   0.6113719503
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## 14643     2        1   0.6110153298
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## 21424     2        3   0.6109305226
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## 21090     2        3   0.6105062204
## 14923     2        1   0.6105040592
## 14525     2        1   0.6104855092
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## 14645     2        1   0.6104720927
## 14403     2        1   0.6104495615
## 14835     2        1   0.6103740533
## 25597     2        3   0.6103239630
## 21028     2        3   0.6102762903
## 15375     2        1   0.6100557878
## 21472     2        3   0.6100547209
## 14489     2        1   0.6100416596
## 15071     2        1   0.6100287895
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## 21243     2        3   0.6097379184
## 14523     2        1   0.6094426787
## 14411     2        1   0.6093721451
## 14947     2        1   0.6093651524
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## 16514     2        1   0.6090433517
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## 14524     2        1   0.6089526171
## 14366     2        1   0.6089241434
## 15372     2        1   0.6089193929
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## 19330     2        1   0.6089043593
```

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## 19292        2        1   0.6087727314
## 14697        2        1   0.6087533176
## 21473        2        3   0.6087249244
## 16403        2        1   0.6086699448
## 19329        2        1   0.6086056054
## 14368        2        1   0.6085288821
## 15272        2        1   0.6085195583
## 14554        2        1   0.6085129806
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## 14504        2        1   0.6084927549
## 15038        2        1   0.6084524289
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## 14365        2        1   0.6082260598
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## 20905        2        3   0.6080992977
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## 21164        2        3   0.6080583971
## 21068        2        3   0.6080480504
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## 14501        2        1   0.6078084662
## 14822        2        1   0.6078043308
## 23766        2        3   0.6077909629
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## 21392        2        3   0.6077219307
## 22543        2        3   0.6076907480
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## 14414        2        1   0.6075832435
## 14402        2        1   0.6075597605
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## 14551        2        1   0.6067748112
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## 14376    2        1    0.6065093875
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## 14401    2        1    0.6064974882
## 14705    2        1    0.6064957197
## 22075    2        3    0.6064607188
## 20975    2        3    0.6064555938
## 21358    2        3    0.6062669656
## 20986    2        3    0.6062439966
## 21031    2        3    0.6062103219
## 14702    2        1    0.6061875102
## 14367    2        1    0.6061615341
## 16347    2        1    0.6061092999
## 21381    2        3    0.6060943069
## 21811    2        3    0.6060848290
## 14552    2        1    0.6058686198
## 19331    2        1    0.6058686198
## 14373    2        1    0.6058371865
## 19332    2        1    0.6058245562
## 14457    2        1    0.6054608203
## 21389    2        3    0.6053836726
## 23767    2        3    0.6053836726
## 20976    2        3    0.6053673993
## 14618    2        1    0.6052450244
## 20953    2        3    0.6051892067
## 21060    2        3    0.6051215465
## 21390    2        3    0.6051068183
## 21096    2        3    0.6050816591
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## 14369    2        1    0.6049931497
## 14306    2        1    0.6048747966
## 14400    2        1    0.6048722905
## 14608    2        1    0.6048555433
## 18742    2        1    0.6048531294
## 14588    2        1    0.6048393785
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## 14607    2        1    0.6047665203
## 14418    2        1    0.6047546847
## 14416    2        1    0.6047308358
## 14307    2        1    0.6047284108
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## 19290    2        1    0.6047125503
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## 14699    2        1    0.6044733350
## 14327    2        1    0.6044622940
```

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## 14609    2    1    0.6044000592
## 16345    2    1    0.6043808663
## 14603    2    1    0.6043605908
## 16451    2    1    0.6043500218
## 14283    2    1    0.6043160084
## 14782    2    1    0.6043135493
## 14611    2    1    0.6042273043
## 21163    2    3    0.6042156132
## 20974    2    3    0.6041966566
## 14271    2    1    0.6041901692
## 14344    2    1    0.6041624658
## 14553    2    1    0.6041079627
## 16277    2    1    0.6040120435
## 21035    2    3    0.6039878406
## 21877    2    3    0.6039743404
## 21019    2    3    0.6039680990
## 21548    2    3    0.6039266430
## 16948    2    1    0.6038686714
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## 14814    2    1    0.6038619691
## 14284    2    1    0.6038212605
## 14505    2    1    0.6038039385
## 21395    2    3    0.6037079187
## 21125    2    3    0.6035957063
## 21123    2    3    0.6035877738
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## 21059    2    3    0.6035721301
## 21020    2    3    0.6034834803
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## 21047    2    3    0.6033063169
## 21067    2    3    0.6032335299
## 14660    2    1    0.6031949434
## 21074    2    3    0.6031703168
## 21550    2    3    0.6031688389
## 18199    2    1    0.6031459414
## 14495    2    1    0.6030578367
## 14604    2    1    0.6030478874
## 14452    2    1    0.6030285835
## 14598    2    1    0.6030236169
## 21036    2    3    0.6030231351
## 14456    2    1    0.6030186453
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## 21391    2    3    0.6029287100
## 21388    2    3    0.6028721292
## 21066    2    3    0.6028560379
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## 21339    2    3    0.6027786064
## 14380    2    1    0.6027490746
## 14359    2    1    0.6026785622
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## 21038          2          3    0.6023851482
## 21805          2          3    0.6023468226
## 21618          2          3    0.6023224065
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## 21052          2          3    0.6020257646
## 15036          2          1    0.6020040269
## 21063          2          3    0.6019982633
## 14600          2          1    0.6019958897
## 14381          2          1    0.6019689834
## 15041          2          1    0.6017887606
## 14326          2          1    0.6016840385
## 14371          2          1    0.6015200472
## 20993          2          3    0.6014933083
## 14610          2          1    0.6013049981
## 14602          2          1    0.6012655701
## 21393          2          3    0.6011503979
## 14696          2          1    0.6010551883
## 21203          2          3    0.6009921676
## 14606          2          1    0.6009623430
## 14308          2          1    0.6009300197
## 27778          2          3    0.6009250963
## 14444          2          1    0.6008761514
## 15378          2          1    0.6008611797
## 14391          2          1    0.6007651831
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## 14360          2          1    0.6006916777
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## 14310          2          1    0.6006405369
## 21032          2          3    0.6006268947
## 14470          2          1    0.6005818742
## 14154          2          1    0.6005360162
## 14472          2          1    0.6005290373
## 19287          2          1    0.6005278349
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## 14298          2          1    0.6004807480
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## 14363          2          1    0.6003037903
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## 21053          2          3    0.6002864771
## 14648          2          1    0.6002566909
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## 14309          2          1    0.6001386607
## 21091          2          3    0.6001115878
## 14303          2          1    0.6001110681
## 14605          2          1    0.6000886932
## 14476          2          1    0.6000214036
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## 14453          2          1    0.5999684499
```

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## 14973       2       1   0.5999178050
## 14454       2       1   0.5999132953
## 21617       2       3   0.5999061015
## 21076       2       3   0.5998958140
## 14357       2       1   0.5998552462
## 21046       2       3   0.5998544595
## 27870       2       3   0.5998244495
## 21124       2       3   0.5998175011
## 16170       2       1   0.5997850247
## 21193       2       3   0.5997736217
## 21736       2       3   0.5997731234
## 21126       2       3   0.5997554076
## 21171       2       3   0.5997175470
## 21173       2       3   0.5996840844
## 21168       2       3   0.5996215131
## 21044       2       3   0.5996046483
## 19288       2       1   0.5995963932
## 14304       2       1   0.5995560711
## 21167       2       3   0.5995392527
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## 21188       2       3   0.5991451693
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## 14474       2       1   0.5989162280
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## 21072       2       3   0.5988065453
## 21045       2       3   0.5987795015
## 14468       2       1   0.5986284372
## 21093       2       3   0.5986271596
## 14700       2       1   0.5986071216
## 14475       2       1   0.5986017254
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## 14301       2       1   0.5985855745
## 21496       2       3   0.5985621186
## 14244       2       1   0.5985523794
## 15445       2       1   0.5984942252
## 19233       2       1   0.5984838896
## 16346       2       1   0.5984641980
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## 21878       2       3   0.5982638389
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## 14550       2       1   0.5980824023
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## 22628       2       3   0.5976302008
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## 21127          2          3    0.5970767946
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## 21522          2          3    0.5963976347
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## 14946          2          1    0.5962319423
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## 14967          2          1    0.5961437962
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## 14330          2          1    0.5959062243
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## 14241          2          1    0.5956622528
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## 21115          2          3    0.5954859835
## 21112          2          3    0.5954399357
## 21205          2          3    0.5954324320
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## 23769          2          3    0.5952853921
## 21210          2          3    0.5952397280
## 21552          2          3    0.5951448208
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## 21120          2          3    0.5951313731
## 14358          2          1    0.5949920688
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## 14460        2        1    0.5946447283
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## 21211        2        3    0.5943954772
## 27871        2        3    0.5943871203
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## 14473        2        1    0.5943053932
## 14297        2        1    0.5943051924
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## 21113        2        3    0.5928425466
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## 14268          2          1    0.5896836641
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## 21283          2          3    0.5894119902
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```

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## 16340        2        1    0.5889949855
## 14280        2        1    0.5889639889
## 14347        2        1    0.5889490071
## 14438        2        1    0.5889436964
## 21130        2        3    0.5888606427
## 25269        2        3    0.5888344936
## 15067        2        1    0.5885974517
## 15061        2        1    0.5885349412
## 21118        2        3    0.5885212380
## 28010        2        3    0.5884942443
## 21920        2        3    0.5882581822
## 21262        2        3    0.5882298149
## 14787        2        1    0.5882267454
## 15066        2        1    0.5881934870
## 21544        2        3    0.5881873640
## 14785        2        1    0.5881787364
## 14771        2        1    0.5881773509
## 21114        2        3    0.5880844171
## 21619        2        3    0.5878830049
## 14917        2        1    0.5877346449
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## 14118        2        1    0.5876852212
## 14910        2        1    0.5876764161
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## 21249        2        3    0.5876040627
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## 14396        2        1    0.5875175266
## 14141        2        1    0.5874542153
## 14275        2        1    0.5874469134
## 14435        2        1    0.5874205865
## 14405        2        1    0.5874135408
## 14451        2        1    0.5873840575
## 19162        2        1    0.5873684024
## 14585        2        1    0.5873548129
## 17624        2        1    0.5873520898
## 14195        2        1    0.5873354191
## 14938        2        1    0.5873080738
## 14912        2        1    0.5872439610
## 21263        2        3    0.5872008965
## 14997        2        1    0.5871857837
## 16155        2        1    0.5871423033
## 14921        2        1    0.5868866282
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## 21521        2        3    0.5867956478
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## 21272        2        3    0.5867289219
```

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## 14913        2        1   0.5866602669
## 14676        2        1   0.5866482610
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## 14441        2        1   0.5865433135
## 16338        2        1   0.5865195921
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## 21553        2        3   0.5863474335
## 14190        2        1   0.5863132173
## 21170        2        3   0.5862560027
## 14232        2        1   0.5862451792
## 21192        2        3   0.5862173763
## 21251        2        3   0.5861779889
## 14433        2        1   0.5861711444
## 14142        2        1   0.5861462935
## 14276        2        1   0.5861225445
## 22005        2        3   0.5860187902
## 21357        2        3   0.5860165468
## 14747        2        1   0.5858862062
## 14583        2        1   0.5857604358
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## 14180        2        1   0.5857275137
## 14119        2        1   0.5855724430
## 19227        2        1   0.5853062666
## 19234        2        1   0.5853035474
## 15122        2        1   0.5852842767
## 21195        2        3   0.5848727784
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## 16344        2        1   0.5841489597
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## 14125        2        1   0.5838335165
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## 21196        2        3   0.5835132191
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## 14145        2        1   0.5834068122
## 18857        2        1   0.5833400657
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## 14105        2        1   0.5832055761
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```

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## 28048          2          3     0.5823088841
## 21220          2          3     0.5822908104
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## 28047          2          3     0.5822626176
## 14237          2          1     0.5822313824
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## 15068          2          1     0.5821966102
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## 14051          2          1     0.5821836574
## 15540          2          1     0.5821697114
## 19226          2          1     0.5821646854
## 14723          2          1     0.5821433926
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## 21258          2          3     0.5819174755
## 21555          2          3     0.5819102600
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## 14786          2          1     0.5818245409
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## 14192          2          1     0.5817749333
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## 14103          2          1     0.5817230250
## 21921          2          3     0.5816834013
## 14081          2          1     0.5816326913
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## 16088          2          1     0.5814943018
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## 14940          2          1     0.5813801365
## 14120          2          1     0.5813429648
## 14577          2          1     0.5813429648
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## 19229          2          1     0.5802705511
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## 14084        2        1    0.5793369333
## 14318        2        1    0.5793173590
## 21270        2        3    0.5793114839
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## 14226        2        1    0.5788772967
## 16091        2        1    0.5788400615
## 14079        2        1    0.5788215553
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## 14916        2        1    0.5785977628
## 14093        2        1    0.5785879554
## 14247        2        1    0.5785814235
## 14102        2        1    0.5784526933
## 14080        2        1    0.5784488299
## 14394        2        1    0.5784252032
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## 14256        2        1    0.5780032602
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## 15783        2          1   0.5774011982
## 14920        2          1   0.5773792580
## 14250        2          1   0.5773590049
## 24074        2          3   0.5771844554
## 14046        2          1   0.5771062521
## 14048        2          1   0.5770952527
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## 14013        2          1   0.5768830695
## 21217        2          3   0.5767915127
## 21642        2          3   0.5767846268
## 21330        2          3   0.5764118206
## 21382        2          3   0.5762819519
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## 21304        2          3   0.5760382960
## 21257        2          3   0.5758855861
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## 22292        2          3   0.5755031787
## 15208        2          1   0.5754981117
## 14094        2          1   0.5754910971
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## 14249        2          1   0.5754779820
## 21337        2          3   0.5752652899
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## 21286        2          3   0.5749221638
## 14183        2          1   0.5747332083
## 14339        2          1   0.5746616976
## 14230        2          1   0.5746289893
## 14336        2          1   0.5746192323
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## 21267        2          3   0.5742961387
## 21260        2          3   0.5742322462
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## 14404        2          1   0.5741643163
## 14654        2          1   0.5740303302
## 14496        2          1   0.5739918059
## 14392        2          1   0.5739872982
## 14757        2          1   0.5739806717
```

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## 14686          2          1    0.5738865554
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## 19161          2          1    0.5738558652
## 14014          2          1    0.5738543240
## 13964          2          1    0.5737840363
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## 14502          2          1    0.5735443664
## 15277          2          1    0.5735026814
## 14225          2          1    0.5734868994
## 14765          2          1    0.5734756969
## 21289          2          3    0.5734195651
## 24075          2          3    0.5733969784
## 14228          2          1    0.5733618651
## 14050          2          1    0.5733561143
## 14053          2          1    0.5733416639
## 16089          2          1    0.5733051383
## 14759          2          1    0.5732989093
## 14024          2          1    0.5732940070
## 14107          2          1    0.5731972741
## 13902          2          1    0.5731670101
## 21273          2          3    0.5731486820
## 21643          2          3    0.5731246026
## 21669          2          3    0.5729788311
## 21311          2          3    0.5729646827
## 21666          2          3    0.5729463434
## 19326          2          1    0.5729297534
## 21441          2          3    0.5729091820
## 14108          2          1    0.5728917122
## 14248          2          1    0.5728881682
## 14334          2          1    0.5728796917
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## 21288          2          3    0.5728399949
## 14813          2          1    0.5727936978
## 13903          2          1    0.5727519448
## 21253          2          3    0.5727216407
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## 13967          2          1    0.5726819701
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## 15876          2          1    0.5724276503
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## 21275          2          3    0.5723719512
## 21277          2          3    0.5723305993
## 21301          2          3    0.5723170012
## 14017          2          1    0.5722403355
## 14805          2          1    0.5721968010
## 14812          2          1    0.5721897959
## 21665          2          3    0.5721835517
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```

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## 13968      2        1   0.5716117569
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## 14113      2        1   0.5715479749
## 22135      2        3   0.5715313181
## 14760      2        1   0.5714680968
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## 14316      2        1   0.5711931133
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## 14762      2        1   0.5711072283
## 21428      2        3   0.5709907464
## 21278      2        3   0.5709864845
## 14808      2        1   0.5709025888
## 14018      2        1   0.5708514520
## 15381      2        1   0.5704911045
## 14314      2        1   0.5704526639
## 14763      2        1   0.5703997358
## 13965      2        1   0.5703390340
## 14806      2        1   0.5701025594
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## 14161      2        1   0.5700503245
## 14110      2        1   0.5700426512
## 22041      2        3   0.5700324368
## 21287      2        3   0.5700311169
## 21316      2        3   0.5700266381
## 14025      2        1   0.5700063144
## 14253      2        1   0.5699960529
## 21462      2        3   0.5697289922
## 21292      2        3   0.5696950118
## 19160      2        1   0.5696417595
## 14045      2        1   0.5696344920
## 14768      2        1   0.5696102997
## 14312      2        1   0.5695620023
## 14169      2        1   0.5694987476
## 14122      2        1   0.5693029226
## 16337      2        1   0.5692458932
## 14684      2        1   0.5692289554
## 14311      2        1   0.5692149462
## 13935      2        1   0.5692075045
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## 14164      2        1   0.5690864017
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## 15515      2        1   0.5689958686
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## 21397      2        3   0.5687943729
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```

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## 21290          2          3   0.5685925591
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## 21310          2          3   0.5685459381
## 21328          2          3   0.5684717460
## 21404          2          3   0.5684666837
## 15435          2          1   0.5683884903
## 14767          2          1   0.5683508593
## 21409          2          3   0.5682932595
## 22692          2          3   0.5682379592
## 15276          2          1   0.5682336543
## 14766          2          1   0.5682325528
## 21405          2          3   0.5681551881
## 15516          2          1   0.5681186271
## 21646          2          3   0.5681138832
## 13963          2          1   0.5679974445
## 22315          2          3   0.5677596657
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## 14685          2          1   0.5674970158
## 13830          2          1   0.5674766471
## 13946          2          1   0.5674113819
## 21274          2          3   0.5673661681
## 28121          2          3   0.5673111290
## 21408          2          3   0.5671467149
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```

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## 14168        2           1   0.5656564770
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```

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## 21481       2        3   0.5624783122
## 14809       2        1   0.5623538704
## 28376       2        3   0.5621913017
## 13971       2        1   0.5617538920
## 21478       2        3   0.5616663912
## 13940       2        1   0.5616423003
## 14891       2        1   0.5616138107
## 13959       2        1   0.5615619730
## 15782       2        1   0.5613994374
## 22693       2        3   0.5613678100
## 13820       2        1   0.5613520085
## 21364       2        3   0.5613513592
## 28378       2        3   0.5613485594
## 15395       2        1   0.5613322245
## 13941       2        1   0.5612977939
## 13822       2        1   0.5612920380
## 21400       2        3   0.5610637579
## 15878       2        1   0.5610424165
## 14112       2        1   0.5610162741
## 21300       2        3   0.5608735425
## 14721       2        1   0.5607871625
## 14070       2        1   0.5606389010
## 13945       2        1   0.5606221984
## 21440       2        3   0.5602601919
## 13912       2        1   0.5601947881
## 21306       2        3   0.5600774170
## 13937       2        1   0.5600598840
## 14861       2        1   0.5600598840
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## 21655       2        3   0.5596973932
## 19034       2        1   0.5596782121
## 21308       2        3   0.5596754621
## 13938       2        1   0.5596673830
## 21647       2        3   0.5596397069
## 14313       2        1   0.5595610222
## 14728       2        1   0.5595222535
## 13987       2        1   0.5594570604
## 14637       2        1   0.5594114298
```

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## 13802        2          1     0.5593716342
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## 15044        2          1     0.5593552243
## 13910        2          1     0.5593349353
## 21493        2          3     0.5593193539
## 21434        2          3     0.5592891458
## 21502        2          3     0.5592630347
## 21485        2          3     0.5592556161
## 14636        2          1     0.5592387193
## 21319        2          3     0.5592137813
## 13909        2          1     0.5591687150
## 13900        2          1     0.5591420471
## 13901        2          1     0.5591418437
## 24077        2          3     0.5590906085
## 21488        2          3     0.5590889079
## 14157        2          1     0.5590848023
## 13958        2          1     0.5590371362
## 21321        2          3     0.5590274977
## 13864        2          1     0.5590007651
## 21396        2          3     0.5589836008
## 15210        2          1     0.5589728103
## 28380        2          3     0.5589250607
## 22022        2          3     0.5589073461
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## 13875        2          1     0.5588250499
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## 19033        2          1     0.5586940296
## 13953        2          1     0.5586914842
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## 21490        2          3     0.5583379296
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## 14156        2          1     0.5582088639
## 21489        2          3     0.5581348581
## 21487        2          3     0.5581302721
## 21403        2          3     0.5581157194
## 13818        2          1     0.5580938429
## 21483        2          3     0.5580292605
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## 21501        2          3     0.5579128331
## 21436        2          3     0.5579064183
## 13951        2          1     0.5577084664
## 13947        2          1     0.5576727149
## 13957        2          1     0.5576661396
## 21437        2          3     0.5576051734
## 13874        2          1     0.5574081060
## 14160        2          1     0.5570978016
## 21414        2          3     0.5570785654
## 13928        2          1     0.5569819165
```

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## 14266      2      1   0.5569652887
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## 14069      2      1   0.5569573213
## 13952      2      1   0.5566536823
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## 19032      2      1   0.5564475251
## 13908      2      1   0.5564130998
## 13866      2      1   0.5563338663
## 28379      2      3   0.5563005549
## 14267      2      1   0.5558016174
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## 14022      2      1   0.5555953497
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## 13763      2      1   0.5544496508
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## 13950      2      1   0.5542745984
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## 21598      2      3   0.5541891698
## 13793      2      1   0.5541058374
## 22137      2      3   0.5540713591
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## 21532      2      3   0.5536788981
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## 13837      2      1   0.5536455370
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## 19275      2      1   0.5534244334
## 13770      2      1   0.5534045772
## 13983      2      1   0.5533685147
## 21529      2      3   0.5533429523
## 21531      2      3   0.5533287779
## 13755      2      1   0.5532097236
```

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## 13905          2           1    0.5531277209
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## 14178          2           1    0.5527537607
## 13984          2           1    0.5527463792
## 13879          2           1    0.5526823562
## 14960          2           1    0.5526761428
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## 22529          2           3    0.5523592039
## 21438          2           3    0.5523289994
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## 13878          2           1    0.5523106624
## 14486          2           1    0.5522861983
## 21431          2           3    0.5521083500
## 21453          2           3    0.5521027797
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## 21427          2           3    0.5517267192
## 13794          2           1    0.5516667466
## 15040          2           1    0.5516247142
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## 21511          2           3    0.5500257762
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## 21417          2           3    0.5497347604
## 21508          2           3    0.5497254379
## 21528          2           3    0.5497089945
## 21416          2           3    0.5497018009
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## 13863          2           1    0.5495997202
## 21890          2           3    0.5495312978
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## 14644          2           1    0.5493718992
## 14342          2           1    0.5493352250
## 14138          2           1    0.5493343751
## 21609          2           3    0.5493156136
## 13715          2           1    0.5493120682
## 13750          2           1    0.5493088685
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## 14061          2           1    0.5492852533
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```

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## 21622        2        3    0.5492723432
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## 21491        2        3    0.5488028767
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## 21624        2        3    0.5486143067
## 16084        2        1    0.5485761038
## 21604        2        3    0.5485552073
## 19273        2        1    0.5483432616
## 19030        2        1    0.5483246676
## 13714        2        1    0.5482988849
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## 13777        2        1    0.5480761601
## 21484        2        3    0.5479349849
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## 14010        2        1    0.5476257779
## 21454        2        3    0.5475438470
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## 13699        2        1    0.5471501337
## 21430        2        3    0.5470908843
## 14484        2        1    0.5470524242
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## 16083        2        1    0.5469074007
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## 21534        2        3    0.5466183703
## 21468        2        3    0.5466033012
## 24078        2        3    0.5465834186
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## 13787        2        1    0.5462905347
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## 13823        2        1    0.5457795450
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## 21809        2        3    0.5455695482
## 14727        2        1    0.5454701648
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## 21891        2        3    0.5451676894
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## 13797        2        1    0.5449602639
## 21515        2        3    0.5446036121
## 21671        2        3    0.5445851835
## 15779        2        1    0.5445795961
## 21519        2        3    0.5445179053
## 21575        2        3    0.5445042047
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```

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## 21514      2        3   0.5442222633
## 13676      2        1   0.5441728833
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## 13775      2        1   0.5441653210
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## 13816      2        1   0.5440802595
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## 19272      2        1   0.5440665780
## 13815      2        1   0.5440624502
## 14859      2        1   0.5440152315
## 21477      2        3   0.5440087619
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## 21561      2        3   0.5439797299
## 13929      2        1   0.5439744401
## 21576      2        3   0.5439639025
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## 14259      2        1   0.5437407466
## 13635      2        1   0.5437048745
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## 14177      2        1   0.5436221466
## 13813      2        1   0.5435452347
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## 21506      2        3   0.5434340706
## 14262      2        1   0.5434255659
## 13772      2        1   0.5433814823
## 14355      2        1   0.5433496639
## 18132      2        1   0.5433012176
## 21572      2        3   0.5432790967
## 21574      2        3   0.5431751045
## 24691      2        3   0.5430445821
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## 21570      2        3   0.5429749751
## 13711      2        1   0.5429411108
## 13796      2        1   0.5428872050
## 21518      2        3   0.5427202314
## 13749      2        1   0.5426324416
## 14795      2        1   0.5426263434
## 13774      2        1   0.5425704078
## 21612      2        3   0.5425011841
## 14389      2        1   0.5423702534
## 21495      2        3   0.5422174886
## 21635      2        3   0.5421872500
## 21503      2        3   0.5421859667
## 14066      2        1   0.5421621280
## 13773      2        1   0.5420744902
```

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## 13618          2          1   0.5420420765
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## 16082          2          1   0.5419797650
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## 18270          2          1   0.5418026934
## 24690          2          3   0.5417399227
## 24689          2          3   0.5417241928
## 13677          2          1   0.5414002223
## 13710          2          1   0.5413419555
## 21603          2          3   0.5413063714
## 21507          2          3   0.5412823630
## 21563          2          3   0.5412387636
## 13712          2          1   0.5410540564
## 21578          2          3   0.5409439061
## 13824          2          1   0.5408256349
## 16085          2          1   0.5408256349
## 13575          2          1   0.5406079511
## 13846          2          1   0.5405898128
## 14889          2          1   0.5405844899
## 13986          2          1   0.5405411447
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## 28579          2          3   0.5398564739
## 13708          2          1   0.5398028009
## 21527          2          3   0.5397915902
## 21614          2          3   0.5395911275
## 21546          2          3   0.5395725586
## 14390          2          1   0.5395443514
## 21585          2          3   0.5395411733
## 21535          2          3   0.5395269681
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## 21696          2          3   0.5394993938
## 21579          2          3   0.5394824448
## 14263          2          1   0.5394789711
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## 22025          2          3   0.5392840471
## 21536          2          3   0.5392685583
## 21651          2          3   0.5392563707
## 13798          2          1   0.5391099037
## 13825          2          1   0.5390791781
## 13865          2          1   0.5390150956
## 13810          2          1   0.5389022897
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## 13742          2          1   0.5388514274
## 19027          2          1   0.5388477861
## 13740          2          1   0.5387595907
## 13571          2          1   0.5387456588
## 13722          2          1   0.5386967226
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```

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## 13845      2      1   0.5385045050
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## 21582      2      3   0.5383581859
## 13811      2      1   0.5383446594
## 28702      2      3   0.5383367237
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## 21494      2      3   0.5377096553
## 21573      2      3   0.5376893100
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## 21517      2      3   0.5372351881
## 13948      2      1   0.5372119547
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## 21580      2      3   0.5371604623
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## 15187      2      1   0.5355530095
## 21584      2      3   0.5355144454
## 21540      2      3   0.5351654548
## 14059      2      1   0.5350163310
## 13762      2      1   0.5350098664
## 13657      2      1   0.5349975577
## 13808      2      1   0.5349902433
## 13570      2      1   0.5349852954
## 14634      2      1   0.5349671478
## 21632      2      3   0.5344545567
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```

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## 21629       2          3   0.5343123169
## 21872       2          3   0.5342788110
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```

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## 21568          2           3    0.5291119920
## 14497          2           1    0.5290746270
## 13812          2           1    0.5290665487
## 24693          2           3    0.5290586224
## 21637          2           3    0.5289964290
## 21638          2           3    0.5289175235
## 21653          2           3    0.5289020376
## 21627          2           3    0.5287785540
## 21597          2           3    0.5286096393
## 21708          2           3    0.5285912582
## 21929          2           3    0.5285868077
## 21930          2           3    0.5285762010
## 21626          2           3    0.5284725349
## 21567          2           3    0.5283269939
## 26908          2           3    0.5283261373
## 13720          2           1    0.5281604997
## 14382          2           1    0.5281551588
## 21717          2           3    0.5280815738
## 14236          2           1    0.5280478544
## 13486          2           1    0.5279403985
## 21804          2           3    0.5278870752
## 14206          2           1    0.5278765391
## 22188          2           3    0.5278721772
## 14518          2           1    0.5278699278
## 13790          2           1    0.5278616357
## 13894          2           1    0.5278083229
```

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## 16031        2          1    0.5276747983
## 21722        2          3    0.5276655558
## 14666        2          1    0.5276610666
## 14203        2          1    0.5276531455
## 13563        2          1    0.5276455113
## 14129        2          1    0.5275902984
## 21713        2          3    0.5275778884
## 21931        2          3    0.5274814066
## 13717        2          1    0.5273489404
## 13466        2          1    0.5273450979
## 14201        2          1    0.5272962322
## 14279        2          1    0.5271747218
## 13652        2          1    0.5271467071
## 14295        2          1    0.5271466265
## 21723        2          3    0.5271440477
## 14036        2          1    0.5269244081
## 14205        2          1    0.5268961562
## 21667        2          3    0.5268954594
## 14388        2          1    0.5267958286
## 21873        2          3    0.5266087698
## 21720        2          3    0.5265995867
## 21672        2          3    0.5265768997
## 13893        2          1    0.5264395825
## 24694        2          3    0.5262913137
## 13917        2          1    0.5262439239
## 13464        2          1    0.5262037072
## 14202        2          1    0.5261711424
## 19201        2          1    0.5261593256
## 21633        2          3    0.5261325261
## 13862        2          1    0.5261057171
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## 13767        2          1    0.5260689903
## 14057        2          1    0.5260289586
## 13702        2          1    0.5258622661
## 14128        2          1    0.5258178989
## 22006        2          3    0.5256354515
## 14207        2          1    0.5256323161
## 14273        2          1    0.5255839607
## 21703        2          3    0.5252319514
## 13859        2          1    0.5251963686
## 14277        2          1    0.5251704438
## 21711        2          3    0.5250978749
## 14200        2          1    0.5249530502
## 13555        2          1    0.5249016808
## 13786        2          1    0.5248821507
## 19025        2          1    0.5248787764
## 14209        2          1    0.5248590097
## 14159        2          1    0.5244929036
## 14035        2          1    0.5244847665
## 14519        2          1    0.5244176224
## 13465        2          1    0.5241458409
## 14278        2          1    0.5241210951
## 21724        2          3    0.5241120194
## 21704        2          3    0.5240816601
```

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## 21791          2          3    0.5239872450
## 22027          2          3    0.5239638987
## 21767          2          3    0.5239308822
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## 21781          2          3    0.5237165052
## 21566          2          3    0.5236781609
## 21587          2          3    0.5236702702
## 22001          2          3    0.5234773711
## 21692          2          3    0.5234645412
## 21589          2          3    0.5234293752
## 21650          2          3    0.5233742824
## 21640          2          3    0.5233545888
## 21719          2          3    0.5233213173
## 16030          2          1    0.5233148083
## 14208          2          1    0.5232890743
## 21657          2          3    0.5232259616
## 21616          2          3    0.5230375548
## 21765          2          3    0.5228540174
## 28835          2          3    0.5228006046
## 21641          2          3    0.5226883295
## 13737          2          1    0.5226073815
## 21771          2          3    0.5223735002
## 13460          2          1    0.5223726601
## 13766          2          1    0.5223663530
## 21760          2          3    0.5223567916
## 14665          2          1    0.5223436121
## 13556          2          1    0.5222891159
## 13679          2          1    0.5222323091
## 21764          2          3    0.5222223853
## 13678          2          1    0.5220944364
## 13561          2          1    0.5220550385
## 14235          2          1    0.5219590994
## 24695          2          3    0.5219223232
## 21768          2          3    0.5218968963
## 21721          2          3    0.5218871572
## 13606          2          1    0.5217483977
## 21772          2          3    0.5216688649
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## 21656          2          3    0.5216421967
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## 14350          2          1    0.5216054320
## 14272          2          1    0.5215740668
## 13655          2          1    0.5215305259
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## 24696          2          3    0.5213508075
## 19202          2          1    0.5212597103
## 14186          2          1    0.5211722968
## 13515          2          1    0.5211700489
## 13789          2          1    0.5211670064
## 14857          2          1    0.5211290753
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## 13588       2          1    0.5207968811
## 22503       2          3    0.5207068088
## 13605       2          1    0.5205716923
## 19200       2          1    0.5205473208
## 13558       2          1    0.5205426143
## 21687       2          3    0.5203932353
## 21678       2          3    0.5203634234
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## 13765       2          1    0.5202179930
## 13899       2          1    0.5202083061
## 21682       2          3    0.5200523287
## 13738       2          1    0.5200372096
## 21588       2          3    0.5200142594
## 21698       2          3    0.5199880358
## 21634       2          3    0.5196910983
## 21639       2          3    0.5196581930
## 13485       2          1    0.5195848645
## 19024       2          1    0.5194233373
## 13860       2          1    0.5193691776
## 13533       2          1    0.5193169023
## 14549       2          1    0.5192774850
## 13611       2          1    0.5190729490
## 14210       2          1    0.5189687024
## 14294       2          1    0.5189680608
## 22504       2          3    0.5186838511
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## 21786       2          3    0.5186079453
## 22169       2          3    0.5185749758
## 24699       2          3    0.5185556644
## 13680       2          1    0.5185452488
## 13690       2          1    0.5185192400
## 21688       2          3    0.5185059026
## 24697       2          3    0.5184462658
## 21677       2          3    0.5184407891
## 21845       2          3    0.5184166250
## 21683       2          3    0.5182957267
## 28836       2          3    0.5182379986
## 13596       2          1    0.5182263033
## 13589       2          1    0.5181864703
## 21787       2          3    0.5181303811
## 21846       2          3    0.5180786951
## 21763       2          3    0.5180607472
## 21785       2          3    0.5180569883
## 21679       2          3    0.5180373689
## 23092       2          3    0.5180271668
## 13604       2          1    0.5180229462
## 13739       2          1    0.5180114460
## 13532       2          1    0.5179745859
## 21922       2          3    0.5178907809
## 21932       2          3    0.5178718740
## 13719       2          1    0.5177854027
## 14858       2          1    0.5177742517
```

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## 14282     2         1     0.5176823117
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## 24700     2         3     0.5175433748
## 21707     2         3     0.5174830167
## 21934     2         3     0.5168851217
## 21689     2         3     0.5168645542
## 21690     2         3     0.5168645542
## 22208     2         3     0.5168370766
## 13621     2         1     0.5167058204
## 14430     2         1     0.5167055090
## 13530     2         1     0.5167000695
## 13977     2         1     0.5166946007
## 14101     2         1     0.5166801379
## 13447     2         1     0.5166354983
## 14100     2         1     0.5166205111
## 14432     2         1     0.5165641181
## 13560     2         1     0.5165524563
## 21670     2         3     0.5165112053
## 13448     2         1     0.5165073594
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## 13441     2         1     0.5164013460
## 22207     2         3     0.5163540046
## 13445     2         1     0.5163140666
## 21757     2         3     0.5162830159
## 14170     2         1     0.5161365038
## 15805     2         1     0.5159504539
## 13626     2         1     0.5158812773
## 21701     2         3     0.5157008738
## 13620     2         1     0.5156150847
## 13897     2         1     0.5154387383
## 13898     2         1     0.5151557506
## 28837     2         3     0.5150628248
## 24698     2         3     0.5150145855
## 13619     2         1     0.5150012210
## 13645     2         1     0.5149844706
## 13756     2         1     0.5149739538
## 21700     2         3     0.5147175468
## 21844     2         3     0.5146724147
## 21956     2         3     0.5146408696
## 21694     2         3     0.5146216867
## 13511     2         1     0.5145977010
## 19023     2         1     0.5143651851
## 21970     2         3     0.5143595281
## 14034     2         1     0.5139453518
## 13623     2         1     0.5138852650
## 15185     2         1     0.5138814544
## 13562     2         1     0.5138251135
## 13463     2         1     0.5137259505
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## 21797     2         3     0.5132862993
## 13512     2         1     0.5132178682
## 21924     2         3     0.5131821272
## 21852     2         3     0.5131810509
```

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## 19022        2        1   0.5131577194
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## 13634        2        1   0.5131330179
## 21851        2        3   0.5131142545
## 13873        2        1   0.5131070225
## 24701        2        3   0.5130893448
## 22038        2        3   0.5130800588
## 21784        2        3   0.5128983806
## 13662        2        1   0.5128717924
## 13628        2        1   0.5128632571
## 21758        2        3   0.5128543252
## 13425        2        1   0.5128043854
## 21734        2        3   0.5128035784
## 21753        2        3   0.5127553399
## 21880        2        3   0.5127433180
## 21831        2        3   0.5127147714
## 21751        2        3   0.5126920983
## 21854        2        3   0.5123962991
## 13573        2        1   0.5123067614
## 13603        2        1   0.5122717291
## 21752        2        3   0.5122659779
## 24702        2        3   0.5121105422
## 21954        2        3   0.5120939105
## 23211        2        3   0.5120834710
## 22170        2        3   0.5120795788
## 21755        2        3   0.5120651978
## 14352        2        1   0.5120416356
## 14431        2        1   0.5120119501
## 13622        2        1   0.5120033858
## 21783        2        3   0.5116568750
## 22039        2        3   0.5115980230
## 22099        2        3   0.5114356683
## 21923        2        3   0.5114175409
## 21766        2        3   0.5113489386
## 21735        2        3   0.5111227733
## 13624        2        1   0.5110920655
## 13627        2        1   0.5110344858
## 13510        2        1   0.5108840619
## 21762        2        3   0.5108798916
## 22505        2        3   0.5108733698
## 15748        2        1   0.5108727694
## 21693        2        3   0.5108473930
## 13896        2        1   0.5108034757
## 13844        2        1   0.5107617529
## 14089        2        1   0.5107198458
## 13599        2        1   0.5107153647
## 13636        2        1   0.5106585656
## 24703        2        3   0.5106243634
## 14095        2        1   0.5105722366
## 13446        2        1   0.5104551628
## 13661        2        1   0.5104441652
## 13625        2        1   0.5104425906
```

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## 19021          2          1    0.5104313371
## 13764          2          1    0.5103966164
## 14409          2          1    0.5103826361
## 14354          2          1    0.5103783129
## 21788          2          3    0.5103231347
## 21691          2          3    0.5103159019
## 21848          2          3    0.5102789396
## 15747          2          1    0.5102758772
## 14173          2          1    0.5102551120
## 14097          2          1    0.5102280176
## 13601          2          1    0.5101044554
## 13602          2          1    0.5100805388
## 13637          2          1    0.5100517431
## 15806          2          1    0.5100386538
## 21733          2          3    0.5099604359
## 21881          2          3    0.5099577406
## 21849          2          3    0.5099061029
## 14175          2          1    0.5098661992
## 13610          2          1    0.5098385469
## 13377          2          1    0.5096743677
## 13595          2          1    0.5096127244
## 13424          2          1    0.5093347418
## 13979          2          1    0.5093076995
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## 14353          2          1    0.5089562821
## 14351          2          1    0.5089515126
## 13663          2          1    0.5089172001
## 21853          2          3    0.5088767898
## 13443          2          1    0.5088754937
## 14029          2          1    0.5088535586
## 14028          2          1    0.5088205501
## 13600          2          1    0.5087849340
## 13493          2          1    0.5087812815
## 13399          2          1    0.5081994329
## 13449          2          1    0.5081880961
## 13531          2          1    0.5081673701
## 14364          2          1    0.5081344347
## 13497          2          1    0.5081172492
## 21792          2          3    0.5077514020
## 21801          2          3    0.5077446335
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## 21800          2          3    0.5076166099
## 21885          2          3    0.5075906479
## 28982          2          3    0.5075639662
## 21860          2          3    0.5075117418
## 21867          2          3    0.5074914273
## 21832          2          3    0.5073875415
## 22410          2          3    0.5073600046
## 21914          2          3    0.5073584843
## 15184          2          1    0.5073434031
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## 21917      2        3   0.5073348416
## 21754      2        3   0.5073299335
## 21864      2        3   0.5073176829
## 21866      2        3   0.5071377681
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## 21861      2        3   0.5069120814
## 13514      2        1   0.5069019710
## 21789      2        3   0.5068647299
## 21912      2        3   0.5068507543
## 21728      2        3   0.5068481810
## 22102      2        3   0.5067488295
## 21865      2        3   0.5066044142
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## 13396      2        1   0.5062628914
## 13380      2        1   0.5062128233
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## 13572      2        1   0.5061580869
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## 21862      2        3   0.5061014952
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## 21790      2        3   0.5059330366
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## 14090      2        1   0.5055964224
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## 14172      2        1   0.5053178971
## 13395      2        1   0.5053137458
## 13505      2        1   0.5052951556
## 13598      2        1   0.5052866013
## 13508      2        1   0.5052675769
## 13462      2        1   0.5052236695
## 22130      2        3   0.5050862924
## 13355      2        1   0.5050604848
## 13354      2        1   0.5049590930
## 21715      2        3   0.5049432358
## 13926      2        1   0.5049403262
## 13367      2        1   0.5049320445
## 13843      2        1   0.5048086994
## 22013      2        3   0.5048063408
## 13366      2        1   0.5047739118
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## 13378      2        1   0.5046233982
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## 13872      2        1   0.5046037650
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```

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## 13365        2        1      0.5045830984
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## 13495        2        1      0.5045132003
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## 22014        2        3      0.5020502591
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## 21825        2        3   0.5016853303
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## 13376        2        1   0.5011558304
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## 22412        2        3   0.5010153576
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## 13334        2        1   0.5003586762
## 22002        2        3   0.5001061005
## 23216        2        3   0.5000187764
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## 13315        2        1   0.4990146233
## 14429        2        1   0.4990064863
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## 21823        2        3   0.4988563698
## 22071        2        3   0.4988513889
## 14064        2        1   0.4988002619
## 13855        2        1   0.4987466923
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## 15743        2        1   0.4987332545
## 19019        2        1   0.4986917526
```

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## 13565      2          1   0.4982919470
## 13369      2          1   0.4982006683
## 15740      2          1   0.4981425525
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## 21869      2          3   0.4973980057
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## 13960      2          1   0.4972412491
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## 13302      2          1   0.4966164817
## 13591      2          1   0.4966098142
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## 21941      2          3   0.4964760452
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## 22012      2          3   0.4963517219
## 15741      2          1   0.4963200299
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## 21959      2          3   0.4963025802
## 22198      2          3   0.4962685190
## 22096      2          3   0.4962648985
## 21980      2          3   0.4962246679
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## 13517      2          1   0.4961902849
## 21842      2          3   0.4961368596
## 23217      2          3   0.4961350028
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## 13564      2          1   0.4959596479
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```

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## 21896      2          3   0.4957103539
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## 13297      2          1   0.4946620004
## 13693      2          1   0.4946317901
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## 28985      2          3   0.4943776720
## 21915      2          3   0.4939195258
## 21967      2          3   0.4939122488
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## 29085      2          3   0.4925052682
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## 13982      2          1   0.4923974768
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## 21982      2          3   0.4922083088
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## 13475      2          1   0.4921076458
## 13477      2          1   0.4920129811
## 13642      2          1   0.4918581332
## 13139      2          1   0.4917311547
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```

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## 13559      2        1   0.4913670877
## 13296      2        1   0.4913629772
## 13275      2        1   0.4913424420
## 13289      2        1   0.4913091180
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## 13919      2        1   0.4909031356
## 13150      2        1   0.4908217353
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## 13164      2        1   0.4908176756
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## 21976      2        3   0.4907180005
## 22469      2        3   0.4907165759
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## 13696      2        1   0.4905671631
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## 13694      2        1   0.4893936964
## 13304      2        1   0.4893320648
## 13418      2        1   0.4892653054
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## 21999      2        3   0.4884289809
## 22072      2        3   0.4883482616
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## 13695      2        1   0.4882545372
## 22210      2        3   0.4880909407
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## 13373        2        1   0.4866764881
## 13547        2        1   0.4866693381
## 13116        2        1   0.4866569743
## 13404        2        1   0.4866270119
## 13586        2        1   0.4866232131
## 13473        2        1   0.4866049570
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## 13162        2        1   0.4851743560
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```

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## 13179        2        1   0.4824169117
## 13182        2        1   0.4823922856
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## 13175        2        1   0.4801876574
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## 13115        2        1   0.4801712221
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## 14163        2        1   0.4799938251
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```

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## 21985     2        3   0.4788317395
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## 22032     2        3   0.4776734445
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## 13113     2        1   0.4773789997
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## 22422     2        3   0.4769102405
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## 22109     2        3   0.4763762981
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```

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## 22034          2          3   0.4736468632
## 13266          2          1   0.4736257277
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## 13217          2          1   0.4731269465
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```

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## 13272    2    1    0.4718161544
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## 22021    2    3    0.4701016059
## 22197    2    3    0.4701009437
## 22187    2    3    0.4700923791
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```

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## 22123         2         3    0.4668452862
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## 22471         2         3    0.4667285247
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## 14219         2         1    0.4661817795
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## 22441         2         3    0.4661623132
## 22118         2         3    0.4659952714
## 22061         2         3    0.4659336700
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## 13848         2         1    0.4630368293
## 13285         2         1    0.4630264810
```

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## 22121    2    3    0.4622242680
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## 13013    2    1    0.4618896368
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## 13144    2    1    0.4618240674
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## 13923    2    1    0.4607224030
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## 22087    2    3    0.4607114171
## 22086    2    3    0.4607100860
## 13867    2    1    0.4607036191
## 22110    2    3    0.4606866882
## 13130    2    1    0.4606708184
## 22124    2    3    0.4606226753
## 13062    2    1    0.4606211852
## 13170    2    1    0.4605960774
## 13633    2    1    0.4605441928
## 22611    2    3    0.4605422101
## 13213    2    1    0.4604592016
## 13433    2    1    0.4604465061
## 13127    2    1    0.4604190985
## 12996    2    1    0.4604157480
## 13132    2    1    0.4604042904
## 18725    2    1    0.4603426518
## 14218    2    1    0.4602959497
## 22120    2    3    0.4602807626
## 13131    2    1    0.4602341781
## 22126    2    3    0.4602070829
## 12977    2    1    0.4600643346
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## 12951    2    1    0.4599488639
## 12954    2    1    0.4599382523
## 12953    2    1    0.4598565165
## 12997    2    1    0.4596564318
## 22580    2    3    0.4595571582
## 13212    2    1    0.4595084728
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## 13102    2    1    0.4594619723
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## 22140    2    3    0.4593465818
## 13134    2    1    0.4591651860
## 12999    2    1    0.4591263859
## 12976    2    1    0.4590419881
## 13142    2    1    0.4590154573
## 13101    2    1    0.4590138824
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## 13632    2    1    0.4589898410
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## 13210        2        1    0.4589860405
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## 13126        2        1    0.4578921417
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## 22145        2        3    0.4544926509
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## 12980      2      1   0.4534644952
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## 12995      2      1   0.4531715634
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## 13922      2      1   0.4531504736
## 14217      2      1   0.4531262613
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## 22176      2      3   0.4509645289
## 22116      2      3   0.4498836655
## 29286      2      3   0.4496100404
## 22193      2      3   0.4495905097
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## 29369       2       3   0.4494982079
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## 13207       2       1   0.4483742241
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## 13124       2       1   0.4482537649
## 22232       2       3   0.4481261544
## 22799       2       3   0.4480638976
## 22225       2       3   0.4480565719
## 22190       2       3   0.4480083983
## 22224       2       3   0.4479942887
## 22243       2       3   0.4479665106
## 22185       2       3   0.4479537350
## 22245       2       3   0.4479287373
## 22272       2       3   0.4478984013
## 22614       2       3   0.4478978175
## 22175       2       3   0.4478848948
## 22181       2       3   0.4478843269
## 22254       2       3   0.4478627641
## 22236       2       3   0.4478612561
## 22261       2       3   0.4478419014
## 22173       2       3   0.4478407487
## 22444       2       3   0.4478386195
## 22240       2       3   0.4477846487
## 22226       2       3   0.4476931406
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## 13153       2       1   0.4473536338
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## 24898       2       3   0.4471568614
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## 22293       2       3   0.4469360729
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## 13723       2       1   0.4466924643
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## 22322       2       3   0.4463303738
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## 13284         2        1    0.4461834285
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## 13974         2        1    0.4455937668
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## 13205         2        1    0.4453001007
## 22238         2        3    0.4452342661
## 22241         2        3    0.4449339861
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## 22344         2        3    0.4448858129
## 14216         2        1    0.4448078717
## 13522         2        1    0.4447966459
## 13523         2        1    0.4446822538
## 13975         2        1    0.4443845719
## 13073         2        1    0.4442396993
## 13521         2        1    0.4441815345
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## 22227         2        3    0.4439601896
## 22242         2        3    0.4439509788
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## 22244         2        3    0.4434901287
## 12941         2        1    0.4434534339
## 24899         2        3    0.4432012470
## 22246         2        3    0.4432003653
## 13576         2        1    0.4431940999
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## 13010         2        1    0.4427231075
## 13203         2        1    0.4427228920
## 19195         2        1    0.4426896500
## 13011         2        1    0.4426874215
## 13482         2        1    0.4426565011
## 15482         2        1    0.4424867955
## 13283         2        1    0.4424570905
## 19194         2        1    0.4424037952
## 22345         2        3    0.4419623752
## 13103         2        1    0.4417349174
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## 22182         2        3    0.4416097187
## 22280         2        3    0.4416013336
## 12767         2        1    0.4415755207
## 22281         2        3    0.4415727672
## 22212         2        3    0.4415486597
## 22295         2        3    0.4415299296
## 22615         2        3    0.4415185190
## 22277         2        3    0.4414974000
## 22800         2        3    0.4414933442
## 22217         2        3    0.4414722434
## 22616         2        3    0.4414006876
```

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## 22216      2         3   0.4411626313
## 22463      2         3   0.4411320139
## 22343      2         3   0.4410331903
## 24900      2         3   0.4408654633
## 22279      2         3   0.4408561576
## 22282      2         3   0.4408362514
## 22183      2         3   0.4407463003
## 22464      2         3   0.4407373274
## 22250      2         3   0.4405966487
## 22234      2         3   0.4405459501
## 16033      2         1   0.4405191335
## 22262      2         3   0.4401315207
## 22801      2         3   0.4401193252
## 13049      2         1   0.4399498046
## 22283      2         3   0.4399461681
## 13046      2         1   0.4399217065
## 24901      2         3   0.4399066908
## 13016      2         1   0.4399023096
## 22278      2         3   0.4398968896
## 22690      2         3   0.4398940740
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## 13251      2         1   0.4398521299
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## 13079      2         1   0.4397423754
## 12926      2         1   0.4397237966
## 13042      2         1   0.4397145677
## 12831      2         1   0.4396930937
## 14214      2         1   0.4395693376
## 13705      2         1   0.4395083968
## 22128      2         3   0.4394037677
## 14215      2         1   0.4392767355
## 13080      2         1   0.4392401365
## 13250      2         1   0.4391677934
## 12897      2         1   0.4391578695
## 22233      2         3   0.4391458107
## 12765      2         1   0.4391407721
## 13407      2         1   0.4391353961
## 22215      2         3   0.4390825372
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## 18722      2         1   0.4388845114
## 12970      2         1   0.4387144676
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## 13429      2         1   0.4381520436
## 22448      2         3   0.4378205155
## 22681      2         3   0.4377780882
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## 22445      2         3   0.4375204708
## 22752      2         3   0.4375098505
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```

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## 13609      2        1    0.4374824782
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## 13202      2        1    0.4372106344
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## 22228      2        3    0.4371131337
## 13084      2        1    0.4369983437
## 13083      2        1    0.4369696696
## 22447      2        3    0.4367936442
## 13047      2        1    0.4365485550
## 12833      2        1    0.4365097263
## 13278      2        1    0.4364326419
## 13262      2        1    0.4364068843
## 22274      2        3    0.4362820104
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## 13053      2        1    0.4356746950
## 22286      2        3    0.4354658872
## 13481      2        1    0.4354000218
## 13529      2        1    0.4353682472
## 12834      2        1    0.4353069716
## 22214      2        3    0.4351361692
## 22218      2        3    0.4350733321
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## 22465      2        3    0.4350538523
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## 22270      2        3    0.4348379135
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## 22362      2        3    0.4348105731
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## 13279      2        1    0.4347635641
## 22351      2        3    0.4347145289
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## 12766      2        1    0.4345217799
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## 22791      2        3    0.4339858435
## 22726      2        3    0.4339834853
## 22350      2        3    0.4338064820
## 22558      2        3    0.4338025091
## 22361      2        3    0.4337901091
## 22466      2        3    0.4333590820
## 22311      2        3    0.4331070887
## 22363      2        3    0.4330876158
## 22357      2        3    0.4328483658
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## 13052        2        1   0.4324937395
## 12760        2        1   0.4324320983
## 15480        2        1   0.4324170315
## 12786        2        1   0.4322454378
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## 12895        2        1   0.4320761869
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## 13528        2        1   0.4317074472
## 18719        2        1   0.4316776323
## 22358        2        3   0.4316408120
## 12975        2        1   0.4316149473
## 13703        2        1   0.4315029208
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## 12828        2        1   0.4311258993
## 12762        2        1   0.4310150976
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## 22556        2        3   0.4309505920
## 12812        2        1   0.4307075011
## 13035        2        1   0.4306841349
## 22221        2        3   0.4305806168
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## 22235        2        3   0.4298119257
## 22557        2        3   0.4294588487
## 14212        2        1   0.4292581533
## 12830        2        1   0.4291422312
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## 22365        2        3   0.4289417159
## 13760        2        1   0.4289194790
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## 22617        2        3   0.4283657718
## 22379        2        3   0.4283649520
## 22420        2        3   0.4282925248
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## 22374        2        3   0.4281793682
## 22356        2        3   0.4281035170
## 22253        2        3   0.4279392664
## 22378        2        3   0.4271732598
## 22816        2        3   0.4271584009
## 23748        2        3   0.4269377230
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## 22252          2          3    0.4259290599
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## 12872          2          1    0.4256512725
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## 13260          2          1    0.4250403139
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## 13490          2          1    0.4248525341
## 12901          2          1    0.4247738306
## 22596          2          3    0.4246854176
## 13758          2          1    0.4245728206
## 12726          2          1    0.4244715157
## 22421          2          3    0.4243156679
## 13759          2          1    0.4242270578
## 13697          2          1    0.4239840924
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## 13259          2          1    0.4239289328
## 22269          2          3    0.4236125449
## 22290          2          3    0.4235360774
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## 13704          2          1    0.4233806929
## 12728          2          1    0.4232486188
## 12957          2          1    0.4232001461
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## 12725          2          1    0.4228279996
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## 22595          2          3    0.4228013867
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## 22299         2           3   0.4216881666
## 22312         2           3   0.4216774521
## 22352         2           3   0.4216491750
## 22297         2           3   0.4214752221
## 22527         2           3   0.4214575645
## 22313         2           3   0.4212804926
## 22402         2           3   0.4212774808
## 22430         2           3   0.4212741324
## 13638         2           1   0.4212706007
## 12854         2           1   0.4212618660
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## 22287         2           3   0.4212189230
## 22769         2           3   0.4211849690
## 22309         2           3   0.4211424630
## 22380         2           3   0.4210071526
## 22298         2           3   0.4209747759
## 22386         2           3   0.4209665640
## 22439         2           3   0.4209196925
## 22302         2           3   0.4208935571
## 22440         2           3   0.4207255967
## 22268         2           3   0.4205800142
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## 13048         2           1   0.4204660050
## 22326         2           3   0.4204092047
## 22732         2           3   0.4204007798
## 22316         2           3   0.4203651539
## 13388         2           1   0.4203627783
## 13085         2           1   0.4203455520
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## 22288         2           3   0.4199318584
## 22310         2           3   0.4197672152
## 22382         2           3   0.4197078067
## 23583         2           3   0.4195194920
## 23167         2           3   0.4194360638
## 22300         2           3   0.4191607762
## 12928         2           1   0.4191293077
## 13411         2           1   0.4191261044
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## 22308         2           3   0.4182528504
## 12607         2           1   0.4180535184
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## 13233         2           1   0.4180120881
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```

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## 12911          2          1    0.4179409615
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## 17896          2          1    0.4177211461
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## 12961          2          1    0.4175911919
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## 13077          2          1    0.4173437179
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## 12642          2          1    0.4172665698
## 22383          2          3    0.4172576757
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## 12743          2          1    0.4169844773
## 12797          2          1    0.4169827759
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## 22336          2          3    0.4148005962
## 22318          2          3    0.4147712644
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```

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## 29661          2          3    0.4143311635
## 22335          2          3    0.4142578207
## 22332          2          3    0.4142362829
## 22985          2          3    0.4141541794
## 22639          2          3    0.4139208075
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## 12554          2          1    0.4104092403
## 13257          2          1    0.4103887191
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```

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## 12986          2          1  0.4102297398
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## 12907          2          1  0.4100680393
## 12544          2          1  0.4098590969
## 13058          2          1  0.4094508465
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## 22433          2          3  0.4088708308
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## 22987          2          3  0.4083710072
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## 13036          2          1  0.4082465154
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## 22474          2          3  0.4079118649
## 12720          2          1  0.4078496367
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## 13026          2          1  0.4078066227
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## 22437          2          3  0.4076874397
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```

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## 22501       2       3   0.4056724531
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## 23364       2       3   0.4054714438
## 13025       2       1   0.4054279714
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## 13488       2       1   0.4042288604
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## 22461       2       3   0.4041579044
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## 22371       2       3   0.4034714244
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## 12542       2       1   0.4032216603
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## 12769       2       1   0.4027823848
## 12864       2       1   0.4027758266
## 12771       2       1   0.4027591584
## 12823       2       1   0.4027236857
## 12776       2       1   0.4027164491
## 22520       2       3   0.4027103127
## 13007       2       1   0.4024690880
## 12494       2       1   0.4024511970
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## 12541       2       1   0.4024269046
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## 12770       2       1   0.4019869505
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```

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## 12915        2        1    0.4012509911
## 12775        2        1    0.4012310067
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## 12439        2        1    0.4011944318
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## 12540        2        1    0.4009413082
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## 22731        2        3    0.4008270087
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## 12598        2        1    0.3994011796
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## 13498        2        1    0.3992405449
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## 12868        2        1    0.3987588739
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## 12869        2        1    0.3984836472
```

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## 12636        2        1   0.3983928758
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## 13487        2        1   0.3977923219
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## 22524        2        3   0.3977798144
## 12772        2        1   0.3975822042
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## 13159        2        1   0.3975126160
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## 22408        2        3   0.3968194187
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## 12821        2        1   0.3939975883
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## 22493        2        3   0.3937018885
## 22495        2        3   0.3936750567
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## 22570        2        3   0.3936587326
## 22506        2        3   0.3936068997
## 22509        2        3   0.3935865662
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```

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## 22593          2          3    0.3928928027
## 12763          2          1    0.3928642440
## 18001          2          1    0.3928097041
## 22535          2          3    0.3926386728
## 22491          2          3    0.3924199902
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## 12764          2          1    0.3923763676
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## 12532          2          1    0.3914221711
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## 22846          2          3    0.3903185271
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```

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## 22609          2          3    0.3827956906
## 22907          2          3    0.3827673142
## 12515          2          1    0.3827570606
## 22682          2          3    0.3827360155
## 23260          2          3    0.3821563722
## 22962          2          3    0.3821373854
## 12593          2          1    0.3821085363
## 13398          2          1    0.3820916799
## 22497          2          3    0.3820881620
## 23493          2          3    0.3820738522
## 13240          2          1    0.3818892820
## 12754          2          1    0.3818548630
## 18711          2          1    0.3818372755
## 12516          2          1    0.3812614615
## 12843          2          1    0.3812614615
## 12752          2          1    0.3812306729
## 22764          2          3    0.3808994601
## 22483          2          3    0.3805223387
## 13349          2          1    0.3801862026
## 22712          2          3    0.3800945342
## 12304          2          1    0.3799122337
## 22456          2          3    0.3796937759
## 23494          2          3    0.3792428204
## 12757          2          1    0.3791317605
## 12741          2          1    0.3791240993
## 22644          2          3    0.3790927695
## 22715          2          3    0.3790691518
## 22645          2          3    0.3790608123
## 22546          2          3    0.3790563861
## 22649          2          3    0.3790381751
## 22549          2          3    0.3790372811
```

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## 25514          2          3   0.3790175557
## 12580          2          1   0.3789542563
## 12301          2          1   0.3789530126
## 22521          2          3   0.3789222670
## 12591          2          1   0.3789183570
## 13004          2          1   0.3789097098
## 22647          2          3   0.3788791339
## 12480          2          1   0.3788682035
## 12746          2          1   0.3788670317
## 12589          2          1   0.3788413255
## 12604          2          1   0.3788363869
## 12303          2          1   0.3787766401
## 12345          2          1   0.3787644261
## 13347          2          1   0.3785829432
## 22811          2          3   0.3785823878
## 22544          2          3   0.3785800392
## 12421          2          1   0.3784851463
## 22813          2          3   0.3783369087
## 12344          2          1   0.3782970861
## 14055          2          1   0.3782783395
## 12842          2          1   0.3782746745
## 23496          2          3   0.3782676367
## 12302          2          1   0.3782378198
## 13237          2          1   0.3782083696
## 22572          2          3   0.3781450211
## 22646          2          3   0.3780485929
## 12337          2          1   0.3780173370
## 22547          2          3   0.3780157343
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## 12373          2          1   0.3778415073
## 12944          2          1   0.3778109237
## 12469          2          1   0.3777370721
## 25516          2          3   0.3776644626
## 22522          2          3   0.3776177571
## 13643          2          1   0.3775432461
## 13157          2          1   0.3773786521
## 12730          2          1   0.3773383284
## 13238          2          1   0.3769805639
## 25515          2          3   0.3768942962
## 22765          2          3   0.3768615729
## 12847          2          1   0.3767778869
## 12584          2          1   0.3767559416
## 12420          2          1   0.3767372350
## 12517          2          1   0.3766968858
## 12740          2          1   0.3765827504
## 12748          2          1   0.3765800514
## 12585          2          1   0.3763907992
## 13644          2          1   0.3763804005
## 22643          2          3   0.3763714585
## 23497          2          3   0.3763010846
## 22571          2          3   0.3760960082
## 22559          2          3   0.3760816025
## 23294          2          3   0.3760732338
## 22650          2          3   0.3760507667
```

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## 22626      2        3   0.3760382297
## 22648      2        3   0.3757110063
## 12579      2        1   0.3756673192
## 18710      2        1   0.3756534657
## 12348      2        1   0.3754616949
## 12612      2        1   0.3753550084
## 22545      2        3   0.3751159193
## 12346      2        1   0.3749185067
## 13156      2        1   0.3748738922
## 22625      2        3   0.3747896501
## 12342      2        1   0.3746904560
## 12372      2        1   0.3740925989
## 12583      2        1   0.3740921249
## 12789      2        1   0.3739642628
## 12347      2        1   0.3738283110
## 12349      2        1   0.3738084451
## 12590      2        1   0.3731431672
## 12582      2        1   0.3731167254
## 22812      2        3   0.3727975657
## 13364      2        1   0.3727972218
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## 12343      2        1   0.3721115608
## 22969      2        3   0.3719539168
## 12350      2        1   0.3719170658
## 22598      2        3   0.3715688055
## 23047      2        3   0.3715570737
## 22584      2        3   0.3715502020
## 22656      2        3   0.3715306702
## 22684      2        3   0.3715189236
## 29954      2        3   0.3715096114
## 22655      2        3   0.3714819063
## 22588      2        3   0.3714500225
## 22652      2        3   0.3714482121
## 22620      2        3   0.3714474904
## 22586      2        3   0.3714335120
## 22657      2        3   0.3712977686
## 12841      2        1   0.3711426253
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## 22653      2        3   0.3711099748
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## 13554      2        1   0.3705300517
## 12268      2        1   0.3703511675
```

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## 22599       2        3   0.3703229513
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## 12563       2        1   0.3703059392
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## 12257       2        1   0.3702769538
## 12736       2        1   0.3702553287
## 14571       2        1   0.3702447181
## 22737       2        3   0.3701122838
## 12267       2        1   0.3700846335
## 12840       2        1   0.3700620220
## 12251       2        1   0.3700188836
## 13239       2        1   0.3700004925
## 13236       2        1   0.3700004267
## 14056       2        1   0.3699510918
## 13397       2        1   0.3699175048
## 23261       2        3   0.3697018206
## 12254       2        1   0.3696938038
## 23311       2        3   0.3692002948
## 22683       2        3   0.3691987942
## 12577       2        1   0.3691481688
## 22600       2        3   0.3688692708
## 22691       2        3   0.3688490416
## 12522       2        1   0.3686730746
## 22892       2        3   0.3686415504
## 12735       2        1   0.3685997129
## 12570       2        1   0.3685580008
## 12788       2        1   0.3685565803
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## 12568       2        1   0.3682048020
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## 22565       2        3   0.3680134882
## 12252       2        1   0.3680124696
## 22991       2        3   0.3679781454
## 29950       2        3   0.3679774683
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## 13064       2        1   0.3674093251
## 12574       2        1   0.3672294388
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## 22716       2        3   0.3667009007
## 22754       2        3   0.3666820717
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## 22850       2        3   0.3661558984
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## 13392       2        1   0.3658826549
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```

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## 29953              2         3    0.3653291192
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## 12548              2         1    0.3647232728
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## 12892              2         1    0.3639373958
## 22610              2         3    0.3639364811
## 23607              2         3    0.3639142819
## 22662              2         3    0.3639044370
## 22767              2         3    0.3639009573
## 30049              2         3    0.3638985776
## 22687              2         3    0.3638660773
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## 23609              2         3    0.3636106358
## 23227              2         3    0.3636039641
## 22868              2         3    0.3635978779
## 22661              2         3    0.3635664993
## 23296              2         3    0.3635317193
## 23610              2         3    0.3635271205
## 22686              2         3    0.3635185324
## 22668              2         3    0.3633496095
## 23350              2         3    0.3633459126
## 22637              2         3    0.3632314759
## 23308              2         3    0.3632104351
## 22632              2         3    0.3630284653
## 12575              2         1    0.3629936355
## 12567              2         1    0.3629438753
## 22665              2         3    0.3629412759
## 23262              2         3    0.3629325819
## 22710              2         3    0.3627201919
## 23295              2         3    0.3626567335
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## 29951              2         3    0.3623316899
## 12262              2         1    0.3623145675
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## 12467              2         1    0.3622868411
## 12534              2         1    0.3622789488
## 12550              2         1    0.3622503520
## 12547              2         1    0.3622301245
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## 12836              2         1    0.3620209328
## 12628              2         1    0.3620028599
## 12551              2         1    0.3619845128
## 22660              2         3    0.3618494475
## 19242              2         1    0.3618296630
## 12629              2         1    0.3616976181
## 22785              2         3    0.3616506172
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## 12190              2         1    0.3616152847
```

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## 22663          2          3   0.3615743379
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## 22819          2          3   0.3612618042
## 12630          2          1   0.3612350241
## 12632          2          1   0.3609042906
## 12466          2          1   0.3609039786
## 12837          2          1   0.3609014763
## 12729          2          1   0.3607310432
## 12616          2          1   0.3606831582
## 13391          2          1   0.3604533637
## 22635          2          3   0.3604189891
## 12249          2          1   0.3603950225
## 12838          2          1   0.3602328660
## 12457          2          1   0.3597640994
## 12891          2          1   0.3597431890
## 22664          2          3   0.3597311950
## 14568          2          1   0.3595738796
## 12839          2          1   0.3595610947
## 12199          2          1   0.3595524665
## 12474          2          1   0.3595329746
## 22667          2          3   0.3593213696
## 22654          2          3   0.3593167197
## 22613          2          3   0.3593104819
## 23608          2          3   0.3593077837
## 12576          2          1   0.3592018247
## 12569          2          1   0.3591883084
## 12475          2          1   0.3591111046
## 12454          2          1   0.3590666237
## 13579          2          1   0.3590592809
## 12250          2          1   0.3590399760
## 12627          2          1   0.3588928963
## 18305          2          1   0.3583480659
## 23948          2          3   0.3582788958
## 12429          2          1   0.3581073355
## 12234          2          1   0.3580756059
## 12455          2          1   0.3580720744
## 12200          2          1   0.3580093903
## 12571          2          1   0.3579362390
## 12816          2          1   0.3579180030
## 22869          2          3   0.3577811767
## 22666          2          3   0.3577807923
## 22621          2          3   0.3575042196
## 23263          2          3   0.3574672439
## 18304          2          1   0.3574621069
## 12939          2          1   0.3574332245
## 13672          2          1   0.3572603456
## 22634          2          3   0.3569862437
## 22695          2          3   0.3569698848
## 22820          2          3   0.3569047681
## 12549          2          1   0.3566189710
## 12631          2          1   0.3565360536
## 25519          2          3   0.3562450920
## 22698          2          3   0.3561950513
## 22738          2          3   0.3561662041
```

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## 22699       2        3    0.3561523476
## 22929       2        3    0.3561346822
## 22744       2        3    0.3560795331
## 23309       2        3    0.3560792778
## 22719       2        3    0.3560575523
## 22871       2        3    0.3560538332
## 22740       2        3    0.3560424072
## 23264       2        3    0.3560173605
## 30050       2        3    0.3560119666
## 23039       2        3    0.3559008477
## 22697       2        3    0.3558397085
## 22739       2        3    0.3557970104
## 22641       2        3    0.3556742918
## 23048       2        3    0.3556430472
## 12201       2        1    0.3553620515
## 22725       2        3    0.3552215951
## 22642       2        3    0.3552135242
## 22766       2        3    0.3552058816
## 23229       2        3    0.3550015176
## 22701       2        3    0.3549548652
## 22746       2        3    0.3548621962
## 22640       2        3    0.3548519754
## 22674       2        3    0.3545450339
## 22718       2        3    0.3543995271
## 12430       2        1    0.3543358155
## 22700       2        3    0.3538799627
## 12197       2        1    0.3537597080
## 13234       2        1    0.3537423960
## 12334       2        1    0.3537053667
## 12196       2        1    0.3537026666
## 12533       2        1    0.3536619585
## 12202       2        1    0.3536296358
## 12444       2        1    0.3536178291
## 12452       2        1    0.3536058240
## 12449       2        1    0.3535937118
## 30051       2        3    0.3535827561
## 22930       2        3    0.3535681031
## 12243       2        1    0.3535671659
## 13326       2        1    0.3535540248
## 12878       2        1    0.3535365998
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## 12241       2        1    0.3534045576
## 13281       2        1    0.3533514151
## 12244       2        1    0.3532952901
## 12248       2        1    0.3532245783
## 12446       2        1    0.3532031124
## 12625       2        1    0.3531745157
## 12198       2        1    0.3531298107
## 13670       2        1    0.3531014886
## 12493       2        1    0.3530980667
## 22931       2        3    0.3530304598
## 24166       2        3    0.3529989885
```

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## 12240         2           1   0.3528144078
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## 24167         2           3   0.3527513200
## 22696         2           3   0.3527430470
## 22747         2           3   0.3527223020
## 22992         2           3   0.3526708263
## 22760         2           3   0.3523139210
## 12203         2           1   0.3522473747
## 12247         2           1   0.3521186385
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## 12195         2           1   0.3518509116
## 12879         2           1   0.3516718382
## 23228         2           3   0.3516685547
## 22745         2           3   0.3516537040
## 22742         2           3   0.3514073913
## 12239         2           1   0.3510521603
## 12329         2           1   0.3510212599
## 23155         2           3   0.3509089189
## 22786         2           3   0.3506511906
## 23265         2           3   0.3506206445
## 12443         2           1   0.3506173799
## 12245         2           1   0.3505892129
## 12445         2           1   0.3504440796
## 12154         2           1   0.3504032977
## 12427         2           1   0.3503695946
## 12451         2           1   0.3503334765
## 22743         2           3   0.3501654630
## 12242         2           1   0.3498544232
## 12246         2           1   0.3498316412
## 12719         2           1   0.3497893926
## 13256         2           1   0.3496275336
## 23310         2           3   0.3493193469
## 23351         2           3   0.3492667330
## 13235         2           1   0.3489592678
## 12448         2           1   0.3488048474
## 12880         2           1   0.3487439086
## 23949         2           3   0.3483953971
## 22809         2           3   0.3483739117
## 22658         2           3   0.3483691147
## 22707         2           3   0.3483691147
## 24060         2           3   0.3482521162
## 22709         2           3   0.3482123822
## 22807         2           3   0.3481642733
## 23297         2           3   0.3481508626
## 22993         2           3   0.3480777616
## 23230         2           3   0.3480288720
## 23040         2           3   0.3479511155
## 12447         2           1   0.3479016194
## 12426         2           1   0.3478331993
## 26057         2           3   0.3478110044
## 22840         2           3   0.3478034732
## 22782         2           3   0.3477746364
## 22805         2           3   0.3475670629
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```

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## 22994     2       3   0.3471671211
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## 12453     2       1   0.3470800794
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## 23231     2       3   0.3467597382
## 22839     2       3   0.3467295283
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## 22995     2       3   0.3463278815
## 22758     2       3   0.3462669562
## 22838     2       3   0.3462665266
## 22721     2       3   0.3461406799
## 19298     2       1   0.3461286051
## 22773     2       3   0.3461169108
## 22722     2       3   0.3461090263
## 12492     2       1   0.3458646424
## 22787     2       3   0.3455367995
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## 19299     2       1   0.3451057842
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## 22659     2       3   0.3449445773
## 22759     2       3   0.3449344565
## 12315     2       1   0.3448818738
## 17623     2       1   0.3447876115
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## 12292     2       1   0.3435775324
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## 22772     2       3   0.3431413206
## 12588     2       1   0.3431283647
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```

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## 12357    2       1   0.3418694794
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## 12370    2       1   0.3401593266
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## 22703    2       3   0.3388267201
## 22761    2       3   0.3387813615
## 22831    2       3   0.3386870379
## 22996    2       3   0.3386568756
## 22999    2       3   0.3386397034
## 12328    2       1   0.3385401601
## 26129    2       3   0.3383074471
## 22784    2       3   0.3383034635
## 12476    2       1   0.3382933031
## 22724    2       3   0.3382888545
## 22704    2       3   0.3381792728
## 25812    2       3   0.3378011723
## 22702    2       3   0.3376220794
## 12293    2       1   0.3372493669
## 22823    2       3   0.3370604726
## 23282    2       3   0.3365724152
## 23421    2       3   0.3363817654
## 12091    2       1   0.3362612510
## 12368    2       1   0.3362547675
```

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## 12134          2          1    0.3362416378
## 12028          2          1    0.3362279365
## 12307          2          1    0.3361761597
## 12101          2          1    0.3361149480
## 12875          2          1    0.3361077070
## 12026          2          1    0.3360693213
## 12354          2          1    0.3360470346
## 11984          2          1    0.3360218786
## 23207          2          3    0.3359428916
## 12204          2          1    0.3359166036
## 12135          2          1    0.3359120964
## 12787          2          1    0.3359095265
## 12309          2          1    0.3358993864
## 12027          2          1    0.3358781739
## 18301          2          1    0.3355879846
## 12149          2          1    0.3355594723
## 12938          2          1    0.3353314334
## 14427          2          1    0.3352753456
## 22862          2          3    0.3352281133
## 12305          2          1    0.3352173226
## 12102          2          1    0.3351242431
## 22723          2          3    0.3349192384
## 18302          2          1    0.3348936740
## 12312          2          1    0.3348854131
## 12108          2          1    0.3348823742
## 13253          2          1    0.3347310306
## 14565          2          1    0.3347261171
## 12165          2          1    0.3346915782
## 22842          2          3    0.3344893050
## 12237          2          1    0.3342388040
## 17622          2          1    0.3342113500
## 13323          2          1    0.3338847351
## 22859          2          3    0.3336678833
## 22971          2          3    0.3336558185
## 22705          2          3    0.3336317866
## 22735          2          3    0.3336099523
## 12107          2          1    0.3335935544
## 22824          2          3    0.3333619356
## 13154          2          1    0.3331524973
## 12417          2          1    0.3331158282
## 12025          2          1    0.3329501346
## 12236          2          1    0.3329425764
## 12416          2          1    0.3328471438
## 13092          2          1    0.3328328682
## 12355          2          1    0.3328260685
## 12369          2          1    0.3326996110
## 22903          2          3    0.3323285940
## 22762          2          3    0.3323188306
## 22829          2          3    0.3323101733
## 23086          2          3    0.3322834039
## 24061          2          3    0.3322742413
## 23267          2          3    0.3322475261
## 22789          2          3    0.3321978461
## 12781          2          1    0.3321762879
```

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## 22902         2            3  0.3321465663
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## 22894         2            3  0.3320079303
## 23266         2            3  0.3319673427
## 22750         2            3  0.3319393943
## 23268         2            3  0.3319376556
## 23232         2            3  0.3317862841
## 22898         2            3  0.3317860521
## 22905         2            3  0.3317776220
## 22788         2            3  0.3317317608
## 22895         2            3  0.3316899167
## 22826         2            3  0.3316179290
## 12782         2            1  0.3315764141
## 22802         2            3  0.3315288738
## 22866         2            3  0.3314928150
## 11985         2            1  0.3313948320
## 12092         2            1  0.3312576826
## 22897         2            3  0.3311630268
## 24195         2            3  0.3311121480
## 22861         2            3  0.3307001438
## 12093         2            1  0.3305130449
## 12205         2            1  0.3304935077
## 30190         2            3  0.3301383295
## 22751         2            3  0.3301073462
## 11986         2            1  0.3298226357
## 12306         2            1  0.3298011589
## 12308         2            1  0.3297614347
## 13093         2            1  0.3297467934
## 22777         2            3  0.3296187876
## 22779         2            3  0.3296153219
## 22933         2            3  0.3296150096
## 12168         2            1  0.3295127025
## 22776         2            3  0.3292199008
## 22768         2            3  0.3292008114
## 22856         2            3  0.3290066991
## 23614         2            3  0.3289969396
## 12106         2            1  0.3287859551
## 13344         2            1  0.3287587255
## 12238         2            1  0.3287331985
## 23027         2            3  0.3285831066
## 12311         2            1  0.3284736612
## 22780         2            3  0.3276913255
## 22896         2            3  0.3276313148
## 12780         2            1  0.3272306671
## 18300         2            1  0.3272221346
## 12294         2            1  0.3272145189
## 12175         2            1  0.3271832253
## 12142         2            1  0.3271245166
## 11982         2            1  0.3270972571
## 12016         2            1  0.3270722142
## 12363         2            1  0.3270699479
## 12022         2            1  0.3270346575
## 12188         2            1  0.3270222966
## 11980         2            1  0.3270164922
```

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## 13280      2       1    0.3270019910
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## 22775      2       3    0.3269717751
## 22825      2       3    0.3269717625
## 12017      2       1    0.3269667634
## 22904      2       3    0.3269353795
## 12295      2       1    0.3268789503
## 18297      2       1    0.3266957356
## 12023      2       1    0.3266707935
## 12364      2       1    0.3265886047
## 12297      2       1    0.3265701093
## 12020      2       1    0.3265462242
## 18299      2       1    0.3265209010
## 12870      2       1    0.3265095611
## 22828      2       3    0.3264954703
## 22781      2       3    0.3264710660
## 22901      2       3    0.3264524823
## 22900      2       3    0.3264373241
## 24196      2       3    0.3264230280
## 13169      2       1    0.3263448435
## 12176      2       1    0.3263114951
## 12019      2       1    0.3263053341
## 12024      2       1    0.3262827886
## 22741      2       3    0.3261978959
## 12192      2       1    0.3259228692
## 18298      2       1    0.3257644546
## 12352      2       1    0.3257475159
## 23026      2       3    0.3256521457
## 12310      2       1    0.3252095818
## 12177      2       1    0.3247910016
## 12140      2       1    0.3247761192
## 12496      2       1    0.3246510091
## 22899      2       3    0.3245472017
## 22939      2       3    0.3241772971
## 22936      2       3    0.3241524434
## 22834      2       3    0.3240651739
## 30276      2       3    0.3240622100
## 23019      2       3    0.3239556066
## 11981      2       1    0.3239546625
## 12353      2       1    0.3238988038
## 22827      2       3    0.3238337017
## 23347      2       3    0.3238267964
## 22937      2       3    0.3237804761
## 22963      2       3    0.3237652572
## 22957      2       3    0.3237205171
## 22940      2       3    0.3235711418
## 22835      2       3    0.3235383896
## 22818      2       3    0.3235269020
## 12174      2       1    0.3235026519
## 12191      2       1    0.3234576769
## 14425      2       1    0.3234576769
## 12299      2       1    0.3234291868
## 23073      2       3    0.3233360907
## 24197      2       3    0.3233225522
```

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## 22843          2          3   0.3232396547
## 12362          2          1   0.3232165708
## 12495          2          1   0.3231985236
## 22908          2          3   0.3231805377
## 23615          2          3   0.3228612154
## 12187          2          1   0.3226795258
## 13063          2          1   0.3226784563
## 12021          2          1   0.3225734769
## 12937          2          1   0.3223969229
## 12365          2          1   0.3223947444
## 12090          2          1   0.3223805530
## 12141          2          1   0.3223756923
## 22909          2          3   0.3223738349
## 25813          2          3   0.3221117752
## 23422          2          3   0.3220844589
## 22844          2          3   0.3219726544
## 12178          2          1   0.3217505927
## 22938          2          3   0.3216056409
## 22881          2          3   0.3215979575
## 22837          2          3   0.3214091009
## 22833          2          3   0.3210195640
## 12018          2          1   0.3209079004
## 23270          2          3   0.3208977549
## 23156          2          3   0.3208678995
## 12263          2          1   0.3208669582
## 30277          2          3   0.3208648812
## 23271          2          3   0.3191005751
## 11983          2          1   0.3188782603
## 22810          2          3   0.3188414881
## 22854          2          3   0.3188314505
## 12189          2          1   0.3186359025
## 12361          2          1   0.3186218296
## 14426          2          1   0.3185794024
## 22836          2          3   0.3183508943
## 23346          2          3   0.3183426977
## 22855          2          3   0.3183351593
## 23269          2          3   0.3182613614
## 12969          2          1   0.3181297462
## 13107          2          1   0.3179937731
## 12015          2          1   0.3179496998
## 12219          2          1   0.3179317393
## 13029          2          1   0.3178632333
## 17488          2          1   0.3178561292
## 12332          2          1   0.3178549480
## 12097          2          1   0.3178120495
## 12964          2          1   0.3177561014
## 12001          2          1   0.3177009910
## 13198          2          1   0.3176697153
## 19167          2          1   0.3175479180
## 12367          2          1   0.3175461229
## 24198          2          3   0.3175396823
## 12298          2          1   0.3175161387
## 12366          2          1   0.3175068444
## 12003          2          1   0.3174973916
```

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## 22817        2         3    0.3174897932
## 12778        2         1    0.3174480771
## 13030        2         1    0.3171126876
## 12221        2         1    0.3170701109
## 12220        2         1    0.3170467380
## 14423        2         1    0.3170397984
## 12803        2         1    0.3170035308
## 22778        2         3    0.3167486398
## 17489        2         1    0.3167133821
## 11997        2         1    0.3166121060
## 13199        2         1    0.3164834369
## 12296        2         1    0.3163558703
## 11961        2         1    0.3162566848
## 12962        2         1    0.3162354741
## 11962        2         1    0.3161219692
## 22927        2         3    0.3158357826
## 30279        2         3    0.3157874840
## 23616        2         3    0.3157810236
## 22968        2         3    0.3157703731
## 22997        2         3    0.3157672942
## 22935        2         3    0.3156852012
## 13087        2         1    0.3156677536
## 22889        2         3    0.3156532943
## 12465        2         1    0.3156294545
## 22982        2         3    0.3155911931
## 23348        2         3    0.3155160492
## 22886        2         3    0.3154950467
## 11998        2         1    0.3154788656
## 13197        2         1    0.3154605851
## 22874        2         3    0.3154500644
## 22882        2         3    0.3154489509
## 22998        2         3    0.3154373334
## 23532        2         3    0.3154345477
## 22926        2         3    0.3153944861
## 22873        2         3    0.3152741556
## 22876        2         3    0.3152165450
## 12967        2         1    0.3151086107
## 19239        2         1    0.3150521086
## 12014        2         1    0.3150312889
## 25815        2         3    0.3149806679
## 22984        2         3    0.3149681379
## 12146        2         1    0.3148179014
## 22945        2         3    0.3146601973
## 22944        2         3    0.3142166696
## 25814        2         3    0.3141454437
## 11960        2         1    0.3141031722
## 12300        2         1    0.3139897943
## 22943        2         3    0.3138257438
## 22884        2         3    0.3138219807
## 22877        2         3    0.3136253371
## 12002        2         1    0.3135765006
## 12419        2         1    0.3135050071
## 22864        2         3    0.3131602111
## 23478        2         3    0.3131396758
```

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## 22934          2          3   0.3127672394
## 12966          2          1   0.3127002807
## 12968          2          1   0.3126512888
## 22887          2          3   0.3125317370
## 12963          2          1   0.3124129207
## 12811          2          1   0.3123892972
## 22981          2          3   0.3121527910
## 22863          2          3   0.3119229187
## 14424          2          1   0.3118453118
## 11965          2          1   0.3118207796
## 12965          2          1   0.3117953252
## 22885          2          3   0.3114609385
## 22959          2          3   0.3114512984
## 22983          2          3   0.3113244061
## 12360          2          1   0.3108571175
## 13106          2          1   0.3108320519
## 22875          2          3   0.3107845671
## 12071          2          1   0.3105596450
## 12011          2          1   0.3105368585
## 22925          2          3   0.3100342984
## 18153          2          1   0.3098526390
## 19240          2          1   0.3098436345
## 11964          2          1   0.3098316516
## 12779          2          1   0.3095436962
## 30278          2          3   0.3092672875
## 12013          2          1   0.3087027179
## 11875          2          1   0.3086906447
## 13195          2          1   0.3086521078
## 12603          2          1   0.3085785963
## 12218          2          1   0.3085679793
## 11996          2          1   0.3085288742
## 18294          2          1   0.3084747403
## 11963          2          1   0.3084266408
## 12041          2          1   0.3083627174
## 12266          2          1   0.3082166174
## 12924          2          1   0.3081541269
## 13105          2          1   0.3081528641
## 12618          2          1   0.3081311450
## 12920          2          1   0.3080261611
## 12216          2          1   0.3078400006
## 18296          2          1   0.3077901599
## 12802          2          1   0.3077436291
## 12005          2          1   0.3074596022
## 12333          2          1   0.3074341341
## 12922          2          1   0.3073529359
## 23349          2          3   0.3073347092
## 22928          2          3   0.3073338921
## 22920          2          3   0.3073309520
## 24282          2          3   0.3073127436
## 12586          2          1   0.3072964113
## 22952          2          3   0.3072030535
## 22916          2          3   0.3069894950
## 22948          2          3   0.3069856921
## 23410          2          3   0.3069592025
```

```
## 22924        2        3    0.3067844001
## 22917        2        3    0.3067837406
## 22919        2        3    0.3067767851
## 24062        2        3    0.3067675776
## 23479        2        3    0.3067674744
## 12012        2        1    0.3067570408
## 23098        2        3    0.3067429414
## 23273        2        3    0.3065682714
## 11931        2        1    0.3064652008
## 22950        2        3    0.3064353158
## 12186        2        1    0.3064200575
## 12925        2        1    0.3063892676
## 12650        2        1    0.3063776137
## 12463        2        1    0.3063341939
## 12619        2        1    0.3063223181
## 12651        2        1    0.3062053614
## 22951        2        3    0.3061400694
## 13196        2        1    0.3061385694
## 24280        2        3    0.3061137448
## 22949        2        3    0.3058367954
## 22911        2        3    0.3058366660
## 12602        2        1    0.3057822575
## 11934        2        1    0.3057371967
## 26196        2        3    0.3057314930
## 23099        2        3    0.3056950543
## 23044        2        3    0.3056856191
## 12136        2        1    0.3055439459
## 12042        2        1    0.3055315420
## 12890        2        1    0.3055118895
## 12217        2        1    0.3054503961
## 22923        2        3    0.3054149553
## 23002        2        3    0.3054149553
## 23003        2        3    0.3053542163
## 23043        2        3    0.3052322883
## 11933        2        1    0.3050757005
## 12921        2        1    0.3050592947
## 22922        2        3    0.3048442850
## 23052        2        3    0.3047382024
## 22947        2        3    0.3047317263
## 18295        2        1    0.3043143955
## 12138        2        1    0.3040426098
## 23142        2        3    0.3035996472
## 12810        2        1    0.3032235106
## 11930        2        1    0.3031714891
## 22918        2        3    0.3031431542
## 23059        2        3    0.3031353080
## 23051        2        3    0.3030785226
## 22958        2        3    0.3029577248
## 12137        2        1    0.3025571752
## 12464        2        1    0.3025082779
## 23272        2        3    0.3024503581
## 11932        2        1    0.3023515797
## 12000        2        1    0.3022940154
## 22960        2        3    0.3016759969
```

```
## 12182          2          1   0.3016104700
## 22921          2          3   0.3009569473
## 24281          2          3   0.3009136008
## 22946          2          3   0.3007065701
## 12923          2          1   0.3006214600
## 12351          2          1   0.3006195472
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## 11899          2          1   0.2992243392
## 13194          2          1   0.2992142611
## 12390          2          1   0.2991838721
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## 13032          2          1   0.2990577538
## 12193          2          1   0.2989927904
## 12499          2          1   0.2989526878
## 12388          2          1   0.2989476459
## 11914          2          1   0.2989336225
## 23140          2          3   0.2988008619
## 23009          2          3   0.2987586043
## 12270          2          1   0.2987002914
## 23061          2          3   0.2986381135
## 18292          2          1   0.2986091288
## 23283          2          3   0.2985851463
## 23533          2          3   0.2985027775
## 23208          2          3   0.2984396544
## 23010          2          3   0.2984278618
## 23011          2          3   0.2984101217
## 11911          2          1   0.2983499295
## 23096          2          3   0.2982478364
## 12391          2          1   0.2982322345
## 30442          2          3   0.2982098784
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## 24284          2          3   0.2979630877
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## 22966          2          3   0.2975481648
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## 12194          2          1   0.2974980683
## 30443          2          3   0.2972840390
## 11862          2          1   0.2969899974
## 12109          2          1   0.2969165261
## 22977          2          3   0.2968807243
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## 11860          2          1   0.2967297560
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## 23666          2          3   0.2963684437
## 12809          2          1   0.2963286695
## 12523          2          1   0.2961198933
## 22941          2          3   0.2958490229
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## 22975          2          3   0.2956654937
## 11903          2          1   0.2956384579
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```

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## 12498           2           1   0.2955848679
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## 23665           2           3   0.2952383221
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## 23015           2           3   0.2950991425
## 11995           2           1   0.2948553451
## 12981           2           1   0.2940721574
## 22976           2           3   0.2939575679
## 23371           2           3   0.2939284746
## 22978           2           3   0.2939255298
## 23012           2           3   0.2937594370
## 23372           2           3   0.2937461242
## 22942           2           3   0.2937391654
## 24283           2           3   0.2932457122
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## 23005           2           3   0.2931966353
## 23037           2           3   0.2931790939
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## 22967           2           3   0.2914890788
## 12514           2           1   0.2912589776
## 23030           2           3   0.2901051313
## 23161           2           3   0.2900861606
## 23367           2           3   0.2899393135
## 23062           2           3   0.2899169683
## 23050           2           3   0.2899025452
## 23411           2           3   0.2897342937
## 23069           2           3   0.2897180517
## 23053           2           3   0.2897178562
## 12223           2           1   0.2896434498
## 11835           2           1   0.2896056143
## 12935           2           1   0.2895984644
## 12225           2           1   0.2895781925
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## 23034           2           3   0.2895231141
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## 11929           2           1   0.2894268170
## 11837           2           1   0.2894217874
## 11924           2           1   0.2893994120
## 12232           2           1   0.2893547893
## 12338           2           1   0.2893403651
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## 12226           2           1   0.2893160754
## 12008           2           1   0.2892806702
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## 11816           2           1   0.2892441472
## 11811           2           1   0.2892402699
## 11898           2           1   0.2892238263
## 11838           2           1   0.2892188494
## 12227           2           1   0.2891838544
## 11999           2           1   0.2891109693
## 12145           2           1   0.2890841368
## 12006           2           1   0.2890796320
```

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## 14422     2     1   0.2890257023
## 12088     2     1   0.2889628058
## 23033     2     3   0.2889000284
## 22980     2     3   0.2888985007
## 23031     2     3   0.2888676512
## 12039     2     1   0.2887940135
## 11842     2     1   0.2887494150
## 11993     2     1   0.2887070327
## 13091     2     1   0.2886887298
## 11994     2     1   0.2886632455
## 11834     2     1   0.2886073592
## 11925     2     1   0.2885798165
## 23032     2     3   0.2885796100
## 23335     2     3   0.2884783136
## 12932     2     1   0.2883620778
## 23070     2     3   0.2881485925
## 12290     2     1   0.2881310276
## 11844     2     1   0.2880883112
## 23029     2     3   0.2880626002
## 23648     2     3   0.2879910918
## 12654     2     1   0.2879002863
## 12229     2     1   0.2878464180
## 12655     2     1   0.2877494644
## 23669     2     3   0.2875455377
## 11897     2     1   0.2873826730
## 13031     2     1   0.2873180467
## 23004     2     3   0.2871579535
## 12153     2     1   0.2871050748
## 12040     2     1   0.2870743047
## 23668     2     3   0.2870357884
## 23275     2     3   0.2870105295
## 12230     2     1   0.2866897392
## 23063     2     3   0.2864194379
## 11815     2     1   0.2859949663
## 23213     2     3   0.2859715856
## 23018     2     3   0.2859651391
## 23334     2     3   0.2859317098
## 23006     2     3   0.2852828591
## 12269     2     1   0.2852765625
## 12233     2     1   0.2850086057
## 11812     2     1   0.2842601632
## 11813     2     1   0.2842292524
## 12231     2     1   0.2836652576
## 11843     2     1   0.2836640047
## 12007     2     1   0.2833635478
## 12179     2     1   0.2824483456
## 11992     2     1   0.2817627790
## 12931     2     1   0.2817575749
## 12601     2     1   0.2814454884
## 23083     2     3   0.2812189674
## 23025     2     3   0.2811382929
## 25816     2     3   0.2811029102
## 22953     2     3   0.2810795279
## 23021     2     3   0.2810715132
```

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## 23081        2        3   0.2809868625
## 23248        2        3   0.2809165265
## 23218        2        3   0.2809120654
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## 23293        2        3   0.2807557049
## 23475        2        3   0.2807557049
## 23082        2        3   0.2806781945
## 23008        2        3   0.2806765284
## 23022        2        3   0.2804719224
## 23075        2        3   0.2804492210
## 12228        2        1   0.2804268713
## 23534        2        3   0.2804060536
## 23210        2        3   0.2801286500
## 23080        2        3   0.2800118411
## 12075        2        1   0.2798216181
## 11827        2        1   0.2798079732
## 23276        2        3   0.2797218532
## 12076        2        1   0.2796825043
## 14421        2        1   0.2796201536
## 12083        2        1   0.2795336796
## 11959        2        1   0.2794931825
## 12095        2        1   0.2794751188
## 12222        2        1   0.2794155428
## 12038        2        1   0.2793822921
## 12777        2        1   0.2793553944
## 23041        2        3   0.2793288262
## 13012        2        1   0.2792962196
## 23129        2        3   0.2792564353
## 30873        2        3   0.2792432574
## 11780        2        1   0.2791919830
## 12094        2        1   0.2791734972
## 12461        2        1   0.2791212431
## 12081        2        1   0.2789400133
## 11748        2        1   0.2788850519
## 23094        2        3   0.2788760979
## 23209        2        3   0.2788608712
## 12078        2        1   0.2787292286
## 23072        2        3   0.2787251245
## 11745        2        1   0.2785406683
## 12084        2        1   0.2785395305
## 12077        2        1   0.2783977353
## 23071        2        3   0.2783511890
## 19166        2        1   0.2781472131
## 12082        2        1   0.2781037170
## 11879        2        1   0.2780773595
## 23523        2        3   0.2777480491
## 12652        2        1   0.2775637161
## 11765        2        1   0.2775341937
## 12214        2        1   0.2774972508
## 11747        2        1   0.2773958024
## 11928        2        1   0.2773627923
## 11763        2        1   0.2773367646
## 23038        2        3   0.2771674751
## 23079        2        3   0.2771655355
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## 11814        2          1    0.2771651871
## 25817        2          3    0.2770518354
## 12808        2          1    0.2769511940
## 12079        2          1    0.2769283979
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## 11768        2          1    0.2767614514
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## 23007        2          3    0.2763967982
## 23074        2          3    0.2763544171
## 12462        2          1    0.2763035355
## 11772        2          1    0.2759465579
## 23024        2          3    0.2756621934
## 12100        2          1    0.2755656014
## 11880        2          1    0.2755514921
## 12080        2          1    0.2753144737
## 18152        2          1    0.2752428646
## 11789        2          1    0.2752316115
## 11841        2          1    0.2747795203
## 11904        2          1    0.2747640315
## 12215        2          1    0.2747400504
## 12256        2          1    0.2747339669
## 11746        2          1    0.2745383990
## 16265        2          1    0.2745132928
## 23097        2          3    0.2742202647
## 11773        2          1    0.2739438907
## 11764        2          1    0.2736195559
## 11991        2          1    0.2727429759
## 11958        2          1    0.2727279379
## 30872        2          3    0.2725747791
## 24124        2          3    0.2722897661
## 30874        2          3    0.2722416263
## 24125        2          3    0.2722234293
## 26304        2          3    0.2721555163
## 23077        2          3    0.2721280990
## 23178        2          3    0.2720828461
## 11771        2          1    0.2720716187
## 12087        2          1    0.2720461387
## 11770        2          1    0.2720347089
## 23476        2          3    0.2719731990
## 23049        2          3    0.2719368291
## 23477        2          3    0.2719365422
## 23179        2          3    0.2719361708
## 23147        2          3    0.2718980434
## 23148        2          3    0.2718121592
## 23016        2          3    0.2717713945
## 23055        2          3    0.2715022733
## 23093        2          3    0.2714706394
## 23023        2          3    0.2714312641
## 23095        2          3    0.2714266952
## 12473        2          1    0.2708163819
## 13090        2          1    0.2707767675
## 23076        2          3    0.2707563107
## 23146        2          3    0.2704341148
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```

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## 11974        2        1   0.2698249540
## 23408        2        3   0.2698149025
## 19044        2        1   0.2697750525
## 11649        2        1   0.2697641626
## 12085        2        1   0.2697503842
## 11648        2        1   0.2697388103
## 12086        2        1   0.2697344490
## 11969        2        1   0.2696614200
## 11774        2        1   0.2696529266
## 11976        2        1   0.2696351123
## 12460        2        1   0.2695151263
## 11859        2        1   0.2694935853
## 11776        2        1   0.2694519024
## 11712        2        1   0.2694493742
## 18149        2        1   0.2694099018
## 11790        2        1   0.2694079561
## 12213        2        1   0.2694004946
## 23409        2        3   0.2693020449
## 11967        2        1   0.2692453391
## 11970        2        1   0.2692107789
## 11713        2        1   0.2691881749
## 11650        2        1   0.2691461618
## 12065        2        1   0.2689769181
## 23407        2        3   0.2688460759
## 23150        2        3   0.2687832178
## 23088        2        3   0.2687378698
## 23699        2        3   0.2687208912
## 11833        2        1   0.2684206377
## 24374        2        3   0.2682820194
## 23057        2        3   0.2682741962
## 23233        2        3   0.2682708305
## 18150        2        1   0.2679371358
## 11966        2        1   0.2679363664
## 18151        2        1   0.2679100165
## 11910        2        1   0.2676547209
## 11978        2        1   0.2675727992
## 12074        2        1   0.2675699513
## 11947        2        1   0.2675057696
## 11971        2        1   0.2670407850
## 11912        2        1   0.2670007222
## 26303        2        3   0.2669563705
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## 12212        2        1   0.2667875635
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## 11693        2        1   0.2663722267
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## 11972        2        1   0.2663369865
## 23017        2        3   0.2661536896
## 23151        2        3   0.2661187594
## 11979        2        1   0.2656749648
## 11973        2        1   0.2656579279
## 11775        2        1   0.2656419826
```

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## 11840         2         1    0.2654020974
## 12936         2         1    0.2653937096
## 12036         2         1    0.2653385206
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## 11977         2         1    0.2645459721
## 11975         2         1    0.2640438619
## 12528         2         1    0.2640135828
## 11839         2         1    0.2631754097
## 23249         2         3    0.2630409263
## 23187         2         3    0.2630190788
## 23183         2         3    0.2630154087
## 23234         2         3    0.2629854299
## 23259         2         3    0.2629481100
## 23500         2         3    0.2628916564
## 11968         2         1    0.2628742256
## 23220         2         3    0.2628476090
## 23143         2         3    0.2627906783
## 23184         2         3    0.2627136353
## 23221         2         3    0.2626963216
## 23145         2         3    0.2624100231
## 23180         2         3    0.2624078580
## 23054         2         3    0.2623976993
## 23770         2         3    0.2623377308
## 12037         2         1    0.2618796686
## 23035         2         3    0.2617787814
## 23814         2         3    0.2617368563
## 23174         2         3    0.2617001554
## 23159         2         3    0.2616801943
## 23144         2         3    0.2613479580
## 23185         2         3    0.2612274480
## 23101         2         3    0.2608160354
## 23405         2         3    0.2607873692
## 12035         2         1    0.2596357274
## 11665         2         1    0.2596098187
## 11769         2         1    0.2595990508
## 12882         2         1    0.2595958222
## 12184         2         1    0.2595472885
## 12807         2         1    0.2594963655
## 11645         2         1    0.2594401527
## 11943         2         1    0.2593483716
## 12800         2         1    0.2593235577
## 11723         2         1    0.2593104715
## 14088         2         1    0.2592901757
## 23182         2         3    0.2592791155
## 11710         2         1    0.2592743811
## 23089         2         3    0.2592545782
## 12327         2         1    0.2592479309
## 14085         2         1    0.2592392642
## 11664         2         1    0.2592064814
## 12209         2         1    0.2592047644
## 11666         2         1    0.2591075504
## 12211         2         1    0.2590372372
## 12111         2         1    0.2588532745
## 12185         2         1    0.2588014581
```

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## 11936         2          1    0.2587665746
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## 23250         2          3    0.2586409972
## 11937         2          1    0.2586234704
## 23404         2          3    0.2586154472
## 11935         2          1    0.2584166723
## 12058         2          1    0.2583511090
## 11689         2          1    0.2583063450
## 12881         2          1    0.2582863566
## 11922         2          1    0.2582795487
## 12330         2          1    0.2582741672
## 11708         2          1    0.2582185033
## 12799         2          1    0.2579929570
## 11663         2          1    0.2579872852
## 11941         2          1    0.2578045430
## 11709         2          1    0.2574380520
## 23403         2          3    0.2572541114
## 12933         2          1    0.2572510677
## 12325         2          1    0.2572365812
## 12806         2          1    0.2572292788
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## 23058         2          3    0.2572078340
## 11939         2          1    0.2572053790
## 11926         2          1    0.2571938222
## 11938         2          1    0.2568980010
## 14086         2          1    0.2566344916
## 12805         2          1    0.2566344159
## 18147         2          1    0.2562530641
## 11942         2          1    0.2561998803
## 12034         2          1    0.2560124331
## 12798         2          1    0.2555615366
## 11643         2          1    0.2555240741
## 12183         2          1    0.2554962489
## 14087         2          1    0.2551827809
## 23186         2          3    0.2549058133
## 12010         2          1    0.2548161050
## 11644         2          1    0.2547754415
## 12947         2          1    0.2547507085
## 11957         2          1    0.2540036529
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## 30875         2          3    0.2539196377
## 23875         2          3    0.2539084471
## 23154         2          3    0.2538917544
## 23189         2          3    0.2538914312
## 23085         2          3    0.2538745260
## 23176         2          3    0.2538729288
## 23194         2          3    0.2537767658
## 11946         2          1    0.2537310266
## 23135         2          3    0.2536174666
## 23188         2          3    0.2536170966
## 23191         2          3    0.2534522494
## 23278         2          3    0.2534214810
## 23160         2          3    0.2533906440
## 23181         2          3    0.2531532864
```

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## 18148        2        1    0.2531416767
## 11923        2        1    0.2531358337
## 23238        2        3    0.2531354131
## 23138        2        3    0.2530983242
## 11711        2        1    0.2530923153
## 23131        2        3    0.2529201243
## 23856        2        3    0.2529018871
## 23084        2        3    0.2528867148
## 23237        2        3    0.2528758529
## 23136        2        3    0.2528543863
## 23771        2        3    0.2528450107
## 23460        2        3    0.2528429664
## 23132        2        3    0.2525100899
## 23134        2        3    0.2524694836
## 23139        2        3    0.2524330762
## 12326        2        1    0.2522327510
## 12934        2        1    0.2521799046
## 12210        2        1    0.2521617300
## 23193        2        3    0.2521450188
## 23620        2        3    0.2520970218
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## 23195        2        3    0.2516695426
## 23874        2        3    0.2516164566
## 23872        2        3    0.2516041567
## 23857        2        3    0.2515717594
## 24677        2        3    0.2512118250
## 23279        2        3    0.2511773298
## 23284        2        3    0.2511321882
## 11940        2        1    0.2509615862
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## 23192        2        3    0.2506461694
## 23190        2        3    0.2500698608
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## 11853        2        1    0.2492831696
## 11900        2        1    0.2492723946
## 11863        2        1    0.2491836422
## 11865        2        1    0.2491471054
## 12733        2        1    0.2491438950
## 11871        2        1    0.2491431640
## 14395        2        1    0.2491394134
## 12033        2        1    0.2490885596
## 11852        2        1    0.2490405155
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## 11692        2        1    0.2489903778
## 11901        2        1    0.2488914204
## 11866        2        1    0.2488903738
## 13028        2        1    0.2488610139
## 23137        2        3    0.2488112620
## 11703        2        1    0.2487477123
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```

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## 23196        2        3   0.2487273091
## 11870        2        1   0.2485805270
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## 11921        2        1   0.2476582549
## 11855        2        1   0.2474606412
## 13088        2        1   0.2474159630
## 11706        2        1   0.2472066320
## 11721        2        1   0.2468840951
## 24676        2        3   0.2466244588
## 23873        2        3   0.2466215311
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## 11909        2        1   0.2453158426
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## 11872        2        1   0.2449192324
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## 11817        2        1   0.2445274855
## 11744        2        1   0.2445120509
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## 23438        2        3   0.2443979576
## 23322        2        3   0.2443542262
## 12208        2        1   0.2442762405
## 23203        2        3   0.2442610831
## 23417        2        3   0.2442492969
## 12527        2        1   0.2441997135
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## 23580        2        3   0.2435156400
## 23200        2        3   0.2434866602
## 23816        2        3   0.2434834762
## 23901        2        3   0.2434738068
## 23162        2        3   0.2434690458
## 26126        2        3   0.2431505652
## 23152        2        3   0.2426847365
## 11854        2        1   0.2425913225
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## 23321        2        3   0.2417587625
## 23253        2        3   0.2413353084
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## 30876        2        3   0.2401442524
## 23173        2        3   0.2395416109
## 23171        2        3   0.2394827199
## 23463        2        3   0.2394765147
## 23581        2        3   0.2388685874
## 23223        2        3   0.2388625955
## 23499        2        3   0.2388348661
## 11637        2        1   0.2387942792
## 11619        2        1   0.2387203618
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## 11691        2        1   0.2387019234
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## 18145        2        1   0.2386880309
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## 11635        2        1   0.2386555528
## 18144        2        1   0.2386423274
## 13780        2        1   0.2385931916
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## 12144        2        1   0.2379175197
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## 12031        2        1   0.2364370719
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## 12067        2        1   0.2360728762
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```

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## 11634       2          1   0.2358290105
## 12068       2          1   0.2354654912
## 30878       2          3   0.2350203082
## 23522       2          3   0.2350108840
## 23582       2          3   0.2349852021
## 23821       2          3   0.2349829876
## 23961       2          3   0.2348668176
## 23340       2          3   0.2347607858
## 23242       2          3   0.2347537776
## 23603       2          3   0.2347320556
## 23339       2          3   0.2346996974
## 11809       2          1   0.2345639531
## 23606       2          3   0.2345592751
## 23361       2          3   0.2345408369
## 23773       2          3   0.2345394716
## 23605       2          3   0.2345285953
## 23222       2          3   0.2345144553
## 23241       2          3   0.2344956392
## 23820       2          3   0.2344555157
## 23465       2          3   0.2342692987
## 23226       2          3   0.2342667305
## 30877       2          3   0.2342431824
## 12339       2          1   0.2341254430
## 23776       2          3   0.2340001168
## 23224       2          3   0.2339917160
## 23373       2          3   0.2339798679
## 23375       2          3   0.2339558483
## 12323       2          1   0.2338371112
## 11802       2          1   0.2338267634
## 11804       2          1   0.2337917859
## 24679       2          3   0.2336784350
## 23323       2          3   0.2336481108
## 11613       2          1   0.2333307519
## 11821       2          1   0.2332999880
## 23286       2          3   0.2332528512
## 23604       2          3   0.2332219773
## 23239       2          3   0.2328583594
## 23254       2          3   0.2323823917
## 23240       2          3   0.2323760066
## 23602       2          3   0.2323656435
## 23299       2          3   0.2323283013
## 23324       2          3   0.2318958305
## 23325       2          3   0.2313364593
## 23464       2          3   0.2313097516
## 23330       2          3   0.2307109370
## 12045       2          1   0.2304507216
## 11755       2          1   0.2304267237
## 23341       2          3   0.2301129589
## 30879       2          3   0.2294109711
## 11682       2          1   0.2285062709
## 12525       2          1   0.2280313041
## 12180       2          1   0.2279488064
```

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## 12835      2       1   0.2277962646
## 11576      2       1   0.2276631379
## 11575      2       1   0.2276176727
## 11913      2       1   0.2276024398
## 11562      2       1   0.2275849252
## 11561      2       1   0.2274533680
## 11828      2       1   0.2274068673
## 13778      2       1   0.2273091305
## 11652      2       1   0.2272678996
## 11577      2       1   0.2271738395
## 12321      2       1   0.2268862844
## 11579      2       1   0.2266797370
## 11694      2       1   0.2266433095
## 12206      2       1   0.2264201963
## 11578      2       1   0.2263098719
## 12424      2       1   0.2259726424
## 11822      2       1   0.2254059737
## 23663      2       3   0.2253542055
## 23660      2       3   0.2253504393
## 23225      2       3   0.2253296763
## 23214      2       3   0.2253119939
## 23664      2       3   0.2253051644
## 23711      2       3   0.2253038326
## 23414      2       3   0.2253028707
## 23710      2       3   0.2252992042
## 23970      2       3   0.2252854519
## 23436      2       3   0.2252840748
## 23706      2       3   0.2252772503
## 24203      2       3   0.2252315023
## 23712      2       3   0.2252258554
## 23303      2       3   0.2252235433
## 23304      2       3   0.2252219410
## 11651      2       1   0.2251929890
## 13779      2       1   0.2251816958
## 23197      2       3   0.2251702541
## 23257      2       3   0.2251685064
## 23415      2       3   0.2251657307
## 23301      2       3   0.2250509042
## 23969      2       3   0.2249062299
## 23305      2       3   0.2248681729
## 23363      2       3   0.2248593872
## 23247      2       3   0.2248415006
## 12425      2       1   0.2248330144
## 11653      2       1   0.2246059594
## 23243      2       3   0.2243664974
## 23659      2       3   0.2243653555
## 24202      2       3   0.2240103433
## 23847      2       3   0.2239945582
## 23215      2       3   0.2239939315
## 23662      2       3   0.2239789042
## 23362      2       3   0.2239685150
## 18143      2       1   0.2239636202
## 23256      2       3   0.2236244059
## 23332      2       3   0.2232283309
```

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## 23962      2          3    0.2232049205
## 12089      2          1    0.2231966916
## 11574      2          1    0.2231891490
## 11695      2          1    0.2227855301
## 23302      2          3    0.2227838323
## 23326      2          3    0.2227465075
## 23246      2          3    0.2222677419
## 23437      2          3    0.2222551414
## 11676      2          1    0.2219559686
## 12066      2          1    0.2219301295
## 23255      2          3    0.2217461938
## 23219      2          3    0.2211900204
## 23245      2          3    0.2211703331
## 11580      2          1    0.2211500988
## 11675      2          1    0.2211159925
## 23707      2          3    0.2205680357
## 23244      2          3    0.2199348561
## 23578      2          3    0.2198836578
## 23708      2          3    0.2193132916
## 23709      2          3    0.2186526785
## 23300      2          3    0.2186502061
## 11672      2          1    0.2180645335
## 23661      2          3    0.2172320196
## 11990      2          1    0.2171059832
## 11730      2          1    0.2170605966
## 11795      2          1    0.2170358924
## 12512      2          1    0.2170328743
## 12320      2          1    0.2169932915
## 11541      2          1    0.2169730278
## 11801      2          1    0.2169228443
## 11528      2          1    0.2168928099
## 13453      2          1    0.2168801726
## 12501      2          1    0.2168604151
## 12644      2          1    0.2168223562
## 11894      2          1    0.2167803374
## 11794      2          1    0.2167057907
## 12319      2          1    0.2165724619
## 11527      2          1    0.2164751012
## 11592      2          1    0.2163424552
## 11797      2          1    0.2163346769
## 11611      2          1    0.2163084123
## 11546      2          1    0.2161835327
## 12063      2          1    0.2161760402
## 11741      2          1    0.2161537428
## 11542      2          1    0.2161510944
## 11799      2          1    0.2161484303
## 11530      2          1    0.2155717252
## 23806      2          3    0.2155384468
## 23204      2          3    0.2155248063
## 23312      2          3    0.2155209824
## 23307      2          3    0.2154945085
## 23974      2          3    0.2154845421
## 23396      2          3    0.2154218869
## 30962      2          3    0.2154125366
```

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## 11779     2          1    0.2154059313
## 23315     2          3    0.2154034202
## 23774     2          3    0.2153912958
## 26482     2          3    0.2153911534
## 23206     2          3    0.2153898396
## 11796     2          1    0.2153660794
## 13451     2          1    0.2153366409
## 23713     2          3    0.2152835519
## 24810     2          3    0.2152545552
## 11800     2          1    0.2151153138
## 23971     2          3    0.2150984904
## 11895     2          1    0.2150866473
## 23520     2          3    0.2150767247
## 23973     2          3    0.2150730675
## 13452     2          1    0.2150649149
## 11612     2          1    0.2150643422
## 23807     2          3    0.2150021262
## 23775     2          3    0.2148517471
## 23205     2          3    0.2148293303
## 23972     2          3    0.2147913734
## 11742     2          1    0.2146568234
## 23258     2          3    0.2145561427
## 24204     2          3    0.2145089620
## 23805     2          3    0.2142591803
## 23306     2          3    0.2142535238
## 23502     2          3    0.2142450630
## 23938     2          3    0.2142393411
## 26127     2          3    0.2142372166
## 23314     2          3    0.2142300103
## 23528     2          3    0.2142122988
## 23381     2          3    0.2139097449
## 23804     2          3    0.2139064041
## 23394     2          3    0.2138602502
## 23714     2          3    0.2138601880
## 24276     2          3    0.2138582094
## 23402     2          3    0.2138211099
## 23462     2          3    0.2134904580
## 23501     2          3    0.2134854250
## 23911     2          3    0.2134747219
## 23280     2          3    0.2134570296
## 13454     2          1    0.2134274035
## 12513     2          1    0.2134214087
## 13033     2          1    0.2134042937
## 23461     2          3    0.2134010362
## 11500     2          1    0.2133775947
## 11560     2          1    0.2131306868
## 23395     2          3    0.2130103975
## 23343     2          3    0.2130088208
## 23316     2          3    0.2125851383
## 23319     2          3    0.2125439610
## 23715     2          3    0.2125140491
## 11896     2          1    0.2124070046
## 23317     2          3    0.2120194529
## 11529     2          1    0.2119945960
```

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## 11591      2      1    0.2116828754
## 23393      2      3    0.2109439714
## 11798      2      1    0.2109135743
## 11499      2      1    0.2108990948
## 11593      2      1    0.2108917457
## 11498      2      1    0.2108890356
## 23376      2      3    0.2108829015
## 11699      2      1    0.2104425324
## 11531      2      1    0.2104172457
## 23320      2      3    0.2102633247
## 23318      2      3    0.2102314041
## 16789      2      1    0.2059459076
## 11514      2      1    0.2059375502
## 11610      2      1    0.2059375502
## 12070      2      1    0.2059159090
## 11893      2      1    0.2058982999
## 12856      2      1    0.2058956278
## 11615      2      1    0.2058877854
## 11989      2      1    0.2057842576
## 11988      2      1    0.2057536581
## 11737      2      1    0.2057209810
## 11428      2      1    0.2055832759
## 23941      2      3    0.2055517294
## 23808      2      3    0.2055075870
## 23288      2      3    0.2055011137
## 11687      2      1    0.2054961511
## 23811      2      3    0.2054369933
## 31028      2      3    0.2054230062
## 23617      2      3    0.2053788205
## 11674      2      1    0.2053362825
## 11698      2      1    0.2053130511
## 23855      2      3    0.2052963842
## 23812      2      3    0.2052599507
## 23810      2      3    0.2052310749
## 12524      2      1    0.2051896807
## 11614      2      1    0.2051846651
## 11955      2      1    0.2051816152
## 23397      2      3    0.2051349628
## 23291      2      3    0.2051260774
## 31027      2      3    0.2051085224
## 23809      2      3    0.2050893165
## 11750      2      1    0.2050689716
## 23813      2      3    0.2050657081
## 12260      2      1    0.2050580004
## 23344      2      3    0.2048921279
## 23292      2      3    0.2048820089
## 11393      2      1    0.2048786040
## 23353      2      3    0.2048771127
## 23504      2      3    0.2048716262
## 23354      2      3    0.2048552103
## 23976      2      3    0.2046373754
## 11688      2      1    0.2043439939
## 11749      2      1    0.2043248653
## 23289      2      3    0.2043005745
```

```
## 11484          2          1   0.2042981782
## 23331          2          3   0.2042971563
## 23975          2          3   0.2042951856
## 11485          2          1   0.2042928478
## 13408          2          1   0.2042787080
## 11739          2          1   0.2040991361
## 11497          2          1   0.2040990148
## 11738          2          1   0.2040990148
## 23440          2          3   0.2039983242
## 12030          2          1   0.2039884877
## 24680          2          3   0.2039505637
## 23939          2          3   0.2039211304
## 11751          2          1   0.2038243990
## 17925          2          1   0.2037944084
## 11778          2          1   0.2035695167
## 11412          2          1   0.2032830748
## 23369          2          3   0.2031612716
## 11752          2          1   0.2030440526
## 11777          2          1   0.2030169748
## 11395          2          1   0.2027656922
## 23498          2          3   0.2026841098
## 23940          2          3   0.2026556119
## 23327          2          3   0.2026479278
## 11956          2          1   0.2023983276
## 23328          2          3   0.2022058127
## 23352          2          3   0.2021410520
## 12511          2          1   0.2021388132
## 11392          2          1   0.2021290729
## 11394          2          1   0.2021078982
## 11425          2          1   0.2020988436
## 11443          2          1   0.2017718550
## 11444          2          1   0.2017579525
## 23672          2          3   0.2016012582
## 23290          2          3   0.2011519378
## 17487          2          1   0.2010562002
## 12261          2          1   0.2010547348
## 23398          2          3   0.2005336449
## 23435          2          3   0.2005257460
## 23489          2          3   0.2004596848
## 23377          2          3   0.2004484489
## 11442          2          1   0.2003323164
## 11445          2          1   0.1999990993
## 13409          2          1   0.1999573667
## 11740          2          1   0.1995453637
## 23521          2          3   0.1959053509
## 23673          2          3   0.1954282230
## 23687          2          3   0.1954268332
## 23336          2          3   0.1954185785
## 23846          2          3   0.1954150950
## 23505          2          3   0.1953555704
## 23480          2          3   0.1953099876
## 23448          2          3   0.1953078924
## 23358          2          3   0.1953035768
## 23579          2          3   0.1952514723
```

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## 23357      2         3   0.1952134669
## 23903      2         3   0.1951377316
## 23345      2         3   0.1949920057
## 26483      2         3   0.1949775466
## 23449      2         3   0.1949608680
## 23360      2         3   0.1948144190
## 23401      2         3   0.1947031800
## 12043      2         1   0.1946735870
## 12423      2         1   0.1946114002
## 11492      2         1   0.1946047802
## 11892      2         1   0.1945617316
## 27543      2         3   0.1945533850
## 11438      2         1   0.1944595385
## 11733      2         1   0.1944556191
## 12044      2         1   0.1944220174
## 11440      2         1   0.1942682320
## 23389      2         3   0.1941950516
## 11558      2         1   0.1940610085
## 11736      2         1   0.1940302416
## 11496      2         1   0.1939448063
## 23450      2         3   0.1939024125
## 23337      2         3   0.1938881732
## 23689      2         3   0.1938771616
## 23902      2         3   0.1938360879
## 23822      2         3   0.1938192707
## 11487      2         1   0.1936024620
## 23470      2         3   0.1934807002
## 23356      2         3   0.1934620152
## 11486      2         1   0.1934595877
## 23416      2         3   0.1934533339
## 12164      2         1   0.1932051546
## 23368      2         3   0.1931613328
## 23688      2         3   0.1931353909
## 23333      2         3   0.1930799835
## 23382      2         3   0.1930608964
## 11495      2         1   0.1930376076
## 12151      2         1   0.1928172788
## 11734      2         1   0.1927784242
## 23378      2         3   0.1926741981
## 11559      2         1   0.1925882007
## 11647      2         1   0.1925601051
## 11735      2         1   0.1923824625
## 12623      2         1   0.1923298178
## 23439      2         3   0.1921406724
## 11439      2         1   0.1921127055
## 23451      2         3   0.1916067223
## 12255      2         1   0.1915750387
## 11424      2         1   0.1915365642
## 12069      2         1   0.1915273065
## 23355      2         3   0.1911915025
## 23359      2         3   0.1911586794
## 11720      2         1   0.1906342990
## 11545      2         1   0.1906217569
## 11646      2         1   0.1905909434
```

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## 23674          2          3   0.1904804283
## 24880          2          3   0.1904750859
## 11673          2          1   0.1902653854
## 23447          2          3   0.1900448391
## 23618          2          3   0.1894469881
## 11441          2          1   0.1891994671
## 11564          2          1   0.1888619520
## 12500          2          1   0.1885177908
## 23386          2          3   0.1851339638
## 23383          2          3   0.1851108855
## 23391          2          3   0.1850965808
## 23388          2          3   0.1850380436
## 23384          2          3   0.1850083679
## 23390          2          3   0.1849832559
## 23912          2          3   0.1847504598
## 23690          2          3   0.1847031154
## 23675          2          3   0.1843160619
## 23550          2          3   0.1842954639
## 23454          2          3   0.1842538555
## 23977          2          3   0.1839579097
## 23387          2          3   0.1839306003
## 24516          2          3   0.1836983618
## 23978          2          3   0.1836850554
## 23380          2          3   0.1836843520
## 23392          2          3   0.1836805646
## 23621          2          3   0.1832730172
## 23490          2          3   0.1832540454
## 11494          2          1   0.1831280432
## 18641          2          1   0.1831056211
## 17924          2          1   0.1830909564
## 12622          2          1   0.1830783988
## 11640          2          1   0.1830591080
## 12029          2          1   0.1830534080
## 11491          2          1   0.1830476367
## 11524          2          1   0.1830418075
## 11572          2          1   0.1830391032
## 12509          2          1   0.1829934245
## 11953          2          1   0.1829931538
## 11386          2          1   0.1829930619
## 11951          2          1   0.1829509969
## 11521          2          1   0.1828853234
## 23913          2          3   0.1828521429
## 11520          2          1   0.1828375916
## 11526          2          1   0.1827076547
## 12341          2          1   0.1825926068
## 11493          2          1   0.1825039460
## 23379          2          3   0.1824440537
## 23468          2          3   0.1824230098
## 24515          2          3   0.1819485543
## 11565          2          1   0.1815902687
## 11426          2          1   0.1815556688
## 11638          2          1   0.1815460856
## 24065          2          3   0.1814653274
## 24514          2          3   0.1814523289
```

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## 23370         2         3   0.1810958320
## 11920         2         1   0.1809605328
## 11642         2         1   0.1809542229
## 23914         2         3   0.1809225576
## 11641         2         1   0.1808775716
## 11427         2         1   0.1804451284
## 23400         2         3   0.1803838873
## 23755         2         3   0.1803814368
## 23385         2         3   0.1803707046
## 13060         2         1   0.1801261827
## 23399         2         3   0.1800192905
## 11671         2         1   0.1795490485
## 18798         2         1   0.1792972861
## 12508         2         1   0.1792651619
## 11639         2         1   0.1792521672
## 11543         2         1   0.1792259849
## 11954         2         1   0.1789348159
## 12386         2         1   0.1785931400
## 11522         2         1   0.1779803359
## 11523         2         1   0.1779633694
## 11411         2         1   0.1779491530
## 11670         2         1   0.1779186231
## 11544         2         1   0.1779066200
## 23455         2         3   0.1775965012
## 11525         2         1   0.1775865576
## 11557         2         1   0.1772267650
## 12889         2         1   0.1768571040
## 26484         2         3   0.1747179012
## 24080         2         3   0.1747021781
## 23418         2         3   0.1746901729
## 24081         2         3   0.1746723001
## 23979         2         3   0.1746667616
## 23423         2         3   0.1746270678
## 23426         2         3   0.1746214586
## 23457         2         3   0.1745688664
## 23459         2         3   0.1744938831
## 23430         2         3   0.1744698914
## 23980         2         3   0.1744688338
## 23517         2         3   0.1744189703
## 23705         2         3   0.1743231113
## 23704         2         3   0.1743195006
## 23428         2         3   0.1741451630
## 23419         2         3   0.1741235534
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## 23982         2         3   0.1738276430
## 23434         2         3   0.1736323581
## 23441         2         3   0.1733532041
## 23596         2         3   0.1732518088
## 24205         2         3   0.1732105705
## 23619         2         3   0.1731983792
## 23406         2         3   0.1729765498
## 23518         2         3   0.1728917843
## 23519         2         3   0.1728891234
## 23432         2         3   0.1728789699
```

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## 23756      2         3   0.1728614553
## 23425      2         3   0.1726523920
## 23424      2         3   0.1726496019
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## 23458      2         3   0.1716396547
## 23981      2         3   0.1716223997
## 11628      2         1   0.1713996578
## 11517      2         1   0.1713962942
## 11600      2         1   0.1713937027
## 11377      2         1   0.1713841366
## 11359      2         1   0.1713081969
## 13321      2         1   0.1712131525
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## 23670      2         3   0.1711466532
## 11556      2         1   0.1710819228
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## 11717      2         1   0.1710171047
## 12171      2         1   0.1709949854
## 16788      2         1   0.1707896802
## 11626      2         1   0.1707752021
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## 13358      2         1   0.1706488898
## 23429      2         3   0.1706402676
## 11555      2         1   0.1706358833
## 11335      2         1   0.1705814812
## 13320      2         1   0.1705795268
## 11336      2         1   0.1704936541
## 11603      2         1   0.1704890541
## 11876      2         1   0.1704518172
## 24481      2         3   0.1703637879
## 11358      2         1   0.1702846122
## 24230      2         3   0.1701127686
## 23456      2         3   0.1701051927
## 23647      2         3   0.1700901363
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## 11602      2         1   0.1698711969
## 11718      2         1   0.1697270547
## 11719      2         1   0.1696979618
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## 11554      2         1   0.1695453023
## 11331      2         1   0.1694950813
## 17928      2         1   0.1693294745
## 13319      2         1   0.1693238715
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## 11598      2         1   0.1690937329
## 11604      2         1   0.1690337555
## 11518      2         1   0.1688078067
## 11597      2         1   0.1685691854
## 12172      2         1   0.1685512281
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## 13359      2         1   0.1679718346
## 11360      2         1   0.1679434196
```

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## 11332       2          1   0.1646831258
## 23507       2          3   0.1641096845
## 25098       2          3   0.1641090980
## 23473       2          3   0.1641071897
## 23570       2          3   0.1641045489
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## 23571       2          3   0.1641023377
## 23527       2          3   0.1641016512
## 23485       2          3   0.1640916799
## 23524       2          3   0.1640895599
## 23510       2          3   0.1640722836
## 24017       2          3   0.1640720654
## 23543       2          3   0.1640467207
## 23503       2          3   0.1639970312
## 23597       2          3   0.1639386872
## 23481       2          3   0.1638892848
## 23598       2          3   0.1638579804
## 24881       2          3   0.1637952500
## 23482       2          3   0.1637756373
## 23535       2          3   0.1637701244
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## 23509       2          3   0.1636570938
## 23443       2          3   0.1633928608
## 26485       2          3   0.1632718173
## 23506       2          3   0.1632533555
## 24083       2          3   0.1631178134
## 23851       2          3   0.1626760871
## 23599       2          3   0.1625026902
## 23474       2          3   0.1623386299
## 23512       2          3   0.1621861748
## 23852       2          3   0.1616046015
## 23484       2          3   0.1615867740
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## 24220       2          3   0.1613475170
## 24018       2          3   0.1611177334
## 23573       2          3   0.1606837899
## 24616       2          3   0.1606686351
## 23511       2          3   0.1604542928
## 24082       2          3   0.1602309148
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```

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## 11284       2        1    0.1591268116
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## 12004       2        1    0.1583148289
## 18366       2        1    0.1582613632
## 11388       2        1    0.1577164238
## 11391       2        1    0.1577042647
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## 11389       2        1    0.1574870289
## 11436       2        1    0.1574592661
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## 11279       2        1    0.1572282596
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## 23508       2        3    0.1532695190
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## 23569       2        3    0.1532036351
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## 23545       2        3    0.1530562804
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## 23561       2        3    0.1530256918
```

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## 23562    2        3    0.1529056825
## 23634    2        3    0.1528926826
## 23944    2        3    0.1527599440
## 23592    2        3    0.1524765427
## 11283    2        1    0.1523468328
## 23831    2        3    0.1522842624
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## 23564    2        3    0.1519589196
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## 23565    2        3    0.1509441775
## 23889    2        3    0.1509435043
## 23486    2        3    0.1509380315
## 24013    2        3    0.1507922388
## 23563    2        3    0.1507456621
## 23551    2        3    0.1505324937
## 23591    2        3    0.1503467527
## 23568    2        3    0.1499487992
## 23567    2        3    0.1499223354
## 23830    2        3    0.1485445982
## 26486    2        3    0.1475362318
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```

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## 11380      2          1    0.1445565871
## 11369      2          1    0.1443462438
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## 12173      2          1    0.1442216271
## 11229      2          1    0.1442024136
## 11241      2          1    0.1442014734
## 15330      2          1    0.1440561393
## 11536      2          1    0.1440453241
## 11259      2          1    0.1437280257
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## 11385      2          1    0.1431418060
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## 23635      2          3    0.1424121269
## 23916      2          3    0.1424017946
## 23544      2          3    0.1423827281
## 23630      2          3    0.1423714079
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## 23936      2          3    0.1421604799
## 23717      2          3    0.1421496013
## 24506      2          3    0.1420093312
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## 23530      2          3    0.1415607305
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## 11714      2          1    0.1412245527
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## 23540      2          3    0.1408072666
## 23539      2          3    0.1404705762
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## 23601      2          3    0.1400853785
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```

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## 23537       2          3   0.1388799372
## 23918       2          3   0.1384403473
## 23553       2          3   0.1384214860
## 24090       2          3   0.1384057788
## 23600       2          3   0.1379487671
## 23452       2          3   0.1374676573
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## 11831       2          1   0.1349732895
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## 11532       2          1   0.1345887236
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## 18229       2          1   0.1344713258
## 11192       2          1   0.1343095840
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## 12169       2          1   0.1323935789
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```

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## 24004          2          3   0.1312808186
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## 23686          2          3   0.1310896835
## 23515          2          3   0.1310610141
## 24085          2          3   0.1309583900
## 24084          2          3   0.1309516562
## 23656          2          3   0.1309360831
## 23542          2          3   0.1309160577
## 11583          2          1   0.1308391229
## 23658          2          3   0.1307764383
## 23593          2          3   0.1307455972
## 23683          2          3   0.1305808762
## 23558          2          3   0.1305636092
## 24012          2          3   0.1305221318
## 23682          2          3   0.1303286219
## 25034          2          3   0.1303213273
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## 23684          2          3   0.1300777440
## 25033          2          3   0.1300577206
## 23549          2          3   0.1300495937
## 23824          2          3   0.1297998774
## 23531          2          3   0.1297834047
## 23823          2          3   0.1297776696
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## 23657          2          3   0.1294962296
## 23513          2          3   0.1294882682
## 24231          2          3   0.1294843232
## 26934          2          3   0.1294796107
## 23516          2          3   0.1291562806
## 24003          2          3   0.1291555178
## 23529          2          3   0.1291526959
## 23696          2          3   0.1287946089
## 23557          2          3   0.1287765795
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## 23999          2          3   0.1275476943
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## 11830          2          1   0.1224429694
## 11142          2          1   0.1224306599
## 12055          2          1   0.1224247877
## 11889          2          1   0.1223965392
## 11303          2          1   0.1223854115
## 11251          2          1   0.1223728282
## 11249          2          1   0.1223643863
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## 17067          2          1   0.1223313446
## 11461          2          1   0.1222635046
```

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## 11196      2      1   0.1221572742
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## 12052      2      1   0.1221288859
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## 11160      2      1   0.1220248875
## 11194      2      1   0.1219858871
## 11507      2      1   0.1219833167
## 11141      2      1   0.1219567073
## 13316      2      1   0.1219254093
## 11669      2      1   0.1218030350
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## 11829      2      1   0.1215200865
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## 11195      2      1   0.1205478858
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## 11465      2      1   0.1204292336
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## 23594      2      3   0.1197872149
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## 23892      2      3   0.1196634895
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## 23643      2      3   0.1193814676
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## 23595      2      3   0.1191808857
## 23590      2      3   0.1191309848
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## 23649      2      3   0.1191227400
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## 12057      2      1   0.1191081265
## 24001      2      3   0.1190843327
## 11464      2      1   0.1190834197
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## 24232      2      3   0.1188824978
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```

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## 24105          2          3    0.1188414851
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## 23723          2          3    0.1181132919
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## 23574          2          3    0.1180174696
## 11198          2          1    0.1176080303
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## 23721          2          3    0.1154857767
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## 10991          2          1    0.1095979056
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## 11086          2          1    0.1093578617
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## 23629          2          3    0.1086356281
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```

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## 23691       2          3    0.1071700102
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## 23626       2          3    0.1071223894
## 11134       2          1    0.1070855340
## 12050       2          1    0.1070709417
## 10989       2          1    0.1070650532
## 11725       2          1    0.1070566727
## 10990       2          1    0.1070256783
## 23628       2          3    0.1070125730
## 10987       2          1    0.1070076573
## 24108       2          3    0.1070031696
## 23795       2          3    0.1068620382
## 23625       2          3    0.1067002926
## 11171       2          1    0.1066535896
## 11460       2          1    0.1066468069
## 23796       2          3    0.1063728487
## 23729       2          3    0.1063727290
## 23651       2          3    0.1062742365
## 23652       2          3    0.1062723251
## 23818       2          3    0.1062578433
## 11075       2          1    0.1060613968
## 24267       2          3    0.1059402720
## 23677       2          3    0.1059358968
## 23650       2          3    0.1056975445
## 11078       2          1    0.1056294703
## 23724       2          3    0.1056083346
```

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## 11133       2       1   0.1046392517
## 24226       2       3   0.0970506623
## 24684       2       3   0.0970461733
## 23793       2       3   0.0970006698
## 24240       2       3   0.0969753204
## 23865       2       3   0.0968984674
## 24058       2       3   0.0968966886
## 23746       2       3   0.0968857536
## 23741       2       3   0.0968769095
## 23678       2       3   0.0968661854
## 24209       2       3   0.0967947658
## 23719       2       3   0.0967898706
## 23849       2       3   0.0966710223
## 23744       2       3   0.0966690405
## 24260       2       3   0.0966585185
## 11071       2       1   0.0966387675
## 11074       2       1   0.0966314809
## 11288       2       1   0.0966100390
## 11290       2       1   0.0966012958
## 11203       2       1   0.0965866509
## 11328       2       1   0.0965762971
## 11072       2       1   0.0965420426
## 10978       2       1   0.0965371602
## 11908       2       1   0.0965342772
## 11243       2       1   0.0965265085
## 11048       2       1   0.0965260943
## 24855       2       3   0.0965156059
## 11287       2       1   0.0965070105
## 23745       2       3   0.0965066867
## 14136       2       1   0.0965018794
## 11501       2       1   0.0964903340
## 11329       2       1   0.0964106570
## 11131       2       1   0.0963996494
## 11245       2       1   0.0963812776
## 11291       2       1   0.0963764479
## 14092       2       1   0.0963695310
## 23919       2       3   0.0963588800
## 11788       2       1   0.0962311084
## 24214       2       3   0.0961735994
## 23701       2       3   0.0961713599
## 23742       2       3   0.0961695198
## 23700       2       3   0.0961648772
## 23718       2       3   0.0961560109
## 11292       2       1   0.0960970245
## 11326       2       1   0.0960970245
## 11327       2       1   0.0960961217
## 11128       2       1   0.0960644973
## 11547       2       1   0.0958516265
## 11782       2       1   0.0958309247
## 11781       2       1   0.0958233277
## 24208       2       3   0.0957565153
## 23702       2       3   0.0955047253
```

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## 23893          2          3    0.0954871835
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## 23850          2          3    0.0954657084
## 24337          2          3    0.0954571929
## 11881          2          1    0.0953016646
## 10979          2          1    0.0952994323
## 11129          2          1    0.0952963675
## 11118          2          1    0.0952810779
## 10998          2          1    0.0952614940
## 23720          2          3    0.0952086459
## 11130          2          1    0.0949947884
## 11346          2          1    0.0949800871
## 11884          2          1    0.0946743982
## 11073          2          1    0.0946444497
## 11242          2          1    0.0946431010
## 11343          2          1    0.0946382024
## 11289          2          1    0.0946269203
## 24239          2          3    0.0943616100
## 23740          2          3    0.0943286015
## 23747          2          3    0.0943155082
## 23848          2          3    0.0943084125
## 11456          2          1    0.0942809881
## 23697          2          3    0.0940433961
## 23743          2          3    0.0940408018
## 11502          2          1    0.0938954164
## 11503          2          1    0.0938748980
## 13086          2          1    0.0938609062
## 10977          2          1    0.0934679110
## 11330          2          1    0.0934138114
## 11047          2          1    0.0934093531
## 11119          2          1    0.0929600916
## 23842          2          3    0.0852607768
## 23835          2          3    0.0852498547
## 23798          2          3    0.0852410438
## 23792          2          3    0.0852388710
## 23871          2          3    0.0852342079
## 24241          2          3    0.0852243080
## 24856          2          3    0.0852046549
## 23837          2          3    0.0851544749
## 23783          2          3    0.0851528408
## 23960          2          3    0.0851049040
## 23782          2          3    0.0850798776
## 23854          2          3    0.0850688805
## 23749          2          3    0.0850643516
## 24242          2          3    0.0850088944
## 23866          2          3    0.0849893778
## 23778          2          3    0.0848954954
## 23841          2          3    0.0848918455
## 23838          2          3    0.0848586889
## 23920          2          3    0.0847546740
## 23839          2          3    0.0847478451
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## 23751          2          3    0.0846920259
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```

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## 24227            2            3   0.0843691806
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## 23894            2            3   0.0841524560
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## 23843            2            3   0.0839473388
## 24243            2            3   0.0838322035
## 24465            2            3   0.0838259306
## 24069            2            3   0.0838243588
## 23867            2            3   0.0837181994
## 23834            2            3   0.0835959778
## 24464            2            3   0.0835694086
## 11949            2            1   0.0834077069
## 12562            2            1   0.0833957052
## 11059            2            1   0.0833747736
## 11055            2            1   0.0833644838
## 11563            2            1   0.0833606567
## 11483            2            1   0.0833601469
## 11056            2            1   0.0833578317
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## 11479            2            1   0.0832984175
## 11482            2            1   0.0832106788
## 10975            2            1   0.0832039150
## 11826            2            1   0.0831935172
## 11070            2            1   0.0831676807
## 11057            2            1   0.0830580579
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## 11140            2            1   0.0830193492
## 11001            2            1   0.0830161793
## 11277            2            1   0.0828534599
## 23781            2            3   0.0827799491
## 11069            2            1   0.0827058891
## 11276            2            1   0.0826984759
## 11455            2            1   0.0826698521
## 11907            2            1   0.0826489825
## 23779            2            3   0.0824784897
## 11586            2            1   0.0824607763
## 11454            2            1   0.0822236091
## 13734            2            1   0.0822078303
## 11068            2            1   0.0822061656
## 11787            2            1   0.0818905756
## 10953            2            1   0.0816216201
## 11481            2            1   0.0816153761
## 16875            2            1   0.0809238674
## 12561            2            1   0.0805430797
## 11058            2            1   0.0805321915
## 11480            2            1   0.0805124538
## 13733            2            1   0.0804718465
## 10976            2            1   0.0801121675
## 11325            2            1   0.0796711204
## 11275            2            1   0.0787943391
## 11453            2            1   0.0787875423
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```

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## 24210      2        3   0.0732963770
## 23862      2        3   0.0732909725
## 24262      2        3   0.0732823477
## 23736      2        3   0.0732695571
## 25202      2        3   0.0732383691
## 23878      2        3   0.0732360241
## 24103      2        3   0.0732343964
## 24129      2        3   0.0732293264
## 23863      2        3   0.0732241202
## 24126      2        3   0.0732117352
## 24005      2        3   0.0731849215
## 23882      2        3   0.0731791984
## 23956      2        3   0.0731443663
## 23880      2        3   0.0731199040
## 23921      2        3   0.0730495546
## 23786      2        3   0.0729358663
## 23734      2        3   0.0728924996
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## 23957      2        3   0.0728147283
## 23897      2        3   0.0727390253
## 23800      2        3   0.0726962929
## 23785      2        3   0.0725947808
## 24228      2        3   0.0725632935
## 23896      2        3   0.0725415795
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## 23881      2        3   0.0725310727
## 24194      2        3   0.0724004564
## 23788      2        3   0.0723623889
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## 23890      2        3   0.0718196614
## 23895      2        3   0.0717637410
## 24109      2        3   0.0713978249
## 23884      2        3   0.0713133423
## 23883      2        3   0.0711673863
## 23801      2        3   0.0710587975
## 24229      2        3   0.0710565399
## 23953      2        3   0.0708204101
## 23787      2        3   0.0708190003
## 23898      2        3   0.0708103351
## 26776      2        3   0.0706960987
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## 10959      2        1   0.0699296654
## 23799      2        3   0.0699281712
## 11222      2        1   0.0699237244
## 11759      2        1   0.0699232771
## 11220      2        1   0.0699202884
## 12850      2        1   0.0699188290
## 13421      2        1   0.0699119762
## 11448      2        1   0.0698866814
## 11221      2        1   0.0698842189
## 17845      2        1   0.0698633900
```

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## 11877         2          1   0.0698617960
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## 11477         2          1   0.0697769541
## 11756         2          1   0.0697748981
## 11032         2          1   0.0697491634
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## 10952         2          1   0.0697311965
## 10961         2          1   0.0696606099
## 11097         2          1   0.0696408677
## 11878         2          1   0.0696289364
## 11478         2          1   0.0695199628
## 11476         2          1   0.0693248883
## 11475         2          1   0.0693151440
## 11472         2          1   0.0692904977
## 12560         2          1   0.0692762532
## 11793         2          1   0.0691212523
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## 12849         2          1   0.0690357751
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## 11905         2          1   0.0685715351
## 11473         2          1   0.0685509409
## 11760         2          1   0.0683291968
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## 10958         2          1   0.0680625822
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## 11407         2          1   0.0677728208
## 10957         2          1   0.0676973231
## 11125         2          1   0.0674166132
## 10945         2          1   0.0670714125
## 11474         2          1   0.0670580087
## 11223         2          1   0.0670578814
## 11761         2          1   0.0666123704
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## 24008         2          3   0.0611854636
## 24007         2          3   0.0611814936
## 23739         2          3   0.0611749682
## 24123         2          3   0.0611685047
## 24192         2          3   0.0611647455
## 23932         2          3   0.0611629088
## 24326         2          3   0.0611614741
## 24325         2          3   0.0611596722
## 23931         2          3   0.0611566322
## 24995         2          3   0.0611477261
## 23924         2          3   0.0611474817
## 23933         2          3   0.0611370916
## 34144         2          3   0.0611299492
## 23926         2          3   0.0611092857
## 24244         2          3   0.0611063115
```

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## 24327          2          3   0.0610597603
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## 23737          2          3   0.0610420639
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## 23789          2          3   0.0609217280
## 24245          2          3   0.0608887191
## 26777          2          3   0.0608830636
## 23791          2          3   0.0608733193
## 23942          2          3   0.0608727150
## 24019          2          3   0.0608250852
## 23915          2          3   0.0608185569
## 23802          2          3   0.0607835632
## 24009          2          3   0.0607750183
## 23925          2          3   0.0606512005
## 23803          2          3   0.0606463329
## 23930          2          3   0.0605053932
## 23929          2          3   0.0603143854
## 23968          2          3   0.0603076879
## 23922          2          3   0.0602905133
## 25203          2          3   0.0601485327
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## 23954          2          3   0.0596890310
## 23790          2          3   0.0591861750
## 23927          2          3   0.0589739610
## 10951          2          1   0.0562488864
## 17529          2          1   0.0562048021
## 11082          2          1   0.0561962734
## 11417          2          1   0.0561868964
## 11446          2          1   0.0561660847
## 11468          2          1   0.0561632772
## 11678          2          1   0.0561632772
## 11238          2          1   0.0561550796
## 10930          2          1   0.0561455598
## 10928          2          1   0.0561391428
## 10927          2          1   0.0561068078
## 10944          2          1   0.0560857300
## 11363          2          1   0.0560553107
## 11361          2          1   0.0560474363
## 11081          2          1   0.0560225976
## 11429          2          1   0.0559880107
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## 11467          2          1   0.0559514950
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## 11515          2          1   0.0559497151
## 10971          2          1   0.0559420800
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## 12848          2          1   0.0559385682
## 11170          2          1   0.0559353405
## 11632          2          1   0.0559268683
## 11169          2          1   0.0558723519
## 11447          2          1   0.0558379858
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```

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## 10924       2            1    0.0555669820
## 11237       2            1    0.0555500350
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## 11882       2            1    0.0553718600
## 10926       2            1    0.0553616130
## 11083       2            1    0.0552711940
## 11219       2            1    0.0552677340
## 11167       2            1    0.0552577034
## 13096       2            1    0.0551619365
## 11406       2            1    0.0550414420
## 11729       2            1    0.0549329052
## 11218       2            1    0.0549247886
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## 11469       2            1    0.0541148253
## 11697       2            1    0.0539646257
## 11633       2            1    0.0538048678
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## 24033       2            3    0.0488752674
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## 23870       2            3    0.0487917542
## 25476       2            3    0.0487462883
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## 25562       2            3    0.0487405582
## 23858       2            3    0.0487393272
## 24096       2            3    0.0486359845
## 23844       2            3    0.0486216168
## 23984       2            3    0.0486203622
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## 23987       2            3    0.0486133142
## 23991       2            3    0.0486003851
## 24014       2            3    0.0485264447
## 23983       2            3    0.0485017666
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## 24878       2            3    0.0483267784
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```

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## 23986         2         3    0.0482079456
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## 10910         2         1    0.0417568885
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## 10942         2         1    0.0405942440
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## 11668         2         1    0.0405780896
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```

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## 24037       2          3   0.0363696957
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## 23909       2          3   0.0362587262
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## 24300       2          3   0.0356734072
## 24168       2          3   0.0356702044
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## 23887       2          3   0.0352012766
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## 23886       2          3   0.0350811100
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## 10868       2          1   0.0280378956
## 14579       2          1   0.0280358013
## 10803       2          1   0.0280153330
## 17527       2          1   0.0279322919
## 10909       2          1   0.0279318442
## 10906       2          1   0.0279157848
## 12919       2          1   0.0278996114
## 10972       2          1   0.0278845039
## 11608       2          1   0.0278301903
## 10869       2          1   0.0277409427
## 11371       2          1   0.0277408386
## 10905       2          1   0.0277252495
```

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## 11352        2        1   0.0276851994
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## 10902        2        1   0.0275549472
## 10897        2        1   0.0274494369
## 11319        2        1   0.0271956540
## 11112        2        1   0.0271827059
## 11372        2        1   0.0270390044
## 11166        2        1   0.0270199939
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## 10940        2        1   0.0269554309
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```

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```

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```

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```

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```

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## 29864          3          4    0.7420065278
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## 30227          3          4    0.7419591100
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## 29911          3          4    0.7405588614
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## 30147          3          4    0.7405537252
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## 30500          3          4    0.7403812059
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## 30470            3           4    0.7391470925
## 30333            3           4    0.7391365371
## 30757            3           4    0.7391276832
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## 29582            3           2    0.7390937324
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## 30113            3           4    0.7390749740
## 30215            3           4    0.7390717520
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```

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## 30213        3        4    0.7388657259
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## 31539        3        4    0.7383551776
## 30146        3        4    0.7383395493
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## 30465        3        4    0.7383230280
```

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## 31859       3          4   0.7383222813
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## 30198       3          4   0.7382982538
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## 30486       3          4   0.7382565852
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## 33775       3          2   0.7378024385
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```

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## 29971         3         2   0.7362941163
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## 29605         3         2   0.7362381096
## 30409         3         4   0.7362377726
## 30242         3         4   0.7362293493
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## 29695         3         2   0.7361879960
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## 30379         3         4   0.7361390568
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## 30501         3         4   0.7360862932
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## 30214         3         4   0.7360525208
## 30420         3         4   0.7360520421
## 30427         3         2   0.7360310003
## 30572         3         4   0.7360261957
## 29562         3         2   0.7360063205
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## 30424         3         2   0.7359688049
## 33259         3         4   0.7359677277
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## 31878         3         4   0.7359348341
## 29511         3         2   0.7359189092
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## 30461         3         4   0.7358150352
## 29932         3         4   0.7358067538
## 30829         3         4   0.7357847307
## 30060         3         4   0.7357777775
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## 30289         3         4   0.7357142130
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## 30365         3         4   0.7356909984
## 30528         3         4   0.7356843904
## 30327         3         4   0.7356781682
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## 30563         3         4   0.7356713055
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```

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## 34183         3            2   0.7356092217
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## 30556         3            2   0.7353772258
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## 30131         3            4   0.7353494442
## 30192         3            4   0.7353390881
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## 30269         3            4   0.7352863659
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## 30257         3            4   0.7352617884
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```

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```

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## 30343        3           4    0.7339391607
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```

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## 30846       3        4    0.7333919005
## 30597       3        4    0.7333785116
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## 29423       3        2    0.7333709660
## 29603       3        2    0.7333684089
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## 30573          3          4    0.7314187448
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```

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```

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## 30656          3          4   0.7300699077
## 30545          3          4   0.7300684421
## 31543          3          4   0.7300645210
## 29517          3          2   0.7300559350
## 30499          3          4   0.7300474236
## 31260          3          4   0.7300331656
## 30636          3          4   0.7300283169
## 31237          3          4   0.7299699739
## 29594          3          2   0.7299487479
## 29613          3          2   0.7299316751
## 29487          3          2   0.7299275246
## 33707          3          2   0.7299225654
## 29515          3          2   0.7298952222
## 30686          3          4   0.7298747156
## 29481          3          2   0.7298731307
## 29617          3          2   0.7298153533
## 29621          3          2   0.7298055067
## 33771          3          2   0.7298029057
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## 29927          3          2   0.7297918821
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## 30955          3          4   0.7297434470
## 30623          3          4   0.7297270522
## 30889          3          4   0.7296940255
## 31093          3          4   0.7295860564
## 29539          3          2   0.7295840273
## 29477          3          2   0.7295695492
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## 30909          3          4   0.7295265923
## 30084          3          4   0.7294632772
## 30935          3          4   0.7294602727
## 30449          3          4   0.7294390650
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## 30942          3          4   0.7294386686
## 30672          3          4   0.7294365015
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## 30503          3          4   0.7294230375
## 30634          3          4   0.7294224271
## 30607          3          4   0.7294196528
## 29890          3          2   0.7294170116
## 30590          3          4   0.7294011545
## 30677          3          4   0.7293900111
## 31224          3          4   0.7293757982
## 31197          3          4   0.7293601841
## 30526          3          4   0.7293556765
```

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## 30248        3        4   0.7292375768
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## 30542        3        4   0.7291844071
## 30729        3        4   0.7291783360
## 31674        3        4   0.7291780017
## 30848        3        4   0.7291750663
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## 30690        3        4   0.7291234304
## 30594        3        4   0.7291134445
## 32350        3        4   0.7291098738
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## 29688        3        2   0.7290832696
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## 30275        3        4   0.7290032243
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## 30507        3        4   0.7289244601
## 29435        3        2   0.7288899494
## 29432        3        2   0.7288621438
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## 29479        3        2   0.7286560897
## 29506        3        2   0.7286462700
## 29271        3        2   0.7286451849
## 30645        3        4   0.7286427112
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## 31675        3        4   0.7286272061
```

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## 30691         3         4    0.7286189878
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## 30671         3         4    0.7286095034
## 30522         3         4    0.7285817861
## 30350         3         4    0.7285577078
## 30533         3         4    0.7285553369
## 29367         3         2    0.7285460294
## 33620         3         2    0.7285099124
## 30860         3         2    0.7284803302
## 31029         3         4    0.7284758939
## 29514         3         2    0.7284755764
## 30637         3         4    0.7284635911
## 29492         3         2    0.7284555610
## 33708         3         2    0.7284324683
## 33719         3         4    0.7284323995
## 30891         3         4    0.7284275537
## 29500         3         2    0.7284172020
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## 30807         3         4    0.7283778117
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## 30777         3         4    0.7282817203
## 30953         3         4    0.7282763513
## 30537         3         4    0.7282691640
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## 30490         3         4    0.7282336896
## 30810         3         4    0.7282323374
## 30649         3         4    0.7282241173
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## 30999         3         4    0.7281898580
## 32391         3         4    0.7281765409
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## 33720         3         4    0.7281289421
## 31003         3         4    0.7281202461
## 29813         3         4    0.7281058035
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## 32383         3         4    0.7280895951
## 29783         3         2    0.7280857206
## 29384         3         2    0.7280723716
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```

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## 30678          3          4   0.7279424973
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## 32346          3          4   0.7278895658
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## 30605          3          4   0.7278709237
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## 29265          3          2   0.7278368137
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## 30629          3          4   0.7278208921
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## 30804          3          4   0.7278010964
## 29498          3          2   0.7277741469
## 32390          3          4   0.7277412169
## 30938          3          4   0.7277232929
## 31296          3          4   0.7277219827
## 30239          3          2   0.7276649956
## 29887          3          2   0.7276538476
## 30347          3          4   0.7276201250
## 32025          3          4   0.7276144406
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## 30666          3          4   0.7274108252
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## 31111          3          4   0.7273063609
## 29889          3          2   0.7272876922
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## 30740          3          4   0.7272736170
## 30803          3          4   0.7272735549
## 29381          3          2   0.7272671199
## 29267          3          2   0.7272619085
## 29596          3          2   0.7272573400
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## 30450          3          4   0.7272527319
## 34587          3          4   0.7272475760
## 30353          3          4   0.7272399251
## 31101          3          4   0.7272374959
## 29754          3          2   0.7272232908
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```

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## 29241       3       2   0.7270420789
## 30811       3       4   0.7270377581
## 31150       3       4   0.7270327942
## 30661       3       4   0.7270301296
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## 29638       3       2   0.7269594090
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## 31004       3       4   0.7269431080
## 29270       3       2   0.7269313986
## 30937       3       4   0.7268932268
## 30437       3       4   0.7268902626
## 32196       3       4   0.7268791768
## 31730       3       4   0.7268607927
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## 29240       3       2   0.7268317375
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## 30641       3       4   0.7268074604
## 31006       3       4   0.7268031709
## 29232       3       2   0.7267935118
## 31731       3       4   0.7267927039
## 30714       3       4   0.7267881743
## 31141       3       4   0.7267853395
## 29491       3       2   0.7267818813
## 30741       3       4   0.7267808849
## 29721       3       2   0.7267549108
## 29391       3       2   0.7267222697
## 30695       3       4   0.7267211311
## 29486       3       2   0.7267173268
## 32182       3       2   0.7267129975
## 29722       3       2   0.7266927329
## 32341       3       4   0.7266649370
## 31026       3       4   0.7266398956
## 31880       3       4   0.7266386641
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## 29641       3       2   0.7266366039
## 31075       3       4   0.7266228873
## 30505       3       4   0.7266205101
## 30159       3       2   0.7266185646
## 30381       3       4   0.7266155520
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## 29450       3       2   0.7265942255
## 29764       3       2   0.7265874163
## 30711       3       4   0.7265834838
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## 30025       3       2   0.7265658309
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```

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## 33534            3            2    0.7263934900
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## 30697            3            4    0.7263607278
## 33875            3            2    0.7263520112
## 30748            3            2    0.7263397381
## 30759            3            4    0.7263165261
## 29490            3            2    0.7263152664
## 30856            3            4    0.7263121112
## 29919            3            2    0.7263111222
## 29238            3            2    0.7263018462
## 33618            3            2    0.7262996370
## 30855            3            4    0.7262965712
## 33726            3            4    0.7262899835
## 30940            3            4    0.7262895013
## 30660            3            4    0.7262511354
## 30604            3            4    0.7262283758
## 31041            3            4    0.7262197786
## 30600            3            4    0.7262107542
## 30812            3            4    0.7262066239
## 30941            3            4    0.7261889806
## 29280            3            2    0.7261705938
## 30544            3            4    0.7261364250
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## 32680            3            4    0.7261229139
## 30710            3            4    0.7261060882
## 30997            3            4    0.7260972089
## 29585            3            2    0.7260903820
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## 32213            3            2    0.7260297011
## 29298            3            2    0.7259814571
## 30821            3            4    0.7259632620
## 30655            3            4    0.7259570845
## 30861            3            2    0.7259551146
## 31335            3            4    0.7259507676
## 30693            3            4    0.7259464612
## 30890            3            4    0.7259460133
## 30689            3            4    0.7259221230
## 29393            3            2    0.7258690775
## 29370            3            2    0.7258639690
## 29610            3            2    0.7258615041
## 30778            3            4    0.7258345312
## 31019            3            4    0.7258100712
## 31010            3            4    0.7257923232
## 31063            3            4    0.7257813018
## 29703            3            2    0.7257614968
## 29392            3            2    0.7257591577
## 32607            3            4    0.7257374786
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## 29264            3            2    0.7257276997
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```

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## 30780    3       4   0.7256984754
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## 33724    3       4   0.7256785888
## 30785    3       4   0.7256753957
## 29501    3       2   0.7256514434
## 33797    3       4   0.7256404482
## 29242    3       2   0.7256270365
## 30914    3       4   0.7256199647
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## 29458    3       2   0.7255952388
## 29888    3       2   0.7255847597
## 29259    3       2   0.7255840667
## 29389    3       2   0.7255737462
## 31735    3       4   0.7255625990
## 30893    3       4   0.7255604075
## 29400    3       2   0.7255601845
## 31199    3       4   0.7255600430
## 30293    3       4   0.7255494510
## 30974    3       2   0.7255394178
## 30912    3       4   0.7255309251
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## 34588    3       4   0.7254915129
## 30822    3       4   0.7254184887
## 30580    3       4   0.7253916288
## 30947    3       4   0.7253590907
## 30708    3       4   0.7253092201
## 29254    3       2   0.7252479022
## 31226    3       4   0.7252458824
## 29441    3       2   0.7251365908
## 30784    3       4   0.7251193878
## 33779    3       2   0.7251170259
## 30779    3       4   0.7250781925
## 29279    3       2   0.7250778395
## 30640    3       4   0.7250604694
## 31074    3       4   0.7250570246
## 30024    3       2   0.7250323505
## 30022    3       2   0.7250129947
## 29449    3       2   0.7249815955
## 29194    3       2   0.7249637876
## 30651    3       4   0.7249587580
## 29397    3       2   0.7249522085
## 29482    3       2   0.7249334868
## 30859    3       2   0.7249095517
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## 29283    3       2   0.7248993132
## 29708    3       2   0.7248928445
## 31123    3       4   0.7248824968
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```

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## 29197        3        2    0.7246053569
## 30023        3        2    0.7245664918
## 31308        3        4    0.7245394499
## 30919        3        4    0.7245202870
## 34746        3        4    0.7245031274
## 30836        3        4    0.7245022770
## 31319        3        4    0.7244875250
## 30796        3        4    0.7244595055
## 30707        3        4    0.7244531035
## 30715        3        4    0.7244337590
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## 35151        3        4    0.7243828971
## 31704        3        4    0.7243769295
## 31142        3        4    0.7243618995
## 30717        3        4    0.7243036833
## 30948        3        4    0.7242873293
## 30665        3        4    0.7242634487
## 30635        3        4    0.7242096241
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## 29378        3        2    0.7241456890
## 32389        3        4    0.7241401714
## 29260        3        2    0.7241384530
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## 32609        3        4    0.7240753940
## 30934        3        4    0.7240353959
## 30833        3        4    0.7240291735
## 30553        3        4    0.7240282358
## 31222        3        4    0.7240230587
## 29307        3        2    0.7240226966
## 30481        3        4    0.7239977307
## 29234        3        2    0.7239893682
## 30670        3        4    0.7238973470
## 29198        3        2    0.7238762452
## 29399        3        2    0.7238552689
## 30918        3        4    0.7238523192
## 30831        3        4    0.7237999790
## 32548        3        4    0.7237814995
## 34747        3        4    0.7236969595
## 30915        3        4    0.7236404369
## 29326        3        2    0.7236396003
## 29143        3        2    0.7236363467
## 31032        3        4    0.7236351234
## 30781        3        4    0.7236281120
## 30324        3        4    0.7236240785
## 30837        3        4    0.7236229418
## 31061        3        4    0.7235846784
## 30786        3        4    0.7235845600
## 30733        3        4    0.7235798073
```

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## 29451      3        2   0.7235604084
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## 29305      3        2   0.7234929219
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## 30565      3        4   0.7234562237
## 29337      3        2   0.7234130097
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## 29352      3        2   0.7233572174
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## 31083      3        4   0.7233160546
## 30241      3        2   0.7233133263
## 30809      3        4   0.7233103639
## 29329      3        2   0.7232983028
## 30808      3        4   0.7232809687
## 30910      3        4   0.7232693226
## 29278      3        2   0.7232336110
## 31733      3        4   0.7232292755
## 30783      3        4   0.7232244487
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## 31378      3        4   0.7231900658
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## 29164      3        2   0.7231689990
## 30663      3        4   0.7231660380
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## 30699      3        4   0.7231472378
## 31359      3        4   0.7231466548
## 30628      3        4   0.7231443367
## 31076      3        4   0.7231406108
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```

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## 31208        3        4    0.7223292077
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## 30907        3        4    0.7222766436
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```

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## 30824          3          4    0.7172453490
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## 30854          3          4    0.7167797709
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```

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## 30986        3        4    0.7163478303
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## 28992        3        2    0.7162730603
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## 30961        3        4    0.7162497964
## 31186        3        4    0.7162489967
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## 31153        3        4    0.7160745600
## 29106        3        2    0.7160498659
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## 31677        3        4    0.7159090273
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## 31014        3        4    0.7158944052
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## 34123        3        4    0.7158656840
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## 29117      3       2   0.7157336262
## 28978      3       2   0.7157199772
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## 31105      3       4   0.7156870150
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## 31232          3          4   0.7143746346
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## 29011          3          2    0.7135774261
## 31120          3          4    0.7135600761
## 31143          3          4    0.7135529797
## 31500          3          4    0.7135465259
## 32209          3          2    0.7135381774
## 31015          3          4    0.7134814187
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## 31326          3          4    0.7134539793
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## 33073          3          4    0.7133137689
## 31743          3          2    0.7133107608
## 29066          3          2    0.7133033998
## 32557          3          4    0.7132857029
## 28926          3          2    0.7132596692
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## 32206          3          2    0.7131699365
## 29983          3          2    0.7131194469
## 29467          3          2    0.7129411982
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## 29390          3          2    0.7129144207
## 30622          3          4    0.7128892376
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```

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```

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## 28884          3          2   0.7116902902
## 29087          3          2   0.7116847199
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## 31895          3          4   0.7112318142
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## 31516          3          4   0.7111276337
## 34124          3          4   0.7111246161
## 31598          3          4   0.7111220309
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```

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## 29070          3          2    0.7109207282
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```

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## 33017          3          4    0.7098460273
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## 31048          3          4    0.7095590985
## 31521          3          4    0.7095277140
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## 31337          3          4    0.7094486679
## 31386          3          4    0.7094433901
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## 29109          3          2    0.7093331272
## 29154          3          2    0.7093205246
## 28843          3          2    0.7093166132
## 29007          3          2    0.7093137759
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## 31527          3          4    0.7091747651
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```

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## 33364       3       4   0.7090243439
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## 29248       3       2   0.7089704945
## 31510       3       4   0.7089618471
## 31377       3       4   0.7089445003
## 31710       3       4   0.7089445003
## 31069       3       4   0.7089403880
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## 31506       3       4   0.7087513322
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## 28814       3       2   0.7083902447
## 28966       3       2   0.7083870574
## 33602       3       4   0.7083767142
## 34411       3       4   0.7083645658
## 29132       3       2   0.7083569147
## 31448       3       2   0.7083450464
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## 31534       3       4   0.7083238466
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## 31400       3       4   0.7083026540
## 29311       3       2   0.7082852559
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## 31497       3       4   0.7082639881
## 29512       3       2   0.7082358651
## 31383       3       2   0.7082273824
## 29067       3       2   0.7080241715
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## 28889       3       2   0.7079459751
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```

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## 29805        3        2    0.7079245718
## 31651        3        4    0.7079174908
## 31341        3        4    0.7079160298
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## 31897        3        4    0.7078478854
## 33558        3        4    0.7078342177
## 31287        3        4    0.7078217074
## 31374        3        4    0.7077967308
## 28893        3        2    0.7077690561
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## 31712        3        4    0.7077026013
## 31631        3        4    0.7077011018
## 31270        3        4    0.7077011015
## 32617        3        2    0.7076944464
## 33065        3        4    0.7076417830
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## 31515        3        4    0.7074091093
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## 31653        3        4    0.7073460169
## 28972        3        2    0.7073457366
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## 31449        3        2    0.7072951790
## 31427        3        4    0.7072841034
## 29209        3        2    0.7072356696
## 31528        3        4    0.7071934014
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## 33323        3        2    0.7071724556
## 31667        3        4    0.7071395373
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## 29426        3        2    0.7070917526
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```

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## 31709          3          4    0.7068151596
## 31597          3          4    0.7067974228
## 31592          3          4    0.7067295510
## 31129          3          4    0.7067207232
## 31554          3          4    0.7066826163
## 32711          3          4    0.7066560520
## 31559          3          4    0.7066350666
## 31661          3          4    0.7066312327
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```

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## 31489        3         4    0.7038761053
## 31483        3         4    0.7038567467
## 31638        3         4    0.7038521412
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## 31456        3         4    0.7038135696
## 29062        3         2    0.7037681788
## 31707        3         4    0.7037477333
## 31316        3         4    0.7037409280
## 31714        3         4    0.7037292919
## 29376        3         2    0.7037209101
## 28970        3         2    0.7037205086
## 28918        3         2    0.7037016954
## 29004        3         2    0.7036853446
```

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## 31410    3        4    0.7036818700
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## 28917    3        2    0.7036653048
## 31468    3        4    0.7036605793
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## 31380    3        4    0.7036258255
## 32177    3        4    0.7035617211
## 31601    3        4    0.7035364659
## 29412    3        2    0.7035228547
## 32430    3        4    0.7035173688
## 29122    3        2    0.7034774035
## 29059    3        2    0.7034487799
## 31408    3        4    0.7034230293
## 31273    3        4    0.7034161840
## 29160    3        2    0.7034028454
## 31705    3        4    0.7033928415
## 28950    3        2    0.7033919277
## 31311    3        4    0.7033772824
## 31654    3        4    0.7033522515
## 31431    3        4    0.7033294932
## 31529    3        4    0.7033231166
## 31387    3        4    0.7033200854
## 34192    3        4    0.7033198706
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## 28689    3        2    0.7032257051
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## 31505    3        4    0.7031210532
## 28757    3        2    0.7031172906
## 29031    3        2    0.7031026532
## 33691    3        4    0.7030890350
## 28758    3        2    0.7030820568
## 29103    3        2    0.7030788229
## 34414    3        4    0.7030593925
## 31174    3        2    0.7030512501
## 28916    3        2    0.7030497817
## 31135    3        4    0.7030439284
## 31340    3        4    0.7030398320
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## 31810    3        4    0.7026448103
## 29123    3        2    0.7026400971
## 28784    3        2    0.7025899286
## 31365    3        4    0.7025689319
## 31414    3        4    0.7025559637
## 33117    3        4    0.7024367682
```

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## 31435        3           4   0.7024361634
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## 31862        3           4   0.7023986681
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## 31251        3           4   0.7023471939
## 28952        3           2   0.7023289949
## 31993        3           4   0.7022786822
## 32039        3           4   0.7022617725
## 29221        3           2   0.7022319450
## 28963        3           2   0.7022316533
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## 29061        3           2   0.7021657404
## 31577        3           4   0.7021580309
## 31789        3           4   0.7021490244
## 31294        3           2   0.7021224062
## 31478        3           4   0.7021165898
## 33603        3           4   0.7020863688
## 31453        3           4   0.7020791714
## 34501        3           4   0.7020407717
## 28844        3           2   0.7020380830
## 33325        3           4   0.7020288579
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## 31660        3           4   0.7019809921
## 32490        3           4   0.7019787816
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## 28856        3           2   0.7019502263
## 31883        3           2   0.7018840171
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## 31342        3           4   0.7018701823
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## 31721        3           4   0.7018529398
## 31578        3           4   0.7018497126
## 28706        3           2   0.7018384120
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## 31639        3           4   0.7018224958
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## 28798        3           2   0.7018000894
## 31796        3           4   0.7017913405
## 28840        3           2   0.7017704710
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## 28921        3           2   0.7016302269
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## 31567        3           4   0.7015983045
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## 31788        3           4   0.7015725835
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```

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## 28707       3         2    0.7015627149
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## 33315       3         2    0.7015419139
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## 29177       3         2    0.7009967932
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## 28695       3         2    0.7008857157
## 28795       3         2    0.7008843903
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## 29176       3         2    0.7007783193
## 29101       3         2    0.7007723577
## 31455       3         4    0.7007691860
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## 29102       3         2    0.7007234378
## 34092       3         4    0.7007065549
## 31991       3         4    0.7006889744
## 31413       3         4    0.7006656296
## 33067       3         4    0.7006083248
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## 33118       3         4    0.7005286422
## 28755       3         2    0.7005108250
## 34193       3         4    0.7005053924
## 28908       3         2    0.7004864544
## 30046       3         2    0.7004777657
## 29702       3         2    0.7004101531
## 31981       3         4    0.7003842767
## 28855       3         2    0.7003810957
## 31579       3         4    0.7003736028
## 31947       3         4    0.7003252949
## 32338       3         4    0.7003148670
## 32336       3         4    0.7002831353
## 31841       3         4    0.7002275147
```

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## 31434         3         4   0.7002222979
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## 28852         3         2   0.7001547702
## 31496         3         4   0.7001281180
## 31428         3         4   0.7000879191
## 31901         3         4   0.7000695468
## 31666         3         4   0.7000365180
## 31836         3         4   0.7000297411
## 33314         3         2   0.7000078152
## 28959         3         2   0.6999618582
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## 33319         3         2   0.6998767521
## 34608         3         4   0.6998513413
## 31382         3         4   0.6998425452
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## 28803         3         2   0.6997792801
## 28670         3         2   0.6997486122
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## 28956         3         2   0.6993836996
## 28722         3         2   0.6993038242
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## 32571         3         4   0.6992623371
## 29806         3         2   0.6992437258
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## 32005         3         4   0.6991828384
## 31493         3         4   0.6991152058
## 32491         3         4   0.6990735291
## 29027         3         2   0.6990708249
## 29002         3         2   0.6990499389
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## 29178         3         2   0.6990396811
## 28752         3         2   0.6989848586
```

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## 28817        3        2   0.6988559138
## 31768        3        4   0.6988395458
## 31941        3        4   0.6988016303
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## 28708        3        2   0.6987320858
## 28705        3        2   0.6986973470
## 29740        3        2   0.6986771914
## 28794        3        2   0.6986762410
## 31444        3        4   0.6986606312
## 28813        3        2   0.6986565829
## 31443        3        4   0.6986540538
## 34607        3        4   0.6986521859
## 29374        3        2   0.6986358567
## 32492        3        4   0.6986298410
## 32116        3        4   0.6986221630
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## 31944        3        4   0.6986058738
## 33235        3        4   0.6985787462
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## 31586        3        4   0.6984314593
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## 31548        3        4   0.6983450649
## 31763        3        4   0.6983300190
## 31785        3        4   0.6983226872
## 29034        3        2   0.6983111868
## 31574        3        4   0.6983094821
## 31819        3        2   0.6982821557
## 31838        3        4   0.6982810156
## 32570        3        4   0.6982557524
## 28756        3        2   0.6982373404
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## 28703        3        2   0.6982043957
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## 32033        3        4   0.6981295162
## 28721        3        2   0.6980779485
## 31624        3        4   0.6980705404
## 31994        3        4   0.6980664780
## 29054        3        2   0.6980604134
## 28800        3        2   0.6980411073
## 32037        3        4   0.6980043727
## 31780        3        4   0.6979626931
## 32714        3        4   0.6979457907
## 31995        3        4   0.6979063208
```

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## 31902      3        4   0.6978278469
## 31942      3        4   0.6978222009
## 28641      3        2   0.6978156578
## 31470      3        4   0.6977877058
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## 28674      3        2   0.6977358226
## 31565      3        4   0.6977160550
## 31840      3        4   0.6976715833
## 29008      3        2   0.6976590019
## 31833      3        4   0.6976418766
## 28681      3        2   0.6975264951
## 28862      3        2   0.6975113499
## 29057      3        2   0.6974921099
## 33313      3        2   0.6974921083
## 31884      3        2   0.6974695886
## 31426      3        4   0.6974535205
## 28787      3        2   0.6974493661
## 31900      3        4   0.6974435112
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## 31628      3        4   0.6974201145
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## 31696      3        4   0.6973937206
## 29056      3        2   0.6973415691
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## 32036      3        4   0.6971384227
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## 28711      3        2   0.6971245796
## 28863      3        2   0.6971128595
## 28684      3        2   0.6971119326
## 28786      3        2   0.6971040643
## 28612      3        2   0.6970406386
## 28611      3        2   0.6970309262
## 31495      3        4   0.6970162005
## 31077      3        2   0.6970140232
## 32614      3        4   0.6969920364
## 31406      3        4   0.6969642176
## 32194      3        4   0.6969450194
## 31647      3        4   0.6968486701
## 30056      3        2   0.6968432352
## 28785      3        2   0.6968218993
## 29121      3        2   0.6967897826
## 28847      3        2   0.6967813375
```

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## 28622        3         2   0.6967794774
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## 28868        3         2   0.6967244169
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## 31945        3         4   0.6967176478
## 31629        3         4   0.6966436174
## 28680        3         2   0.6965282125
## 31144        3         2   0.6964716836
## 28866        3         2   0.6964462566
## 32118        3         4   0.6964443328
## 28957        3         2   0.6964252259
## 32257        3         4   0.6964228387
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## 32158        3         4   0.6963695567
## 31982        3         4   0.6963621264
## 31572        3         4   0.6963420000
## 31570        3         4   0.6963395776
## 31617        3         4   0.6963363742
## 31832        3         4   0.6962970455
## 31439        3         4   0.6962700703
## 32164        3         4   0.6962469931
## 31480        3         4   0.6962350590
## 31839        3         4   0.6962007318
## 31582        3         4   0.6961597700
## 32572        3         4   0.6961597700
## 31430        3         4   0.6961313634
## 31550        3         4   0.6961152587
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## 28878         3         2   0.6952227995
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## 29026         3         2   0.6942112039
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## 31790        3          4   0.6941125089
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## 28799        3          2   0.6939317492
## 31646        3          4   0.6938508207
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## 28727        3          2   0.6927876384
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## 28609        3          2   0.6927841527
## 28701        3          2   0.6927795012
```

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## 28583           3        2     0.6927720157
## 28750           3        2     0.6927403261
## 33338           3        2     0.6927102808
## 28572           3        2     0.6927015760
## 32162           3        4     0.6926860226
## 29019           3        2     0.6926305966
## 29020           3        2     0.6926171403
## 32035           3        4     0.6926047127
## 32171           3        4     0.6925705455
## 31637           3        4     0.6925529007
## 29628           3        2     0.6924853585
## 31569           3        4     0.6923130914
## 31687           3        4     0.6922993329
## 31828           3        4     0.6922950429
## 31764           3        4     0.6922895393
## 32173           3        4     0.6922784251
## 31959           3        4     0.6922707015
## 31625           3        4     0.6922612147
## 32166           3        4     0.6922494616
## 31827           3        4     0.6922226238
## 31983           3        4     0.6922199430
## 31686           3        4     0.6922165734
## 31826           3        4     0.6922165734
## 28491           3        2     0.6921873242
## 32235           3        4     0.6921556894
## 33237           3        4     0.6921416241
## 32335           3        4     0.6921229743
## 33236           3        4     0.6921209130
## 28739           3        2     0.6921117397
## 32227           3        4     0.6920865847
## 31619           3        4     0.6920445137
## 31645           3        4     0.6920344806
## 32232           3        4     0.6920253827
## 32233           3        4     0.6920166877
## 32236           3        4     0.6920126450
## 28617           3        2     0.6919668138
## 28625           3        2     0.6919373555
## 31766           3        4     0.6919223625
## 31811           3        4     0.6918579743
## 31812           3        4     0.6918528361
## 33336           3        2     0.6917972847
## 31701           3        4     0.6917565261
## 31761           3        4     0.6917414562
## 31689           3        4     0.6917274096
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## 31317           3        4     0.6916339305
## 31699           3        4     0.6915346513
## 28691           3        2     0.6914740926
## 32238           3        4     0.6914705484
## 32020           3        4     0.6914427789
## 31970           3        4     0.6914239099
## 28741           3        2     0.6914129445
## 31760           3        4     0.6913856549
```

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## 32169          3          4    0.6913751915
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## 28715          3          2    0.6913307934
## 31587          3          4    0.6912450013
## 32229          3          4    0.6912071861
## 31691          3          4    0.6912013341
## 31608          3          4    0.6911974574
## 31960          3          4    0.6911725738
## 32314          3          4    0.6911461329
## 29193          3          2    0.6910424874
## 31648          3          4    0.6910112841
## 28665          3          2    0.6909120855
## 29999          3          2    0.6908152342
## 28980          3          2    0.6907315040
## 32803          3          4    0.6907231083
## 32168          3          4    0.6907219508
## 28807          3          2    0.6907195603
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## 32493          3          4    0.6906906795
## 32234          3          4    0.6906848043
## 31547          3          4    0.6906049283
## 31758          3          4    0.6905838079
## 31692          3          4    0.6905716514
## 32802          3          4    0.6905459419
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## 29235          3          2    0.6904855534
## 28788          3          2    0.6904775726
## 30098          3          2    0.6904653347
## 28489          3          2    0.6904387848
## 28519          3          2    0.6904378724
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## 28723          3          2    0.6904264576
## 31837          3          4    0.6904204104
## 29022          3          2    0.6904143736
## 31463          3          2    0.6903954183
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## 28737          3          2    0.6902599276
## 31462          3          2    0.6902578097
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## 31984          3          4    0.6901524732
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## 32003          3          4    0.6901028372
## 28791          3          2    0.6901022381
## 28725          3          2    0.6901017450
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## 32756          3          4    0.6900545252
## 32611          3          4    0.6900483004
## 31728          3          4    0.6900225268
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```

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## 31914        3          4    0.6898855634
## 31886        3          4    0.6898808294
## 28571        3          2    0.6898782374
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## 28503        3          2    0.6897252611
## 31905        3          4    0.6897146167
## 30737        3          2    0.6897026683
## 32288        3          4    0.6897006436
## 28614        3          2    0.6896992179
## 28623        3          2    0.6896940094
## 28613        3          2    0.6896924453
## 30000        3          2    0.6896325210
## 31774        3          4    0.6896250493
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## 32597        3          4    0.6895482190
## 31903        3          4    0.6895169696
## 32315        3          4    0.6893983069
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## 28730        3          2    0.6893704680
## 28662        3          2    0.6893342216
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## 31904        3          4    0.6892705069
## 31946        3          4    0.6892688364
## 31864        3          4    0.6892354064
## 32045        3          4    0.6891993509
## 31948        3          4    0.6891766630
## 31612        3          4    0.6891273135
## 28729        3          2    0.6890967640
## 28663        3          2    0.6890545044
## 28580        3          2    0.6890335138
## 31913        3          4    0.6890293073
## 32598        3          4    0.6890149636
## 32291        3          4    0.6890140756
## 28500        3          2    0.6889993206
## 28736        3          2    0.6889918178
## 29050        3          2    0.6889916323
## 31814        3          4    0.6889828505
## 32600        3          4    0.6889608265
## 28740        3          2    0.6888781771
## 30735        3          2    0.6888735461
## 31999        3          4    0.6888735247
## 28731        3          2    0.6888649042
## 31685        3          4    0.6888599136
## 31863        3          4    0.6888571592
## 32289        3          4    0.6886237159
```

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## 32284     3        4   0.6885837178
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## 31698     3        4   0.6885056343
## 28483     3        2   0.6884614150
## 28660     3        2   0.6883966825
## 29029     3        2   0.6883810228
## 31754     3        4   0.6882826159
## 32415     3        4   0.6881935625
## 29021     3        2   0.6881462479
## 28748     3        2   0.6881451444
## 32117     3        4   0.6881108055
## 31438     3        4   0.6881003546
## 28823     3        2   0.6880223569
## 28824     3        2   0.6880175754
## 32734     3        4   0.6880113991
## 31742     3        4   0.6879974527
## 28520     3        2   0.6879960449
## 35100     3        4   0.6879958483
## 30621     3        2   0.6879855227
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## 32416     3        4   0.6878323684
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## 33168     3        4   0.6878149865
## 35039     3        4   0.6877720729
## 31724     3        4   0.6877706388
## 32577     3        4   0.6877705619
## 31909     3        4   0.6877650461
## 32292     3        4   0.6877576536
## 32602     3        4   0.6877464600
## 31746     3        4   0.6877341125
## 29095     3        2   0.6876127359
## 29129     3        2   0.6875902947
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## 28728     3        2   0.6875674246
## 28743     3        2   0.6875668677
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## 28410     3        2   0.6875512771
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## 32294     3        4   0.6875400025
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## 32601     3        4   0.6874063457
## 32110     3        4   0.6873999394
## 28517     3        2   0.6873816761
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```

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## 32599          3          4    0.6871636156
## 31726          3          4    0.6871367221
## 32328          3          4    0.6871079983
## 32285          3          4    0.6870971983
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## 31392          3          2    0.6870006812
## 28656          3          2    0.6869391162
## 28534          3          2    0.6869102252
## 32230          3          4    0.6869003410
## 28460          3          2    0.6868890341
## 31807          3          4    0.6868566091
## 33170          3          4    0.6868429361
## 31772          3          4    0.6867719202
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## 28661          3          2    0.6867345851
## 31773          3          4    0.6867284781
## 28518          3          2    0.6866993267
## 32295          3          4    0.6866609234
## 28582          3          2    0.6866488812
## 31987          3          4    0.6865992454
## 28588          3          2    0.6865749073
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## 28825          3          2    0.6864522761
## 28653          3          2    0.6864522294
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## 31753          3          4    0.6864266809
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## 32228          3          4    0.6863873118
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## 28668          3          2    0.6861539462
## 28927          3          2    0.6861235808
## 32330          3          4    0.6861125486
## 28897          3          2    0.6861097246
## 32038          3          4    0.6860957584
## 31620          3          4    0.6860300840
## 31770          3          4    0.6860249748
## 31985          3          4    0.6860121705
## 32243          3          4    0.6860111966
## 32109          3          4    0.6859844303
## 28732          3          2    0.6859810325
## 28699          3          2    0.6859345661
## 28938          3          2    0.6859316741
## 31389          3          2    0.6859083382
## 33169          3          4    0.6858102762
## 33601          3          4    0.6857809789
## 32791          3          4    0.6857310627
## 32193          3          4    0.6856772676
```

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## 31885          3          4    0.6856536330
## 32301          3          4    0.6856394488
## 31805          3          4    0.6856287682
## 31729          3          4    0.6856284639
## 33600          3          4    0.6856219861
## 32376          3          4    0.6856126183
## 28603          3          2    0.6855822488
## 32612          3          4    0.6855644540
## 28639          3          2    0.6855518898
## 28526          3          2    0.6855466343
## 28589          3          2    0.6855272398
## 32735          3          4    0.6855239293
## 28822          3          2    0.6855211572
## 32217          3          4    0.6855105281
## 32275          3          4    0.6854915737
## 31459          3          2    0.6854872996
## 28521          3          2    0.6854842199
## 31911          3          4    0.6854786149
## 28515          3          2    0.6854756226
## 31725          3          4    0.6854618163
## 31829          3          4    0.6854348346
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## 28631          3          2    0.6853504544
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## 32159          3          4    0.6852940045
## 32161          3          4    0.6852750632
## 32046          3          4    0.6852558910
## 32163          3          4    0.6852194165
## 29403          3          2    0.6852046391
## 32181          3          4    0.6851777981
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## 32757          3          4    0.6850942440
## 28973          3          2    0.6850448797
## 28659          3          2    0.6849832792
## 28570          3          2    0.6849669328
## 28565          3          2    0.6849657366
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## 31465          3          2    0.6849260433
## 28566          3          2    0.6849225808
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## 28523          3          2    0.6848848631
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## 28652          3          2    0.6848003651
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## 28738          3          2    0.6847585945
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```

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## 31971       3         4   0.6845869049
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## 28838       3         2   0.6845183644
## 31877       3         4   0.6844870370
## 29334       3         2   0.6844426257
## 32790       3         4   0.6844300170
## 28459       3         2   0.6844264359
## 32172       3         4   0.6844049933
## 31460       3         2   0.6843915200
## 31961       3         4   0.6843883263
## 28630       3         2   0.6843810735
## 32004       3         4   0.6843768584
## 32240       3         4   0.6843110125
## 28590       3         2   0.6842967167
## 32583       3         4   0.6840869539
## 29047       3         2   0.6840714159
## 28567       3         2   0.6840321871
## 29048       3         2   0.6840266792
## 30568       3         2   0.6839856590
## 32840       3         4   0.6839766817
## 28461       3         2   0.6839715810
## 28628       3         2   0.6839625876
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## 28629       3         2   0.6839303808
## 32026       3         4   0.6839295204
## 28735       3         2   0.6839260115
## 31969       3         4   0.6839183830
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## 32373       3         4   0.6839043470
## 32578       3         4   0.6838165874
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## 28533       3         2   0.6835501959
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## 28554       3         2   0.6834796691
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## 32237       3         4   0.6833919157
## 32302       3         4   0.6833835928
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```

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## 31740          3          4   0.6833668189
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## 32450          3          4   0.6833524144
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## 29998          3          2   0.6833354602
## 32439          3          4   0.6833238016
## 31915          3          4   0.6833171998
## 32792          3          4   0.6833082907
## 32119          3          4   0.6833079055
## 32454          3          4   0.6833063425
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## 28409          3          2   0.6832072399
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## 29053          3          2   0.6831292289
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## 34700          3          4   0.6830182603
## 34697          3          4   0.6830178100
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## 31876          3          4   0.6830107965
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## 31269          3          4   0.6829386973
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## 31926          3          4   0.6826835652
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## 32733          3          4   0.6825786079
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```

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## 32327      3          4   0.6811078805
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## 28821      3          2   0.6807383946
```

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## 32849      3        4    0.6803597615
## 32927      3        4    0.6803488751
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## 31458      3        2    0.6802767470
## 28907      3        2    0.6802682643
## 32334      3        4    0.6802554007
## 28592      3        2    0.6802266081
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## 34699      3        4    0.6799901707
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## 28560      3        2    0.6799696751
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## 32543      3        4    0.6799459440
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## 32582      3        4    0.6798425391
## 32300      3        4    0.6798201306
## 32298      3        4    0.6797926385
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```

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```

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## 32658       3         4   0.6760999118
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```

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## 32715         3           4   0.6759803553
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## 28387         3           2   0.6759230445
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## 28637          3          2    0.6739380638
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## 32012          3          4    0.6737293187
## 32434          3          4    0.6737243994
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```

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## 32144        3        4    0.6720552173
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## 28330        3        2    0.6719517655
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## 32362       3       4   0.6716737794
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## 28278       3       2   0.6714325318
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## 28430       3       2   0.6713890387
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## 32472       3       4   0.6713652565
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## 32201       3       4   0.6706901383
## 28269       3       2   0.6706803117
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```

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## 32313          3          4    0.6655225013
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## 28063          3          2    0.6624080676
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```

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## 32672       3       4   0.6617124126
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## 32776       3       4   0.6616824114
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## 32188       3       4   0.6609559535
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## 28067       3       2   0.6605827840
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```

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## 32092            3         4   0.6603533279
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## 32263            3         4   0.6603148509
## 28417            3         2   0.6603000714
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## 32267            3         4   0.6602836541
## 32444            3         4   0.6602604247
## 28289            3         2   0.6602599751
## 28075            3         2   0.6602206303
## 32825            3         4   0.6601800298
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## 34954            3         4   0.6600013177
## 32702            3         4   0.6599939507
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## 32407            3         4   0.6599314334
## 28022            3         2   0.6599206024
## 28479            3         2   0.6599202533
## 28095            3         2   0.6599072099
## 33451            3         4   0.6598538795
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## 32254            3         4   0.6597530411
## 32251            3         4   0.6597321963
## 32778            3         4   0.6597244714
## 32249            3         4   0.6597106625
## 32827            3         4   0.6596773294
## 32707            3         4   0.6595501619
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## 29706            3         2   0.6595053418
## 28145            3         2   0.6594770994
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## 32282            3         4   0.6594171156
## 32521            3         4   0.6593546354
## 32809            3         4   0.6593524143
## 32774            3         4   0.6593338262
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## 32822            3         4   0.6592528702
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## 28240            3         2   0.6591825955
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## 34397            3         4   0.6589865882
## 33386            3         4   0.6589714188
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## 32824            3         4   0.6588772014
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```

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## 28019          3          2    0.6586567085
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## 28096          3          2    0.6586155302
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## 28061          3          2    0.6581714434
## 28414          3          2    0.6581209177
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## 28365          3          2    0.6580925755
## 28186          3          2    0.6580517501
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## 27946          3          2    0.6580246891
## 32199          3          4    0.6580120477
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## 30339          3          2    0.6577072204
## 28247          3          2    0.6576823164
## 32799          3          4    0.6576815721
## 32262          3          4    0.6576580568
## 32422          3          4    0.6576507810
## 32358          3          4    0.6576238313
## 32364          3          4    0.6576069445
## 30369          3          2    0.6576001648
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## 28960          3          2    0.6573662679
## 33830          3          4    0.6573606170
## 28094          3          2    0.6573262893
## 33381          3          4    0.6573070731
## 32819          3          4    0.6573043082
## 28440          3          2    0.6573013762
## 32752          3          4    0.6572900671
## 28238          3          2    0.6572691074
```

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## 33326        3        4    0.6572600139
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## 32058        3        4    0.6572157354
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## 28246        3        2    0.6570372216
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## 28142        3        2    0.6554626597
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## 28416        3        2    0.6553558762
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```

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```

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```

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## 32676          3          4    0.6512109639
## 32522          3          4    0.6511187904
## 32979          3          4    0.6510912582
## 32759          3          4    0.6510743579
## 32987          3          4    0.6510592933
## 32837          3          4    0.6510539506
## 29762          3          2    0.6510507519
## 27878          3          2    0.6510429541
## 32758          3          4    0.6509499031
## 32587          3          4    0.6509153613
## 32974          3          4    0.6509011889
## 29363          3          2    0.6508852607
## 35050          3          4    0.6506964682
## 32560          3          4    0.6506755329
## 32833          3          4    0.6506739107
## 32985          3          4    0.6506690488
## 27978          3          2    0.6506539658
## 27933          3          2    0.6506245443
## 27929          3          2    0.6506120300
## 32471          3          4    0.6505167181
## 32970          3          4    0.6505165630
## 32983          3          4    0.6504681057
## 33345          3          4    0.6504592751
## 27823          3          2    0.6504132254
```

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## 27910        3         2   0.6502441246
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## 32586        3         4   0.6502089256
## 32998        3         4   0.6502044841
## 32259        3         4   0.6501784832
## 27898        3         2   0.6501104490
## 32365        3         4   0.6500870530
## 33221        3         4   0.6500717581
## 32367        3         4   0.6500526825
## 32417        3         4   0.6500377988
## 28359        3         2   0.6500294039
## 32632        3         4   0.6499949890
## 32465        3         4   0.6499749690
## 28307        3         2   0.6497074534
## 27948        3         2   0.6496819992
## 35051        3         4   0.6496812127
## 32464        3         4   0.6496721372
## 32989        3         4   0.6496429515
## 32971        3         4   0.6496152939
## 27932        3         2   0.6495472823
## 29261        3         2   0.6494093405
## 28046        3         2   0.6494061723
## 27912        3         2   0.6494039061
## 29262        3         2   0.6493872260
## 33881        3         4   0.6493630017
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## 33607        3         4   0.6490609575
## 32509        3         4   0.6490516957
## 32467        3         4   0.6490415154
## 28210        3         2   0.6489576068
## 28060        3         2   0.6489543982
## 28116        3         2   0.6489488768
## 27940        3         2   0.6489487433
## 28086        3         2   0.6489250493
## 27893        3         2   0.6489129494
## 28147        3         2   0.6489120274
## 32821        3         4   0.6489106427
## 28362        3         2   0.6488915324
## 28249        3         2   0.6488914564
## 27971        3         2   0.6488825545
## 28272        3         2   0.6488703470
## 33021        3         4   0.6488568322
## 27861        3         2   0.6488425235
## 28015        3         2   0.6488424526
## 33027        3         4   0.6488263965
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## 27909        3         2   0.6487543755
## 32515        3         4   0.6487294700
## 27923        3         2   0.6487226191
## 32511        3         4   0.6487185147
## 28203        3         2   0.6487107626
## 27915        3         2   0.6487040408
## 28204        3         2   0.6487023867
## 27880        3         2   0.6486784685
```

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## 28072        3        2    0.6486171860
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## 33022        3        4    0.6485745496
## 33222        3        4    0.6485418377
## 28274        3        2    0.6485143671
## 28200        3        2    0.6484905941
## 27855        3        2    0.6484816459
## 32929        3        4    0.6483900667
## 32592        3        4    0.6483821991
## 33185        3        4    0.6483810391
## 32623        3        4    0.6482688217
## 27961        3        2    0.6482027572
## 27976        3        2    0.6481969281
## 33043        3        4    0.6480344931
## 27950        3        2    0.6479782628
## 32634        3        4    0.6479511680
## 27857        3        2    0.6479394429
## 27751        3        2    0.6479373241
## 32993        3        4    0.6479355206
## 27952        3        2    0.6479325156
## 32899        3        4    0.6479204476
## 32622        3        4    0.6479111936
## 32514        3        4    0.6478973505
## 32760        3        4    0.6478511716
## 28088        3        2    0.6478128876
## 28275        3        2    0.6478029072
## 35325        3        4    0.6477008176
## 35434        3        4    0.6476410008
## 32591        3        4    0.6476331901
## 32982        3        4    0.6475416551
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## 28027        3        2    0.6474834004
## 32743        3        4    0.6474758024
## 33044        3        4    0.6474675264
## 33094        3        4    0.6474388476
## 28209        3        2    0.6473453005
## 27895        3        2    0.6473129636
## 28087        3        2    0.6473058505
## 32445        3        4    0.6472957593
## 29257        3        2    0.6472661531
## 32532        3        4    0.6471994035
## 27960        3        2    0.6471938719
## 33042        3        4    0.6471374109
## 27781        3        2    0.6470105176
## 27934        3        2    0.6469882576
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## 27860        3        2    0.6467377736
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## 32747        3        4    0.6467165090
## 33023        3        4    0.6466739395
## 33024        3        4    0.6466677655
## 27959        3        2    0.6466648300
```

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## 27891          3          2   0.6464377600
## 27972          3          2   0.6463744222
## 33608          3          4   0.6462784552
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## 32090          3          4   0.6461100849
## 32975          3          4   0.6460991313
## 35435          3          4   0.6459892700
## 27882          3          2   0.6459174074
## 27756          3          2   0.6458113213
## 28322          3          2   0.6457912617
## 29362          3          2   0.6457844833
## 27753          3          2   0.6457735323
## 35604          3          4   0.6457613409
## 28202          3          2   0.6457521629
## 32928          3          4   0.6457477416
## 28053          3          2   0.6457293789
## 27908          3          2   0.6457242580
## 35174          3          4   0.6457162755
## 33100          3          4   0.6457107529
## 33147          3          4   0.6456967602
## 27821          3          2   0.6456952758
## 33154          3          4   0.6456903800
## 28070          3          2   0.6456884839
## 27809          3          2   0.6456767468
## 32513          3          4   0.6456649436
## 32512          3          4   0.6456350909
## 28475          3          2   0.6456078137
## 28052          3          2   0.6455762564
## 33211          3          4   0.6455668795
## 30765          3          2   0.6455527694
## 33105          3          4   0.6455471455
## 35605          3          4   0.6455454926
## 30768          3          2   0.6455438890
## 28199          3          2   0.6455324291
## 28012          3          2   0.6455226625
## 32818          3          4   0.6455095844
## 27977          3          2   0.6454743080
## 28211          3          2   0.6454526759
## 35176          3          4   0.6454429901
## 30766          3          2   0.6454399799
## 33104          3          4   0.6454111150
## 32517          3          4   0.6453917302
## 27805          3          2   0.6453891015
## 33145          3          4   0.6452723604
## 32485          3          4   0.6452625528
## 33453          3          4   0.6452247842
## 33454          3          4   0.6452024052
## 32585          3          4   0.6451823507
## 27808          3          2   0.6450181307
## 27802          3          2   0.6449898618
## 33150          3          4   0.6449708011
## 35544          3          4   0.6449421169
```

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## 32817          3          4    0.6449114577
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## 33146          3          4    0.6448722394
## 33350          3          4    0.6448703966
## 28178          3          2    0.6448433797
## 27853          3          2    0.6448170769
## 33101          3          4    0.6447738650
## 27876          3          2    0.6447265810
## 32690          3          4    0.6445627231
## 28177          3          2    0.6445222418
## 33187          3          4    0.6445187321
## 32510          3          4    0.6444822099
## 32518          3          4    0.6444758936
## 27939          3          2    0.6444679564
## 28045          3          2    0.6444304007
## 27949          3          2    0.6444176875
## 32800          3          4    0.6443798834
## 32433          3          4    0.6443757950
## 28283          3          2    0.6443400347
## 32494          3          4    0.6442216544
## 32635          3          4    0.6442052391
## 32481          3          4    0.6441613621
## 27822          3          2    0.6441528296
## 27806          3          2    0.6441518097
## 33047          3          4    0.6441372904
## 32641          3          4    0.6441287463
## 33144          3          4    0.6440725814
## 33609          3          4    0.6440713926
## 33348          3          4    0.6439581426
## 33149          3          4    0.6438714016
## 27804          3          2    0.6438277113
## 27771          3          2    0.6438059172
## 33151          3          4    0.6437986214
## 28071          3          2    0.6437927129
## 32466          3          4    0.6437665308
## 27914          3          2    0.6437528480
## 32482          3          4    0.6436864399
## 27907          3          2    0.6436699903
## 27803          3          2    0.6436507749
## 32593          3          4    0.6436050383
## 27924          3          2    0.6435761458
## 28273          3          2    0.6435538598
## 27897          3          2    0.6435485853
## 27807          3          2    0.6432840710
## 32682          3          4    0.6432705637
## 32720          3          4    0.6432488318
## 28198          3          2    0.6432465501
## 32483          3          4    0.6432379959
## 32976          3          4    0.6432155908
## 34109          3          4    0.6432086700
## 33015          3          4    0.6431631380
## 32470          3          4    0.6431101853
## 28474          3          2    0.6430533805
## 27906          3          2    0.6430447179
```

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## 33025       3       4   0.6430010728
## 32610       3       4   0.6429957939
## 33098       3       4   0.6428196264
## 35433       3       4   0.6427099187
## 28276       3       2   0.6426974922
## 32882       3       4   0.6426973218
## 33045       3       4   0.6426794768
## 27752       3       2   0.6426689847
## 33148       3       4   0.6426565148
## 32594       3       4   0.6426442837
## 32469       3       4   0.6426079713
## 27745       3       2   0.6426035295
## 33342       3       4   0.6425958236
## 27957       3       2   0.6425936687
## 32727       3       4   0.6425898771
## 32880       3       4   0.6425830745
## 28780       3       2   0.6424812806
## 32952       3       4   0.6424794860
## 27747       3       2   0.6424368741
## 28050       3       2   0.6424297169
## 27851       3       2   0.6424216802
## 33455       3       4   0.6424101979
## 33422       3       4   0.6423875722
## 27754       3       2   0.6423552806
## 32628       3       4   0.6423452871
## 32883       3       4   0.6423332459
## 27709       3       2   0.6423328946
## 33421       3       4   0.6423273896
## 28036       3       2   0.6423186929
## 32595       3       4   0.6423053806
## 28173       3       2   0.6422859011
## 32627       3       4   0.6422605471
## 28044       3       2   0.6422552564
## 32487       3       4   0.6422331413
## 32876       3       4   0.6422296239
## 32748       3       4   0.6421855502
## 33152       3       4   0.6421743988
## 32738       3       4   0.6421509286
## 27890       3       2   0.6421460300
## 28103       3       2   0.6420974141
## 28051       3       2   0.6419765442
## 27913       3       2   0.6419124302
## 33341       3       4   0.6418981927
## 27741       3       2   0.6418618121
## 29256       3       2   0.6417645134
## 27958       3       2   0.6417636596
## 28104       3       2   0.6417412183
## 32881       3       4   0.6417061390
## 33186       3       4   0.6416984365
## 32625       3       4   0.6415244214
## 33103       3       4   0.6415231897
## 32721       3       4   0.6414370511
## 33163       3       4   0.6414282198
## 32639       3       4   0.6413942586
```

```
## 28188     3        2   0.6413704370
## 27894     3        2   0.6413643499
## 27955     3        2   0.6413536428
## 27941     3        2   0.6413080995
## 29651     3        2   0.6412905113
## 27854     3        2   0.6412282511
## 28197     3        2   0.6411975984
## 32685     3        4   0.6410388563
## 35175     3        4   0.6410370060
## 32722     3        4   0.6410344739
## 33423     3        4   0.6410101515
## 28180     3        2   0.6409698421
## 27708     3        2   0.6409313219
## 33556     3        4   0.6407941649
## 32588     3        4   0.6407594629
## 32631     3        4   0.6407482660
## 27896     3        2   0.6407428379
## 32589     3        4   0.6407164781
## 27905     3        2   0.6406266217
## 33346     3        4   0.6406118406
## 27749     3        2   0.6405954982
## 32948     3        4   0.6404522299
## 35327     3        4   0.6404458266
## 29230     3        2   0.6404284742
## 28006     3        2   0.6403876860
## 28117     3        2   0.6403676396
## 27722     3        2   0.6403382302
## 29120     3        2   0.6403244361
## 35326     3        4   0.6401963199
## 33347     3        4   0.6401371889
## 33102     3        4   0.6401258101
## 32992     3        4   0.6401041570
## 32486     3        4   0.6400925010
## 28473     3        2   0.6400661653
## 27721     3        2   0.6400442076
## 27720     3        2   0.6400436063
## 32477     3        4   0.6400364010
## 27750     3        2   0.6400305144
## 28007     3        2   0.6399990449
## 27742     3        2   0.6399937013
## 27746     3        2   0.6399648515
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## 27748     3        2   0.6398319259
## 27744     3        2   0.6398193570
## 32905     3        4   0.6397756085
## 27974     3        2   0.6397447668
## 27892     3        2   0.6397298776
## 33099     3        4   0.6396262497
## 33179     3        4   0.6395030665
## 32686     3        4   0.6394786934
## 35328     3        4   0.6394759421
## 32875     3        4   0.6394616589
## 27719     3        2   0.6394439035
```

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## 32999     3     4   0.6394429131
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## 32886     3     4   0.6394369618
## 27733     3     2   0.6392891878
## 32811     3     4   0.6392711828
## 27710     3     2   0.6392012321
## 32642     3     4   0.6391786289
## 27707     3     2   0.6391507467
## 27846     3     2   0.6391483847
## 32885     3     4   0.6391159889
## 32879     3     4   0.6391147220
## 32643     3     4   0.6390748013
## 27674     3     2   0.6390735811
## 32688     3     4   0.6390542547
## 27650     3     2   0.6390433760
## 33244     3     4   0.6390377612
## 32862     3     4   0.6390372359
## 28170     3     2   0.6390229007
## 35329     3     4   0.6389827911
## 33700     3     4   0.6388755298
## 33264     3     4   0.6388730864
## 33153     3     4   0.6387544541
## 32516     3     4   0.6386905269
## 32807     3     4   0.6386763094
## 32668     3     4   0.6386655489
## 33501     3     4   0.6386469540
## 33135     3     4   0.6385606843
## 33120     3     4   0.6384854264
## 29044     3     2   0.6384749050
## 27653     3     2   0.6384716826
## 28514     3     2   0.6384605431
## 27718     3     2   0.6384567466
## 33095     3     4   0.6383963614
## 27889     3     2   0.6383934544
## 32884     3     4   0.6383642459
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## 32912     3     4   0.6382723632
## 27826     3     2   0.6382296171
## 28079     3     2   0.6381896828
## 27755     3     2   0.6381612037
## 29255     3     2   0.6381566992
## 33096     3     4   0.6381564499
## 30763     3     2   0.6380993716
## 33156     3     4   0.6380951320
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## 27652     3     2   0.6380764407
## 32954     3     4   0.6380733032
## 28999     3     2   0.6380009398
## 29557     3     2   0.6379746903
## 28102     3     2   0.6379727904
## 33555     3     4   0.6379706838
## 32728     3     4   0.6378503709
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## 27825     3     2   0.6378124371
```

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## 33119          3          4    0.6378031958
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## 32931          3          4    0.6375664430
## 32718          3          4    0.6375502241
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## 32913          3          4    0.6375175427
## 32717          3          4    0.6375161074
## 27774          3          2    0.6371785876
## 27673          3          2    0.6371375010
## 27723          3          2    0.6370854200
## 32730          3          4    0.6370483650
## 33141          3          4    0.6370335736
## 32724          3          4    0.6370285555
## 33349          3          4    0.6370117258
## 32861          3          4    0.6370100312
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## 33142          3          4    0.6366312775
## 35606          3          4    0.6365958754
## 27938          3          2    0.6365531451
## 28030          3          2    0.6365084598
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## 28078          3          2    0.6361095300
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## 33477          3          4    0.6360428982
## 32949          3          4    0.6360320935
## 35331          3          4    0.6360217056
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## 33701          3          4    0.6359444458
## 27919          3          2    0.6359417563
## 27845          3          2    0.6359413593
## 27676          3          2    0.6359389082
## 28934          3          2    0.6359261084
## 28845          3          2    0.6359257738
## 32637          3          4    0.6359207518
## 27965          3          2    0.6359045659
## 27619          3          2    0.6358997175
## 27921          3          2    0.6358967315
## 27850          3          2    0.6358905976
```

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## 32731         3         4    0.6358840596
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## 32813         3         4    0.6358486103
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## 27701         3         2    0.6358092865
## 27966         3         2    0.6357911362
## 27592         3         2    0.6356929171
## 27700         3         2    0.6356752518
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## 33113         3         4    0.6356383805
## 28512         3         2    0.6356266168
## 32877         3         4    0.6355921720
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## 27848         3         2    0.6354839677
## 32910         3         4    0.6354771965
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## 32762         3         4    0.6352972714
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## 27618         3         2    0.6349015441
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## 32812         3         4    0.6340460586
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```

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```

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```

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## 28032     3     2   0.6156573720
## 27570     3     2   0.6156093630
## 33093     3     4   0.6154107263
## 32942     3     4   0.6153949567
```

```
## 29333         3         2    0.6153579630
## 33081         3         4    0.6152971800
## 33512         3         4    0.6152876888
## 33517         3         4    0.6152397863
## 33444         3         4    0.6152175193
## 33930         3         4    0.6151610871
## 33079         3         4    0.6151475812
## 33529         3         4    0.6151348625
## 33385         3         4    0.6151176247
## 33077         3         4    0.6150736402
## 33515         3         4    0.6150603585
## 33126         3         4    0.6150500807
## 27768         3         2    0.6150271076
## 35669         3         4    0.6149538289
## 32947         3         4    0.6149188030
## 33086         3         4    0.6148917222
## 33201         3         4    0.6148432679
## 27518         3         2    0.6147866659
## 33991         3         4    0.6147812028
## 33062         3         4    0.6147715728
## 29227         3         2    0.6147105366
## 27437         3         2    0.6146877087
## 33007         3         4    0.6146473402
## 28649         3         2    0.6146404225
## 33290         3         4    0.6146225120
## 27730         3         2    0.6146133178
## 27569         3         2    0.6146059943
## 30109         3         2    0.6145522738
## 27758         3         2    0.6145406027
## 27435         3         2    0.6145349082
## 27568         3         2    0.6144975468
## 27799         3         2    0.6143808448
## 27422         3         2    0.6142863638
## 27393         3         2    0.6142186115
## 33292         3         4    0.6141984636
## 33521         3         4    0.6141095846
## 27626         3         2    0.6140765963
## 27394         3         2    0.6140406666
## 33084         3         4    0.6140299227
## 27678         3         2    0.6140273415
## 27487         3         2    0.6140121719
## 28810         3         2    0.6139303936
## 28650         3         2    0.6138022793
## 27813         3         2    0.6136955202
## 27759         3         2    0.6136438335
## 30108         3         2    0.6135732085
## 32943         3         4    0.6132829537
## 33792         3         4    0.6132152521
## 28584         3         2    0.6131812416
## 33220         3         4    0.6131746435
## 28254         3         2    0.6131200390
## 33513         3         4    0.6131177156
## 27493         3         2    0.6131037030
## 27436         3         2    0.6130997138
```

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## 27413         3          2    0.6130963356
## 28809         3          2    0.6130745300
## 28811         3          2    0.6130715293
## 27453         3          2    0.6129753541
## 33078         3          4    0.6129027725
## 33425         3          4    0.6128427306
## 33006         3          4    0.6127933377
## 27812         3          2    0.6127381984
## 32666         3          2    0.6127276105
## 27455         3          2    0.6126039320
## 33520         3          4    0.6125764737
## 33992         3          4    0.6125671778
## 33518         3          4    0.6125510757
## 33082         3          4    0.6125490468
## 33390         3          4    0.6125367980
## 33467         3          4    0.6123757550
## 33530         3          4    0.6122670963
## 33063         3          4    0.6122167248
## 33990         3          4    0.6122092103
## 33242         3          4    0.6121901365
## 27420         3          2    0.6121088997
## 28808         3          2    0.6119799471
## 33203         3          4    0.6118831204
## 27509         3          2    0.6117317693
## 27574         3          2    0.6117152364
## 32870         3          4    0.6117142143
## 27456         3          2    0.6117093336
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## 33383         3          4    0.6116641524
## 33134         3          4    0.6116415783
## 33233         3          4    0.6115956652
## 33462         3          4    0.6115945024
## 33133         3          4    0.6115312321
## 33129         3          4    0.6114973263
## 33849         3          4    0.6114526233
## 35026         3          4    0.6113929804
## 33551         3          4    0.6113402101
## 27475         3          2    0.6113329699
## 33532         3          4    0.6113175380
## 33522         3          4    0.6112814189
## 33160         3          4    0.6112611767
## 27410         3          2    0.6111520705
## 27469         3          2    0.6110968631
## 33085         3          4    0.6109963507
## 33791         3          4    0.6109935990
## 27354         3          2    0.6109778291
## 27423         3          2    0.6109745492
## 27398         3          2    0.6109195065
## 27760         3          2    0.6108730685
## 35653         3          4    0.6108365423
## 33413         3          4    0.6108230139
## 27372         3          2    0.6108214420
## 27757         3          2    0.6107581520
## 27353         3          2    0.6107175427
```

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## 27415          3          2   0.6107083549
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## 33935          3          4   0.6105104084
## 33125          3          4   0.6105025324
## 33549          3          4   0.6104874437
## 27424          3          2   0.6102638283
## 27887          3          2   0.6102365887
## 27396          3          2   0.6102362897
## 30106          3          2   0.6102332115
## 33473          3          4   0.6102209525
## 27352          3          2   0.6101949541
## 33472          3          4   0.6101675092
## 33848          3          4   0.6101588613
## 33788          3          4   0.6101556563
## 33076          3          4   0.6101456308
## 33296          3          4   0.6101431870
## 28256          3          2   0.6101238080
## 33789          3          4   0.6101236071
## 27480          3          2   0.6100900032
## 27438          3          2   0.6100894388
## 27566          3          2   0.6099057107
## 27471          3          2   0.6098692567
## 27765          3          2   0.6098667701
## 27412          3          2   0.6098354082
## 27371          3          2   0.6098264014
## 28830          3          2   0.6098140067
## 28335          3          2   0.6097858009
## 35667          3          4   0.6097200322
## 33291          3          4   0.6097106059
## 33790          3          4   0.6096749429
## 27828          3          2   0.6094640106
## 27838          3          2   0.6094459761
## 27762          3          2   0.6092965321
## 33061          3          4   0.6092485935
## 33132          3          4   0.6091760755
## 33516          3          4   0.6091683736
## 27441          3          2   0.6090761737
## 27364          3          2   0.6090255226
## 27832          3          2   0.6089894720
## 29222          3          2   0.6089599573
## 33395          3          4   0.6088544295
## 33458          3          4   0.6087921628
## 33159          3          4   0.6087867937
## 33424          3          4   0.6087474650
## 33993          3          4   0.6084989782
## 33459          3          4   0.6084748471
## 27834          3          2   0.6084330496
## 27761          3          2   0.6083756987
## 27705          3          2   0.6083570517
## 33514          3          4   0.6082122687
```

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## 27830          3          2   0.6081946752
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## 33590          3          4   0.6080821761
## 27576          3          2   0.6080588911
## 33262          3          4   0.6079430475
## 33994          3          4   0.6078661853
## 34016          3          4   0.6078447805
## 33506          3          4   0.6078123130
## 30107          3          2   0.6077859617
## 33130          3          4   0.6077332083
## 33672          3          4   0.6077225498
## 33548          3          4   0.6077131301
## 34012          3          4   0.6076597203
## 27466          3          2   0.6076438132
## 33677          3          4   0.6076349703
## 27433          3          2   0.6076122555
## 27459          3          2   0.6075990714
## 28648          3          2   0.6075099642
## 33622          3          4   0.6074636075
## 33399          3          4   0.6074533717
## 34269          3          4   0.6073378015
## 33124          3          4   0.6073110905
## 33484          3          4   0.6072985608
## 33695          3          4   0.6072140986
## 33519          3          4   0.6071611180
## 33238          3          4   0.6070968787
## 27448          3          2   0.6070962308
## 27414          3          2   0.6070933122
## 27473          3          2   0.6070896131
## 34013          3          4   0.6070232913
## 27431          3          2   0.6069577676
## 27728          3          2   0.6069355169
## 27779          3          2   0.6068975405
## 27492          3          2   0.6068861137
## 33263          3          4   0.6068834092
## 30105          3          2   0.6068652155
## 27446          3          2   0.6068515131
## 28255          3          2   0.6068391368
## 27829          3          2   0.6068354799
## 28298          3          2   0.6068317019
## 27564          3          2   0.6066890428
## 27508          3          2   0.6066341557
## 33675          3          4   0.6066298896
## 33528          3          4   0.6065669159
## 33995          3          4   0.6065184071
## 33243          3          4   0.6064724654
## 33729          3          4   0.6064706483
## 33161          3          4   0.6064693156
## 27729          3          2   0.6064638077
## 33591          3          4   0.6064026600
## 27445          3          2   0.6061301757
## 33851          3          4   0.6060660198
## 34015          3          4   0.6060660198
## 35668          3          4   0.6060535759
```

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## 27833          3          2    0.6060448375
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## 28176          3          2    0.6060201494
## 33531          3          4    0.6060085862
## 29848          3          2    0.6059810429
## 27406          3          2    0.6059723017
## 27404          3          2    0.6059718723
## 34011          3          4    0.6059549862
## 33547          3          4    0.6059244270
## 35654          3          4    0.6056835308
## 33485          3          4    0.6055286092
## 33378          3          4    0.6054653977
## 33671          3          4    0.6054220293
## 27385          3          2    0.6051913733
## 27397          3          2    0.6051453349
## 33180          3          4    0.6050682299
## 33621          3          4    0.6050654473
## 27444          3          2    0.6050540273
## 33550          3          4    0.6050352373
## 27507          3          2    0.6050040888
## 33680          3          4    0.6049806871
## 33181          3          4    0.6047051082
## 33652          3          4    0.6045516686
## 28511          3          2    0.6044383173
## 33946          3          4    0.6044205250
## 27336          3          2    0.6044189155
## 33398          3          4    0.6043712664
## 27836          3          2    0.6043454956
## 27835          3          2    0.6043286236
## 28057          3          2    0.6042701466
## 33594          3          4    0.6040817904
## 33403          3          4    0.6040405324
## 33369          3          4    0.6040231757
## 33384          3          4    0.6040207025
## 33131          3          4    0.6040155718
## 33240          3          4    0.6040107167
## 27565          3          2    0.6040101512
## 35670          3          4    0.6039922287
## 33426          3          4    0.6039842470
## 33367          3          4    0.6039586493
## 33679          3          4    0.6039486776
## 33764          3          4    0.6039264963
## 33406          3          4    0.6039154879
## 34239          3          4    0.6039042245
## 33998          3          4    0.6038258254
## 33592          3          4    0.6038216361
## 33761          3          4    0.6038207389
## 33368          3          4    0.6038198409
## 27432          3          2    0.6037882331
## 33765          3          4    0.6037865093
## 27430          3          2    0.6037824124
## 33756          3          4    0.6036580061
## 33681          3          4    0.6036393512
## 33447          3          4    0.6035726479
```

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## 33402     3     4   0.6035088450
## 34270     3     4   0.6034722489
## 33833     3     4   0.6034544169
## 33852     3     4   0.6034336796
## 33945     3     4   0.6034161699
## 27434     3     2   0.6033383381
## 27607     3     2   0.6033378907
## 27608     3     2   0.6033187886
## 27326     3     2   0.6033116307
## 27378     3     2   0.6033037003
## 27655     3     2   0.6032684575
## 27311     3     2   0.6032433573
## 33271     3     4   0.6032284004
## 33037     3     4   0.6032229164
## 27283     3     2   0.6032175615
## 27379     3     2   0.6032110308
## 28058     3     2   0.6032077292
## 27380     3     2   0.6031611670
## 27240     3     2   0.6031562686
## 27388     3     2   0.6030875852
## 33162     3     4   0.6030771402
## 27474     3     2   0.6030381232
## 33767     3     4   0.6030349609
## 28059     3     2   0.6030213851
## 27242     3     2   0.6030108903
## 27600     3     2   0.6030076441
## 27490     3     2   0.6029263516
## 49075     3     4   0.6028930456
## 28214     3     2   0.6028305853
## 28441     3     2   0.6028049624
## 33246     3     4   0.6026808663
## 33763     3     4   0.6026141169
## 27557     3     2   0.6025416716
## 27395     3     2   0.6025324258
## 28744     3     2   0.6025253274
## 33803     3     4   0.6023451283
## 33676     3     4   0.6021962922
## 33401     3     4   0.6021729186
## 28253     3     2   0.6019894463
## 33766     3     4   0.6018532179
## 28635     3     2   0.6018325444
## 33004     3     4   0.6017586675
## 33651     3     4   0.6017477367
## 33698     3     4   0.6017180950
## 27447     3     2   0.6017176565
## 33997     3     4   0.6016881251
## 27339     3     2   0.6016692286
## 27885     3     2   0.6016450855
## 28213     3     2   0.6016367863
## 33270     3     4   0.6015535954
## 33757     3     4   0.6015144170
## 27503     3     2   0.6013486748
## 27349     3     2   0.6013103290
## 27886     3     2   0.6012721488
```

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## 34014      3      4   0.6012676268
## 33759      3      4   0.6011871115
## 27399      3      2   0.6011833607
## 33678      3      4   0.6011685442
## 36157      3      4   0.6010936452
## 33445      3      4   0.6009447857
## 33593      3      4   0.6009157271
## 27727      3      2   0.6007679569
## 29079      3      2   0.6007510572
## 28812      3      2   0.6007429807
## 33189      3      4   0.6007056173
## 27567      3      2   0.6005609261
## 28633      3      2   0.6005532504
## 27702      3      2   0.6005042521
## 33266      3      4   0.6004964445
## 27389      3      2   0.6004895593
## 33188      3      4   0.6001720008
## 27351      3      2   0.6001515942
## 33850      3      4   0.6001478859
## 49076      3      4   0.6001313679
## 33392      3      4   0.6001277978
## 29080      3      2   0.6001129102
## 33400      3      4   0.6001095475
## 33816      3      4   0.6000726899
## 33276      3      4   0.6000524114
## 33814      3      4   0.6000464726
## 33500      3      4   0.6000209131
## 27491      3      2   0.5999210815
## 27559      3      2   0.5999028314
## 33239      3      4   0.5997022439
## 33268      3      4   0.5996545883
## 34017      3      4   0.5996514635
## 33408      3      4   0.5995818513
## 33234      3      4   0.5995765713
## 33673      3      4   0.5995660577
## 27335      3      2   0.5995351417
## 33274      3      4   0.5995039429
## 33405      3      4   0.5994935435
## 28175      3      2   0.5994837198
## 27249      3      2   0.5994309467
## 27831      3      2   0.5994269138
## 27325      3      2   0.5994174174
## 32456      3      2   0.5994135446
## 27884      3      2   0.5993169085
## 29847      3      2   0.5993169085
## 33760      3      4   0.5992426888
## 33269      3      4   0.5992379872
## 27560      3      2   0.5992143667
## 33225      3      4   0.5992106077
## 28212      3      2   0.5991933056
## 27375      3      2   0.5991847717
## 27561      3      2   0.5991768717
## 27373      3      2   0.5991441568
## 27333      3      2   0.5991398361
```

```
## 28136         3            2    0.5991117453
## 27706         3            2    0.5991049739
## 27521         3            2    0.5990817607
## 33996         3            4    0.5990565498
## 33407         3            4    0.5989411031
## 27562         3            2    0.5988999957
## 27489         3            2    0.5988593653
## 33440         3            4    0.5988048565
## 34190         3            4    0.5988027370
## 33439         3            4    0.5987854579
## 33295         3            4    0.5987365950
## 28602         3            2    0.5987343598
## 27337         3            2    0.5986910285
## 27238         3            2    0.5986852016
## 33546         3            4    0.5985187835
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## 33999         3            4    0.5984709936
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## 28215         3            2    0.5983834650
## 28634         3            2    0.5983826743
## 27320         3            2    0.5983325664
## 27344         3            2    0.5983229793
## 27281         3            2    0.5983207640
## 27265         3            2    0.5983152131
## 33245         3            4    0.5982693513
## 33818         3            4    0.5982317280
## 33817         3            4    0.5982306121
## 33275         3            4    0.5982048487
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## 27654         3            2    0.5978815745
## 27350         3            2    0.5978589152
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## 36359         3            4    0.5976265756
## 27472         3            2    0.5975515323
## 27241         3            2    0.5975285707
## 27323         3            2    0.5974030601
## 34009         3            4    0.5973824098
## 33832         3            4    0.5973627501
## 27377         3            2    0.5973478683
## 33190         3            4    0.5973097270
## 27524         3            2    0.5972569734
## 33391         3            4    0.5972546398
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## 27726         3            2    0.5970021997
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## 27563         3            2    0.5967575333
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## 28174         3            2    0.5966819191
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## 33754         3            4    0.5965572836
```

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## 33740     3     4    0.5965499833
## 35733     3     4    0.5963524637
## 34188     3     4    0.5963324478
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## 33229     3     4    0.5961618771
## 34187     3     4    0.5961561233
## 33755     3     4    0.5961462566
## 33822     3     4    0.5961451119
## 33628     3     4    0.5961371325
## 33461     3     4    0.5961146280
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## 33247     3     4    0.5960249319
## 33281     3     4    0.5959567403
## 34002     3     4    0.5959307347
## 33460     3     4    0.5959099496
## 33278     3     4    0.5958949465
## 33285     3     4    0.5958747025
## 36515     3     4    0.5958384701
## 34001     3     4    0.5958369533
## 33282     3     4    0.5958248426
## 27440     3     2    0.5956832693
## 27479     3     2    0.5956788340
## 33283     3     4    0.5955726950
## 27270     3     2    0.5954887793
## 33273     3     4    0.5953892699
## 27470     3     2    0.5953823088
## 27699     3     2    0.5953611883
## 27272     3     2    0.5953277606
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## 33272     3     4    0.5951512767
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## 28442     3     2    0.5949989730
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## 27409     3     2    0.5948896010
## 33815     3     4    0.5948296202
## 27408     3     2    0.5947159117
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## 33433     3     4    0.5942887495
## 33709     3     4    0.5942887495
## 27275     3     2    0.5942053229
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```

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## 27321        3          2   0.5939522990
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## 33527        3          4   0.5937217253
## 27239        3          2   0.5936669676
## 33434        3          4   0.5936654251
## 33896        3          2   0.5936362899
## 33432        3          4   0.5936191828
## 27334        3          2   0.5936185674
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## 27405        3          2   0.5934005385
## 33387        3          4   0.5932987059
## 27488        3          2   0.5932631619
## 33286        3          4   0.5930089609
## 27374        3          2   0.5927487166
## 27403        3          2   0.5927274365
## 27636        3          2   0.5927217590
## 28559        3          2   0.5927079245
## 33227        3          4   0.5926085421
## 33428        3          4   0.5925869703
## 33284        3          4   0.5925819834
## 33856        3          4   0.5924091540
## 33430        3          4   0.5922516082
## 33758        3          4   0.5922475345
## 33762        3          4   0.5922206856
## 33533        3          4   0.5922098419
## 33491        3          4   0.5921578344
## 27280        3          2   0.5921455363
## 35944        3          4   0.5921151282
## 27282        3          2   0.5921132128
## 33540        3          4   0.5920058378
## 27693        3          2   0.5919952556
## 33482        3          4   0.5919278781
## 33498        3          4   0.5918584088
## 34350        3          4   0.5917869914
## 33493        3          4   0.5917768587
## 27523        3          2   0.5917760679
## 27558        3          2   0.5917626078
## 33280        3          4   0.5917493205
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## 27522        3          2   0.5917139189
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## 27278        3          2   0.5915622608
## 27698        3          2   0.5913776037
## 34349        3          4   0.5913309634
## 33823        3          4   0.5913227793
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## 33463        3          4   0.5913171229
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```

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## 27577        3        2    0.5912535277
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## 27402        3        2    0.5911354382
## 27811        3        2    0.5910929247
## 27390        3        2    0.5910845892
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## 28556        3        2    0.5905348056
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## 34201        3        4    0.5904858664
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## 33632        3        4    0.5904277695
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## 27212        3        2    0.5902615888
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## 33279        3        4    0.5899210523
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## 33479        3        4    0.5896138477
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## 27579        3        2    0.5893476872
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## 27199        3        2    0.5892144078
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## 33487        3        4    0.5889224547
## 33545        3        4    0.5888841921
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## 27264        3        2    0.5886889550
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## 34004        3        4    0.5884945876
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## 33524        3        4    0.5880019390
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```

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## 33826       3       4   0.5873566651
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## 33805       3       4   0.5873292582
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## 33230       3       4   0.5872765111
## 33379       3       4   0.5872651488
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## 27151       3       2   0.5872392645
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## 27498       3       2   0.5872088725
## 27162       3       2   0.5871855804
## 27273       3       2   0.5871732832
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## 27271       3       2   0.5871129583
## 27168       3       2   0.5870518028
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## 33457       3       4   0.5868042978
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## 27182       3       2   0.5860913061
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## 27169       3       2   0.5860149369
## 27696       3       2   0.5858798414
## 33497       3       4   0.5858760894
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## 33824       3       4   0.5857132774
```

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## 27383      3         2    0.5846606305
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## 34204      3         4    0.5843331434
## 34200      3         4    0.5843189418
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## 27345      3         2    0.5838691276
## 27185      3         2    0.5838574566
## 33374      3         4    0.5838094524
## 35946      3         4    0.5837621244
## 33582      3         4    0.5837602419
## 33841      3         4    0.5837524647
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## 27580      3         2    0.5836917131
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## 27484      3         2    0.5833637260
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## 33496      3         4    0.5831843519
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## 33576      3         4    0.5830358268
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## 27368      3         2    0.5829720009
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## 27260      3         2    0.5828959609
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## 28576      3         2    0.5828050384
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```

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## 27129          3          2    0.5826110209
## 27161          3          2    0.5825682021
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## 27496          3          2    0.5823459222
## 27305          3          2    0.5823394036
## 27266          3          2    0.5822633334
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## 33584          3          4    0.5820849121
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## 27140          3          2    0.5814217992
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## 33655          3          4    0.5812759528
## 33507          3          4    0.5812005255
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## 33692          3          4    0.5793859515
## 33541          3          4    0.5793499443
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```

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## 33873        3        4   0.5792064729
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## 33870        3        4   0.5788928546
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## 34085        3        4   0.5786826765
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## 27098        3        2   0.5782959402
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## 33715        3        4   0.5781002457
## 27269        3        2   0.5780960335
## 27097        3        2   0.5780957359
## 27194        3        2   0.5779788443
## 27045        3        2   0.5777801245
## 28160        3        2   0.5776741392
## 27054        3        2   0.5776562609
## 27095        3        2   0.5776245771
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## 29842        3        2   0.5773808160
## 27193        3        2   0.5772987968
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## 33730        3        4   0.5771468438
## 28977        3        2   0.5771465038
## 28159        3        2   0.5771284316
## 33578        3        4   0.5770817446
## 33539        3        4   0.5770612369
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## 27041        3        2   0.5768531611
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## 27192         3         2   0.5766289857
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## 27124         3         2   0.5763816358
## 28577         3         2   0.5763787910
## 27126         3         2   0.5763441154
## 27081         3         2   0.5762820828
## 27042         3         2   0.5762704753
## 36667         3         4   0.5762279257
## 27998         3         2   0.5760526132
## 27188         3         2   0.5760451669
## 34392         3         4   0.5760350037
## 34125         3         4   0.5758954359
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## 27268         3         2   0.5756312898
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## 27504         3         2   0.5747016859
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## 33635         3         4   0.5745900960
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```

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## 27297          3          2    0.5742639749
## 34054          3          4    0.5742451482
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## 27295          3          2    0.5736350551
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## 34311          3          4    0.5735062688
## 33566          3          4    0.5734401432
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## 27082         3            2    0.5711922908
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```

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## 27309          3          2   0.5698399233
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## 33988          3          4   0.5694150543
## 33641          3          4   0.5693277570
## 27139          3          2   0.5692608970
## 33807          3          4   0.5691523163
## 33575          3          4   0.5691065312
## 34510          3          4   0.5690947023
## 36209          3          4   0.5690947023
## 34509          3          4   0.5690777378
## 27289          3          2   0.5690400730
## 27146          3          2   0.5689629608
## 34328          3          4   0.5688614610
## 27795          3          2   0.5687248447
## 27308          3          2   0.5686702646
## 27290          3          2   0.5686280356
## 27287          3          2   0.5684926542
## 27121          3          2   0.5684858997
## 33914          3          4   0.5684447431
## 33666          3          4   0.5684359015
## 27996          3          2   0.5684042842
## 27119          3          2   0.5683691766
## 33936          3          4   0.5682188295
## 33957          3          4   0.5681788573
## 26958          3          2   0.5681227218
## 27291          3          2   0.5681066274
## 34508          3          4   0.5678873032
## 27382          3          2   0.5678216582
## 33926          3          4   0.5678007331
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## 34055          3          4   0.5676479449
## 33446          3          4   0.5676421195
## 27038          3          2   0.5675712810
## 30775          3          2   0.5674446259
## 33636          3          4   0.5673814082
## 26986          3          2   0.5673563202
## 27226          3          2   0.5672669412
## 27076          3          2   0.5672180200
## 27040          3          2   0.5672126354
```

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## 33572        3        4   0.5671260282
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## 33689        3        4   0.5670929076
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## 27110        3        2   0.5669630135
## 33745        3        4   0.5669251360
## 27111        3        2   0.5667681610
## 29965        3        2   0.5667472557
## 33580        3        4   0.5664843954
## 33663        3        4   0.5663344830
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## 33937        3        4   0.5662592933
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## 34059        3        4   0.5661938273
## 33589        3        4   0.5661787061
## 34070        3        4   0.5660976012
## 34042        3        4   0.5660123608
## 33644        3        4   0.5659728597
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## 34234        3        4   0.5659314324
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## 34041        3        4   0.5656592993
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## 33646        3        4   0.5652594346
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## 28762        3        2   0.5652132506
## 26959        3        2   0.5651942486
## 27257        3        2   0.5651883036
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## 33662        3        4   0.5649393747
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## 27049        3        2   0.5649139139
## 27051        3        2   0.5648853917
## 49487        3        4   0.5648507203
## 27359        3        2   0.5648060854
## 27084        3        2   0.5647114013
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```

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## 27062          3          2    0.5643437582
## 33648          3          4    0.5643259904
## 27137          3          2    0.5643078396
## 27145          3          2    0.5642899794
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## 33808          3          4    0.5640098231
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## 27090          3          2    0.5639963185
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## 33649          3          4    0.5637303264
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## 34021          3          4    0.5626587659
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## 34044          3          4    0.5616162289
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## 28324          3          2    0.5615632524
```

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## 33959          3          4    0.5615347834
## 28880          3          2    0.5615224991
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## 33925          3          4    0.5613606375
## 37054          3          4    0.5613508614
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## 34067          3          4    0.5609655466
## 27177          3          2    0.5608976109
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## 33647          3          4    0.5604616071
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## 26940          3          2    0.5590299264
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```

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## 33753        3        4    0.5584414417
## 27254        3        2    0.5584309939
## 27232        3        2    0.5579864184
## 34783        3        4    0.5579146636
## 27231        3        2    0.5577305745
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## 27174        3        2    0.5573134841
## 27230        3        2    0.5572929572
## 26936        3        2    0.5572707910
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## 34135        3        4    0.5566976368
## 34137        3        4    0.5566927051
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## 27034        3        2    0.5564960278
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## 26893        3        2    0.5564949486
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## 26965        3        2    0.5563377386
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## 33845        3        4    0.5562975988
## 27175        3        2    0.5562933132
## 27304        3        2    0.5562886400
```

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## 26953       3         2    0.5560754245
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## 26985       3         2    0.5558325159
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## 26994       3         2    0.5557707573
## 26938       3         2    0.5557113917
## 34155       3         4    0.5557095811
## 34862       3         4    0.5557036369
## 34142       3         4    0.5556241494
## 33810       3         4    0.5556037209
## 33781       3         4    0.5554351506
## 34080       3         4    0.5554219521
## 27028       3         2    0.5553983832
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## 33784       3         4    0.5550844360
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## 27087       3         2    0.5549565184
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## 34134       3         4    0.5547213065
## 34209       3         4    0.5547076044
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## 29854       3         2    0.5544489690
## 26950       3         2    0.5544050060
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## 34143       3         4    0.5537216951
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## 34136       3         4    0.5529791693
## 27540       3         2    0.5528974322
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## 37756       3         4    0.5525752269
```

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## 27088         3         2    0.5524682628
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## 34176         3         4    0.5520614415
## 34456         3         4    0.5520481935
## 33857         3         4    0.5520476606
## 34181         3         4    0.5520265320
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## 27215         3         2    0.5518667836
## 27001         3         2    0.5518311494
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## 26846         3         2    0.5511329607
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## 26843         3         2    0.5511206605
## 27478         3         2    0.5511203953
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## 37757         3         4    0.5508688121
## 34416         3         4    0.5508686363
## 33891         3         4    0.5508503318
## 34931         3         4    0.5508430776
## 37755         3         4    0.5508074800
## 26954         3         2    0.5507783536
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## 26842         3         2    0.5507290734
```

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## 28640           3           2    0.5506924482
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## 28165           3           2    0.5504169416
## 33847           3           4    0.5503903551
## 33971           3           4    0.5503903551
## 34156           3           4    0.5503103507
## 33974           3           4    0.5502998197
## 33834           3           4    0.5502793998
## 33938           3           4    0.5502629561
## 27477           3           2    0.5502414350
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## 34358           3           4    0.5499507880
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## 26891           3           2    0.5499254189
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## 27154           3           2    0.5484870515
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## 33972           3           4    0.5483163026
## 34210           3           4    0.5482572519
## 33949           3           4    0.5482169092
## 33786           3           4    0.5481044041
## 33903           3           4    0.5480325900
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## 27714           3           2    0.5477968771
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## 34008           3           4    0.5474546258
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```

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## 26949    3    2   0.5472738449
## 27217    3    2   0.5472588369
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## 27672    3    2   0.5471467903
## 26811    3    2   0.5471224300
## 26860    3    2   0.5471218750
## 27000    3    2   0.5470788355
## 26873    3    2   0.5470706982
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## 26835    3    2   0.5470007222
## 26810    3    2   0.5469456036
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## 33863    3    4   0.5469167481
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## 34225    3    4   0.5468072744
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## 26823    3    2   0.5466119608
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## 34223    3    4   0.5454988843
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```

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## 26872          3           2    0.5423379359
## 26921          3           2    0.5423353082
## 27612          3           2    0.5423190073
## 29571          3           2    0.5422982388
## 27416          3           2    0.5422737524
## 27525          3           2    0.5422681181
## 26788          3           2    0.5422630164
## 35113          3           4    0.5422374027
## 26756          3           2    0.5422289706
## 28496          3           2    0.5422145771
## 28493          3           2    0.5421850889
## 34229          3           4    0.5421752791
## 26919          3           2    0.5421168884
## 34227          3           4    0.5420770445
## 34611          3           4    0.5420313326
## 34089          3           4    0.5419741898
## 34025          3           4    0.5419705914
## 26717          3           2    0.5419530916
## 27181          3           2    0.5419438768
## 35111          3           4    0.5419003689
## 34490          3           4    0.5418550702
## 34231          3           4    0.5418265780
## 26961          3           2    0.5417269357
## 27417          3           2    0.5417095542
## 28494          3           2    0.5417016244
## 26918          3           2    0.5416566897
## 34419          3           4    0.5416054922
```

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## 33962          3          4    0.5415879103
## 27615          3          2    0.5415505984
## 34091          3          4    0.5415260849
## 27104          3          2    0.5413790626
## 34026          3          4    0.5412619595
## 27152          3          2    0.5411783660
## 27616          3          2    0.5411603758
## 34167          3          4    0.5411325315
## 34578          3          4    0.5410673600
## 33977          3          4    0.5407755780
## 34299          3          4    0.5407606485
## 33940          3          4    0.5407123194
## 33964          3          4    0.5406068058
## 26951          3          2    0.5405063287
## 29574          3          2    0.5405043008
## 27109          3          2    0.5403744000
## 26894          3          2    0.5403432715
## 26838          3          2    0.5403217266
## 36532          3          4    0.5402246127
## 34228          3          4    0.5401990660
## 34061          3          4    0.5399917377
## 26917          3          2    0.5399504870
## 33978          3          4    0.5399387528
## 26800          3          2    0.5398597974
## 34060          3          4    0.5396278018
## 26864          3          2    0.5396239548
## 26871          3          2    0.5396114007
## 33893          3          4    0.5396100649
## 36531          3          4    0.5393564189
## 49723          3          4    0.5393515468
## 34232          3          4    0.5392780304
## 27180          3          2    0.5392303572
## 26801          3          2    0.5392191390
## 27201          3          2    0.5392134058
## 27611          3          2    0.5392035879
## 27017          3          2    0.5391700808
## 26999          3          2    0.5391673273
## 34221          3          4    0.5391484308
## 26803          3          2    0.5389593195
## 26791          3          2    0.5389358390
## 28694          3          2    0.5388839945
## 35112          3          4    0.5388299317
## 33885          3          4    0.5385650577
## 34224          3          4    0.5385289942
## 26922          3          2    0.5383145884
## 26920          3          2    0.5382028412
## 34062          3          4    0.5380850434
## 34278          3          4    0.5380051896
## 33905          3          4    0.5379074539
## 27026          3          2    0.5378817816
## 26705          3          2    0.5377696967
## 26897          3          2    0.5377431544
## 34230          3          4    0.5376965014
## 33965          3          4    0.5376892210
```

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## 34010          3           4     0.5376672685
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## 26916          3           2     0.5374794249
## 27032          3           2     0.5374776925
## 26983          3           2     0.5374496408
## 26802          3           2     0.5374247173
## 27263          3           2     0.5374191555
## 26798          3           2     0.5374124735
## 34103          3           4     0.5373847625
## 34794          3           4     0.5373817771
## 34352          3           4     0.5373752404
## 34099          3           4     0.5373724025
## 26783          3           2     0.5373466769
## 34065          3           4     0.5373054564
## 34793          3           4     0.5372908357
## 34090          3           4     0.5372080380
## 26793          3           2     0.5371955830
## 34282          3           4     0.5371906362
## 34116          3           4     0.5371624667
## 26799          3           2     0.5371081115
## 26831          3           2     0.5370787634
## 34104          3           4     0.5370769785
## 34098          3           4     0.5369724116
## 27670          3           2     0.5369584197
## 34164          3           4     0.5369527239
## 34031          3           4     0.5369352913
## 33966          3           4     0.5369269655
## 34341          3           4     0.5369006015
## 34687          3           4     0.5368779052
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## 29573          3           2     0.5367582280
## 26797          3           2     0.5366921363
## 26896          3           2     0.5366613371
## 34492          3           4     0.5366571185
## 34029          3           4     0.5366538935
## 28495          3           2     0.5366375792
## 26692          3           2     0.5366118324
## 34107          3           4     0.5365417301
## 26982          3           2     0.5364451280
## 34283          3           4     0.5362518694
## 33955          3           4     0.5362389464
## 34032          3           4     0.5361735005
## 34613          3           4     0.5361154759
## 26666          3           2     0.5359835381
## 28412          3           2     0.5359681598
## 27108          3           2     0.5359544872
## 26715          3           2     0.5358641970
## 34284          3           4     0.5358048786
## 34064          3           4     0.5357900391
## 34497          3           4     0.5356380216
## 34033          3           4     0.5356054169
## 34049          3           4     0.5355890465
## 26794          3           2     0.5353502744
```

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## 34105       3       4   0.5352685395
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## 34669       3       4   0.5349814153
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## 26941       3       2   0.5347783265
## 29572       3       2   0.5347681057
## 33963       3       4   0.5347681018
## 27153       3       2   0.5347434194
## 34277       3       4   0.5347102308
## 26841       3       2   0.5343494059
## 34102       3       4   0.5343423892
## 26815       3       2   0.5343346459
## 34690       3       4   0.5343214213
## 34096       3       4   0.5343118466
## 34612       3       4   0.5343035690
## 33979       3       4   0.5342964652
## 26816       3       2   0.5341585117
## 34568       3       4   0.5336469821
## 34093       3       4   0.5336410896
## 34279       3       4   0.5336371073
## 34035       3       4   0.5336247839
## 34688       3       4   0.5335857937
## 34491       3       4   0.5335801618
## 34063       3       4   0.5334996772
## 26713       3       2   0.5333690180
## 26691       3       2   0.5330636686
## 34106       3       4   0.5330061667
## 34166       3       4   0.5330030661
## 34500       3       4   0.5327610254
## 34499       3       4   0.5327329433
## 34165       3       4   0.5327135222
## 34100       3       4   0.5326936350
## 26907       3       2   0.5326297142
## 27392       3       2   0.5326290086
## 26819       3       2   0.5326085277
## 26796       3       2   0.5325816787
## 26787       3       2   0.5325751395
## 26716       3       2   0.5325438199
## 28205       3       2   0.5324527922
## 26699       3       2   0.5324256209
## 34401       3       4   0.5324008944
## 34321       3       4   0.5323364429
## 26757       3       2   0.5323293922
## 34039       3       4   0.5323067298
## 34314       3       4   0.5323036122
## 26712       3       2   0.5322969302
## 34174       3       4   0.5322922909
## 33969       3       4   0.5322781686
## 34097       3       4   0.5322096299
## 34315       3       4   0.5322042659
## 34323       3       4   0.5322034364
## 34316       3       4   0.5322015214
## 34028       3       4   0.5321844520
## 34691       3       4   0.5321717430
```

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## 34319     3       4   0.5321271576
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## 26760     3       2   0.5320965491
## 28413     3       2   0.5320565772
## 26972     3       2   0.5320456063
## 26766     3       2   0.5320178799
## 27013     3       2   0.5320005232
## 27008     3       2   0.5319257606
## 34300     3       4   0.5318699882
## 34498     3       4   0.5318183634
## 34037     3       4   0.5317915606
## 34119     3       4   0.5317832185
## 27107     3       2   0.5317688300
## 26786     3       2   0.5317084433
## 26915     3       2   0.5317029181
## 26814     3       2   0.5316919550
## 34118     3       4   0.5316315685
## 34120     3       4   0.5315956067
## 33968     3       4   0.5315907279
## 35378     3       4   0.5315558742
## 34019     3       4   0.5315123856
## 33980     3       4   0.5314778514
## 26785     3       2   0.5314161926
## 26952     3       2   0.5311913403
## 26821     3       2   0.5311456451
## 34495     3       4   0.5311046412
## 34402     3       4   0.5311018998
## 34539     3       4   0.5310877527
## 34594     3       4   0.5310877527
## 34038     3       4   0.5310766815
## 34175     3       4   0.5310452131
## 26762     3       2   0.5310388492
## 27005     3       2   0.5309280691
## 34117     3       4   0.5307169745
## 34731     3       4   0.5306658933
## 26753     3       2   0.5306217565
## 26859     3       2   0.5304178913
## 26971     3       2   0.5304052607
## 26758     3       2   0.5303999171
## 26682     3       2   0.5303868238
## 34400     3       4   0.5301257128
## 34302     3       4   0.5300889031
## 26761     3       2   0.5300598800
## 27006     3       2   0.5299716468
## 26681     3       2   0.5299668520
## 26680     3       2   0.5299292785
## 34313     3       4   0.5298875698
## 34494     3       4   0.5298753855
## 26709     3       2   0.5297803628
## 34493     3       4   0.5294797793
## 26701     3       2   0.5294150297
## 26702     3       2   0.5294064943
## 33954     3       4   0.5292927277
## 34094     3       4   0.5292627688
```

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## 34318          3          4    0.5292609342
## 34036          3          4    0.5291944712
## 34853          3          4    0.5291886631
## 34320          3          4    0.5287285741
## 34689          3          4    0.5286836305
## 36533          3          4    0.5284756317
## 34848          3          4    0.5280029647
## 34538          3          4    0.5279633601
## 33897          3          2    0.5279518466
## 26807          3          2    0.5279471023
## 26693          3          2    0.5279233879
## 26759          3          2    0.5279217448
## 26904          3          2    0.5276312288
## 26619          3          2    0.5275488643
## 26768          3          2    0.5274300251
## 26697          3          2    0.5273954810
## 34404          3          4    0.5272058729
## 26784          3          2    0.5272015225
## 26706          3          2    0.5271978038
## 27004          3          2    0.5271778759
## 35993          3          4    0.5271750003
## 34858          3          4    0.5271283016
## 34774          3          4    0.5270870398
## 26902          3          2    0.5270759163
## 26668          3          2    0.5270659813
## 26704          3          2    0.5270572115
## 34406          3          4    0.5270046047
## 34381          3          4    0.5269718928
## 26806          3          2    0.5269516989
## 33967          3          4    0.5267906096
## 34317          3          4    0.5267680367
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## 35992          3          4    0.5267192560
## 26770          3          2    0.5266832183
## 35994          3          4    0.5266729719
## 27106          3          2    0.5266514390
## 35294          3          4    0.5266148846
## 29297          3          2    0.5264794279
## 27341          3          2    0.5264482785
## 27609          3          2    0.5264436461
## 34371          3          4    0.5264112248
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## 26870          3          2    0.5263666238
## 26967          3          2    0.5263307242
## 34045          3          4    0.5262799283
## 34271          3          4    0.5262681441
## 34263          3          4    0.5261392251
## 27610          3          2    0.5260622252
## 26769          3          2    0.5260469702
## 28161          3          2    0.5260174307
## 34405          3          4    0.5259863998
## 34455          3          4    0.5259021372
## 34285          3          4    0.5258594847
## 34378          3          4    0.5258530855
```

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## 34148        3        4   0.5258073807
## 35177        3        4   0.5257557262
## 34030        3        4   0.5255829422
## 26616        3        2   0.5255692933
## 26622        3        2   0.5255553230
## 26660        3        2   0.5255427100
## 34380        3        4   0.5255260741
## 26661        3        2   0.5254763590
## 26580        3        2   0.5254655563
## 26969        3        2   0.5253710014
## 26620        3        2   0.5253699939
## 34347        3        4   0.5253248988
## 34052        3        4   0.5252943925
## 34322        3        4   0.5251289308
## 26970        3        2   0.5249773534
## 34153        3        4   0.5249647221
## 26903        3        2   0.5249430367
## 26623        3        2   0.5249302918
## 34379        3        4   0.5248858788
## 26774        3        2   0.5248741508
## 34151        3        4   0.5247728880
## 35449        3        4   0.5247564803
## 34111        3        4   0.5247540914
## 33956        3        4   0.5247140423
## 34301        3        4   0.5246935949
## 34110        3        4   0.5246840578
## 26805        3        2   0.5243971367
## 28162        3        2   0.5243719981
## 26901        3        2   0.5243136040
## 28411        3        2   0.5243030938
## 26617        3        2   0.5242812025
## 34480        3        4   0.5241365370
## 34303        3        4   0.5241061927
## 34781        3        4   0.5240789580
## 26618        3        2   0.5236676973
## 27346        3        2   0.5236667959
## 33934        3        4   0.5236421073
## 34376        3        4   0.5236384515
## 34403        3        4   0.5235975172
## 27340        3        2   0.5235835298
## 34737        3        4   0.5235611841
## 34149        3        4   0.5235591984
## 34018        3        4   0.5235517587
## 26683        3        2   0.5234359690
## 34152        3        4   0.5233232691
## 26820        3        2   0.5229249324
## 34374        3        4   0.5228477776
## 26667        3        2   0.5226384582
## 34479        3        4   0.5224677060
## 49799        3        4   0.5224478613
## 26659        3        2   0.5224180938
## 26590        3        2   0.5224001299
## 26689        3        2   0.5223597383
## 28003        3        2   0.5223409770
```

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## 26665        3        2    0.5223357917
## 26592        3        2    0.5223017347
## 27029        3        2    0.5223016138
## 26773        3        2    0.5220889373
## 26771        3        2    0.5220640331
## 26690        3        2    0.5220455825
## 26869        3        2    0.5220386065
## 34478        3        4    0.5219577623
## 34375        3        4    0.5219467457
## 34908        3        4    0.5219064191
## 34095        3        4    0.5218809342
## 34453        3        4    0.5218445441
## 34907        3        4    0.5218105453
## 34496        3        4    0.5218086240
## 34196        3        4    0.5217864627
## 26651        3        2    0.5217538005
## 28154        3        2    0.5215891683
## 26577        3        2    0.5215811315
## 34122        3        4    0.5215675934
## 26763        3        2    0.5215393978
## 26663        3        2    0.5213097363
## 34195        3        4    0.5212645814
## 26696        3        2    0.5211675431
## 34121        3        4    0.5210125265
## 26822        3        2    0.5209640170
## 34519        3        4    0.5209463722
## 26621        3        2    0.5208695406
## 26707        3        2    0.5208097434
## 26650        3        2    0.5207991413
## 26652        3        2    0.5207777792
## 27003        3        2    0.5207123213
## 34372        3        4    0.5206107118
## 34483        3        4    0.5205390356
## 34373        3        4    0.5205338637
## 27031        3        2    0.5204517227
## 26655        3        2    0.5203130329
## 26968        3        2    0.5202651497
## 26998        3        2    0.5202559684
## 34703        3        4    0.5202495048
## 26588        3        2    0.5202394528
## 34101        3        4    0.5201935252
## 34132        3        4    0.5200496402
## 34775        3        4    0.5199994122
## 28408        3        2    0.5199159766
## 26686        3        2    0.5199040975
## 26586        3        2    0.5198542141
## 34766        3        4    0.5196887807
## 26589        3        2    0.5196722156
## 28498        3        2    0.5192286783
## 26631        3        2    0.5192253010
## 26698        3        2    0.5190411553
## 26649        3        2    0.5190007400
## 34377        3        4    0.5189545033
## 34905        3        4    0.5188322622
```

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## 34909          3          4   0.5188099304
## 36890          3          4   0.5187972147
## 26662          3          2   0.5185524294
## 34272          3          4   0.5183894466
## 34520          3          4   0.5183729944
## 26664          3          2   0.5183256708
## 34131          3          4   0.5183197330
## 26688          3          2   0.5182500600
## 34304          3          4   0.5180941167
## 34130          3          4   0.5180656431
## 34702          3          4   0.5180641663
## 34051          3          4   0.5178392505
## 26804          3          2   0.5177919895
## 34408          3          4   0.5175739180
## 34659          3          4   0.5175602864
## 34705          3          4   0.5175438010
## 26754          3          2   0.5174819900
## 26629          3          2   0.5172380620
## 34481          3          4   0.5171926858
## 26948          3          2   0.5171909730
## 26538          3          2   0.5171748173
## 26473          3          2   0.5171701649
## 26572          3          2   0.5171630914
## 26628          3          2   0.5171614800
## 26849          3          2   0.5171117551
## 26851          3          2   0.5170962213
## 26708          3          2   0.5170780306
## 26868          3          2   0.5169749970
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## 36094          3          4   0.5165696942
## 36092          3          4   0.5165658826
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## 34199          3          4   0.5161024378
## 26678          3          2   0.5160799689
## 26585          3          2   0.5160752188
## 34357          3          4   0.5160198532
```

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## 26906        3        2   0.5160023158
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## 34418        3        4   0.5157299647
## 34671        3        4   0.5157119227
## 34173        3        4   0.5156735521
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## 34346        3        4   0.5153928320
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## 34660        3        4   0.5152591667
## 26630        3        2   0.5150591644
## 26687        3        2   0.5150462302
## 26927        3        2   0.5150210736
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## 34579        3        4   0.5143523188
## 34170        3        4   0.5141300960
## 34172        3        4   0.5141258625
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## 26945        3        2   0.5140663290
## 26657        3        2   0.5140338804
## 26946        3        2   0.5138635353
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## 34906        3        4   0.5131616743
## 27030        3        2   0.5131410135
## 34595        3        4   0.5131101144
## 34198        3        4   0.5129747424
## 34857        3        4   0.5127520097
## 34670        3        4   0.5127031032
## 34661        3        4   0.5126890685
## 26627        3        2   0.5125829278
## 26926        3        2   0.5125478907
## 26850        3        2   0.5125420202
## 26607        3        2   0.5123318702
## 26852        3        2   0.5123118926
## 28002        3        2   0.5122695636
## 34428        3        4   0.5122269088
## 36893        3        4   0.5122154101
## 34240        3        4   0.5122124851
## 34672        3        4   0.5121941958
```

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## 26553      3       2   0.5119603428
## 26914      3       2   0.5119394583
## 26537      3       2   0.5119284362
## 27999      3       2   0.5119163774
## 26626      3       2   0.5118976954
## 34241      3       4   0.5118748369
## 27391      3       2   0.5118671340
## 26551      3       2   0.5118624474
## 26645      3       2   0.5118187401
## 34484      3       4   0.5118163180
## 26981      3       2   0.5117985503
## 26656      3       2   0.5117740981
## 26755      3       2   0.5116718154
## 26734      3       2   0.5115187429
## 26552      3       2   0.5115126255
## 26947      3       2   0.5114771833
## 26974      3       2   0.5114579915
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## 34108      3       4   0.5113993016
## 26573      3       2   0.5112394525
## 34673      3       4   0.5111618071
## 36894      3       4   0.5111189672
## 34677      3       4   0.5111002954
## 34215      3       4   0.5110846032
## 34663      3       4   0.5110472614
## 34213      3       4   0.5110454004
## 34694      3       4   0.5109976273
## 34242      3       4   0.5109733695
## 34676      3       4   0.5109594900
## 34216      3       4   0.5109286211
## 49924      3       4   0.5109270910
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## 26539      3       2   0.5108741436
## 28497      3       2   0.5108701131
## 34732      3       4   0.5108673909
## 26603      3       2   0.5108414732
## 34754      3       4   0.5108297799
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## 26737      3       2   0.5107967859
## 28423      3       2   0.5107410293
## 34431      3       4   0.5107202936
## 34366      3       4   0.5106921719
## 35028      3       4   0.5106171041
## 26504      3       2   0.5104792452
## 26519      3       2   0.5104645674
## 34485      3       4   0.5103958297
## 26711      3       2   0.5103155358
## 34452      3       4   0.5100875166
## 34429      3       4   0.5100150368
## 34776      3       4   0.5100037921
## 34487      3       4   0.5099975087
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## 34191      3       4   0.5099850559
## 34662      3       4   0.5099422757
```

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## 34534        3        4    0.5099301646
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## 34831        3        4    0.5098009392
## 26625        3        2    0.5093619381
## 34367        3        4    0.5093065363
## 35029        3        4    0.5093065363
## 34522        3        4    0.5092977911
## 34344        3        4    0.5092871108
## 26604        3        2    0.5092633146
## 34217        3        4    0.5092425174
## 26549        3        2    0.5092098417
## 26973        3        2    0.5091658803
## 34648        3        4    0.5086876150
## 34212        3        4    0.5086807645
## 34651        3        4    0.5086622879
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## 34281        3        4    0.5080597835
## 26644        3        2    0.5080561354
## 34892        3        4    0.5080397301
## 26548        3        2    0.5078698639
## 34342        3        4    0.5075755846
## 34650        3        4    0.5075570219
## 37626        3        4    0.5075261749
## 34482        3        4    0.5074930500
## 27204        3        2    0.5072094058
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## 26587        3        2    0.5070842262
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## 26501        3        2    0.5065625315
## 26749        3        2    0.5065492378
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## 26727        3        2    0.5065133806
## 26944        3        2    0.5064877590
## 26556        3        2    0.5064716768
## 34214        3        4    0.5064551237
## 34832        3        4    0.5064193769
## 26925        3        2    0.5063557152
## 27347        3        2    0.5063399476
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## 26611        3        2    0.5061520993
## 26569        3        2    0.5061460626
## 34399        3        4    0.5060962906
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## 26472        3        2    0.5060756409
## 26723        3        2    0.5059005708
## 26748        3        2    0.5059001558
## 34675        3        4    0.5058961964
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## 26911        3        2    0.5058341332
## 26728        3        2    0.5057902361
## 26550        3        2    0.5056293157
```

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## 34273        3           4   0.5055880821
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## 34211        3           4   0.5055373021
## 34290        3           4   0.5055323598
## 34369        3           4   0.5055208049
## 26731        3           2   0.5055132799
## 34657        3           4   0.5054804624
## 34433        3           4   0.5054775455
## 34859        3           4   0.5054335603
## 34477        3           4   0.5053860979
## 34249        3           4   0.5053619052
## 34248        3           4   0.5052953191
## 26582        3           2   0.5052808723
## 34788        3           4   0.5052453886
## 26481        3           2   0.5050207354
## 26725        3           2   0.5049652352
## 26724        3           2   0.5049597714
## 26882        3           2   0.5046760492
## 34674        3           4   0.5045795751
## 34521        3           4   0.5045666855
## 26602        3           2   0.5045311277
## 26502        3           2   0.5044535813
## 26460        3           2   0.5044440993
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## 26469        3           2   0.5042801890
## 34289        3           4   0.5039565923
## 34286        3           4   0.5039408163
## 26750        3           2   0.5038982185
## 34288        3           4   0.5038698316
## 26733        3           2   0.5038497179
## 26536        3           2   0.5033781937
## 26751        3           2   0.5032814563
## 26910        3           2   0.5032255367
## 34287        3           4   0.5032201320
## 34656        3           4   0.5030861520
## 34385        3           4   0.5030719733
## 34649        3           4   0.5029568545
## 34523        3           4   0.5028668185
## 27868        3           2   0.5027143313
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## 37627        3           4   0.5020070313
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## 26913        3           2   0.5015424211
## 26685        3           2   0.5011707197
## 26601        3           2   0.5011454359
## 26468        3           2   0.5011170222
## 26721        3           2   0.5011119789
## 27211        3           2   0.5011036090
## 26571        3           2   0.5009553564
## 34368        3           4   0.5009092042
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```

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## 26732         3         2   0.5008891474
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## 26527         3         2   0.5008761028
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## 27053         3         2   0.5008681072
## 26557         3         2   0.5008657417
## 34664         3         4   0.5008367258
## 34655         3         4   0.5008336937
## 29296         3         2   0.5007898334
## 26478         3         2   0.5007601349
## 26555         3         2   0.5004371616
## 26379         3         2   0.5001042615
## 26494         3         2   0.5000880130
## 26509         3         2   0.5000617329
## 27166         3         2   0.5000338221
## 34443         3         4   0.5000213523
## 35038         3         4   0.5000078359
## 34306         3         4   0.4999749800
## 34440         3         4   0.4999742770
## 34653         3         4   0.4999500307
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## 34438         3         4   0.4999076896
## 35046         3         4   0.4998582707
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## 34442         3         4   0.4997166897
## 34386         3         4   0.4996856492
## 26743         3         2   0.4996840433
## 28281         3         2   0.4996731809
## 34447         3         4   0.4996539257
## 34441         3         4   0.4996283931
## 26719         3         2   0.4996164995
## 26744         3         2   0.4995829008
## 34446         3         4   0.4995819036
## 35036         3         4   0.4994949595
## 26730         3         2   0.4993231728
## 26479         3         2   0.4991723773
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## 26495         3         2   0.4990612805
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## 34468         3         4   0.4990284566
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## 34597         3         4   0.4986519413
## 34574         3         4   0.4986419655
## 28998         3         2   0.4986415570
## 36184         3         4   0.4986361468
## 26826         3         2   0.4986160173
## 37533         3         4   0.4985877542
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## 34246         3         4   0.4984575273
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## 26632        3        2    0.4983853761
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## 26462        3        2    0.4983392503
## 34305        3        4    0.4983267417
## 34445        3        4    0.4982846646
## 34598        3        4    0.4982493516
## 34444        3        4    0.4981306322
## 34295        3        4    0.4980898506
## 37532        3        4    0.4980107911
## 26643        3        2    0.4979747014
## 34244        3        4    0.4979502586
## 34654        3        4    0.4979232041
## 28432        3        2    0.4977835537
## 26368        3        2    0.4977644459
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## 34708        3        4    0.4976740975
## 34294        3        4    0.4975336386
## 35297        3        4    0.4975023248
## 34245        3        4    0.4973950073
## 26508        3        2    0.4973122766
## 26477        3        2    0.4973086769
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## 26499        3        2    0.4972715992
## 28282        3        2    0.4972656610
## 26496        3        2    0.4972408597
## 34264        3        4    0.4971641415
## 34387        3        4    0.4971344312
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## 34291        3        4    0.4963921191
## 26497        3        2    0.4963498061
## 29382        3        2    0.4963055873
## 26431        3        2    0.4962387094
## 34665        3        4    0.4961350196
## 26458        3        2    0.4956958012
## 34841        3        4    0.4956121605
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## 26895        3        2    0.4955483145
## 26372        3        2    0.4954918272
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## 26540        3        2    0.4954249984
## 27165        3        2    0.4954145473
## 26474        3        2    0.4953849357
## 34439        3        4    0.4952646973
## 34448        3        4    0.4952383352
## 26456        3        2    0.4952126718
## 26735        3        2    0.4951871268
## 26493        3        2    0.4951817591
## 26457        3        2    0.4949621360
## 26489        3        2    0.4948906181
## 26524        3        2    0.4948669333
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```

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## 35037      3          4    0.4947709988
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## 26386      3          2    0.4946019342
## 28280      3          2    0.4945917883
## 26764      3          2    0.4945448417
## 26455      3          2    0.4945227129
## 26490      3          2    0.4944819987
## 26736      3          2    0.4944619148
## 34469      3          4    0.4943821866
## 34566      3          4    0.4942308553
## 34461      3          4    0.4942292514
## 35035      3          4    0.4942241265
## 34307      3          4    0.4942206262
## 34555      3          4    0.4942192446
## 34733      3          4    0.4941951185
## 34919      3          4    0.4941759651
## 34565      3          4    0.4941535458
## 34388      3          4    0.4941389914
## 34434      3          4    0.4941225165
## 34353      3          4    0.4941212235
## 26354      3          2    0.4940714785
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## 34531      3          4    0.4938187984
## 34567      3          4    0.4937855544
## 34261      3          4    0.4937316045
## 36080      3          4    0.4936342701
## 26459      3          2    0.4935987248
## 26624      3          2    0.4935277370
## 34707      3          4    0.4934569807
## 34599      3          4    0.4933771589
## 34260      3          4    0.4933666027
## 34365      3          4    0.4933343837
## 34575      3          4    0.4933237982
## 34563      3          4    0.4932934955
## 34560      3          4    0.4930674459
## 34292      3          4    0.4928107865
## 34293      3          4    0.4927984084
## 34354      3          4    0.4925914228
## 28997      3          2    0.4924607964
## 34364      3          4    0.4923893298
## 26454      3          2    0.4922438606
## 34982      3          4    0.4920174689
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## 34262      3          4    0.4918067414
## 34296      3          4    0.4917957629
## 34913      3          4    0.4917924704
## 34869      3          4    0.4917586775
## 26355      3          2    0.4915441939
## 34471      3          4    0.4914151186
## 34756      3          4    0.4913759581
## 34437      3          4    0.4912918394
```

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## 34530        3        4    0.4912776545
## 34912        3        4    0.4912477677
## 34250        3        4    0.4912070299
## 34462        3        4    0.4911599229
## 34757        3        4    0.4910907446
## 26676        3        2    0.4910276334
## 26979        3        2    0.4907825479
## 34557        3        4    0.4906941655
## 34529        3        4    0.4906898872
## 34554        3        4    0.4906549248
## 34355        3        4    0.4904393530
## 27122        3        2    0.4900436349
## 26675        3        2    0.4900225991
## 26398        3        2    0.4900169935
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## 26452        3        2    0.4899937770
## 26328        3        2    0.4899485283
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## 26518        3        2    0.4898134320
## 26978        3        2    0.4897713536
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## 26346        3        2    0.4884750082
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## 34682        3        4    0.4883880387
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## 34356        3        4    0.4881871004
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## 34360        3        4    0.4881503883
## 34562        3        4    0.4881404893
## 34558        3        4    0.4881311760
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## 34807        3        4    0.4880988249
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## 26521        3        2    0.4880487836
```

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## 26522        3         2    0.4880415026
## 26596        3         2    0.4880399395
## 26671        3         2    0.4880055548
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## 34805        3         4    0.4871079210
## 34576        3         4    0.4870846091
## 34835        3         4    0.4870826257
## 34308        3         4    0.4870717824
## 34474        3         4    0.4869996796
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## 26340        3         2    0.4867056890
## 26345        3         2    0.4867027334
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## 34812        3         4    0.4855007051
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## 26745        3         2    0.4854545353
## 26326        3         2    0.4854021780
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## 26329        3         2    0.4846255791
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## 26349        3         2    0.4843232203
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```

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## 27866       3        2   0.4842676390
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## 34821       3        4   0.4812008331
## 34822       3        4   0.4811541505
## 26642       3        2   0.4811422241
```

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## 34633        3        4   0.4808071815
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## 34823        3        4   0.4806321822
## 26466        3        2   0.4804445140
## 34615        3        4   0.4803433661
## 26517        3        2   0.4803247774
## 34423        3        4   0.4803001670
## 36689        3        4   0.4802545051
## 37628        3        4   0.4802230492
## 26284        3        2   0.4797483439
## 34370        3        4   0.4797404469
## 34814        3        4   0.4797115792
## 35563        3        4   0.4796566518
## 34422        3        4   0.4796496617
## 34394        3        4   0.4796395546
## 26396        3        2   0.4795192780
## 34750        3        4   0.4793748470
## 34533        3        4   0.4791523734
## 34810        3        4   0.4791415162
## 34421        3        4   0.4789615705
## 26283        3        2   0.4789088140
## 26282        3        2   0.4789060624
## 26307        3        2   0.4789054101
## 26594        3        2   0.4786510364
## 34424        3        4   0.4786155179
## 26260        3        2   0.4785492175
## 28112        3        2   0.4784924005
## 27602        3        2   0.4784825849
## 29310        3        2   0.4784358593
## 26347        3        2   0.4783752054
## 28111        3        2   0.4783517360
## 28113        3        2   0.4783515706
## 28206        3        2   0.4783299965
## 26263        3        2   0.4783266636
## 34860        3        4   0.4782116129
## 26373        3        2   0.4781320762
## 26233        3        2   0.4781171250
## 26234        3        2   0.4781113930
## 26237        3        2   0.4780958275
## 27115        3        2   0.4780366089
## 26595        3        2   0.4780336260
## 26597        3        2   0.4780293370
## 35564        3        4   0.4778626584
## 28995        3        2   0.4778556425
## 26359        3        2   0.4778455409
## 26248        3        2   0.4778439740
## 26361        3        2   0.4778295828
## 26321        3        2   0.4778204371
## 26294        3        2   0.4778033217
## 26357        3        2   0.4777773852
## 27922        3        2   0.4777683407
## 34818        3        4   0.4777579369
## 26297        3        2   0.4775281848
## 26608        3        2   0.4774818154
```

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## 26371          3          2   0.4774775353
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## 26533          3          2   0.4774139314
## 34420          3          4   0.4773433679
## 35165          3          4   0.4772873677
## 34816          3          4   0.4772557460
## 34755          3          4   0.4771693232
## 34268          3          4   0.4771658202
## 26296          3          2   0.4770459916
## 26238          3          2   0.4770457727
## 26532          3          2   0.4769448339
## 26824          3          2   0.4769387383
## 26358          3          2   0.4769293993
## 34616          3          4   0.4769276870
## 34634          3          4   0.4769118805
## 34740          3          4   0.4769118805
## 26453          3          2   0.4768416748
## 26295          3          2   0.4765849775
## 36691          3          4   0.4764260900
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## 34585          3          4   0.4763521025
## 34820          3          4   0.4763255187
## 34830          3          4   0.4763236526
## 35259          3          4   0.4763184703
## 34602          3          4   0.4763081575
## 34878          3          4   0.4761894468
## 34636          3          4   0.4759933017
## 34517          3          4   0.4759053655
## 26374          3          2   0.4758823237
## 28328          3          2   0.4758632252
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## 34829          3          4   0.4756644204
## 35231          3          4   0.4755118457
## 34641          3          4   0.4754487961
## 34739          3          4   0.4754151273
## 26249          3          2   0.4754143633
## 26394          3          2   0.4752243548
## 35262          3          4   0.4751674730
## 34643          3          4   0.4751668003
## 35412          3          4   0.4750584862
## 35169          3          4   0.4749364089
## 35164          3          4   0.4749321016
## 34409          3          4   0.4749054251
## 34875          3          4   0.4748774232
## 34828          3          4   0.4748653588
## 34866          3          4   0.4747939918
## 34449          3          4   0.4747306703
## 26362          3          2   0.4746278514
## 34465          3          4   0.4745744103
## 26261          3          2   0.4745580144
## 26593          3          2   0.4745286779
## 27073          3          2   0.4745211762
## 34824          3          4   0.4743447562
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```

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## 35261          3          4    0.4740977180
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## 34425          3          4    0.4738350731
## 35168          3          4    0.4738234130
## 36338          3          4    0.4737849444
## 26262          3          2    0.4737723888
## 35565          3          4    0.4737559874
## 34635          3          4    0.4736620042
## 34876          3          4    0.4735883930
## 34614          3          4    0.4734043152
## 35260          3          4    0.4733764875
## 27023          3          2    0.4728935986
## 26222          3          2    0.4726288286
## 34467          3          4    0.4726104926
## 26198          3          2    0.4725118655
## 26299          3          2    0.4724993855
## 26201          3          2    0.4724653279
## 26232          3          2    0.4724275537
## 26402          3          2    0.4722890647
## 26197          3          2    0.4722361264
## 28555          3          2    0.4722250970
## 26430          3          2    0.4721713249
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## 29309          3          2    0.4720179508
## 26183          3          2    0.4718765506
## 34877          3          4    0.4718208406
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## 26348          3          2    0.4713294607
## 26376          3          2    0.4711858679
## 28310          3          2    0.4711423622
## 26432          3          2    0.4710713335
## 26240          3          2    0.4706832446
## 26221          3          2    0.4706543007
## 26223          3          2    0.4705595373
## 34466          3          4    0.4703833662
## 34921          3          4    0.4703108882
## 34881          3          4    0.4702126405
## 26404          3          2    0.4701778673
## 34886          3          4    0.4701411461
## 26742          3          2    0.4701339722
## 26239          3          2    0.4701053111
## 34527          3          4    0.4701051047
## 34888          3          4    0.4700855007
## 34883          3          4    0.4700805016
## 34879          3          4    0.4699950125
## 34647          3          4    0.4699377353
## 35263          3          4    0.4698850218
## 34638          3          4    0.4698077645
## 34601          3          4    0.4697552412
## 26403          3          2    0.4695328490
## 34525          3          4    0.4695015465
## 26199          3          2    0.4694365374
## 26200          3          2    0.4694365374
## 26356          3          2    0.4693218756
```

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## 26300      3      2   0.4693191888
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## 34526      3      4   0.4691887562
## 34590      3      4   0.4691527462
## 27601      3      2   0.4688428981
## 34580      3      4   0.4687097879
## 35389      3      4   0.4686976024
## 26330      3      2   0.4686666646
## 34885      3      4   0.4686255146
## 34678      3      4   0.4686047287
## 35386      3      4   0.4685228583
## 34541      3      4   0.4685211279
## 34838      3      4   0.4685085879
## 34464      3      4   0.4683594313
## 35048      3      4   0.4681417942
## 34540      3      4   0.4681339489
## 34644      3      4   0.4679118501
## 35018      3      4   0.4678894013
## 34646      3      4   0.4678547323
## 34604      3      4   0.4675712230
## 34887      3      4   0.4675327335
## 34722      3      4   0.4675192534
## 34730      3      4   0.4674767825
## 34882      3      4   0.4673098288
## 34639      3      4   0.4672840469
## 35230      3      4   0.4671890992
## 26226      3      2   0.4667290305
## 26564      3      2   0.4667235251
## 26883      3      2   0.4667109693
## 26647      3      2   0.4666316611
## 26997      3      2   0.4666293843
## 34721      3      4   0.4665506881
## 26390      3      2   0.4665084486
## 34605      3      4   0.4665080667
## 26247      3      2   0.4665078624
## 26319      3      2   0.4664781466
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## 27071      3      2   0.4664127977
## 26353      3      2   0.4663432615
## 26400      3      2   0.4660073738
## 27022      3      2   0.4659869598
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## 26932      3      2   0.4656451769
## 26246      3      2   0.4656313359
## 26765      3      2   0.4656116805
## 26341      3      2   0.4655881670
## 26182      3      2   0.4654883879
## 26144      3      2   0.4652664870
## 26886      3      2   0.4652401167
## 26266      3      2   0.4652138255
## 34524      3      4   0.4651864535
## 35286      3      4   0.4651731777
## 34920      3      4   0.4651621856
```

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## 35387        3        4   0.4648234743
## 29295        3        2   0.4647736219
## 26393        3        2   0.4647618086
## 26227        3        2   0.4647295085
## 27072        3        2   0.4645324037
## 34719        3        4   0.4642363021
## 35287        3        4   0.4642118216
## 26224        3        2   0.4641929132
## 26391        3        2   0.4641528682
## 26250        3        2   0.4641340112
## 35391        3        4   0.4640840526
## 26318        3        2   0.4640806583
## 26429        3        2   0.4640792641
## 36435        3        4   0.4640673317
## 26884        3        2   0.4640499871
## 34925        3        4   0.4640499335
## 34592        3        4   0.4640070684
## 34684        3        4   0.4639899565
## 34581        3        4   0.4639846736
## 34963        3        4   0.4639458944
## 34618        3        4   0.4639263274
## 34549        3        4   0.4638904898
## 34884        3        4   0.4638353740
## 34720        3        4   0.4638007361
## 35047        3        4   0.4637945413
## 34880        3        4   0.4637934574
## 34617        3        4   0.4637930733
## 34577        3        4   0.4637878690
## 34891        3        4   0.4636665242
## 35288        3        4   0.4636607500
## 34889        3        4   0.4636481497
## 26264        3        2   0.4635848181
## 34724        3        4   0.4635319670
## 26933        3        2   0.4634774169
## 26195        3        2   0.4634722867
## 35264        3        4   0.4632816946
## 35393        3        4   0.4632563554
## 34898        3        4   0.4627976843
## 34890        3        4   0.4627382440
## 34996        3        4   0.4627178581
## 34998        3        4   0.4626606857
## 34997        3        4   0.4624861844
## 34743        3        4   0.4623695806
## 34924        3        4   0.4623070612
## 35390        3        4   0.4622571540
## 26648        3        2   0.4620094972
## 26401        3        2   0.4619633569
## 34593        3        4   0.4619304678
## 34964        3        4   0.4617367201
## 34543        3        4   0.4617160761
## 34769        3        4   0.4617092458
## 35293        3        4   0.4616023746
```

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## 26567    3    2   0.4612967918
## 26392    3    2   0.4611248529
## 26142    3    2   0.4611155892
## 34645    3    4   0.4610848452
## 26447    3    2   0.4607271762
## 26140    3    2   0.4606486493
## 27018    3    2   0.4606408601
## 27020    3    2   0.4606228690
## 26316    3    2   0.4606144727
## 26315    3    2   0.4604854944
## 26367    3    2   0.4604805929
## 26559    3    2   0.4603100479
## 34741    3    4   0.4602904755
## 34868    3    4   0.4602904755
## 26281    3    2   0.4602626473
## 26093    3    2   0.4602594610
## 26428    3    2   0.4602551971
## 26885    3    2   0.4602455521
## 26225    3    2   0.4602427439
## 26613    3    2   0.4602354256
## 26143    3    2   0.4602062129
## 26380    3    2   0.4599948311
## 26203    3    2   0.4599915679
## 26314    3    2   0.4599717940
## 34787    3    4   0.4599630146
## 26202    3    2   0.4599578008
## 26830    3    2   0.4599158908
## 34600    3    4   0.4597762994
## 34726    3    4   0.4597737126
## 26996    3    2   0.4596114869
## 26427    3    2   0.4595978414
## 26565    3    2   0.4595417053
## 26292    3    2   0.4595376069
## 26526    3    2   0.4593322230
## 26236    3    2   0.4592912459
## 26931    3    2   0.4591460402
## 26204    3    2   0.4591425009
## 34995    3    4   0.4589920259
## 34621    3    4   0.4589534456
## 34729    3    4   0.4587115665
## 26558    3    2   0.4586124648
## 35020    3    4   0.4585319319
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## 35097    3    4   0.4585153588
## 26562    3    2   0.4581573046
## 34994    3    4   0.4580959099
## 34591    3    4   0.4580800574
## 34723    3    4   0.4580431039
## 34923    3    4   0.4580388417
## 34764    3    4   0.4578102187
## 35002    3    4   0.4577955936
## 34797    3    4   0.4577954385
## 34751    3    4   0.4577229308
## 35009    3    4   0.4577140262
```

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## 35382      3        4   0.4576919060
## 34550      3        4   0.4576673942
## 34767      3        4   0.4576517766
## 35379      3        4   0.4576381949
## 35188      3        4   0.4576365972
## 35392      3        4   0.4576273706
## 35429      3        4   0.4576094011
## 34768      3        4   0.4576008234
## 34899      3        4   0.4575705066
## 35019      3        4   0.4575670527
## 35006      3        4   0.4575669649
## 26231      3        2   0.4575301537
## 26193      3        2   0.4575133162
## 34542      3        4   0.4575006505
## 34734      3        4   0.4574514588
## 26448      3        2   0.4574440362
## 35008      3        4   0.4572741446
## 34679      3        4   0.4570781086
## 34993      3        4   0.4570159597
## 34622      3        4   0.4569830559
## 34796      3        4   0.4568892401
## 35098      3        4   0.4568694943
## 26679      3        2   0.4568223286
## 29293      3        2   0.4567707051
## 26291      3        2   0.4567333406
## 34717      3        4   0.4566352415
## 34683      3        4   0.4566260534
## 35099      3        4   0.4565682053
## 35005      3        4   0.4565606342
## 35021      3        4   0.4564942098
## 34933      3        4   0.4564405209
## 34765      3        4   0.4564347030
## 34939      3        4   0.4561364469
## 34624      3        4   0.4561171288
## 34551      3        4   0.4560927454
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## 34548      3        4   0.4560470445
## 26560      3        2   0.4560396667
## 26449      3        2   0.4559768690
## 34715      3        4   0.4559760031
## 26561      3        2   0.4559533392
## 37805      3        4   0.4559522920
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## 35010      3        4   0.4555004206
## 34620      3        4   0.4554782341
## 34603      3        4   0.4554223823
## 35001      3        4   0.4554223823
## 35011      3        4   0.4554067503
## 29308      3        2   0.4553625982
## 26280      3        2   0.4553139806
## 26512      3        2   0.4552466572
```

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## 26446          3          2    0.4551377551
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## 26290          3          2    0.4551078049
## 29294          3          2    0.4550985292
## 34922          3          4    0.4549220265
## 35004          3          4    0.4549218447
## 35292          3          4    0.4547370860
## 34552          3          4    0.4546582828
## 29237          3          2    0.4545314140
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## 26445          3          2    0.4544896778
## 26336          3          2    0.4544498497
## 27019          3          2    0.4544270835
## 26418          3          2    0.4544180474
## 26114          3          2    0.4544168117
## 26130          3          2    0.4543796740
## 26085          3          2    0.4543273484
## 26511          3          2    0.4543263521
## 26251          3          2    0.4543179229
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## 26138          3          2    0.4543122481
## 26421          3          2    0.4543092059
## 26220          3          2    0.4542962094
## 28775          3          2    0.4542762835
## 26092          3          2    0.4542040454
## 26134          3          2    0.4540924309
## 26365          3          2    0.4540614643
## 34926          3          4    0.4539352391
## 26443          3          2    0.4538497638
## 26426          3          2    0.4537792045
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## 34748          3          4    0.4534899782
## 34680          3          4    0.4534600607
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## 26230          3          2    0.4532490092
## 35003          3          4    0.4531330197
## 26137          3          2    0.4530547276
## 26444          3          2    0.4530313295
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## 34716          3          4    0.4526363003
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## 35131          3          4    0.4525476208
## 26415          3          2    0.4525350516
## 26122          3          2    0.4525321687
## 26243          3          2    0.4525096402
## 26133          3          2    0.4525065326
## 26419          3          2    0.4524801401
## 26424          3          2    0.4524668646
## 26351          3          2    0.4519656601
```

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## 26132       3        2   0.4519623898
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## 34718       3        4   0.4513342108
## 35007       3        4   0.4513238130
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## 35277       3        4   0.4509566417
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## 34779       3        4   0.4508838152
## 36469       3        4   0.4507293154
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## 35034       3        4   0.4506219580
## 35205       3        4   0.4506138691
## 26275       3        2   0.4505960986
## 26131       3        2   0.4505747554
## 28082       3        2   0.4505638961
## 28083       3        2   0.4505299510
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## 36471       3        4   0.4503074637
## 35186       3        4   0.4502925032
## 34628       3        4   0.4500109858
## 34725       3        4   0.4500051788
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## 26441       3        2   0.4498595214
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## 35274       3        4   0.4494341939
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## 26422       3        2   0.4490015278
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## 35013       3        4   0.4482969130
## 34778       3        4   0.4482900776
## 26364       3        2   0.4482741980
## 26035       3        2   0.4482619725
## 35022       3        4   0.4482598625
## 26219       3        2   0.4482324281
## 26058       3        2   0.4482225793
## 26218       3        2   0.4482180672
## 26413       3        2   0.4482097513
## 27021       3        2   0.4482085792
```

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## 26060       3       2   0.4481969321
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## 26216       3       2   0.4480495442
## 26406       3       2   0.4480465628
## 26191       3       2   0.4480109144
## 26411       3       2   0.4478928150
## 26052       3       2   0.4478860936
## 34570       3       4   0.4478255541
## 26388       3       2   0.4478065400
## 34773       3       4   0.4477479246
## 36470       3       4   0.4477401503
## 34631       3       4   0.4475581871
## 26387       3       2   0.4474947887
## 34623       3       4   0.4474724212
## 36740       3       4   0.4474696956
## 26186       3       2   0.4474067356
## 26423       3       2   0.4473598655
## 26034       3       2   0.4472637550
## 26267       3       2   0.4472517149
## 26268       3       2   0.4472122636
## 26274       3       2   0.4471721874
## 34777       3       4   0.4470534260
## 34934       3       4   0.4470227655
## 26412       3       2   0.4467582363
## 26080       3       2   0.4467517855
## 26084       3       2   0.4467216773
## 26181       3       2   0.4467030390
## 34984       3       4   0.4466976763
## 26242       3       2   0.4464251795
## 26298       3       2   0.4464012552
## 25955       3       2   0.4463286001
## 26065       3       2   0.4463228604
## 26409       3       2   0.4462734633
## 35015       3       4   0.4458892286
## 26279       3       2   0.4458262785
## 35275       3       4   0.4457681538
## 26061       3       2   0.4457076459
## 27865       3       2   0.4453734421
## 35012       3       4   0.4452879315
## 26066       3       2   0.4451375553
## 26059       3       2   0.4451184216
## 26062       3       2   0.4451048879
## 26342       3       2   0.4451048562
## 26408       3       2   0.4450867102
## 26410       3       2   0.4450388913
## 26064       3       2   0.4450307400
## 35206       3       4   0.4449162113
## 34627       3       4   0.4448766766
## 34626       3       4   0.4448241033
## 35244       3       4   0.4448221949
```

```
## 35803        3         4   0.4447687790
## 34709        3         4   0.4447483238
## 34752        3         4   0.4447132900
## 35384        3         4   0.4446883409
## 34742        3         4   0.4446401942
## 35054        3         4   0.4446071711
## 35088        3         4   0.4446071711
## 26094        3         2   0.4445372323
## 34839        3         4   0.4444729999
## 35024        3         4   0.4443577114
## 35053        3         4   0.4443446469
## 28774        3         2   0.4443418867
## 34572        3         4   0.4443167594
## 36634        3         4   0.4443046250
## 26124        3         2   0.4442818463
## 35090        3         4   0.4441837675
## 35087        3         4   0.4441734811
## 35243        3         4   0.4438646840
## 35086        3         4   0.4438259156
## 35119        3         4   0.4437826612
## 26032        3         2   0.4436168863
## 35052        3         4   0.4435973010
## 26136        3         2   0.4435692312
## 35092        3         4   0.4435467112
## 34693        3         4   0.4435377258
## 34569        3         4   0.4432470059
## 35383        3         4   0.4429903425
## 34710        3         4   0.4429896191
## 35280        3         4   0.4429785512
## 26063        3         2   0.4429096602
## 26036        3         2   0.4429031870
## 34629        3         4   0.4428230080
## 35032        3         4   0.4427977376
## 34983        3         4   0.4427421823
## 35085        3         4   0.4426073361
## 35031        3         4   0.4424072191
## 34780        3         4   0.4424059095
## 34714        3         4   0.4423965100
## 34840        3         4   0.4423067488
## 34686        3         4   0.4419706899
## 26343        3         2   0.4419685225
## 25980        3         2   0.4419599815
## 34711        3         4   0.4419589219
## 26288        3         2   0.4419577258
## 26212        3         2   0.4419054262
## 26641        3         2   0.4419006605
## 26033        3         2   0.4418951642
## 25969        3         2   0.4418534247
## 26155        3         2   0.4418512731
## 26103        3         2   0.4417637599
## 26215        3         2   0.4417325302
## 26213        3         2   0.4412767077
## 27113        3         2   0.4412188467
## 26405        3         2   0.4411346545
```

```
## 34571       3         4   0.4410096798
## 38214       3         4   0.4409670902
## 26051       3         2   0.4409058106
## 26235       3         2   0.4408925211
## 26009       3         2   0.4408853479
## 26173       3         2   0.4408832129
## 35093       3         4   0.4405619747
## 35056       3         4   0.4404936373
## 26010       3         2   0.4403732836
## 26414       3         2   0.4402079083
## 34713       3         4   0.4401835142
## 35089       3         4   0.4401759920
## 34940       3         4   0.4401602838
## 35091       3         4   0.4401365218
## 26024       3         2   0.4399372193
## 26139       3         2   0.4397274117
## 35084       3         4   0.4396194162
## 26214       3         2   0.4393981562
## 26439       3         2   0.4393733982
## 26128       3         2   0.4393639991
## 25974       3         2   0.4388233474
## 34712       3         4   0.4387158376
## 38215       3         4   0.4387076019
## 27056       3         2   0.4386830316
## 36635       3         4   0.4383816318
## 26008       3         2   0.4381683710
## 34958       3         4   0.4381620198
## 35065       3         4   0.4380841482
## 35281       3         4   0.4380661125
## 34763       3         4   0.4380624512
## 34844       3         4   0.4380494251
## 35136       3         4   0.4379591235
## 35398       3         4   0.4379388164
## 34863       3         4   0.4379371247
## 35057       3         4   0.4378757959
## 35804       3         4   0.4378383554
## 35193       3         4   0.4378007179
## 35141       3         4   0.4377738475
## 34845       3         4   0.4376650509
## 35139       3         4   0.4376616607
## 34847       3         4   0.4375631099
## 35143       3         4   0.4375216608
## 34762       3         4   0.4374877545
## 35402       3         4   0.4373672558
## 35066       3         4   0.4373443212
## 26438       3         2   0.4373248786
## 34798       3         4   0.4373161623
## 35189       3         4   0.4373161217
## 26083       3         2   0.4373156054
## 34692       3         4   0.4372793637
## 35401       3         4   0.4372500322
## 35138       3         4   0.4372306156
## 34759       3         4   0.4372017491
## 35067       3         4   0.4368986070
```

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```
## 35083       3       4   0.4367495642
## 26001       3       2   0.4365944958
## 34846       3       4   0.4365151557
## 26767       3       2   0.4364603286
## 35236       3       4   0.4363366895
## 35237       3       4   0.4362789014
## 34760       3       4   0.4362417100
## 34795       3       4   0.4359806614
## 35134       3       4   0.4359517135
## 35515       3       4   0.4357587005
## 25991       3       2   0.4354954582
## 26097       3       2   0.4354706309
## 29195       3       2   0.4354085773
## 25978       3       2   0.4352856938
## 34893       3       4   0.4352554025
## 26006       3       2   0.4350775435
## 26123       3       2   0.4350769075
## 35133       3       4   0.4350685428
## 26000       3       2   0.4350570273
## 26209       3       2   0.4350458266
## 26170       3       2   0.4350430033
## 35107       3       4   0.4350337044
## 35142       3       4   0.4350208805
## 26614       3       2   0.4348279929
## 25998       3       2   0.4348269627
## 25996       3       2   0.4348184054
## 26110       3       2   0.4348151107
## 26529       3       2   0.4347833018
## 25975       3       2   0.4347718650
## 26102       3       2   0.4347570820
## 26210       3       2   0.4347093195
## 26120       3       2   0.4346618715
## 34959       3       4   0.4346076625
## 35068       3       4   0.4346062166
## 26194       3       2   0.4344416693
## 26192       3       2   0.4344401170
## 28772       3       2   0.4344327118
## 28773       3       2   0.4344235491
## 35400       3       4   0.4343058892
## 35282       3       4   0.4338154357
## 26113       3       2   0.4335493970
## 25968       3       2   0.4335429204
## 25997       3       2   0.4335285519
## 26099       3       2   0.4330169031
## 26098       3       2   0.4330157683
## 26101       3       2   0.4329942809
##  [ reached getOption("max.print") -- omitted 17292 rows ]
## attr(,"Ordered")
## [1] TRUE
## attr(,"call")
## pam(x = df2019, k = clusters)
## attr(,"class")
## [1] "silhouette"
```

PAM Model 2

```r
if (system.file(package = "cluster") == "") {
  install.packages("cluster")
}

#library(factoextra)
library(cluster)

clusters <- 4 #selecting 4 because of the injuries

pam_result2 <- pam(df2022, clusters)
gc()#return memory
```

```
##            used  (Mb) gc trigger    (Mb)    max used    (Mb)
## Ncells  1988161 106.2    6638341   354.6     6638341   354.6
## Vcells 18775695 143.3  640041309  4883.2  1300966463  9925.6
```

```r
# Print the cluster medoids
print(pam_result2$medoids)
```

```
##      treatment_date age sex_FEMALE sex_MALE diagnosis_53 - CONTUSIONS, ABR.
## [1,]             45  79          1        0                               0
## [2,]            138  80          1        0                               0
## [3,]            230  79          1        0                               0
## [4,]            319  80          1        0                               0
##      diagnosis_57 - FRACTURE diagnosis_59 - LACERATION
## [1,]                      0                          0
## [2,]                      0                          0
## [3,]                      0                          0
## [4,]                      0                          0
##      diagnosis_62 - INTERNAL INJURY bodypart_30 - SHOULDER
## [1,]                             1                        0
## [2,]                             1                        0
## [3,]                             1                        0
## [4,]                             1                        0
##      bodypart_31 - UPPER TRUNK bodypart_32 - ELBOW bodypart_33 - LOWER ARM
## [1,]                         0                   0                       0
## [2,]                         0                   0                       0
## [3,]                         0                   0                       0
## [4,]                         0                   0                       0
##      bodypart_34 - WRIST bodypart_35 - KNEE bodypart_36 - LOWER LEG
## [1,]                   0                  0                       0
## [2,]                   0                  0                       0
## [3,]                   0                  0                       0
## [4,]                   0                  0                       0
##      bodypart_37 - ANKLE bodypart_38 - PUBIC REGION bodypart_75 - HEAD
## [1,]                   0                          0                  1
## [2,]                   0                          0                  1
## [3,]                   0                          0                  1
## [4,]                   0                          0                  1
##      bodypart_76 - FACE bodypart_77 - EYEBALL bodypart_79 - LOWER TRUNK
## [1,]                  0                     0                         0
## [2,]                  0                     0                         0
## [3,]                  0                     0                         0
```

```
## [4,]                   0                 0                 0
##      bodypart_80 - UPPER ARM bodypart_81 - UPPER LEG bodypart_82 - HAND
## [1,]                     0                 0                 0
## [2,]                     0                 0                 0
## [3,]                     0                 0                 0
## [4,]                     0                 0                 0
##      bodypart_83 - FOOT bodypart_85 - ALL PARTS BODY
## [1,]                 0                           0
## [2,]                 0                           0
## [3,]                 0                           0
## [4,]                 0                           0
##      bodypart_87 - NOT STATED/UNK bodypart_88 - MOUTH bodypart_89 - NECK
## [1,]                           0                   0                 0
## [2,]                           0                   0                 0
## [3,]                           0                   0                 0
## [4,]                           0                   0                 0
##      bodypart_92 - FINGER bodypart_93 - TOE bodypart_94 - EAR location_HOME
## [1,]                    0                 0               0             1
## [2,]                    0                 0               0             1
## [3,]                    0                 0               0             1
## [4,]                    0                 0               0             1
##      location_PUBLIC location_UNK product_611 - BATHTUBS OR SHOWERS
## [1,]               0            0                                  0
## [2,]               0            0                                  0
## [3,]               0            0                                  0
## [4,]               0            0                                  0
##      product_649 - TOILETS product_676 - RUGS OR CARPETS, NOT SPECIFIED
## [1,]                     0                                           0
## [2,]                     0                                           0
## [3,]                     0                                           0
## [4,]                     0                                           0
##      product_1615 - FOOTWEAR product_1807 - FLOORS OR FLOORING MATERIALS
## [1,]                       0                                           1
## [2,]                       0                                           1
## [3,]                       0                                           0
## [4,]                       0                                           1
##      product_1817 - PORCHES, BALCONIES, OPEN-SIDE FLOORS OR FLOOR OPENINGS
## [1,]                                                                    0
## [2,]                                                                    0
## [3,]                                                                    0
## [4,]                                                                    0
##      product_1842 - STAIRS OR STEPS
## [1,]                             0
## [2,]                             0
## [3,]                             0
## [4,]                             0
##      product_1884 - CEILINGS AND WALLS (INTERIOR PART OF COMPLETED STRUCTURE)
## [1,]                                                                        0
## [2,]                                                                        0
## [3,]                                                                        1
## [4,]                                                                        0
##      product_1893 - DOORS, OTHER OR NOT SPECIFIED
## [1,]                                            0
## [2,]                                            0
```

```
## [3,]                                                    0
## [4,]                                                    0
##      product_3299 - EXERCISE (ACTIVITY OR APPAREL, W/O EQUIP)
## [1,]                                                        0
## [2,]                                                        0
## [3,]                                                        0
## [4,]                                                        0
##      product_4057 - TABLES (EXCL.  BABY CHANGING TABLES, BILLIARD OR POOL TABLES
## [1,]                                                                          0
## [2,]                                                                          0
## [3,]                                                                          0
## [4,]                                                                          0
##      product_4074 - CHAIRS, OTHER OR NOT SPECIFIED
## [1,]                                                0
## [2,]                                                0
## [3,]                                                0
## [4,]                                                0
##      product_4076 - BEDS OR BEDFRAMES, OTHER OR NOT SPECIFIED
## [1,]                                                        0
## [2,]                                                        0
## [3,]                                                        0
## [4,]                                                        0
##      product_4078 - LADDERS, OTHER OR NOT SPECIFIED
## [1,]                                                0
## [2,]                                                0
## [3,]                                                0
## [4,]                                                0
```

```r
# Generate a silhouette plot
silResult2 <- silhouette(pam_result2)

#plot(silResult2)
fviz_silhouette(silResult2)
```

```
##   cluster size ave.sil.width
## 1       1 6948          0.60
## 2       2 7028          0.47
## 3       3 6477          0.47
## 4       4 6389          0.58
```

Clusters silhouette plot
 Average silhouette width: 0.53
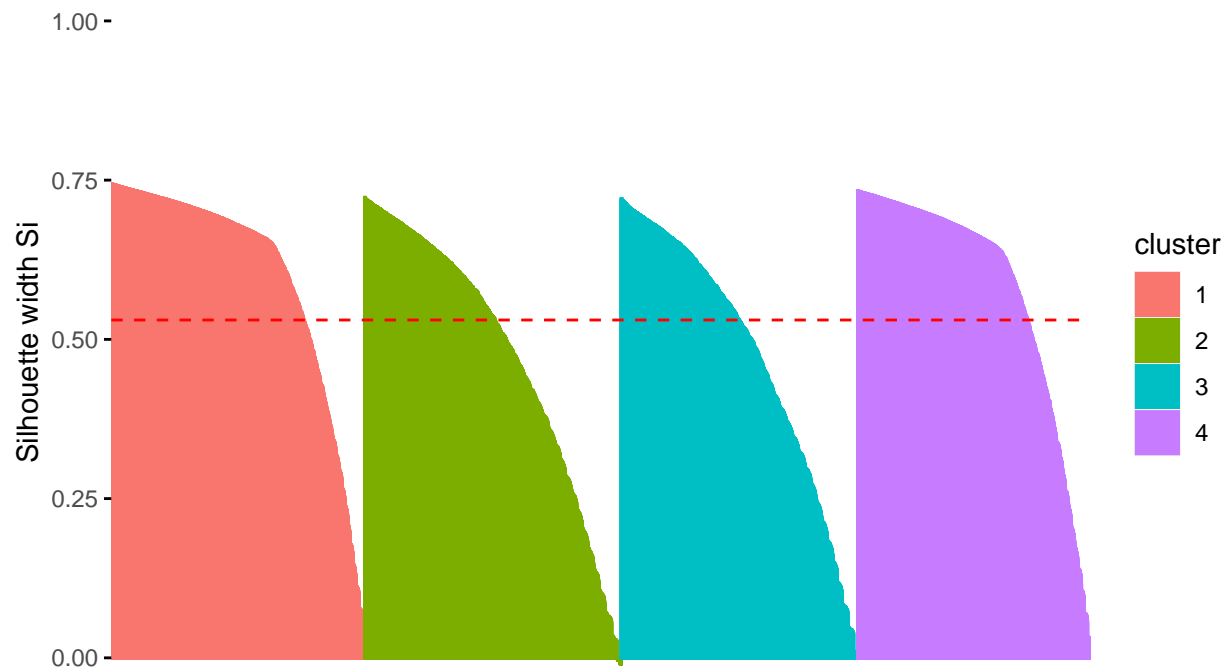

```r
print(silResult2)
```

```
##      cluster neighbor   sil_width
## 2505       1        2 0.744190871
## 1707       1        2 0.744057574
## 2732       1        2 0.744023548
## 3998       1        2 0.744006436
## 1873       1        2 0.743983970
## 1701       1        2 0.743976077
## 2059       1        2 0.743967024
## 2086       1        2 0.743937111
## 1815       1        2 0.743909549
## 4316       1        2 0.743894786
## 1790       1        2 0.743851557
## 2243       1        2 0.743826836
## 2402       1        2 0.743803482
## 22101      1        2 0.743799245
## 2122       1        2 0.743738490
## 1971       1        2 0.743728908
## 1710       1        2 0.743725575
## 2417       1        2 0.743724186
## 1709       1        2 0.743689988
## 2726       1        2 0.743656352
## 2642       1        2 0.743651193
## 2702       1        2 0.743633978
## 1702       1        2 0.743599490
```

```
## 2180          1          2   0.743597355
## 1700          1          2   0.743581870
## 4913          1          2   0.743566933
## 1686          1          2   0.743559728
## 1808          1          2   0.743559391
## 1798          1          2   0.743558255
## 1684          1          2   0.743521124
## 1958          1          2   0.743507929
## 1813          1          2   0.743499352
## 1960          1          2   0.743499137
## 1650          1          2   0.743465579
## 1532          1          2   0.743453274
## 1513          1          2   0.743447895
## 2161          1          2   0.743447531
## 1812          1          2   0.743418829
## 2031          1          2   0.743403292
## 1888          1          2   0.743396918
## 4317          1          2   0.743386416
## 1531          1          2   0.743358232
## 1651          1          2   0.743336423
## 3003          1          2   0.743334272
## 2224          1          2   0.743329335
## 1509          1          2   0.743312520
## 1786          1          2   0.743297616
## 1831          1          2   0.743287010
## 2662          1          2   0.743263245
## 2551          1          2   0.743239332
## 1961          1          2   0.743232589
## 1799          1          2   0.743189035
## 1946          1          2   0.743170610
## 2120          1          2   0.743157886
## 2899          1          2   0.743152705
## 2195          1          2   0.743149926
## 1899          1          2   0.743132308
## 2039          1          2   0.743117881
## 2152          1          2   0.743078318
## 2000          1          2   0.743070679
## 1919          1          2   0.743061567
## 4708          1          2   0.743055791
## 2225          1          2   0.743039559
## 1884          1          2   0.743033340
## 1807          1          2   0.743024643
## 2040          1          2   0.743002006
## 1607          1          2   0.742992224
## 3063          1          2   0.742989442
## 1608          1          2   0.742934435
## 4914          1          2   0.742931850
## 2701          1          2   0.742926286
## 1922          1          2   0.742910032
## 1779          1          2   0.742901375
## 1773          1          2   0.742899064
## 2041          1          2   0.742874777
## 2523          1          2   0.742839909
## 3002          1          2   0.742828601
```

```
## 2066          1          2    0.742824669
## 2345          1          2    0.742807016
## 2357          1          2    0.742801926
## 1913          1          2    0.742711612
## 3854          1          2    0.742684495
## 3953          1          2    0.742666605
## 6132          1          2    0.742642288
## 6131          1          2    0.742642181
## 1920          1          2    0.742641089
## 2187          1          2    0.742632715
## 1689          1          2    0.742599092
## 1629          1          2    0.742575336
## 1820          1          2    0.742574896
## 5456          1          2    0.742557532
## 3636          1          2    0.742533941
## 2769          1          2    0.742525595
## 2491          1          2    0.742520181
## 6134          1          2    0.742517926
## 1976          1          2    0.742476262
## 1668          1          2    0.742434917
## 1534          1          2    0.742430779
## 1918          1          2    0.742411625
## 2486          1          2    0.742403892
## 2897          1          2    0.742402264
## 1889          1          2    0.742381940
## 5939          1          2    0.742344719
## 2004          1          2    0.742336998
## 2185          1          2    0.742336336
## 2199          1          2    0.742318083
## 5935          1          2    0.742313107
## 2065          1          2    0.742305170
## 2528          1          2    0.742293872
## 1893          1          2    0.742292895
## 4245          1          2    0.742265837
## 1641          1          2    0.742250713
## 1809          1          2    0.742162042
## 2473          1          2    0.742158683
## 2706          1          2    0.742119892
## 1774          1          2    0.742116059
## 2483          1          2    0.742106489
## 3954          1          2    0.742094009
## 11339         1          2    0.742093580
## 3318          1          2    0.742092130
## 2479          1          2    0.742087799
## 2202          1          2    0.742064943
## 2478          1          2    0.742035044
## 1458          1          2    0.742031007
## 3753          1          2    0.742023203
## 6125          1          2    0.742016185
## 1698          1          2    0.741986944
## 1597          1          2    0.741974728
## 2488          1          2    0.741967298
## 1708          1          2    0.741956230
## 1895          1          2    0.741934627
```

```
## 2209           1           2    0.741876547
## 2085           1           2    0.741865025
## 2916           1           2    0.741861438
## 1928           1           2    0.741851764
## 6262           1           2    0.741809575
## 1451           1           2    0.741795331
## 2735           1           2    0.741794133
## 5389           1           2    0.741790684
## 2268           1           2    0.741788924
## 2549           1           2    0.741758443
## 1975           1           2    0.741740643
## 4308           1           2    0.741720632
## 2494           1           2    0.741692184
## 2690           1           2    0.741661399
## 1770           1           2    0.741623967
## 2436           1           2    0.741612931
## 4092           1           2    0.741606006
## 2162           1           2    0.741576798
## 1933           1           2    0.741544240
## 2191           1           2    0.741534070
## 1943           1           2    0.741524337
## 1386           1           2    0.741514786
## 1421           1           2    0.741485108
## 1951           1           2    0.741480767
## 1955           1           2    0.741480531
## 2145           1           2    0.741423777
## 1794           1           2    0.741420193
## 2729           1           2    0.741388304
## 2027           1           2    0.741360148
## 1929           1           2    0.741358126
## 1968           1           2    0.741309024
## 1583           1           2    0.741308103
## 1623           1           2    0.741304910
## 2694           1           2    0.741280658
## 2490           1           2    0.741243441
## 1666           1           2    0.741202941
## 1829           1           2    0.741180721
## 1802           1           2    0.741158089
## 2766           1           2    0.741141694
## 2206           1           2    0.741122258
## 1660           1           2    0.741121674
## 2300           1           2    0.741108589
## 2577           1           2    0.741072118
## 1693           1           2    0.741031408
## 6253           1           2    0.741004961
## 1655           1           2    0.741001183
## 1810           1           2    0.740990496
## 1530           1           2    0.740988660
## 2901           1           2    0.740976352
## 1964           1           2    0.740963847
## 1669           1           2    0.740944173
## 2288           1           2    0.740940455
## 2303           1           2    0.740926549
## 1959           1           2    0.740891686
```

```
## 2540         1        2   0.740876461
## 1622         1        2   0.740873085
## 1588         1        2   0.740871526
## 6128         1        2   0.740859324
## 2879         1        2   0.740851869
## 2663         1        2   0.740849380
## 1452         1        2   0.740819257
## 5657         1        2   0.740804186
## 2755         1        2   0.740802061
## 4093         1        2   0.740763650
## 1334         1        2   0.740756429
## 2485         1        2   0.740748216
## 2132         1        2   0.740738465
## 6393         1        2   0.740711244
## 6260         1        2   0.740697441
## 1417         1        2   0.740697336
## 5652         1        2   0.740659526
## 1804         1        2   0.740645298
## 1796         1        2   0.740618469
## 3504         1        2   0.740614215
## 1966         1        2   0.740573787
## 2220         1        2   0.740568000
## 1830         1        2   0.740547751
## 1449         1        2   0.740533275
## 1333         1        2   0.740505625
## 2301         1        2   0.740503116
## 1787         1        2   0.740472223
## 1867         1        2   0.740382816
## 2022         1        2   0.740379186
## 2777         1        2   0.740375063
## 1816         1        2   0.740345365
## 1926         1        2   0.740235449
## 1949         1        2   0.740155298
## 3177         1        2   0.740155215
## 4598         1        2   0.740110872
## 6127         1        2   0.740105618
## 2013         1        2   0.740057640
## 1942         1        2   0.740045055
## 2192         1        2   0.740017338
## 2113         1        2   0.740011905
## 1648         1        2   0.740000030
## 1828         1        2   0.739985474
## 2244         1        2   0.739901266
## 2424         1        2   0.739896489
## 5391         1        2   0.739866789
## 1940         1        2   0.739843171
## 2481         1        2   0.739800843
## 2308         1        2   0.739799516
## 2330         1        2   0.739789673
## 3930         1        2   0.739787895
## 1442         1        2   0.739749931
## 1642         1        2   0.739743367
## 5289         1        2   0.739742661
## 2705         1        2   0.739738084
```

```
## 1533          1          2   0.739717785
## 1153          1          2   0.739714624
## 2100          1          2   0.739712532
## 1868          1          2   0.739668991
## 2240          1          2   0.739624641
## 1525          1          2   0.739605032
## 2171          1          2   0.739603112
## 2327          1          2   0.739599979
## 4309          1          2   0.739582465
## 6257          1          2   0.739576965
## 1139          1          2   0.739571535
## 6388          1          2   0.739568359
## 22036         1          2   0.739552680
## 5538          1          2   0.739543412
## 2318          1          2   0.739528866
## 6470          1          2   0.739518917
## 2178          1          2   0.739518048
## 2316          1          2   0.739517439
## 2713          1          2   0.739516557
## 4579          1          2   0.739510853
## 6129          1          2   0.739502076
## 6387          1          2   0.739495182
## 2146          1          2   0.739483343
## 1866          1          2   0.739477174
## 2771          1          2   0.739469495
## 3175          1          2   0.739462372
## 1953          1          2   0.739442902
## 2712          1          2   0.739435622
## 4095          1          2   0.739434980
## 5806          1          2   0.739418132
## 2960          1          2   0.739417413
## 6385          1          2   0.739402460
## 2353          1          2   0.739385156
## 1390          1          2   0.739376905
## 2272          1          2   0.739375893
## 22075         1          2   0.739373803
## 1740          1          2   0.739368361
## 2232          1          2   0.739343333
## 2788          1          2   0.739322022
## 6468          1          2   0.739317628
## 2289          1          2   0.739295624
## 3064          1          2   0.739281475
## 4314          1          2   0.739278498
## 6383          1          2   0.739275337
## 2343          1          2   0.739258665
## 2026          1          2   0.739245788
## 3505          1          2   0.739228691
## 3051          1          2   0.739228099
## 1861          1          2   0.739218465
## 2236          1          2   0.739197642
## 5543          1          2   0.739170109
## 1785          1          2   0.739148775
## 1875          1          2   0.739131569
## 2404          1          2   0.739122605
```

```
## 1784          1          2   0.739121994
## 2186          1          2   0.739109845
## 5539          1          2   0.739072073
## 1823          1          2   0.739049112
## 5390          1          2   0.739043854
## 2502          1          2   0.739026928
## 6397          1          2   0.739002798
## 1389          1          2   0.739001652
## 2885          1          2   0.738982823
## 1511          1          2   0.738982483
## 2739          1          2   0.738924626
## 1640          1          2   0.738922123
## 4057          1          2   0.738916738
## 2078          1          2   0.738886899
## 2169          1          2   0.738886899
## 1963          1          2   0.738886642
## 2506          1          2   0.738868294
## 3646          1          2   0.738844981
## 5546          1          2   0.738835737
## 1679          1          2   0.738815851
## 2290          1          2   0.738808237
## 6384          1          2   0.738779283
## 2241          1          2   0.738764640
## 2158          1          2   0.738731975
## 2046          1          2   0.738693124
## 2525          1          2   0.738654951
## 4315          1          2   0.738648604
## 2249          1          2   0.738602176
## 2101          1          2   0.738601464
## 2734          1          2   0.738599858
## 5944          1          2   0.738562230
## 3176          1          2   0.738530219
## 2204          1          2   0.738509486
## 1695          1          2   0.738489023
## 1634          1          2   0.738471323
## 2105          1          2   0.738463490
## 1833          1          2   0.738460673
## 1908          1          2   0.738455308
## 4051          1          2   0.738432962
## 1735          1          2   0.738431382
## 6391          1          2   0.738430016
## 1474          1          2   0.738416054
## 2097          1          2   0.738302462
## 1443          1          2   0.738297296
## 2095          1          2   0.738295367
## 4741          1          2   0.738255558
## 2641          1          2   0.738247065
## 1411          1          2   0.738241140
## 1397          1          2   0.738204601
## 2802          1          2   0.738195122
## 1413          1          2   0.738187674
## 6467          1          2   0.738160342
## 3647          1          2   0.738142417
## 2172          1          2   0.738115392
```

```
## 2692          1          2    0.738094519
## 2456          1          2    0.738060833
## 2443          1          2    0.738058434
## 1658          1          2    0.738055310
## 2102          1          2    0.738010292
## 1688          1          2    0.738007733
## 2003          1          2    0.738002985
## 1939          1          2    0.737997707
## 1647          1          2    0.737984822
## 3049          1          2    0.737983065
## 6578          1          2    0.737969213
## 3292          1          2    0.737959060
## 5489          1          2    0.737948866
## 1631          1          2    0.737947634
## 2776          1          2    0.737933859
## 6590          1          2    0.737925927
## 5540          1          2    0.737921340
## 1832          1          2    0.737905399
## 2531          1          2    0.737899799
## 2211          1          2    0.737899703
## 2084          1          2    0.737885850
## 1472          1          2    0.737883864
## 1967          1          2    0.737854273
## 1638          1          2    0.737841048
## 1635          1          2    0.737834657
## 1350          1          2    0.737827804
## 2493          1          2    0.737819158
## 2170          1          2    0.737775534
## 6589          1          2    0.737767873
## 4094          1          2    0.737735065
## 3744          1          2    0.737726390
## 4710          1          2    0.737722410
## 2870          1          2    0.737681747
## 1134          1          2    0.737674897
## 2124          1          2    0.737668689
## 2351          1          2    0.737645813
## 2163          1          2    0.737642232
## 2032          1          2    0.737634409
## 1524          1          2    0.737615084
## 5458          1          2    0.737604240
## 4739          1          2    0.737598647
## 1445          1          2    0.737567950
## 6256          1          2    0.737562125
## 2720          1          2    0.737543781
## 6586          1          2    0.737538814
## 3754          1          2    0.737489031
## 2229          1          2    0.737450029
## 2829          1          2    0.737445308
## 1620          1          2    0.737413628
## 2408          1          2    0.737411206
## 1508          1          2    0.737376019
## 1529          1          2    0.737373960
## 1956          1          2    0.737372601
## 2015          1          2    0.737355667
```

```
## 3124       1       2   0.737350547
## 1741       1       2   0.737348564
## 1937       1       2   0.737315647
## 2719       1       2   0.737274684
## 1977       1       2   0.737261473
## 2028       1       2   0.737256188
## 1972       1       2   0.737168472
## 1697       1       2   0.737161863
## 2727       1       2   0.737159828
## 2295       1       2   0.737106199
## 5487       1       2   0.737097545
## 1147       1       2   0.737091728
## 5552       1       2   0.737079808
## 2092       1       2   0.737072289
## 1980       1       2   0.737071142
## 2010       1       2   0.737061218
## 2002       1       2   0.737047964
## 1627       1       2   0.737037207
## 1643       1       2   0.737020370
## 2089       1       2   0.736997751
## 1152       1       2   0.736987858
## 2416       1       2   0.736964736
## 5105       1       2   0.736955747
## 2133       1       2   0.736947206
## 2698       1       2   0.736944981
## 1043       1       2   0.736943996
## 1738       1       2   0.736940456
## 1142       1       2   0.736900971
## 5545       1       2   0.736900971
## 4484       1       2   0.736895592
## 2814       1       2   0.736892861
## 21814      1       2   0.736881659
## 5288       1       2   0.736881608
## 1422       1       2   0.736876785
## 6386       1       2   0.736860131
## 1579       1       2   0.736855545
## 2182       1       2   0.736835709
## 1154       1       2   0.736817754
## 1600       1       2   0.736812546
## 2871       1       2   0.736780883
## 2731       1       2   0.736760262
## 2709       1       2   0.736744282
## 1140       1       2   0.736729347
## 6580       1       2   0.736703866
## 6396       1       2   0.736700348
## 10222      1       2   0.736675708
## 5656       1       2   0.736661561
## 1862       1       2   0.736625979
## 2302       1       2   0.736609020
## 2455       1       2   0.736604080
## 6254       1       2   0.736600386
## 1819       1       2   0.736586135
## 2579       1       2   0.736561699
## 6587       1       2   0.736479188
```

```
## 1768           1         2    0.736420173
## 2188           1         2    0.736409680
## 10438          1         2    0.736406156
## 1864           1         2    0.736378123
## 1352           1         2    0.736366398
## 2049           1         2    0.736357231
## 1280           1         2    0.736354682
## 2753           1         2    0.736310282
## 1507           1         2    0.736278588
## 5934           1         2    0.736251577
## 1412           1         2    0.736228759
## 1733           1         2    0.736210023
## 3494           1         2    0.736208000
## 2725           1         2    0.736193842
## 1863           1         2    0.736182487
## 1027           1         2    0.736149831
## 5366           1         2    0.736148480
## 1886           1         2    0.736101720
## 2149           1         2    0.736095611
## 1603           1         2    0.736083116
## 2457           1         2    0.736033171
## 3172           1         2    0.735991279
## 2349           1         2    0.735979902
## 1596           1         2    0.735973780
## 1475           1         2    0.735960621
## 2355           1         2    0.735956114
## 1251           1         2    0.735944587
## 2196           1         2    0.735940329
## 1599           1         2    0.735910058
## 2260           1         2    0.735908739
## 2226           1         2    0.735895437
## 6478           1         2    0.735863503
## 2603           1         2    0.735846887
## 2866           1         2    0.735828279
## 1872           1         2    0.735802033
## 2333           1         2    0.735773209
## 6669           1         2    0.735752464
## 2099           1         2    0.735748830
## 1822           1         2    0.735731917
## 2441           1         2    0.735722255
## 2361           1         2    0.735711656
## 6582           1         2    0.735692704
## 1930           1         2    0.735684840
## 4743           1         2    0.735682661
## 1859           1         2    0.735677471
## 23191          1         2    0.735673001
## 2233           1         2    0.735672234
## 1870           1         2    0.735668155
## 2165           1         2    0.735663880
## 2880           1         2    0.735655314
## 3331           1         2    0.735652044
## 6261           1         2    0.735651944
## 3305           1         2    0.735650868
## 2076           1         2    0.735632660
```

```
## 2306        1        2   0.735626176
## 5418        1        2   0.735625005
## 1767        1        2   0.735577517
## 1249        1        2   0.735551273
## 2914        1        2   0.735551007
## 2704        1        2   0.735543668
## 2259        1        2   0.735539798
## 1885        1        2   0.735527395
## 5534        1        2   0.735511850
## 2915        1        2   0.735493310
## 1031        1        2   0.735492561
## 3770        1        2   0.735485809
## 3169        1        2   0.735474990
## 2452        1        2   0.735468370
## 1694        1        2   0.735433554
## 3144        1        2   0.735389428
## 1086        1        2   0.735387964
## 5191        1        2   0.735387680
## 1954        1        2   0.735360921
## 1444        1        2   0.735359705
## 1044        1        2   0.735308113
## 5941        1        2   0.735290841
## 2552        1        2   0.735288696
## 2348        1        2   0.735271031
## 2331        1        2   0.735261676
## 1253        1        2   0.735218419
## 5550        1        2   0.735205579
## 2193        1        2   0.735156290
## 1591        1        2   0.735151305
## 1754        1        2   0.735137817
## 6583        1        2   0.735134505
## 1652        1        2   0.735118690
## 1340        1        2   0.735095345
## 2070        1        2   0.735075117
## 1825        1        2   0.735058212
## 2073        1        2   0.735045120
## 4087        1        2   0.735008165
## 1927        1        2   0.734997990
## 1994        1        2   0.734951284
## 2340        1        2   0.734923725
## 1626        1        2   0.734901473
## 3302        1        2   0.734884466
## 2025        1        2   0.734857019
## 2410        1        2   0.734855888
## 2341        1        2   0.734844497
## 2074        1        2   0.734825270
## 2640        1        2   0.734802436
## 1294        1        2   0.734798984
## 1699        1        2   0.734789870
## 2352        1        2   0.734782568
## 1676        1        2   0.734779699
## 1999        1        2   0.734775770
## 1795        1        2   0.734768355
## 2545        1        2   0.734764776
```

```
## 4327          1          2   0.734727576
## 1797          1          2   0.734718965
## 1765          1          2   0.734680609
## 2377          1          2   0.734668830
## 979           1          2   0.734641092
## 2524          1          2   0.734610690
## 1336          1          2   0.734602618
## 2689          1          2   0.734583303
## 2253          1          2   0.734578883
## 1577          1          2   0.734529713
## 2961          1          2   0.734506500
## 6390          1          2   0.734501264
## 1077          1          2   0.734490150
## 3062          1          2   0.734486043
## 2262          1          2   0.734482794
## 6573          1          2   0.734462658
## 22609         1          2   0.734461801
## 1803          1          2   0.734451051
## 2442          1          2   0.734438439
## 2863          1          2   0.734438439
## 5551          1          2   0.734398731
## 9846          1          2   0.734390036
## 1792          1          2   0.734378019
## 1330          1          2   0.734377823
## 5650          1          2   0.734362231
## 1420          1          2   0.734351520
## 5541          1          2   0.734326116
## 2283          1          2   0.734325909
## 2011          1          2   0.734312462
## 4298          1          2   0.734308517
## 1457          1          2   0.734292428
## 1348          1          2   0.734253227
## 2433          1          2   0.734235936
## 1755          1          2   0.734226960
## 5459          1          2   0.734179183
## 2205          1          2   0.734175975
## 1435          1          2   0.734164815
## 21545         1          2   0.734164336
## 2770          1          2   0.734162727
## 1578          1          2   0.734156850
## 6665          1          2   0.734143182
## 2767          1          2   0.734138148
## 1894          1          2   0.734081552
## 2458          1          2   0.734034587
## 1609          1          2   0.734016695
## 1590          1          2   0.734004954
## 5942          1          2   0.734003274
## 1678          1          2   0.733977143
## 2284          1          2   0.733947413
## 2470          1          2   0.733945071
## 1993          1          2   0.733931353
## 2487          1          2   0.733917035
## 2898          1          2   0.733879067
## 6577          1          2   0.733874390
```

```
## 2293           1           2   0.733861044
## 4713           1           2   0.733860460
## 5937           1           2   0.733849472
## 3553           1           2   0.733840986
## 2476           1           2   0.733821081
## 2358           1           2   0.733799976
## 2533           1           2   0.733797499
## 2982           1           2   0.733761000
## 1996           1           2   0.733754399
## 6579           1           2   0.733736540
## 2315           1           2   0.733731787
## 2612           1           2   0.733726413
## 1087           1           2   0.733715744
## 5535           1           2   0.733680485
## 2071           1           2   0.733646184
## 1391           1           2   0.733603086
## 2050           1           2   0.733593084
## 2510           1           2   0.733576414
## 5388           1           2   0.733548270
## 2496           1           2   0.733533068
## 2576           1           2   0.733501760
## 2514           1           2   0.733481451
## 1637           1           2   0.733463003
## 5185           1           2   0.733456604
## 4745           1           2   0.733450812
## 5184           1           2   0.733447410
## 1327           1           2   0.733440977
## 1665           1           2   0.733415419
## 5653           1           2   0.733401814
## 6392           1           2   0.733383462
## 1331           1           2   0.733379856
## 1851           1           2   0.733378096
## 2153           1           2   0.733359928
## 1453           1           2   0.733359334
## 3310           1           2   0.733350522
## 1490           1           2   0.733345651
## 1706           1           2   0.733340716
## 2174           1           2   0.733319955
## 2235           1           2   0.733318799
## 1194           1           2   0.733288882
## 1962           1           2   0.733281314
## 2181           1           2   0.733273390
## 2208           1           2   0.733261831
## 1418           1           2   0.733255961
## 2129           1           2   0.733253838
## 4712           1           2   0.733251779
## 1632           1           2   0.733242137
## 1692           1           2   0.733237298
## 1456           1           2   0.733230223
## 2594           1           2   0.733222764
## 21500          1           2   0.733217279
## 4483           1           2   0.733208856
## 2250           1           2   0.733207668
## 1890           1           2   0.733193132
```

```
## 2048          1          2   0.733179896
## 2412          1          2   0.733178899
## 2273          1          2   0.733158374
## 2468          1          2   0.733156688
## 1455          1          2   0.733128192
## 1988          1          2   0.733121236
## 956           1          2   0.733105376
## 1514          1          2   0.733090410
## 1950          1          2   0.733090410
## 3446          1          2   0.733070714
## 2155          1          2   0.733050257
## 1844          1          2   0.733043356
## 1781          1          2   0.733037794
## 5529          1          2   0.733027944
## 6473          1          2   0.733024772
## 5582          1          2   0.733024386
## 1677          1          2   0.733001237
## 1041          1          2   0.732997427
## 2718          1          2   0.732969014
## 2012          1          2   0.732966429
## 4707          1          2   0.732910702
## 2406          1          2   0.732899484
## 1144          1          2   0.732858992
## 1244          1          2   0.732852310
## 964           1          2   0.732833875
## 2519          1          2   0.732806876
## 998           1          2   0.732799878
## 2742          1          2   0.732782123
## 1089          1          2   0.732780980
## 1419          1          2   0.732774185
## 1328          1          2   0.732742879
## 5051          1          2   0.732736566
## 5469          1          2   0.732692894
## 1339          1          2   0.732684110
## 3304          1          2   0.732636798
## 1090          1          2   0.732631043
## 3050          1          2   0.732630244
## 1146          1          2   0.732623956
## 1760          1          2   0.732608458
## 2227          1          2   0.732595410
## 1343          1          2   0.732580250
## 1161          1          2   0.732579558
## 6662          1          2   0.732563270
## 2644          1          2   0.732552862
## 1454          1          2   0.732537637
## 1394          1          2   0.732516378
## 4004          1          2   0.732506782
## 1337          1          2   0.732488639
## 2035          1          2   0.732458369
## 1124          1          2   0.732457375
## 6251          1          2   0.732456871
## 5106          1          2   0.732433525
## 1510          1          2   0.732425642
## 2454          1          2   0.732374720
```

```
## 6389          1          2    0.732339200
## 21680         1          2    0.732302531
## 1646          1          2    0.732272287
## 1264          1          2    0.732269592
## 2696          1          2    0.732268972
## 2586          1          2    0.732257589
## 1135          1          2    0.732253607
## 2745          1          2    0.732239436
## 2230          1          2    0.732235127
## 1737          1          2    0.732205058
## 1476          1          2    0.732197578
## 2127          1          2    0.732184681
## 1644          1          2    0.732170252
## 2309          1          2    0.732147446
## 2697          1          2    0.732146412
## 5542          1          2    0.732142998
## 1845          1          2    0.732120824
## 1100          1          2    0.732116937
## 1789          1          2    0.732112287
## 2338          1          2    0.732092111
## 6466          1          2    0.732091211
## 4706          1          2    0.732069825
## 3942          1          2    0.732036651
## 2264          1          2    0.732035452
## 2437          1          2    0.731998686
## 1160          1          2    0.731970460
## 980           1          2    0.731936256
## 2126          1          2    0.731914518
## 2714          1          2    0.731877238
## 2466          1          2    0.731872150
## 2465          1          2    0.731859546
## 2472          1          2    0.731844591
## 1935          1          2    0.731834257
## 2037          1          2    0.731813965
## 1991          1          2    0.731788345
## 2815          1          2    0.731785827
## 1952          1          2    0.731777895
## 2865          1          2    0.731777429
## 6335          1          2    0.731771964
## 4709          1          2    0.731745488
## 2685          1          2    0.731741468
## 2816          1          2    0.731688712
## 1947          1          2    0.731668084
## 2356          1          2    0.731643231
## 2782          1          2    0.731632700
## 2565          1          2    0.731604563
## 5536          1          2    0.731581838
## 1982          1          2    0.731580164
## 1470          1          2    0.731569464
## 4808          1          2    0.731529610
## 3151          1          2    0.731502514
## 2386          1          2    0.731478522
## 3058          1          2    0.731460379
## 2780          1          2    0.731436278
```

```
## 2613          1          2    0.731433105
## 1149          1          2    0.731417069
## 5544          1          2    0.731414992
## 6334          1          2    0.731409609
## 4596          1          2    0.731399479
## 1574          1          2    0.731378009
## 1241          1          2    0.731377999
## 2768          1          2    0.731365779
## 1295          1          2    0.731365070
## 4830          1          2    0.731344289
## 2370          1          2    0.731333483
## 6634          1          2    0.731290185
## 2450          1          2    0.731284201
## 1393          1          2    0.731275940
## 2271          1          2    0.731257967
## 1329          1          2    0.731253194
## 2480          1          2    0.731248553
## 1326          1          2    0.731248004
## 1571          1          2    0.731221352
## 2373          1          2    0.731218323
## 1811          1          2    0.731211476
## 2648          1          2    0.731208071
## 1132          1          2    0.731197316
## 1282          1          2    0.731188312
## 6475          1          2    0.731187135
## 1856          1          2    0.731173715
## 5186          1          2    0.731172270
## 1762          1          2    0.731170056
## 1849          1          2    0.731170056
## 4096          1          2    0.731159709
## 1847          1          2    0.731151623
## 2675          1          2    0.731127978
## 3873          1          2    0.731111568
## 1265          1          2    0.731108555
## 5527          1          2    0.731108379
## 2368          1          2    0.731098696
## 4926          1          2    0.731098696
## 5362          1          2    0.731091167
## 4927          1          2    0.731064860
## 3294          1          2    0.731050356
## 5361          1          2    0.731041254
## 6380          1          2    0.731020422
## 1141          1          2    0.730920943
## 23124         1          2    0.730893808
## 2649          1          2    0.730881559
## 6250          1          2    0.730880004
## 2708          1          2    0.730879053
## 2107          1          2    0.730868475
## 1130          1          2    0.730839385
## 1932          1          2    0.730832906
## 6673          1          2    0.730809396
## 1775          1          2    0.730801203
## 1854          1          2    0.730788488
## 5368          1          2    0.730713420
```

```
## 1664          1        2    0.730700103
## 1826          1        2    0.730667536
## 1690          1        2    0.730645079
## 2515          1        2    0.730602869
## 2620          1        2    0.730581634
## 2392          1        2    0.730534017
## 2067          1        2    0.730501358
## 6661          1        2    0.730492348
## 6660          1        2    0.730429076
## 1663          1        2    0.730418057
## 6130          1        2    0.730390372
## 2407          1        2    0.730377094
## 2568          1        2    0.730369587
## 1983          1        2    0.730349779
## 2029          1        2    0.730345901
## 2366          1        2    0.730326189
## 1095          1        2    0.730316698
## 1670          1        2    0.730313882
## 4797          1        2    0.730312515
## 2371          1        2    0.730310188
## 1984          1        2    0.730296983
## 1986          1        2    0.730296983
## 2460          1        2    0.730291237
## 1047          1        2    0.730223174
## 4000          1        2    0.730213420
## 1414          1        2    0.730201611
## 3183          1        2    0.730193063
## 1653          1        2    0.730188257
## 2676          1        2    0.730174333
## 10221         1        2    0.730145868
## 3178          1        2    0.730134611
## 2369          1        2    0.730124241
## 1345          1        2    0.730084128
## 2094          1        2    0.730080267
## 1448          1        2    0.730079439
## 2666          1        2    0.730071112
## 2968          1        2    0.730025385
## 2464          1        2    0.730023699
## 2680          1        2    0.729967336
## 2287          1        2    0.729965153
## 1467          1        2    0.729959255
## 1948          1        2    0.729957980
## 2381          1        2    0.729948274
## 5179          1        2    0.729939696
## 1131          1        2    0.729933064
## 1399          1        2    0.729924283
## 1586          1        2    0.729874798
## 5369          1        2    0.729846064
## 2557          1        2    0.729844493
## 2569          1        2    0.729839795
## 5428          1        2    0.729831928
## 3747          1        2    0.729827283
## 1297          1        2    0.729804608
## 5936          1        2    0.729797353
```

```
## 2590          1         2   0.729781327
## 3142          1         2   0.729776185
## 2214          1         2   0.729757945
## 1805          1         2   0.729736141
## 2963          1         2   0.729720809
## 2159          1         2   0.729713080
## 2737          1         2   0.729640929
## 2200          1         2   0.729622369
## 1032          1         2   0.729614253
## 1464          1         2   0.729585627
## 6259          1         2   0.729572563
## 3171          1         2   0.729563648
## 6474          1         2   0.729553686
## 1462          1         2   0.729527135
## 1262          1         2   0.729524189
## 1585          1         2   0.729516256
## 5187          1         2   0.729509226
## 2150          1         2   0.729493870
## 2166          1         2   0.729489482
## 2254          1         2   0.729467703
## 2217          1         2   0.729464645
## 1030          1         2   0.729454865
## 2216          1         2   0.729453005
## 2062          1         2   0.729449453
## 2360          1         2   0.729436579
## 6584          1         2   0.729427651
## 22589         1         2   0.729424817
## 4795          1         2   0.729424434
## 1628          1         2   0.729421083
## 2504          1         2   0.729421083
## 831           1         2   0.729417486
## 3929          1         2   0.729374651
## 5192          1         2   0.729350697
## 3348          1         2   0.729317322
## 4793          1         2   0.729313044
## 2741          1         2   0.729304807
## 2401          1         2   0.729273902
## 1672          1         2   0.729263686
## 1486          1         2   0.729246851
## 4058          1         2   0.729213400
## 1601          1         2   0.729175123
## 4253          1         2   0.729154512
## 1263          1         2   0.729151719
## 3749          1         2   0.729102372
## 951           1         2   0.729099525
## 1127          1         2   0.729080385
## 1645          1         2   0.729078997
## 1764          1         2   0.729020749
## 2030          1         2   0.729017685
## 2798          1         2   0.728987367
## 5537          1         2   0.728982419
## 5549          1         2   0.728948059
## 2042          1         2   0.728907775
## 1526          1         2   0.728891731
```

```
## 1021        1        2    0.728884564
## 3311        1        2    0.728860199
## 4262        1        2    0.728851353
## 5012        1        2    0.728849160
## 3745        1        2    0.728833724
## 2447        1        2    0.728831360
## 2044        1        2    0.728824464
## 5367        1        2    0.728805860
## 5014        1        2    0.728794866
## 1261        1        2    0.728713752
## 2943        1        2    0.728708577
## 2805        1        2    0.728703339
## 3587        1        2    0.728696815
## 1659        1        2    0.728577768
## 2522        1        2    0.728573451
## 6666        1        2    0.728539367
## 1106        1        2    0.728530926
## 2440        1        2    0.728524699
## 2281        1        2    0.728520856
## 2942        1        2    0.728500943
## 2467        1        2    0.728410598
## 2469        1        2    0.728397368
## 1466        1        2    0.728380239
## 1415        1        2    0.728340062
## 1150        1        2    0.728324235
## 2520        1        2    0.728291098
## 2362        1        2    0.728286185
## 3301        1        2    0.728275351
## 2912        1        2    0.728243901
## 1321        1        2    0.728242943
## 2738        1        2    0.728206319
## 2151        1        2    0.728194528
## 1801        1        2    0.728174681
## 2304        1        2    0.728118962
## 1344        1        2    0.728102729
## 2173        1        2    0.728090686
## 2910        1        2    0.728089480
## 3756        1        2    0.728081894
## 2299        1        2    0.728061958
## 4725        1        2    0.728027902
## 1761        1        2    0.728023955
## 22313       1        2    0.728022302
## 952         1        2    0.728017982
## 974         1        2    0.728012418
## 2530        1        2    0.728001629
## 1836        1        2    0.727999392
## 3309        1        2    0.727989213
## 2342        1        2    0.727986426
## 4583        1        2    0.727984017
## 1589        1        2    0.727977111
## 972         1        2    0.727969263
## 1941        1        2    0.727957357
## 1238        1        2    0.727955541
## 1931        1        2    0.727902135
```

```
## 1923         1         2   0.727889352
## 2415         1         2   0.727881311
## 697          1         2   0.727855299
## 2019         1         2   0.727853834
## 5460         1         2   0.727846799
## 2034         1         2   0.727842896
## 2294         1         2   0.727835699
## 2093         1         2   0.727825223
## 2276         1         2   0.727823798
## 2335         1         2   0.727808871
## 1240         1         2   0.727806382
## 2736         1         2   0.727796245
## 1239         1         2   0.727778189
## 3125         1         2   0.727778189
## 2423         1         2   0.727774019
## 1316         1         2   0.727761959
## 2245         1         2   0.727710903
## 2219         1         2   0.727691330
## 1573         1         2   0.727690100
## 1040         1         2   0.727640888
## 2275         1         2   0.727630534
## 3621         1         2   0.727630534
## 2337         1         2   0.727623654
## 2853         1         2   0.727614294
## 2359         1         2   0.727588096
## 3558         1         2   0.727583133
## 2646         1         2   0.727565710
## 2380         1         2   0.727558740
## 2800         1         2   0.727557840
## 971          1         2   0.727542736
## 1772         1         2   0.727528757
## 6632         1         2   0.727525840
## 1247         1         2   0.727518588
## 2774         1         2   0.727517004
## 5013         1         2   0.727505887
## 1595         1         2   0.727502690
## 5532         1         2   0.727499868
## 4831         1         2   0.727482042
## 2852         1         2   0.727475382
## 3317         1         2   0.727442849
## 1083         1         2   0.727441035
## 2274         1         2   0.727441035
## 1465         1         2   0.727418382
## 1824         1         2   0.727404629
## 2445         1         2   0.727387062
## 2043         1         2   0.727356821
## 1560         1         2   0.727356438
## 2593         1         2   0.727352934
## 1553         1         2   0.727347173
## 1567         1         2   0.727332145
## 1516         1         2   0.727294972
## 1556         1         2   0.727294387
## 2527         1         2   0.727287210
## 3165         1         2   0.727270311
```

```
## 10718      1      2   0.727269019
## 1314       1      2   0.727268989
## 1433       1      2   0.727254120
## 4326       1      2   0.727244033
## 2761       1      2   0.727232293
## 3303       1      2   0.727226919
## 3174       1      2   0.727216437
## 2773       1      2   0.727215880
## 2813       1      2   0.727213553
## 3941       1      2   0.727212355
## 2794       1      2   0.727190180
## 3746       1      2   0.727157302
## 1649       1      2   0.727144441
## 2265       1      2   0.727127783
## 1564       1      2   0.727125108
## 953        1      2   0.727119384
## 1234       1      2   0.727097594
## 2081       1      2   0.727079640
## 2984       1      2   0.727074228
## 1527       1      2   0.727064985
## 2143       1      2   0.727044561
## 3289       1      2   0.727029300
## 2707       1      2   0.727010109
## 1907       1      2   0.727007899
## 3418       1      2   0.727007005
## 2325       1      2   0.726947949
## 1696       1      2   0.726914315
## 975        1      2   0.726894806
## 1842       1      2   0.726864592
## 2184       1      2   0.726832474
## 4833       1      2   0.726802665
## 4244       1      2   0.726796228
## 1558       1      2   0.726753315
## 3042       1      2   0.726751891
## 2391       1      2   0.726750640
## 1912       1      2   0.726727780
## 717        1      2   0.726691682
## 2305       1      2   0.726670351
## 11679      1      2   0.726664295
## 2596       1      2   0.726663787
## 2123       1      2   0.726634240
## 833        1      2   0.726627086
## 5938       1      2   0.726612485
## 4003       1      2   0.726571853
## 5940       1      2   0.726548181
## 2632       1      2   0.726546808
## 3763       1      2   0.726541563
## 2083       1      2   0.726516615
## 2462       1      2   0.726510207
## 23265      1      2   0.726478400
## 2005       1      2   0.726454082
## 816        1      2   0.726447898
## 977        1      2   0.726447064
## 21865      1      2   0.726428995
```

```
## 3141         1        2   0.726391219
## 832          1        2   0.726357131
## 2223         1        2   0.726356657
## 1319         1        2   0.726311983
## 1383         1        2   0.726302537
## 6263         1        2   0.726287797
## 3750         1        2   0.726271167
## 1562         1        2   0.726224889
## 1835         1        2   0.726198096
## 1934         1        2   0.726182754
## 2861         1        2   0.726181771
## 1494         1        2   0.726158050
## 1473         1        2   0.726148294
## 21866        1        2   0.726133507
## 5120         1        2   0.726130178
## 1892         1        2   0.726128417
## 5531         1        2   0.726088775
## 3509         1        2   0.726076749
## 1250         1        2   0.726059886
## 1630         1        2   0.726054926
## 847          1        2   0.726032448
## 2626         1        2   0.726014971
## 1434         1        2   0.725998886
## 2395         1        2   0.725994324
## 1098         1        2   0.725988880
## 2444         1        2   0.725980201
## 1871         1        2   0.725971997
## 2144         1        2   0.725968804
## 1566         1        2   0.725939010
## 815          1        2   0.725879623
## 3420         1        2   0.725876396
## 4923         1        2   0.725873429
## 2799         1        2   0.725850696
## 2778         1        2   0.725842674
## 809          1        2   0.725835334
## 1705         1        2   0.725835082
## 2555         1        2   0.725811223
## 2955         1        2   0.725804552
## 2900         1        2   0.725754596
## 2131         1        2   0.725745418
## 1674         1        2   0.725735080
## 4597         1        2   0.725703137
## 2439         1        2   0.725696541
## 2374         1        2   0.725686621
## 2228         1        2   0.725682917
## 1910         1        2   0.725673989
## 3415         1        2   0.725669637
## 1528         1        2   0.725648542
## 1687         1        2   0.725628922
## 2535         1        2   0.725620070
## 1107         1        2   0.725589975
## 3094         1        2   0.725572592
## 1285         1        2   0.725544998
## 3045         1        2   0.725530734
```

```
## 1322          1          2    0.725525957
## 5018          1          2    0.725519761
## 3575          1          2    0.725513567
## 4928          1          2    0.725507623
## 2721          1          2    0.725504772
## 2717          1          2    0.725503184
## 2679          1          2    0.725498963
## 2087          1          2    0.725325499
## 3481          1          2    0.725320738
## 4054          1          2    0.725314540
## 2474          1          2    0.725298859
## 2950          1          2    0.725296877
## 2635          1          2    0.725296161
## 1351          1          2    0.725260448
## 1045          1          2    0.725241873
## 2541          1          2    0.725214045
## 1317          1          2    0.725192306
## 5085          1          2    0.725173469
## 5528          1          2    0.725155934
## 2489          1          2    0.725154692
## 5107          1          2    0.725126335
## 2413          1          2    0.725113619
## 23582         1          2    0.725098863
## 2839          1          2    0.725097590
## 1101          1          2    0.725090269
## 6378          1          2    0.725090161
## 1995          1          2    0.725087367
## 3156          1          2    0.725070581
## 2856          1          2    0.725049468
## 2546          1          2    0.725048467
## 2175          1          2    0.725014941
## 2790          1          2    0.724996105
## 1011          1          2    0.724950839
## 1271          1          2    0.724926912
## 2724          1          2    0.724922998
## 1576          1          2    0.724921963
## 716           1          2    0.724899027
## 3060          1          2    0.724891443
## 2990          1          2    0.724860710
## 1855          1          2    0.724859532
## 1656          1          2    0.724853948
## 2110          1          2    0.724851028
## 3001          1          2    0.724844465
## 6249          1          2    0.724813411
## 1233          1          2    0.724812842
## 1014          1          2    0.724807986
## 696           1          2    0.724807528
## 2021          1          2    0.724805347
## 3417          1          2    0.724778288
## 1730          1          2    0.724762358
## 1683          1          2    0.724738379
## 23192         1          2    0.724730372
## 1255          1          2    0.724724088
## 2495          1          2    0.724717333
```

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## 2297          1          2    0.724711079
## 1636          1          2    0.724700995
## 1987          1          2    0.724692058
## 2911          1          2    0.724685014
## 1023          1          2    0.724684801
## 973           1          2    0.724668880
## 830           1          2    0.724623070
## 5122          1          2    0.724548807
## 21638         1          2    0.724541106
## 848           1          2    0.724530036
## 2218          1          2    0.724513801
## 3435          1          2    0.724485014
## 2838          1          2    0.724484970
## 1125          1          2    0.724469339
## 2947          1          2    0.724427759
## 1020          1          2    0.724416336
## 3479          1          2    0.724406879
## 2793          1          2    0.724331177
## 5118          1          2    0.724314600
## 1906          1          2    0.724295911
## 1338          1          2    0.724287219
## 5177          1          2    0.724266134
## 3510          1          2    0.724262045
## 5104          1          2    0.724234221
## 3748          1          2    0.724229738
## 1903          1          2    0.724211074
## 2952          1          2    0.724168317
## 1704          1          2    0.724148420
## 1783          1          2    0.724129866
## 1237          1          2    0.724120469
## 1887          1          2    0.724101237
## 2128          1          2    0.724096769
## 6122          1          2    0.724082808
## 2130          1          2    0.724079930
## 1488          1          2    0.724041919
## 6123          1          2    0.723998444
## 3164          1          2    0.723995412
## 1569          1          2    0.723987251
## 1978          1          2    0.723980324
## 4091          1          2    0.723924912
## 2728          1          2    0.723904679
## 1324          1          2    0.723896766
## 1682          1          2    0.723892893
## 4744          1          2    0.723862935
## 5655          1          2    0.723845569
## 2210          1          2    0.723840465
## 1742          1          2    0.723832696
## 2285          1          2    0.723822540
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## 3637          1          2    0.723803566
## 22103         1          2    0.723794001
## 2801          1          2    0.723782440
## 1734          1          2    0.723781125
## 2109          1          2    0.723768777
```

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## 1680          1          2    0.723764490
## 2566          1          2    0.723749068
## 1979          1          2    0.723743528
## 1274          1          2    0.723652709
## 4328          1          2    0.723640958
## 2609          1          2    0.723583236
## 6476          1          2    0.723578868
## 2321          1          2    0.723567247
## 2463          1          2    0.723545370
## 2623          1          2    0.723540282
## 2157          1          2    0.723441630
## 3618          1          2    0.723429039
## 2858          1          2    0.723412803
## 2137          1          2    0.723398340
## 1517          1          2    0.723388526
## 1408          1          2    0.723385607
## 2278          1          2    0.723371083
## 1260          1          2    0.723354708
## 3445          1          2    0.723352213
## 1728          1          2    0.723325777
## 5188          1          2    0.723310129
## 3765          1          2    0.723307678
## 1126          1          2    0.723300850
## 1283          1          2    0.723294089
## 5457          1          2    0.723271269
## 3512          1          2    0.723253046
## 1657          1          2    0.723237663
## 2375          1          2    0.723217933
## 1441          1          2    0.723210449
## 2389          1          2    0.723189973
## 1459          1          2    0.723172235
## 2422          1          2    0.723090706
## 3434          1          2    0.723045928
## 892           1          2    0.723015683
## 2396          1          2    0.722981693
## 2548          1          2    0.722950251
## 1436          1          2    0.722944114
## 1911          1          2    0.722938459
## 2435          1          2    0.722920177
## 22000         1          2    0.722887630
## 2684          1          2    0.722885649
## 1405          1          2    0.722884030
## 6659          1          2    0.722849707
## 1945          1          2    0.722833407
## 2857          1          2    0.722820161
## 2700          1          2    0.722788840
## 2516          1          2    0.722781264
## 2647          1          2    0.722760111
## 2795          1          2    0.722751177
## 2855          1          2    0.722732873
## 1725          1          2    0.722685161
## 2190          1          2    0.722644240
## 1921          1          2    0.722636560
## 4800          1          2    0.722634900
```

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## 711          1          2    0.722613570
## 1625         1          2    0.722613292
## 1478         1          2    0.722611974
## 1016         1          2    0.722592297
## 2385         1          2    0.722558620
## 894          1          2    0.722550982
## 2500         1          2    0.722543079
## 1404         1          2    0.722538795
## 2699         1          2    0.722534623
## 2619         1          2    0.722513767
## 2765         1          2    0.722507476
## 1671         1          2    0.722506229
## 1584         1          2    0.722496341
## 1004         1          2    0.722478854
## 1717         1          2    0.722468374
## 5088         1          2    0.722467754
## 2826         1          2    0.722463073
## 1559         1          2    0.722435554
## 2976         1          2    0.722425406
## 3290         1          2    0.722421856
## 23123        1          2    0.722393835
## 23656        1          2    0.722388893
## 2841         1          2    0.722375826
## 978          1          2    0.722372371
## 1018         1          2    0.722365368
## 1003         1          2    0.722361466
## 1974         1          2    0.722358412
## 3999         1          2    0.722358412
## 899          1          2    0.722355292
## 3179         1          2    0.722350361
## 1109         1          2    0.722349707
## 5015         1          2    0.722337705
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## 2508         1          2    0.722306523
## 2630         1          2    0.722284073
## 1806         1          2    0.722281821
## 2634         1          2    0.722280246
## 1756         1          2    0.722253322
## 1587         1          2    0.722209229
## 2956         1          2    0.722208044
## 1347         1          2    0.722192881
## 1080         1          2    0.722191153
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## 3004         1          2    0.722160990
## 22104        1          2    0.722160898
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## 5125         1          2    0.722086114
## 2775         1          2    0.722074691
## 2160         1          2    0.722072863
## 2446         1          2    0.722042983
## 594          1          2    0.722012804
## 797          1          2    0.721985008
```

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## 5259          1        2   0.721981307
## 918           1        2   0.721959078
## 783           1        2   0.721948185
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## 1081          1        2   0.721935524
## 22607         1        2   0.721917829
## 676           1        2   0.721901418
## 5426          1        2   0.721882789
## 1718          1        2   0.721879627
## 2716          1        2   0.721876709
## 981           1        2   0.721872736
## 2821          1        2   0.721866441
## 2282          1        2   0.721851727
## 2179          1        2   0.721843577
## 2388          1        2   0.721839808
## 2974          1        2   0.721820591
## 2420          1        2   0.721801573
## 3619          1        2   0.721797235
## 648           1        2   0.721793987
## 984           1        2   0.721785051
## 1006          1        2   0.721778600
## 2828          1        2   0.721774860
## 1407          1        2   0.721774076
## 5182          1        2   0.721769862
## 1800          1        2   0.721766439
## 2638          1        2   0.721759364
## 1286          1        2   0.721752525
## 5134          1        2   0.721746020
## 4805          1        2   0.721744591
## 2257          1        2   0.721733163
## 3433          1        2   0.721681616
## 2136          1        2   0.721673771
## 2075          1        2   0.721667988
## 5050          1        2   0.721661540
## 1287          1        2   0.721638839
## 1936          1        2   0.721636682
## 3161          1        2   0.721627404
## 6588          1        2   0.721614652
## 2937          1        2   0.721607625
## 3163          1        2   0.721572903
## 1012          1        2   0.721565028
## 2600          1        2   0.721559764
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## 2604          1        2   0.721504989
## 6395          1        2   0.721487387
## 2328          1        2   0.721371726
## 2907          1        2   0.721369617
## 2614          1        2   0.721358973
## 819           1        2   0.721353970
## 709           1        2   0.721337346
## 2425          1        2   0.721313517
## 1230          1        2   0.721231861
## 1298          1        2   0.721182352
## 784           1        2   0.721182287
```

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## 1432         1        2   0.721171181
## 867          1        2   0.721154871
## 3180         1        2   0.721144675
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## 3550         1        2   0.721134802
## 5365         1        2   0.721117360
## 1719         1        2   0.721090264
## 23403        1        2   0.721075294
## 3764         1        2   0.721033587
## 2344         1        2   0.721029196
## 2426         1        2   0.721025335
## 1384         1        2   0.721023055
## 2051         1        2   0.720995513
## 2310         1        2   0.720981252
## 2409         1        2   0.720962018
## 2006         1        2   0.720942459
## 5017         1        2   0.720928368
## 1492         1        2   0.720923580
## 3416         1        2   0.720897732
## 950          1        2   0.720887154
## 2383         1        2   0.720883669
## 2497         1        2   0.720867027
## 3167         1        2   0.720843554
## 2624         1        2   0.720833279
## 6379         1        2   0.720814126
## 6258         1        2   0.720771541
## 2608         1        2   0.720769211
## 6252         1        2   0.720740406
## 1523         1        2   0.720735360
## 2895         1        2   0.720734343
## 1843         1        2   0.720705244
## 3751         1        2   0.720668951
## 4246         1        2   0.720656084
## 1320         1        2   0.720618362
## 1108         1        2   0.720610367
## 2334         1        2   0.720592356
## 2668         1        2   0.720572008
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## 1883         1        2   0.720494069
## 2246         1        2   0.720494069
## 2695         1        2   0.720467985
## 1925         1        2   0.720419046
## 1284         1        2   0.720410026
## 1685         1        2   0.720409398
## 2693         1        2   0.720401786
## 1916         1        2   0.720388047
## 2610         1        2   0.720350901
## 1046         1        2   0.720342421
## 6585         1        2   0.720323663
## 2878         1        2   0.720318897
## 1439         1        2   0.720293117
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## 828          1        2   0.720260674
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```

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## 3956          1          2    0.720220429
## 2252          1          2    0.720200835
## 693           1          2    0.720199253
## 2636          1          2    0.720187473
## 912           1          2    0.720184166
## 2291          1          2    0.720160780
## 1568          1          2    0.720149538
## 1788          1          2    0.720149528
## 6124          1          2    0.720147061
## 2791          1          2    0.720120033
## 1981          1          2    0.720117723
## 8302          1          2    0.720110746
## 1272          1          2    0.720110480
## 2957          1          2    0.720104606
## 2710          1          2    0.720092941
## 1572          1          2    0.720084155
## 801           1          2    0.720079178
## 2601          1          2    0.720072501
## 1662          1          2    0.720046676
## 2553          1          2    0.720022012
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## 9040          1          2    0.720000111
## 2379          1          2    0.719999157
## 2112          1          2    0.719974770
## 2148          1          2    0.719956612
## 1711          1          2    0.719938213
## 3312          1          2    0.719929240
## 1479          1          2    0.719914994
## 2836          1          2    0.719896996
## 2372          1          2    0.719894355
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## 3419          1          2    0.719891935
## 1554          1          2    0.719888132
## 1293          1          2    0.719880564
## 1900          1          2    0.719874375
## 3000          1          2    0.719872324
## 4090          1          2    0.719872170
## 1550          1          2    0.719861375
## 4732          1          2    0.719859630
## 610           1          2    0.719851215
## 3322          1          2    0.719847969
## 2314          1          2    0.719817703
## 2477          1          2    0.719799810
## 1460          1          2    0.719793756
## 838           1          2    0.719791355
## 3599          1          2    0.719773786
## 1753          1          2    0.719769137
## 1989          1          2    0.719769137
## 1489          1          2    0.719750481
## 2438          1          2    0.719749923
## 2913          1          2    0.719719829
## 2633          1          2    0.719718204
## 2972          1          2    0.719700097
## 1162          1          2    0.719685771
```

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## 1084          1          2    0.719680876
## 1461          1          2    0.719614115
## 2743          1          2    0.719591468
## 2948          1          2    0.719582008
## 1123          1          2    0.719579553
## 4480          1          2    0.719574882
## 1437          1          2    0.719563757
## 3557          1          2    0.719561460
## 1869          1          2    0.719558044
## 1727          1          2    0.719555918
## 839           1          2    0.719545050
## 2167          1          2    0.719541552
## 2517          1          2    0.719530333
## 2607          1          2    0.719502491
## 863           1          2    0.719473551
## 2652          1          2    0.719454292
## 1506          1          2    0.719452981
## 2183          1          2    0.719401778
## 1120          1          2    0.719391764
## 982           1          2    0.719365001
## 1914          1          2    0.719355744
## 24001         1          2    0.719311239
## 921           1          2    0.719247244
## 5178          1          2    0.719212291
## 1938          1          2    0.719196722
## 3098          1          2    0.719189654
## 4310          1          2    0.719162165
## 1096          1          2    0.719154466
## 2554          1          2    0.719135081
## 1722          1          2    0.719123381
## 2045          1          2    0.719122096
## 2189          1          2    0.719071170
## 2669          1          2    0.719030391
## 1024          1          2    0.719029527
## 1857          1          2    0.719020652
## 1231          1          2    0.719015985
## 2757          1          2    0.719001132
## 2135          1          2    0.718994312
## 656           1          2    0.718961770
## 2234          1          2    0.718961020
## 2238          1          2    0.718933819
## 1093          1          2    0.718905048
## 1097          1          2    0.718888370
## 2595          1          2    0.718871800
## 1714          1          2    0.718854620
## 2058          1          2    0.718848196
## 660           1          2    0.718806871
## 5091          1          2    0.718801105
## 5263          1          2    0.718784938
## 1621          1          2    0.718778542
## 2810          1          2    0.718744548
## 843           1          2    0.718688817
## 2526          1          2    0.718643744
## 2266          1          2    0.718641616
```

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## 2905         1         2   0.718575948
## 5086         1         2   0.718563711
## 803          1         2   0.718506464
## 22102        1         2   0.718502505
## 2884         1         2   0.718470110
## 2068         1         2   0.718377469
## 3106         1         2   0.718370591
## 2578         1         2   0.718367019
## 3166         1         2   0.718365893
## 3108         1         2   0.718326110
## 2973         1         2   0.718317457
## 1793         1         2   0.718308839
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## 6471         1         2   0.718235928
## 6576         1         2   0.718228286
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## 2896         1         2   0.718171832
## 2686         1         2   0.718122425
## 1909         1         2   0.718119177
## 2673         1         2   0.718114190
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## 3861         1         2   0.718034213
## 6671         1         2   0.718029081
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## 1846         1         2   0.718026259
## 3181         1         2   0.717986816
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## 1028         1         2   0.717975544
## 1236         1         2   0.717974793
## 866          1         2   0.717972258
## 2251         1         2   0.717965504
## 5009         1         2   0.717947584
## 2807         1         2   0.717945685
## 3293         1         2   0.717937837
## 17484        1         2   0.717914263
## 2387         1         2   0.717907626
## 1266         1         2   0.717889007
## 5547         1         2   0.717889007
## 822          1         2   0.717874867
## 2747         1         2   0.717872624
## 1633         1         2   0.717870111
## 1520         1         2   0.717828510
## 2631         1         2   0.717825517
## 3480         1         2   0.717817581
## 781          1         2   0.717796474
## 1402         1         2   0.717791074
## 2258         1         2   0.717757522
```

```
## 3173          1          2    0.717747170
## 6382          1          2    0.717726156
## 686           1          2    0.717710659
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## 2072          1          2    0.717653793
## 2088          1          2    0.717647789
## 2009          1          2    0.717642896
## 2848          1          2    0.717630601
## 1308          1          2    0.717627418
## 2518          1          2    0.717595296
## 1398          1          2    0.717555425
## 835           1          2    0.717523256
## 3015          1          2    0.717521643
## 2953          1          2    0.717482341
## 1483          1          2    0.717467790
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## 3129          1          2    0.717406830
## 1305          1          2    0.717382852
## 4801          1          2    0.717375425
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## 550           1          2    0.717253091
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## 1303          1          2    0.717166364
## 2570          1          2    0.717143004
## 1724          1          2    0.717132856
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## 23469         1          2    0.717130301
## 2627          1          2    0.717098203
## 1723          1          2    0.717081932
## 3096          1          2    0.717074422
## 1369          1          2    0.717048546
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## 2451          1          2    0.717019951
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## 2567          1          2    0.716978663
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## 2585          1          2    0.716940179
## 568           1          2    0.716900171
## 2090          1          2    0.716887873
## 2147          1          2    0.716877917
## 864           1          2    0.716870528
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## 1307          1          2    0.716804064
## 1902          1          2    0.716786676
## 2536          1          2    0.716782858
## 3168          1          2    0.716686298
## 4731          1          2    0.716641051
```

```
## 1997          1         2  0.716637677
## 1227          1         2  0.716633217
## 955           1         2  0.716620279
## 778           1         2  0.716601982
## 1575          1         2  0.716580576
## 4798          1         2  0.716580576
## 1121          1         2  0.716576036
## 3563          1         2  0.716544700
## 780           1         2  0.716526810
## 2393          1         2  0.716521187
## 818           1         2  0.716504187
## 1309          1         2  0.716492161
## 2503          1         2  0.716462870
## 1990          1         2  0.716462406
## 2723          1         2  0.716430126
## 2052          1         2  0.716428910
## 1410          1         2  0.716419214
## 1242          1         2  0.716416215
## 785           1         2  0.716374820
## 2617          1         2  0.716334923
## 862           1         2  0.716327152
## 2332          1         2  0.716325754
## 1481          1         2  0.716314102
## 2405          1         2  0.716294787
## 2653          1         2  0.716294727
## 4252          1         2  0.716257207
## 2060          1         2  0.716251346
## 6479          1         2  0.716250200
## 1582          1         2  0.716249681
## 3414          1         2  0.716221442
## 1034          1         2  0.716216686
## 2499          1         2  0.716207057
## 2618          1         2  0.716204517
## 2280          1         2  0.716190302
## 2822          1         2  0.716171257
## 3958          1         2  0.716141706
## 713           1         2  0.716128888
## 3327          1         2  0.716128888
## 4002          1         2  0.716116274
## 2364          1         2  0.716072409
## 6469          1         2  0.716068805
## 1491          1         2  0.716016784
## 2164          1         2  0.716010978
## 2017          1         2  0.715984564
## 6663          1         2  0.715965260
## 2873          1         2  0.715939408
## 1226          1         2  0.715936044
## 2398          1         2  0.715928006
## 2667          1         2  0.715888329
## 1007          1         2  0.715886800
## 2645          1         2  0.715872182
## 3105          1         2  0.715816128
## 3055          1         2  0.715809601
## 4449          1         2  0.715768588
```

```
## 3107          1        2    0.715764532
## 2513          1        2    0.715737769
## 6633          1        2    0.715719551
## 1013          1        2    0.715703260
## 2975          1        2    0.715703231
## 4428          1        2    0.715702116
## 3755          1        2    0.715694933
## 1721          1        2    0.715691001
## 1758          1        2    0.715691001
## 804           1        2    0.715627919
## 3065          1        2    0.715626685
## 18076         1        2    0.715625494
## 844           1        2    0.715598887
## 5363          1        2    0.715577456
## 5364          1        2    0.715561466
## 5257          1        2    0.715499918
## 1713          1        2    0.715466413
## 1017          1        2    0.715463529
## 1039          1        2    0.715443130
## 657           1        2    0.715429579
## 1380          1        2    0.715396098
## 530           1        2    0.715381815
## 1736          1        2    0.715371727
## 1157          1        2    0.715359881
## 609           1        2    0.715355487
## 1548          1        2    0.715311611
## 2583          1        2    0.715300791
## 1848          1        2    0.715288311
## 5016          1        2    0.715226290
## 2222          1        2    0.715224277
## 612           1        2    0.715216383
## 1270          1        2    0.715168842
## 837           1        2    0.715146565
## 1551          1        2    0.715129255
## 2221          1        2    0.715095695
## 1245          1        2    0.715020804
## 1129          1        2    0.715012910
## 1865          1        2    0.715012898
## 2414          1        2    0.714977923
## 2883          1        2    0.714962658
## 2063          1        2    0.714957254
## 2237          1        2    0.714950575
## 3101          1        2    0.714937337
## 661           1        2    0.714930978
## 3070          1        2    0.714924715
## 2212          1        2    0.714879984
## 579           1        2    0.714858177
## 542           1        2    0.714832630
## 1580          1        2    0.714805741
## 2023          1        2    0.714787277
## 3112          1        2    0.714778599
## 2001          1        2    0.714770273
## 2949          1        2    0.714757515
## 3478          1        2    0.714727116
```

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## 4723          1          2    0.714687860
## 2622          1          2    0.714641475
## 1703          1          2    0.714599215
## 3276          1          2    0.714594197
## 4794          1          2    0.714578748
## 3069          1          2    0.714577233
## 3245          1          2    0.714574747
## 1776          1          2    0.714548703
## 2475          1          2    0.714524933
## 5008          1          2    0.714509858
## 897           1          2    0.714508845
## 2722          1          2    0.714508336
## 4803          1          2    0.714483742
## 1183          1          2    0.714475783
## 757           1          2    0.714473719
## 1276          1          2    0.714473628
## 1300          1          2    0.714469646
## 5269          1          2    0.714461629
## 1840          1          2    0.714387166
## 3155          1          2    0.714338815
## 2103          1          2    0.714338024
## 1970          1          2    0.714335839
## 777           1          2    0.714327609
## 5090          1          2    0.714325072
## 3115          1          2    0.714318425
## 1192          1          2    0.714317256
## 2418          1          2    0.714314115
## 802           1          2    0.714304047
## 6169          1          2    0.714304001
## 6668          1          2    0.714284884
## 4806          1          2    0.714276295
## 513           1          2    0.714267156
## 2851          1          2    0.714256258
## 2715          1          2    0.714244197
## 531           1          2    0.714239081
## 2079          1          2    0.714213261
## 2598          1          2    0.714203101
## 2507          1          2    0.714190465
## 2471          1          2    0.714178162
## 2940          1          2    0.714160063
## 976           1          2    0.714142143
## 3119          1          2    0.714133466
## 8926          1          2    0.714133344
## 2606          1          2    0.714126970
## 4727          1          2    0.714108683
## 3008          1          2    0.714089799
## 2840          1          2    0.714080079
## 2842          1          2    0.714080079
## 3086          1          2    0.714073303
## 1387          1          2    0.714060246
## 2261          1          2    0.714051253
## 545           1          2    0.714029984
## 2453          1          2    0.714022422
## 1229          1          2    0.713987453
```

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## 2664          1          2    0.713960051
## 2082          1          2    0.713928653
## 1769          1          2    0.713899194
## 2203          1          2    0.713878534
## 2893          1          2    0.713856762
## 1224          1          2    0.713844100
## 3378          1          2    0.713835949
## 1015          1          2    0.713824733
## 659           1          2    0.713822947
## 3140          1          2    0.713818549
## 1401          1          2    0.713803056
## 2655          1          2    0.713799024
## 5258          1          2    0.713761228
## 2746          1          2    0.713695143
## 2587          1          2    0.713661834
## 4912          1          2    0.713661075
## 1376          1          2    0.713658800
## 2859          1          2    0.713649357
## 12914         1          2    0.713640328
## 3093          1          2    0.713631489
## 673           1          2    0.713624177
## 1606          1          2    0.713568805
## 922           1          2    0.713549990
## 2448          1          2    0.713546984
## 1750          1          2    0.713540258
## 861           1          2    0.713522124
## 2319          1          2    0.713512316
## 1190          1          2    0.713492837
## 512           1          2    0.713451479
## 3718          1          2    0.713440268
## 3342          1          2    0.713431842
## 2681          1          2    0.713426463
## 4945          1          2    0.713386566
## 714           1          2    0.713332834
## 1288          1          2    0.713318080
## 589           1          2    0.713318067
## 3483          1          2    0.713306553
## 814           1          2    0.713299849
## 706           1          2    0.713273984
## 1180          1          2    0.713253812
## 2509          1          2    0.713245108
## 1151          1          2    0.713244912
## 1598          1          2    0.713204917
## 1111          1          2    0.713203579
## 788           1          2    0.713203164
## 2346          1          2    0.713195957
## 3343          1          2    0.713178338
## 2783          1          2    0.713175105
## 1438          1          2    0.713158513
## 1091          1          2    0.713150023
## 2941          1          2    0.713145334
## 5943          1          2    0.713127316
## 4724          1          2    0.713100152
## 647           1          2    0.713096560
```

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## 1094          1          2    0.713091333
## 3291          1          2    0.713087116
## 3207          1          2    0.713039584
## 650           1          2    0.713033405
## 3031          1          2    0.713024278
## 1088          1          2    0.712987984
## 2194          1          2    0.712985995
## 2688          1          2    0.712924807
## 1512          1          2    0.712887316
## 1852          1          2    0.712841288
## 5181          1          2    0.712839094
## 2419          1          2    0.712825333
## 1296          1          2    0.712824930
## 2198          1          2    0.712807154
## 2108          1          2    0.712792784
## 1306          1          2    0.712773019
## 5533          1          2    0.712760298
## 3379          1          2    0.712694015
## 1555          1          2    0.712641919
## 2134          1          2    0.712626795
## 1480          1          2    0.712609437
## 1752          1          2    0.712596230
## 826           1          2    0.712580145
## 1905          1          2    0.712565860
## 2247          1          2    0.712537949
## 6333          1          2    0.712526490
## 4010          1          2    0.712509770
## 1277          1          2    0.712505770
## 2868          1          2    0.712481548
## 3067          1          2    0.712436414
## 6667          1          2    0.712421809
## 2459          1          2    0.712385908
## 3007          1          2    0.712282090
## 821           1          2    0.712274890
## 6574          1          2    0.712243980
## 2965          1          2    0.712224440
## 2239          1          2    0.712199438
## 1827          1          2    0.712187218
## 2242          1          2    0.712177289
## 6575          1          2    0.712172541
## 2964          1          2    0.712172126
## 2400          1          2    0.712162140
## 1766          1          2    0.712131362
## 1602          1          2    0.712119343
## 1739          1          2    0.712084892
## 2750          1          2    0.712081931
## 2589          1          2    0.712078380
## 903           1          2    0.712040167
## 1691          1          2    0.712027959
## 2850          1          2    0.711999824
## 2142          1          2    0.711984316
## 1184          1          2    0.711973914
## 3447          1          2    0.711926734
## 1818          1          2    0.711919997
```

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## 5526          1      2    0.711911821
## 2621          1      2    0.711888275
## 22608         1      2    0.711877583
## 1243          1      2    0.711868362
## 5530          1      2    0.711863980
## 1841          1      2    0.711788195
## 1082          1      2    0.711783835
## 651           1      2    0.711749361
## 887           1      2    0.711722350
## 1969          1      2    0.711697602
## 949           1      2    0.711684044
## 1318          1      2    0.711632830
## 1323          1      2    0.711620263
## 1777          1      2    0.711593073
## 432           1      2    0.711562415
## 860           1      2    0.711560695
## 1220          1      2    0.711492614
## 3742          1      2    0.711491873
## 968           1      2    0.711444451
## 3130          1      2    0.711436617
## 901           1      2    0.711435721
## 703           1      2    0.711419937
## 2657          1      2    0.711414226
## 1222          1      2    0.711396526
## 4940          1      2    0.711392264
## 891           1      2    0.711390777
## 886           1      2    0.711385981
## 2651          1      2    0.711375343
## 2625          1      2    0.711297936
## 2154          1      2    0.711250618
## 902           1      2    0.711248504
## 1187          1      2    0.711212311
## 4796          1      2    0.711185156
## 2397          1      2    0.711132380
## 695           1      2    0.711112654
## 1341          1      2    0.711067688
## 963           1      2    0.711061149
## 1232          1      2    0.711053763
## 3116          1      2    0.711028011
## 2677          1      2    0.711020794
## 1299          1      2    0.711002762
## 1218          1      2    0.710986702
## 1078          1      2    0.710965855
## 2779          1      2    0.710965387
## 702           1      2    0.710964465
## 551           1      2    0.710958666
## 3143          1      2    0.710957320
## 6255          1      2    0.710931909
## 1252          1      2    0.710915485
## 3113          1      2    0.710911385
## 2787          1      2    0.710897650
## 3240          1      2    0.710885938
## 1349          1      2    0.710867601
## 500           1      2    0.710867511
```

```
## 881        1      2   0.710863514
## 4728       1      2   0.710853062
## 2213       1      2   0.710845549
## 2581       1      2   0.710841935
## 553        1      2   0.710840456
## 2763       1      2   0.710835023
## 1273       1      2   0.710779585
## 1235       1      2   0.710770429
## 858        1      2   0.710769244
## 2682       1      2   0.710755853
## 21349      1      2   0.710753616
## 675        1      2   0.710734597
## 1035       1      2   0.710734597
## 21348      1      2   0.710713108
## 1281       1      2   0.710712807
## 1275       1      2   0.710708367
## 3606       1      2   0.710691741
## 1518       1      2   0.710686145
## 1858       1      2   0.710681269
## 3110       1      2   0.710677192
## 824        1      2   0.710661220
## 707        1      2   0.710634074
## 3085       1      2   0.710610684
## 939        1      2   0.710604298
## 1377       1      2   0.710580087
## 1924       1      2   0.710567029
## 3931       1      2   0.710545014
## 2891       1      2   0.710510182
## 793        1      2   0.710506631
## 2018       1      2   0.710484545
## 2781       1      2   0.710471662
## 884        1      2   0.710461483
## 22315      1      2   0.710422222
## 2944       1      2   0.710408978
## 2512       1      2   0.710386210
## 5268       1      2   0.710346002
## 4001       1      2   0.710296229
## 888        1      2   0.710281246
## 4088       1      2   0.710267599
## 7076       1      2   0.710257806
## 2860       1      2   0.710251470
## 2104       1      2   0.710237273
## 3441       1      2   0.710236733
## 3099       1      2   0.710234411
## 5548       1      2   0.710220071
## 1780       1      2   0.710177585
## 5670       1      2   0.710174189
## 7075       1      2   0.710133712
## 829        1      2   0.710118260
## 1315       1      2   0.710116199
## 2804       1      2   0.710080110
## 2461       1      2   0.710070487
## 2977       1      2   0.710065633
## 2580       1      2   0.710059624
```

```
## 2354          1          2    0.710013995
## 2792          1          2    0.710013395
## 508           1          2    0.710000795
## 1048          1          2    0.709990367
## 2979          1          2    0.709970519
## 2547          1          2    0.709924170
## 2711          1          2    0.709902379
## 1515          1          2    0.709883149
## 2382          1          2    0.709882088
## 11680         1          2    0.709854366
## 708           1          2    0.709847094
## 2670          1          2    0.709828523
## 3269          1          2    0.709817096
## 1409          1          2    0.709750290
## 13891         1          2    0.709712288
## 1563          1          2    0.709709019
## 2329          1          2    0.709703195
## 3332          1          2    0.709695789
## 3959          1          2    0.709681090
## 597           1          2    0.709663541
## 1189          1          2    0.709663541
## 5649          1          2    0.709660641
## 2772          1          2    0.709659933
## 5651          1          2    0.709647070
## 565           1          2    0.709642629
## 4653          1          2    0.709631636
## 1440          1          2    0.709617818
## 3032          1          2    0.709604254
## 2263          1          2    0.709588841
## 1751          1          2    0.709585782
## 2376          1          2    0.709556178
## 2908          1          2    0.709536064
## 2881          1          2    0.709530044
## 756           1          2    0.709490259
## 1817          1          2    0.709469018
## 940           1          2    0.709462832
## 2384          1          2    0.709460149
## 3323          1          2    0.709427070
## 5183          1          2    0.709414630
## 2428          1          2    0.709399578
## 613           1          2    0.709370270
## 2889          1          2    0.709365264
## 812           1          2    0.709332631
## 840           1          2    0.709325031
## 1217          1          2    0.709292429
## 2854          1          2    0.709291239
## 1469          1          2    0.709284045
## 3721          1          2    0.709270331
## 3306          1          2    0.709263792
## 745           1          2    0.709257825
## 2687          1          2    0.709257561
## 7228          1          2    0.709239548
## 672           1          2    0.709212413
## 961           1          2    0.709208147
```

```
## 1133            1            2    0.709175937
## 662             1            2    0.709132102
## 3184            1            2    0.709127036
## 1375            1            2    0.709083334
## 5001            1            2    0.709078711
## 2999            1            2    0.709076376
## 3381            1            2    0.709007010
## 2106            1            2    0.708982681
## 3068            1            2    0.708893521
## 3131            1            2    0.708893521
## 2888            1            2    0.708739881
## 1025            1            2    0.708707371
## 2197            1            2    0.708695592
## 3084            1            2    0.708690193
## 1000            1            2    0.708648796
## 1901            1            2    0.708643338
## 2691            1            2    0.708548484
## 1191            1            2    0.708472441
## 1304            1            2    0.708461519
## 908             1            2    0.708446358
## 1104            1            2    0.708401772
## 1085            1            2    0.708394786
## 1302            1            2    0.708393115
## 5170            1            2    0.708383760
## 1346            1            2    0.708364290
## 1248            1            2    0.708358324
## 1716            1            2    0.708350702
## 3145            1            2    0.708345803
## 22314           1            2    0.708326138
## 2501            1            2    0.708308714
## 1223            1            2    0.708303458
## 4606            1            2    0.708292131
## 941             1            2    0.708253319
## 2521            1            2    0.708248307
## 2962            1            2    0.708234642
## 909             1            2    0.708225757
## 1372            1            2    0.708216484
## 2902            1            2    0.708213259
## 556             1            2    0.708210385
## 3600            1            2    0.708179875
## 3079            1            2    0.708178898
## 2986            1            2    0.708170351
## 907             1            2    0.708133242
## 1001            1            2    0.708119342
## 399             1            2    0.708111244
## 3485            1            2    0.708101822
## 904             1            2    0.708099397
## 730             1            2    0.708089676
## 608             1            2    0.708086667
## 2834            1            2    0.708065359
## 2945            1            2    0.708025005
## 2347            1            2    0.708019652
## 411             1            2    0.708019427
## 516             1            2    0.707994358
```

```
## 1193        1         2   0.707981522
## 2036        1         2   0.707956690
## 1099        1         2   0.707954772
## 2256        1         2   0.707901083
## 2862        1         2   0.707886724
## 1782        1         2   0.707883998
## 4799        1         2   0.707839223
## 2482        1         2   0.707826880
## 5295        1         2   0.707774454
## 22586       1         2   0.707748141
## 1392        1         2   0.707614678
## 2925        1         2   0.707609663
## 2602        1         2   0.707605993
## 2654        1         2   0.707526713
## 1561        1         2   0.707514219
## 2994        1         2   0.707486044
## 773         1         2   0.707470819
## 3020        1         2   0.707423849
## 1973        1         2   0.707406673
## 2403        1         2   0.707389685
## 1992        1         2   0.707344894
## 2978        1         2   0.707316227
## 3046        1         2   0.707316098
## 3334        1         2   0.707273484
## 2786        1         2   0.707220096
## 5260        1         2   0.707219206
## 1673        1         2   0.707182379
## 2543        1         2   0.707177895
## 2751        1         2   0.707142256
## 6394        1         2   0.707113146
## 1246        1         2   0.707098234
## 1216        1         2   0.707077183
## 3564        1         2   0.707030794
## 2683        1         2   0.707012529
## 1122        1         2   0.707009936
## 1493        1         2   0.707007525
## 2748        1         2   0.706975903
## 1332        1         2   0.706972367
## 582         1         2   0.706970707
## 1519        1         2   0.706966197
## 1075        1         2   0.706953893
## 3103        1         2   0.706946544
## 24002       1         2   0.706932316
## 2312        1         2   0.706926352
## 2756        1         2   0.706919862
## 2168        1         2   0.706909469
## 2983        1         2   0.706898996
## 834         1         2   0.706884245
## 1042        1         2   0.706876515
## 957         1         2   0.706811023
## 923         1         2   0.706808565
## 431         1         2   0.706808449
## 2016        1         2   0.706802510
## 1557        1         2   0.706778594
```

```
## 792            1          2   0.706774637
## 1373           1          2   0.706754708
## 5654           1          2   0.706742161
## 566            1          2   0.706697247
## 859            1          2   0.706659094
## 1159           1          2   0.706615247
## 954            1          2   0.706604716
## 3475           1          2   0.706603000
## 2061           1          2   0.706567436
## 807            1          2   0.706529257
## 1552           1          2   0.706520117
## 1259           1          2   0.706482218
## 2837           1          2   0.706444671
## 2784           1          2   0.706439059
## 855            1          2   0.706419653
## 518            1          2   0.706415704
## 2811           1          2   0.706383287
## 2311           1          2   0.706370388
## 1539           1          2   0.706351184
## 1957           1          2   0.706328427
## 5127           1          2   0.706326583
## 2762           1          2   0.706314419
## 2703           1          2   0.706307043
## 999            1          2   0.706303392
## 2267           1          2   0.706301355
## 674            1          2   0.706285402
## 1495           1          2   0.706242322
## 3325           1          2   0.706239141
## 1639           1          2   0.706234479
## 607            1          2   0.706224820
## 2064           1          2   0.706219047
## 3220           1          2   0.706128023
## 1547           1          2   0.706121565
## 1715           1          2   0.706103831
## 4089           1          2   0.706099637
## 970            1          2   0.706095470
## 1371           1          2   0.706063587
## 1915           1          2   0.706014926
## 5128           1          2   0.706010551
## 1965           1          2   0.705991078
## 2532           1          2   0.705985630
## 2363           1          2   0.705930494
## 1763           1          2   0.705830790
## 3196           1          2   0.705828918
## 4500           1          2   0.705825956
## 1757           1          2   0.705823115
## 917            1          2   0.705822722
## 544            1          2   0.705818405
## 5267           1          2   0.705800892
## 3214           1          2   0.705788022
## 5176           1          2   0.705743896
## 1128           1          2   0.705720307
## 3872           1          2   0.705702266
## 5190           1          2   0.705697603
```

```
## 1112          1        2   0.705692292
## 1076          1        2   0.705686228
## 5488          1        2   0.705661279
## 2069          1        2   0.705658940
## 3192          1        2   0.705655568
## 2812          1        2   0.705655426
## 1182          1        2   0.705647710
## 2835          1        2   0.705642291
## 3154          1        2   0.705640733
## 1214          1        2   0.705624298
## 2922          1        2   0.705619290
## 3114          1        2   0.705617741
## 2758          1        2   0.705610532
## 552           1        2   0.705561373
## 677           1        2   0.705536794
## 7232          1        2   0.705521261
## 4595          1        2   0.705505531
## 882           1        2   0.705481036
## 2047          1        2   0.705467061
## 1522          1        2   0.705443825
## 2785          1        2   0.705417420
## 2156          1        2   0.705415501
## 786           1        2   0.705415158
## 418           1        2   0.705403984
## 414           1        2   0.705373227
## 2672          1        2   0.705372316
## 1158          1        2   0.705369009
## 494           1        2   0.705365207
## 3389          1        2   0.705352428
## 670           1        2   0.705352170
## 680           1        2   0.705346888
## 1538          1        2   0.705344262
## 2671          1        2   0.705342878
## 7378          1        2   0.705325975
## 3385          1        2   0.705320636
## 1427          1        2   0.705306361
## 1148          1        2   0.705298408
## 3601          1        2   0.705291927
## 466           1        2   0.705283500
## 1416          1        2   0.705281696
## 2390          1        2   0.705278194
## 2558          1        2   0.705237012
## 2934          1        2   0.705143107
## 3743          1        2   0.705129192
## 12845         1        2   0.705126676
## 3604          1        2   0.705110710
## 474           1        2   0.705091681
## 854           1        2   0.705083652
## 7379          1        2   0.705059445
## 1536          1        2   0.705037938
## 6133          1        2   0.705033962
## 3210          1        2   0.705011274
## 604           1        2   0.704989787
## 2125          1        2   0.704984040
```

```
## 499           1           2   0.704965954
## 2542          1           2   0.704965259
## 1791          1           2   0.704952167
## 853           1           2   0.704947141
## 410           1           2   0.704923678
## 942           1           2   0.704906505
## 492           1           2   0.704902237
## 503           1           2   0.704896727
## 3383          1           2   0.704875517
## 4651          1           2   0.704853717
## 416           1           2   0.704844510
## 2492          1           2   0.704830506
## 4166          1           2   0.704805107
## 2077          1           2   0.704778702
## 6126          1           2   0.704760571
## 4052          1           2   0.704679023
## 2875          1           2   0.704562351
## 790           1           2   0.704495386
## 1426          1           2   0.704461286
## 5261          1           2   0.704434681
## 1136          1           2   0.704392502
## 3296          1           2   0.704382648
## 2350          1           2   0.704374303
## 4802          1           2   0.704358056
## 667           1           2   0.704349672
## 1143          1           2   0.704328170
## 1228          1           2   0.704304068
## 1570          1           2   0.704283838
## 3279          1           2   0.704279984
## 3054          1           2   0.704252839
## 5129          1           2   0.704209337
## 4730          1           2   0.704207575
## 5296          1           2   0.704187211
## 7224          1           2   0.704179161
## 2564          1           2   0.704169976
## 5669          1           2   0.704158839
## 2904          1           2   0.704146444
## 514           1           2   0.704137269
## 1156          1           2   0.704091654
## 669           1           2   0.704083745
## 395           1           2   0.704064717
## 3193          1           2   0.704041073
## 2096          1           2   0.704015091
## 2931          1           2   0.703984602
## 3204          1           2   0.703944298
## 2825          1           2   0.703929338
## 2098          1           2   0.703904783
## 5256          1           2   0.703883360
## 2269          1           2   0.703868789
## 398           1           2   0.703786889
## 1485          1           2   0.703768767
## 417           1           2   0.703767534
## 2248          1           2   0.703749024
## 5360          1           2   0.703741189
```

```
## 2215        1        2    0.703629988
## 3134        1        2    0.703626462
## 800         1        2    0.703582784
## 2817        1        2    0.703574430
## 555         1        2    0.703563562
## 2806        1        2    0.703550530
## 965         1        2    0.703523999
## 3308        1        2    0.703507977
## 5083        1        2    0.703502731
## 715         1        2    0.703489332
## 3271        1        2    0.703474631
## 2894        1        2    0.703471792
## 808         1        2    0.703463461
## 2924        1        2    0.703411077
## 2176        1        2    0.703393241
## 2639        1        2    0.703324933
## 2920        1        2    0.703315129
## 1565        1        2    0.703281445
## 3118        1        2    0.703277624
## 1537        1        2    0.703249813
## 2307        1        2    0.703246934
## 1447        1        2    0.703198704
## 1985        1        2    0.703166029
## 2615        1        2    0.703163722
## 4232        1        2    0.703155389
## 2665        1        2    0.703150223
## 2292        1        2    0.703148302
## 5189        1        2    0.703090533
## 2995        1        2    0.703053220
## 400         1        2    0.703046084
## 1325        1        2    0.703024836
## 3280        1        2    0.702972929
## 1998        1        2    0.702972604
## 3423        1        2    0.702925732
## 24329       1        2    0.702914582
## 3092        1        2    0.702881282
## 2201        1        2    0.702877434
## 3194        1        2    0.702853140
## 7303        1        2    0.702811392
## 4832        1        2    0.702745350
## 3409        1        2    0.702712192
## 775         1        2    0.702702177
## 3109        1        2    0.702679328
## 1254        1        2    0.702662540
## 1837        1        2    0.702630914
## 4481        1        2    0.702628412
## 470         1        2    0.702585131
## 1720        1        2    0.702579948
## 1009        1        2    0.702562235
## 3436        1        2    0.702556153
## 3655        1        2    0.702544216
## 1487        1        2    0.702510570
## 5119        1        2    0.702504458
## 1896        1        2    0.702483134
```

```
## 1545          1          2   0.702413937
## 813           1          2   0.702409285
## 6810          1          2   0.702402171
## 2298          1          2   0.702398508
## 3772          1          2   0.702360677
## 688           1          2   0.702354731
## 3437          1          2   0.702350111
## 1116          1          2   0.702329427
## 2313          1          2   0.702236690
## 789           1          2   0.702218221
## 900           1          2   0.702199202
## 947           1          2   0.702185546
## 408           1          2   0.702172591
## 1026          1          2   0.702117271
## 2560          1          2   0.702111963
## 1113          1          2   0.702100806
## 541           1          2   0.702085791
## 606           1          2   0.702044545
## 2080          1          2   0.702040437
## 1468          1          2   0.701974553
## 795           1          2   0.701964683
## 1898          1          2   0.701957172
## 1425          1          2   0.701927209
## 1378          1          2   0.701920178
## 1289          1          2   0.701898612
## 485           1          2   0.701875605
## 5180          1          2   0.701829038
## 475           1          2   0.701824237
## 852           1          2   0.701817106
## 2114          1          2   0.701797258
## 3411          1          2   0.701772354
## 7235          1          2   0.701759315
## 2909          1          2   0.701758438
## 436           1          2   0.701756176
## 10529         1          2   0.701751224
## 2996          1          2   0.701750445
## 3656          1          2   0.701735859
## 1541          1          2   0.701722521
## 7221          1          2   0.701716522
## 654           1          2   0.701714534
## 476           1          2   0.701705525
## 1821          1          2   0.701697282
## 443           1          2   0.701623291
## 1379          1          2   0.701622527
## 4406          1          2   0.701614974
## 372           1          2   0.701570550
## 1624          1          2   0.701554583
## 1904          1          2   0.701532282
## 770           1          2   0.701505175
## 700           1          2   0.701501815
## 701           1          2   0.701499508
## 3149          1          2   0.701498343
## 502           1          2   0.701488245
## 1839          1          2   0.701438860
```

```
## 678       1       2   0.701434887
## 1221      1       2   0.701434783
## 3314      1       2   0.701433617
## 1726      1       2   0.701426163
## 1312      1       2   0.701421750
## 1311      1       2   0.701419783
## 846       1       2   0.701383877
## 2117      1       2   0.701359913
## 3066      1       2   0.701341360
## 1654      1       2   0.701316486
## 791       1       2   0.701315087
## 442       1       2   0.701300098
## 1118      1       2   0.701275122
## 2498      1       2   0.701256866
## 1033      1       2   0.701254160
## 2808      1       2   0.701245501
## 2752      1       2   0.701237914
## 1188      1       2   0.701236494
## 2933      1       2   0.701219955
## 2561      1       2   0.701212470
## 692       1       2   0.701206488
## 2969      1       2   0.701202470
## 911       1       2   0.701198766
## 3723      1       2   0.701189446
## 3083      1       2   0.701162672
## 810       1       2   0.701137406
## 3244      1       2   0.701111336
## 7225      1       2   0.701108365
## 3349      1       2   0.701103655
## 2116      1       2   0.701097897
## 3273      1       2   0.701097420
## 388       1       2   0.701065776
## 2887      1       2   0.701049322
## 3270      1       2   0.701029351
## 2255      1       2   0.700999455
## 599       1       2   0.700995396
## 538       1       2   0.700995153
## 913       1       2   0.700989277
## 4495      1       2   0.700971470
## 1370      1       2   0.700939521
## 5264      1       2   0.700915763
## 2434      1       2   0.700854440
## 2432      1       2   0.700826408
## 4829      1       2   0.700815401
## 2336      1       2   0.700794304
## 2730      1       2   0.700789214
## 2674      1       2   0.700787470
## 1778      1       2   0.700718147
## 3620      1       2   0.700712864
## 355       1       2   0.700700060
## 743       1       2   0.700666548
## 983       1       2   0.700649722
## 540       1       2   0.700644696
## 3027      1       2   0.700637738
```

```
## 1853          1          2    0.700577044
## 3137          1          2    0.700564187
## 671           1          2    0.700551730
## 3133          1          2    0.700507805
## 3395          1          2    0.700501251
## 4740          1          2    0.700487937
## 3135          1          2    0.700464686
## 3028          1          2    0.700452743
## 3121          1          2    0.700435645
## 4807          1          2    0.700434769
## 4250          1          2    0.700412484
## 3231          1          2    0.700411401
## 1400          1          2    0.700406395
## 3036          1          2    0.700374008
## 6472          1          2    0.700358863
## 1211          1          2    0.700352353
## 3283          1          2    0.700344767
## 1424          1          2    0.700331008
## 1363          1          2    0.700303026
## 4792          1          2    0.700292029
## 694           1          2    0.700278482
## 444           1          2    0.700247123
## 3006          1          2    0.700242777
## 2819          1          2    0.700146086
## 7305          1          2    0.700104452
## 3016          1          2    0.700104233
## 817           1          2    0.700070826
## 3363          1          2    0.700056469
## 969           1          2    0.700046957
## 3211          1          2    0.700027977
## 4097          1          2    0.700019198
## 2563          1          2    0.700018740
## 3602          1          2    0.700009813
## 3012          1          2    0.700008948
## 2394          1          2    0.700005023
## 1897          1          2    0.699977809
## 3543          1          2    0.699890175
## 1406          1          2    0.699817483
## 6381          1          2    0.699785936
## 1471          1          2    0.699666960
## 1137          1          2    0.699597282
## 3040          1          2    0.699563317
## 5087          1          2    0.699560152
## 3117          1          2    0.699475016
## 412           1          2    0.699461821
## 534           1          2    0.699421734
## 7012          1          2    0.699389988
## 3035          1          2    0.699357783
## 4804          1          2    0.699355865
## 3022          1          2    0.699354559
## 771           1          2    0.699325151
## 354           1          2    0.699319130
## 3052          1          2    0.699312270
## 348           1          2    0.699293225
```

```
## 3365          1          2    0.699272392
## 3257          1          2    0.699265130
## 5124          1          2    0.699261509
## 2733          1          2    0.699254584
## 645           1          2    0.699251217
## 1403          1          2    0.699250442
## 2831          1          2    0.699242282
## 3018          1          2    0.699242282
## 712           1          2    0.699219225
## 468           1          2    0.699159022
## 3360          1          2    0.699151185
## 2932          1          2    0.699135346
## 562           1          2    0.699135084
## 590           1          2    0.699123457
## 3454          1          2    0.699102219
## 845           1          2    0.699098925
## 1428          1          2    0.699034465
## 488           1          2    0.699012873
## 2954          1          2    0.698998988
## 1731          1          2    0.698983579
## 3719          1          2    0.698968986
## 668           1          2    0.698949587
## 3190          1          2    0.698908915
## 3401          1          2    0.698876845
## 6459          1          2    0.698875094
## 1729          1          2    0.698867500
## 22316         1          2    0.698864716
## 3256          1          2    0.698852171
## 3382          1          2    0.698823919
## 1002          1          2    0.698819054
## 6631          1          2    0.698814709
## 2559          1          2    0.698814333
## 304           1          2    0.698811397
## 2803          1          2    0.698806377
## 1354          1          2    0.698801267
## 1382          1          2    0.698793910
## 2177          1          2    0.698786704
## 1463          1          2    0.698747167
## 3422          1          2    0.698742662
## 2057          1          2    0.698722166
## 2611          1          2    0.698698489
## 1207          1          2    0.698698415
## 1145          1          2    0.698643826
## 3218          1          2    0.698634736
## 1163          1          2    0.698632607
## 6672          1          2    0.698614727
## 397           1          2    0.698603444
## 643           1          2    0.698594742
## 511           1          2    0.698549494
## 857           1          2    0.698549494
## 5169          1          2    0.698539488
## 2869          1          2    0.698534794
## 2892          1          2    0.698529954
## 2864          1          2    0.698505403
```

```
## 1361           1          2   0.698505315
## 2740           1          2   0.698478263
## 2138           1          2   0.698462195
## 2867           1          2   0.698441253
## 2317           1          2   0.698422810
## 883            1          2   0.698405128
## 3278           1          2   0.698395607
## 367            1          2   0.698382548
## 755            1          2   0.698358407
## 1256           1          2   0.698337164
## 865            1          2   0.698300253
## 7223           1          2   0.698297521
## 3056           1          2   0.698292460
## 477            1          2   0.698261393
## 483            1          2   0.698260445
## 303            1          2   0.698248970
## 3386           1          2   0.698207325
## 3029           1          2   0.698198808
## 3148           1          2   0.698146822
## 2591           1          2   0.698126737
## 1477           1          2   0.698083794
## 687            1          2   0.698082198
## 663            1          2   0.698050005
## 1540           1          2   0.698046654
## 434            1          2   0.698024841
## 1374           1          2   0.698018364
## 3361           1          2   0.697980695
## 710            1          2   0.697934318
## 22588          1          2   0.697932411
## 2991           1          2   0.697931981
## 3272           1          2   0.697929990
## 1368           1          2   0.697807140
## 4512           1          2   0.697801253
## 1155           1          2   0.697785046
## 3398           1          2   0.697753097
## 1544           1          2   0.697751965
## 3425           1          2   0.697748128
## 601            1          2   0.697664816
## 1429           1          2   0.697642652
## 1430           1          2   0.697601813
## 3412           1          2   0.697534808
## 1838           1          2   0.697513723
## 849            1          2   0.697513679
## 602            1          2   0.697501163
## 1362           1          2   0.697408167
## 389            1          2   0.697356550
## 539            1          2   0.697294592
## 393            1          2   0.697242014
## 962            1          2   0.697226902
## 560            1          2   0.697210925
## 3957           1          2   0.697210139
## 603            1          2   0.697205992
## 5126           1          2   0.697180912
## 1681           1          2   0.697176608
```

```
## 3442          1          2    0.697152521
## 2658          1          2    0.697123196
## 850           1          2    0.697063804
## 1110          1          2    0.697051440
## 1502          1          2    0.697047279
## 3542          1          2    0.697034826
## 841           1          2    0.697009252
## 2967          1          2    0.696971851
## 2980          1          2    0.696963351
## 4405          1          2    0.696942635
## 3281          1          2    0.696935300
## 600           1          2    0.696911797
## 1360          1          2    0.696897139
## 302           1          2    0.696846668
## 3146          1          2    0.696810192
## 497           1          2    0.696792582
## 2139          1          2    0.696754509
## 2847          1          2    0.696751071
## 2339          1          2    0.696727958
## 842           1          2    0.696725172
## 1356          1          2    0.696718523
## 744           1          2    0.696595979
## 1292          1          2    0.696542012
## 3011          1          2    0.696481379
## 3364          1          2    0.696449153
## 776           1          2    0.696447911
## 652           1          2    0.696427976
## 2534          1          2    0.696425410
## 3246          1          2    0.696419313
## 581           1          2    0.696394272
## 2643          1          2    0.696388711
## 3216          1          2    0.696365142
## 435           1          2    0.696364461
## 1814          1          2    0.696362764
## 469           1          2    0.696342926
## 5084          1          2    0.696315647
## 2845          1          2    0.696290646
## 2872          1          2    0.696285125
## 3443          1          2    0.696268242
## 2286          1          2    0.696255205
## 8470          1          2    0.696250582
## 2936          1          2    0.696165433
## 2367          1          2    0.696138752
## 2597          1          2    0.696129528
## 3048          1          2    0.696120486
## 7229          1          2    0.696101099
## 1542          1          2    0.696093275
## 3335          1          2    0.696085389
## 1291          1          2    0.696077004
## 4711          1          2    0.696018534
## 1219          1          2    0.695963873
## 906           1          2    0.695933124
## 3187          1          2    0.695916654
## 787           1          2    0.695908958
```

```
## 2809        1        2   0.695886741
## 3186        1        2   0.695878618
## 578         1        2   0.695868994
## 3697        1        2   0.695841726
## 820         1        2   0.695807444
## 1117        1        2   0.695804169
## 3215        1        2   0.695801186
## 683         1        2   0.695780850
## 2997        1        2   0.695756612
## 856         1        2   0.695750665
## 1891        1        2   0.695747704
## 366         1        2   0.695730258
## 699         1        2   0.695711441
## 567         1        2   0.695675815
## 1543        1        2   0.695653485
## 2971        1        2   0.695588058
## 2846        1        2   0.695586471
## 1186        1        2   0.695574158
## 3057        1        2   0.695569642
## 6460        1        2   0.695481355
## 724         1        2   0.695479302
## 1604        1        2   0.695440793
## 331         1        2   0.695423384
## 548         1        2   0.695414395
## 313         1        2   0.695409883
## 2824        1        2   0.695382039
## 3034        1        2   0.695321587
## 3605        1        2   0.695239112
## 421         1        2   0.695228497
## 3248        1        2   0.695226793
## 3319        1        2   0.695180550
## 2141        1        2   0.695174849
## 4939        1        2   0.695173523
## 3212        1        2   0.695143533
## 2429        1        2   0.695111100
## 1675        1        2   0.695092109
## 245         1        2   0.695086042
## 438         1        2   0.695075624
## 1504        1        2   0.695051754
## 478         1        2   0.695040230
## 7585        1        2   0.695021509
## 915         1        2   0.695005456
## 7227        1        2   0.695002671
## 7577        1        2   0.694983286
## 7582        1        2   0.694968049
## 297         1        2   0.694933678
## 1205        1        2   0.694877816
## 7576        1        2   0.694873513
## 3074        1        2   0.694867413
## 596         1        2   0.694865606
## 3078        1        2   0.694857814
## 1206        1        2   0.694841384
## 836         1        2   0.694840629
## 543         1        2   0.694840591
```

```
## 310          1        2    0.694779175
## 3326         1        2    0.694740107
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## 3232         1        2    0.694730003
## 1174         1        2    0.694728830
## 1358         1        2    0.694695353
## 3298         1        2    0.694665965
## 1353         1        2    0.694650650
## 1364         1        2    0.694641580
## 3678         1        2    0.694639546
## 6461         1        2    0.694574002
## 5019         1        2    0.694552340
## 406          1        2    0.694537752
## 4702         1        2    0.694503159
## 3465         1        2    0.694479164
## 403          1        2    0.694478920
## 851          1        2    0.694478242
## 3916         1        2    0.694463053
## 2764         1        2    0.694358470
## 3299         1        2    0.694308697
## 4014         1        2    0.694306352
## 241          1        2    0.694305551
## 288          1        2    0.694304230
## 3249         1        2    0.694304063
## 347          1        2    0.694297332
## 4650         1        2    0.694259567
## 2121         1        2    0.694211091
## 375          1        2    0.694206741
## 484          1        2    0.694194175
## 4249         1        2    0.694146062
## 3010         1        2    0.694113341
## 3397         1        2    0.694068617
## 439          1        2    0.694062793
## 580          1        2    0.694054212
## 3247         1        2    0.694039784
## 3388         1        2    0.694021847
## 6664         1        2    0.693937371
## 7444         1        2    0.693920401
## 3368         1        2    0.693916279
## 2320         1        2    0.693889357
## 1310         1        2    0.693870014
## 243          1        2    0.693826948
## 2582         1        2    0.693816025
## 3676         1        2    0.693799872
## 493          1        2    0.693791885
## 779          1        2    0.693730139
## 3013         1        2    0.693720449
## 505          1        2    0.693713623
## 554          1        2    0.693706247
## 3123         1        2    0.693695683
## 3775         1        2    0.693695683
## 1169         1        2    0.693669908
## 1019         1        2    0.693655303
## 3198         1        2    0.693653039
```

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## 585        1        2    0.693641702
## 1022       1        2    0.693624040
## 3471       1        2    0.693615124
## 3077       1        2    0.693614534
## 6809       1        2    0.693594481
## 1747       1        2    0.693593884
## 4251       1        2    0.693520769
## 3421       1        2    0.693513915
## 413        1        2    0.693500913
## 3501       1        2    0.693483471
## 655        1        2    0.693483357
## 523        1        2    0.693469114
## 682        1        2    0.693457390
## 1185       1        2    0.693455938
## 666        1        2    0.693444649
## 9128       1        2    0.693307773
## 7304       1        2    0.693292520
## 3089       1        2    0.693291986
## 2140       1        2    0.693253771
## 2886       1        2    0.693245921
## 2430       1        2    0.693217542
## 587        1        2    0.693179683
## 5011       1        2    0.693162278
## 2054       1        2    0.693156003
## 4652       1        2    0.693137853
## 592        1        2    0.693120629
## 4404       1        2    0.693103704
## 6477       1        2    0.693032758
## 3005       1        2    0.693009580
## 519        1        2    0.692963057
## 605        1        2    0.692940230
## 2830       1        2    0.692938684
## 1431       1        2    0.692874026
## 2843       1        2    0.692866524
## 2207       1        2    0.692844293
## 5121       1        2    0.692834814
## 1365       1        2    0.692832186
## 3628       1        2    0.692813253
## 3677       1        2    0.692800742
## 298        1        2    0.692791133
## 1359       1        2    0.692788219
## 7584       1        2    0.692782463
## 5671       1        2    0.692757995
## 4729       1        2    0.692673032
## 2008       1        2    0.692655031
## 324        1        2    0.692650151
## 1381       1        2    0.692638741
## 3195       1        2    0.692591761
## 1748       1        2    0.692578197
## 759        1        2    0.692568725
## 586        1        2    0.692550048
## 1176       1        2    0.692508271
## 3053       1        2    0.692491586
## 3413       1        2    0.692442281
```

```
## 3233          1          2   0.692429222
## 1171          1          2   0.692425999
## 1175          1          2   0.692401997
## 2007          1          2   0.692385847
## 653           1          2   0.692342379
## 314           1          2   0.692259437
## 3675          1          2   0.692253128
## 595           1          2   0.692243902
## 958           1          2   0.692167425
## 3380          1          2   0.692144736
## 3139          1          2   0.692112677
## 342           1          2   0.692090165
## 409           1          2   0.692031521
## 7572          1          2   0.691943381
## 7586          1          2   0.691923692
## 4012          1          2   0.691906529
## 2538          1          2   0.691859564
## 441           1          2   0.691828905
## 2537          1          2   0.691811652
## 5266          1          2   0.691806581
## 1771          1          2   0.691790645
## 2556          1          2   0.691698820
## 731           1          2   0.691696245
## 1119          1          2   0.691682354
## 353           1          2   0.691659473
## 739           1          2   0.691653745
## 2876          1          2   0.691644432
## 363           1          2   0.691599409
## 1201          1          2   0.691564204
## 5720          1          2   0.691559437
## 428           1          2   0.691547680
## 1385          1          2   0.691544976
## 274           1          2   0.691532487
## 3041          1          2   0.691506885
## 2938          1          2   0.691477888
## 2024          1          2   0.691470365
## 1105          1          2   0.691464422
## 3088          1          2   0.691461607
## 5807          1          2   0.691425447
## 1617          1          2   0.691425098
## 665           1          2   0.691402482
## 308           1          2   0.691389168
## 2270          1          2   0.691374234
## 658           1          2   0.691366002
## 1102          1          2   0.691338613
## 3230          1          2   0.691325466
## 723           1          2   0.691319434
## 1177          1          2   0.691313725
## 611           1          2   0.691297814
## 3120          1          2   0.691275486
## 521           1          2   0.691248171
## 948           1          2   0.691241256
## 794           1          2   0.691238486
## 446           1          2   0.691232248
```

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## 2877        1        2    0.691211273
## 1357        1        2    0.691200292
## 3324        1        2    0.691184588
## 914         1        2    0.691143835
## 823         1        2    0.691143354
## 3023        1        2    0.691134745
## 6199        1        2    0.691122008
## 387         1        2    0.691113938
## 419         1        2    0.691073559
## 7578        1        2    0.691073148
## 384         1        2    0.691065557
## 1744        1        2    0.691045650
## 3392        1        2    0.691038661
## 2605        1        2    0.691020280
## 2966        1        2    0.691001705
## 487         1        2    0.690999066
## 510         1        2    0.690982540
## 537         1        2    0.690978710
## 5089        1        2    0.690973045
## 3126        1        2    0.690964544
## 2678        1        2    0.690952679
## 689         1        2    0.690944134
## 341         1        2    0.690917360
## 3390        1        2    0.690915411
## 3370        1        2    0.690913909
## 1138        1        2    0.690912322
## 591         1        2    0.690896774
## 255         1        2    0.690889050
## 2599        1        2    0.690881302
## 447         1        2    0.690879841
## 6289        1        2    0.690875604
## 679         1        2    0.690871705
## 365         1        2    0.690866232
## 371         1        2    0.690863861
## 3648        1        2    0.690861711
## 1743        1        2    0.690851798
## 2759        1        2    0.690837258
## 1202        1        2    0.690815344
## 501         1        2    0.690810723
## 283         1        2    0.690708177
## 426         1        2    0.690667697
## 1745        1        2    0.690661686
## 3227        1        2    0.690514789
## 352         1        2    0.690513641
## 3090        1        2    0.690454037
## 3917        1        2    0.690453339
## 3362        1        2    0.690440420
## 3384        1        2    0.690417682
## 1749        1        2    0.690365968
## 1546        1        2    0.690345943
## 507         1        2    0.690304365
## 1505        1        2    0.690270800
## 698         1        2    0.690233572
## 2020        1        2    0.690220141
```

```
## 1396        1        2    0.690205350
## 3203        1        2    0.690197248
## 644         1        2    0.690193907
## 583         1        2    0.690161034
## 4229        1        2    0.690156684
## 704         1        2    0.690149924
## 1880        1        2    0.690135426
## 405         1        2    0.690049126
## 584         1        2    0.689997601
## 2038        1        2    0.689950820
## 945         1        2    0.689949214
## 427         1        2    0.689946538
## 890         1        2    0.689930907
## 738         1        2    0.689913328
## 479         1        2    0.689866874
## 433         1        2    0.689809237
## 242         1        2    0.689792656
## 1178        1        2    0.689773153
## 1212        1        2    0.689767262
## 24330       1        2    0.689697356
## 486         1        2    0.689634704
## 3576        1        2    0.689560894
## 735         1        2    0.689309140
## 1179        1        2    0.689304078
## 7784        1        2    0.689277058
## 1181        1        2    0.689265547
## 3157        1        2    0.689262113
## 910         1        2    0.689223966
## 509         1        2    0.689221705
## 1301        1        2    0.689206102
## 944         1        2    0.689195292
## 3111        1        2    0.689167102
## 3540        1        2    0.689150503
## 7791        1        2    0.689116035
## 2930        1        2    0.689060644
## 334         1        2    0.689048544
## 7795        1        2    0.689036483
## 3463        1        2    0.689021251
## 3351        1        2    0.689017188
## 3476        1        2    0.689002950
## 7796        1        2    0.688998421
## 598         1        2    0.688995283
## 1503        1        2    0.688976507
## 17163       1        2    0.688940615
## 3430        1        2    0.688910546
## 3255        1        2    0.688899215
## 7408        1        2    0.688813941
## 5721        1        2    0.688803036
## 3009        1        2    0.688802709
## 1881        1        2    0.688790590
## 291         1        2    0.688720138
## 205         1        2    0.688714258
## 3464        1        2    0.688712560
## 3428        1        2    0.688699889
```

```
## 3238        1        2    0.688691719
## 3702        1        2    0.688655525
## 3408        1        2    0.688637134
## 3071        1        2    0.688624151
## 2906        1        2    0.688598631
## 2923        1        2    0.688464017
## 440         1        2    0.688390729
## 1258        1        2    0.688387706
## 3197        1        2    0.688374116
## 2993        1        2    0.688373603
## 2992        1        2    0.688320348
## 1010        1        2    0.688287092
## 1619        1        2    0.688276263
## 4663        1        2    0.688235385
## 1535        1        2    0.688212252
## 3320        1        2    0.688192840
## 7011        1        2    0.688177352
## 3851        1        2    0.688176152
## 4521        1        2    0.688171386
## 401         1        2    0.688144759
## 191         1        2    0.688110750
## 640         1        2    0.688105352
## 3556        1        2    0.688086439
## 681         1        2    0.688064107
## 1605        1        2    0.688035376
## 22587       1        2    0.688030265
## 4671        1        2    0.687998256
## 3983        1        2    0.687970828
## 7583        1        2    0.687970281
## 3251        1        2    0.687950467
## 275         1        2    0.687887748
## 472         1        2    0.687856886
## 364         1        2    0.687827284
## 765         1        2    0.687785362
## 7787        1        2    0.687753560
## 195         1        2    0.687743221
## 2592        1        2    0.687692635
## 4519        1        2    0.687691057
## 1029        1        2    0.687681759
## 3511        1        2    0.687666859
## 637         1        2    0.687649948
## 3025        1        2    0.687631685
## 209         1        2    0.687612191
## 232         1        2    0.687609650
## 3529        1        2    0.687595746
## 251         1        2    0.687593187
## 799         1        2    0.687572193
## 123         1        2    0.687550999
## 2921        1        2    0.687550658
## 385         1        2    0.687541966
## 238         1        2    0.687484488
## 1878        1        2    0.687484488
## 4535        1        2    0.687477340
## 24171       1        2    0.687463299
```

```
## 203          1       2   0.687438313
## 220          1       2   0.687426115
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## 276          1       2   0.687395730
## 386          1       2   0.687370047
## 471          1       2   0.687367513
## 1210         1       2   0.687282866
## 4670         1       2   0.687270718
## 634          1       2   0.687260305
## 7222         1       2   0.687240884
## 3771         1       2   0.687238203
## 1944         1       2   0.687167246
## 124          1       2   0.687159017
## 632          1       2   0.687143973
## 1446         1       2   0.687140233
## 5123         1       2   0.687116694
## 1450         1       2   0.687097342
## 3295         1       2   0.687089184
## 2970         1       2   0.687087837
## 3095         1       2   0.687068656
## 296          1       2   0.687062912
## 2629         1       2   0.686967646
## 3250         1       2   0.686871697
## 3080         1       2   0.686833865
## 13394        1       2   0.686832603
## 3213         1       2   0.686793786
## 7797         1       2   0.686785777
## 2277         1       2   0.686762067
## 705          1       2   0.686728230
## 330          1       2   0.686709201
## 4667         1       2   0.686709201
## 7231         1       2   0.686648200
## 253          1       2   0.686635194
## 1342         1       2   0.686598913
## 1208         1       2   0.686589114
## 111          1       2   0.686511794
## 1203         1       2   0.686509849
## 254          1       2   0.686503614
## 2056         1       2   0.686492731
## 3466         1       2   0.686430642
## 7575         1       2   0.686426056
## 1204         1       2   0.686404618
## 3021         1       2   0.686362458
## 402          1       2   0.686361625
## 3221         1       2   0.686360485
## 3539         1       2   0.686324370
## 351          1       2   0.686318758
## 569          1       2   0.686315341
## 1498         1       2   0.686314195
## 2399         1       2   0.686306447
## 3948         1       2   0.686304108
## 4520         1       2   0.686269801
## 7789         1       2   0.686257811
## 3477         1       2   0.686204510
```

```
## 4533          1          2    0.686200801
## 3403          1          2    0.686143815
## 237           1          2    0.686101257
## 7443          1          2    0.686088641
## 733           1          2    0.686068678
## 1168          1          2    0.686036598
## 3589          1          2    0.685990966
## 2650          1          2    0.685965750
## 337           1          2    0.685939430
## 2659          1          2    0.685886041
## 7571          1          2    0.685882384
## 3347          1          2    0.685736695
## 6581          1          2    0.685633451
## 429           1          2    0.685629434
## 356           1          2    0.685581349
## 467           1          2    0.685509089
## 377           1          2    0.685505976
## 631           1          2    0.685491405
## 2789          1          2    0.685459728
## 328           1          2    0.685422484
## 1213          1          2    0.685408510
## 376           1          2    0.685389783
## 3239          1          2    0.685288910
## 1209          1          2    0.685262077
## 3450          1          2    0.685243559
## 4496          1          2    0.685216727
## 7792          1          2    0.685184539
## 490           1          2    0.685121725
## 374           1          2    0.685074252
## 3541          1          2    0.685030720
## 3222          1          2    0.685029947
## 3396          1          2    0.684958875
## 588           1          2    0.684944293
## 498           1          2    0.684926753
## 946           1          2    0.684890813
## 7442          1          2    0.684862556
## 4539          1          2    0.684823829
## 535           1          2    0.684764500
## 3061          1          2    0.684759906
## 1290          1          2    0.684752788
## 2926          1          2    0.684713857
## 5717          1          2    0.684712344
## 2844          1          2    0.684647028
## 690           1          2    0.684644021
## 3315          1          2    0.684611435
## 3399          1          2    0.684534445
## 3526          1          2    0.684526016
## 2928          1          2    0.684525264
## 13243         1          2    0.684493757
## 1092          1          2    0.684486478
## 558           1          2    0.684481809
## 2326          1          2    0.684467076
## 504           1          2    0.684464126
## 2890          1          2    0.684457252
```

```
## 7780          1          2   0.684453662
## 4855          1          2   0.684431880
## 24172         1          2   0.684429164
## 536           1          2   0.684421164
## 630           1          2   0.684411763
## 4455          1          2   0.684391493
## 284           1          2   0.684368977
## 1879          1          2   0.684368977
## 482           1          2   0.684359382
## 3594          1          2   0.684347559
## 9095          1          2   0.684341019
## 3097          1          2   0.684336940
## 305           1          2   0.684332781
## 6916          1          2   0.684330337
## 2014          1          2   0.684318552
## 235           1          2   0.684301278
## 1882          1          2   0.684300438
## 1165          1          2   0.684298212
## 3033          1          2   0.684276248
## 3330          1          2   0.684271257
## 1279          1          2   0.684260071
## 3189          1          2   0.684227673
## 225           1          2   0.684212002
## 1103          1          2   0.684211344
## 889           1          2   0.684195136
## 546           1          2   0.684191247
## 257           1          2   0.684182002
## 3147          1          2   0.684176765
## 517           1          2   0.684138026
## 4403          1          2   0.684128802
## 529           1          2   0.684101736
## 1615          1          2   0.684099984
## 259           1          2   0.684090592
## 506           1          2   0.684049153
## 138           1          2   0.684022950
## 307           1          2   0.683966045
## 528           1          2   0.683947292
## 827           1          2   0.683808349
## 1068          1          2   0.683682426
## 160           1          2   0.683677551
## 4517          1          2   0.683654393
## 154           1          2   0.683633012
## 2421          1          2   0.683453723
## 120           1          2   0.683405369
## 2616          1          2   0.683386212
## 3405          1          2   0.683365467
## 278           1          2   0.683363436
## 239           1          2   0.683362785
## 3224          1          2   0.683223765
## 5010          1          2   0.683192633
## 4541          1          2   0.683129093
## 3528          1          2   0.683122232
## 2939          1          2   0.683093384
## 3321          1          2   0.682989237
```

```
## 333         1       2   0.682923035
## 3019        1       2   0.682894351
## 3406        1       2   0.682844884
## 4543        1       2   0.682821818
## 3458        1       2   0.682705223
## 3277        1       2   0.682692270
## 2797        1       2   0.682669861
## 767         1       2   0.682633500
## 208         1       2   0.682604950
## 1072        1       2   0.682578014
## 2637        1       2   0.682577623
## 7798        1       2   0.682530056
## 7803        1       2   0.682493939
## 489         1       2   0.682460884
## 3313        1       2   0.682445564
## 23925       1       2   0.682418306
## 5972        1       2   0.682390009
## 3533        1       2   0.682388338
## 4665        1       2   0.682365311
## 3455        1       2   0.682363052
## 1746        1       2   0.682355269
## 300         1       2   0.682354821
## 7234        1       2   0.682344256
## 646         1       2   0.682344224
## 3427        1       2   0.682317226
## 7233        1       2   0.682307444
## 3565        1       2   0.682284590
## 3391        1       2   0.682279245
## 1257        1       2   0.682272884
## 1388        1       2   0.682259803
## 3591        1       2   0.682251770
## 420         1       2   0.682249805
## 4726        1       2   0.682148025
## 2985        1       2   0.682108562
## 3241        1       2   0.682093557
## 4457        1       2   0.682058719
## 465         1       2   0.681967194
## 3376        1       2   0.681929657
## 1366        1       2   0.681897581
## 2935        1       2   0.681806924
## 306         1       2   0.681748476
## 2951        1       2   0.681717982
## 549         1       2   0.681703851
## 526         1       2   0.681682439
## 7799        1       2   0.681611615
## 3559        1       2   0.681607983
## 287         1       2   0.681567827
## 201         1       2   0.681562061
## 3285        1       2   0.681465289
## 422         1       2   0.681415930
## 3961        1       2   0.681365095
## 3366        1       2   0.681353584
## 381         1       2   0.681313010
## 1618        1       2   0.681231192
```

```
## 312         1      2    0.681226854
## 3400        1      2    0.681097247
## 430         1      2    0.681084639
## 7501        1      2    0.681028929
## 1395        1      2    0.680951239
## 1667        1      2    0.680930937
## 3717        1      2    0.680892708
## 1500        1      2    0.680883703
## 4489        1      2    0.680855637
## 732         1      2    0.680849816
## 766         1      2    0.680830310
## 762         1      2    0.680828339
## 3208        1      2    0.680794833
## 336         1      2    0.680767472
## 4523        1      2    0.680741813
## 520         1      2    0.680725564
## 5971        1      2    0.680693050
## 230         1      2    0.680692367
## 137         1      2    0.680672256
## 1164        1      2    0.680644710
## 173         1      2    0.680640324
## 1614        1      2    0.680640045
## 2998        1      2    0.680637462
## 258         1      2    0.680634981
## 4282        1      2    0.680634204
## 4453        1      2    0.680632811
## 4536        1      2    0.680596752
## 4454        1      2    0.680584556
## 4704        1      2    0.680578253
## 3452        1      2    0.680573038
## 916         1      2    0.680567905
## 1482        1      2    0.680546221
## 3258        1      2    0.680526754
## 3766        1      2    0.680525234
## 4284        1      2    0.680525150
## 3611        1      2    0.680508260
## 146         1      2    0.680502061
## 391         1      2    0.680489239
## 340         1      2    0.680455408
## 1860        1      2    0.680447834
## 575         1      2    0.680436731
## 4450        1      2    0.680424817
## 178         1      2    0.680420574
## 248         1      2    0.680407213
## 3043        1      2    0.680373798
## 4458        1      2    0.680363893
## 231         1      2    0.680361348
## 357         1      2    0.680345912
## 3456        1      2    0.680344591
## 448         1      2    0.680270777
## 760         1      2    0.680270064
## 407         1      2    0.680257267
## 3369        1      2    0.680248372
## 450         1      2    0.680198038
```

```
## 522          1          2    0.680196225
## 736          1          2    0.680171497
## 1496         1          2    0.680157957
## 2562         1          2    0.680154890
## 4302         1          2    0.680137738
## 3287         1          2    0.680129433
## 5294         1          2    0.680059302
## 148          1          2    0.680053930
## 2575         1          2    0.680047437
## 1917         1          2    0.680041668
## 3727         1          2    0.680032115
## 3649         1          2    0.680030617
## 5479         1          2    0.680007834
## 2946         1          2    0.680005013
## 3017         1          2    0.680001461
## 557          1          2    0.679954592
## 3132         1          2    0.679950987
## 107          1          2    0.679908828
## 2919         1          2    0.679903311
## 3341         1          2    0.679899501
## 3535         1          2    0.679888306
## 3720         1          2    0.679884973
## 250          1          2    0.679880164
## 2431         1          2    0.679877684
## 573          1          2    0.679794472
## 113          1          2    0.679741422
## 2661         1          2    0.679734951
## 726          1          2    0.679708001
## 4703         1          2    0.679683835
## 346          1          2    0.679665133
## 3344         1          2    0.679631896
## 691          1          2    0.679624200
## 1423         1          2    0.679618284
## 571          1          2    0.679607356
## 7230         1          2    0.679585042
## 7573         1          2    0.679494008
## 5894         1          2    0.679491987
## 236          1          2    0.679478361
## 343          1          2    0.679401986
## 3778         1          2    0.679364290
## 3914         1          2    0.679341891
## 6146         1          2    0.679329798
## 279          1          2    0.679326747
## 3082         1          2    0.679307679
## 3102         1          2    0.679296372
## 7574         1          2    0.679285845
## 1070         1          2    0.679260314
## 577          1          2    0.679248480
## 4183         1          2    0.679238182
## 383          1          2    0.679232344
## 722          1          2    0.679113470
## 3188         1          2    0.679111897
## 1198         1          2    0.679067984
## 170          1          2    0.679058190
```

```
## 5931          1          2   0.679051920
## 2324          1          2   0.679029685
## 115           1          2   0.679028700
## 145           1          2   0.679006909
## 638           1          2   0.678980025
## 404           1          2   0.678976870
## 3551          1          2   0.678967583
## 1501          1          2   0.678889362
## 3225          1          2   0.678882970
## 3503          1          2   0.678872155
## 382           1          2   0.678871188
## 369           1          2   0.678868452
## 4666          1          2   0.678867909
## 2055          1          2   0.678839201
## 798           1          2   0.678812358
## 200           1          2   0.678791159
## 2118          1          2   0.678772241
## 379           1          2   0.678719626
## 169           1          2   0.678678810
## 3160          1          2   0.678662033
## 6290          1          2   0.678556938
## 734           1          2   0.678448878
## 3200          1          2   0.678431773
## 396           1          2   0.678413338
## 3091          1          2   0.678404589
## 5482          1          2   0.678361861
## 3774          1          2   0.678354580
## 2584          1          2   0.678294505
## 7805          1          2   0.678220018
## 116           1          2   0.678103427
## 3153          1          2   0.678097236
## 177           1          2   0.678062038
## 112           1          2   0.678024459
## 3527          1          2   0.677996598
## 256           1          2   0.677969254
## 2989          1          2   0.677955415
## 3530          1          2   0.677950518
## 1834          1          2   0.677930795
## 742           1          2   0.677928422
## 2511          1          2   0.677872536
## 4289          1          2   0.677791185
## 527           1          2   0.677756529
## 4514          1          2   0.677695281
## 3432          1          2   0.677694738
## 1074          1          2   0.677670293
## 5966          1          2   0.677669917
## 3426          1          2   0.677585281
## 3613          1          2   0.677585281
## 774           1          2   0.677455033
## 515           1          2   0.677427683
## 491           1          2   0.677423323
## 344           1          2   0.677399408
## 193           1          2   0.677370192
## 280           1          2   0.677353798
```

```
## 3297           1           2   0.677347760
## 3338           1           2   0.677261706
## 194            1           2   0.677255998
## 3451           1           2   0.677116120
## 4462           1           2   0.677105575
## 172            1           2   0.677056494
## 3472           1           2   0.677052610
## 3346           1           2   0.677043856
## 3681           1           2   0.677034309
## 3462           1           2   0.677033497
## 3698           1           2   0.676976002
## 3913           1           2   0.676968282
## 234            1           2   0.676926138
## 4288           1           2   0.676906605
## 218            1           2   0.676870508
## 763            1           2   0.676834754
## 641            1           2   0.676801888
## 635            1           2   0.676773123
## 2874           1           2   0.676769032
## 4178           1           2   0.676745338
## 174            1           2   0.676742164
## 110            1           2   0.676722958
## 750            1           2   0.676712649
## 265            1           2   0.676702753
## 150            1           2   0.676696608
## 317            1           2   0.676686355
## 4175           1           2   0.676684930
## 725            1           2   0.676671035
## 563            1           2   0.676619820
## 1063           1           2   0.676612294
## 4736           1           2   0.676606260
## 136            1           2   0.676599251
## 1058           1           2   0.676587031
## 3438           1           2   0.676558516
## 1269           1           2   0.676558150
## 3375           1           2   0.676531284
## 2574           1           2   0.676528938
## 1052           1           2   0.676507734
## 332            1           2   0.676496082
## 345            1           2   0.676472630
## 8227           1           2   0.676432908
## 1759           1           2   0.676424163
## 185            1           2   0.676417504
## 349            1           2   0.676414118
## 959            1           2   0.676385802
## 4657           1           2   0.676379823
## 3712           1           2   0.676363848
## 463            1           2   0.676363176
## 3597           1           2   0.676356468
## 4181           1           2   0.676333662
## 4303           1           2   0.676327779
## 559            1           2   0.676327488
## 754            1           2   0.676295444
## 1051           1           2   0.676288555
```

```
## 6178        1        2    0.676249234
## 3506        1        2    0.676233856
## 3431        1        2    0.676199544
## 2091        1        2    0.676125058
## 132         1        2    0.676007603
## 3448        1        2    0.675984595
## 3470        1        2    0.675984595
## 147         1        2    0.675945110
## 3622        1        2    0.675929754
## 481         1        2    0.675925714
## 71          1        2    0.675902660
## 309         1        2    0.675840418
## 3593        1        2    0.675839651
## 8224        1        2    0.675817137
## 319         1        2    0.675804516
## 370         1        2    0.675782332
## 3980        1        2    0.675775884
## 3236        1        2    0.675769637
## 1278        1        2    0.675736065
## 1367        1        2    0.675658150
## 3830        1        2    0.675642075
## 3202        1        2    0.675608453
## 3234        1        2    0.675551857
## 24297       1        2    0.675551412
## 4515        1        2    0.675527546
## 3715        1        2    0.675517255
## 967         1        2    0.675480318
## 8225        1        2    0.675470770
## 155         1        2    0.675470743
## 122         1        2    0.675449216
## 6094        1        2    0.675446844
## 533         1        2    0.675437536
## 772         1        2    0.675436821
## 1616        1        2    0.675431912
## 358         1        2    0.675420956
## 3488        1        2    0.675398363
## 547         1        2    0.675363853
## 294         1        2    0.675336325
## 464         1        2    0.675317008
## 2833        1        2    0.675300310
## 1196        1        2    0.675269590
## 182         1        2    0.675264004
## 3393        1        2    0.675256969
## 175         1        2    0.675251946
## 4287        1        2    0.675204606
## 4283        1        2    0.675203339
## 3274        1        2    0.675160166
## 1005        1        2    0.675114737
## 7409        1        2    0.674999615
## 2981        1        2    0.674996112
## 1065        1        2    0.674992563
## 751         1        2    0.674925421
## 4218        1        2    0.674874851
## 2818        1        2    0.674846272
```

```
## 6992          1        2   0.674841795
## 216           1        2   0.674811140
## 1115          1        2   0.674804183
## 1874          1        2   0.674603395
## 181           1        2   0.674590801
## 7782          1        2   0.674551871
## 2749          1        2   0.674538352
## 3229          1        2   0.674518098
## 8231          1        2   0.674482972
## 282           1        2   0.674479457
## 7793          1        2   0.674409318
## 5718          1        2   0.674391402
## 7306          1        2   0.674353302
## 74            1        2   0.674311906
## 1061          1        2   0.674308651
## 153           1        2   0.674220124
## 272           1        2   0.674209560
## 3726          1        2   0.674209499
## 1066          1        2   0.674205072
## 3223          1        2   0.674181263
## 3896          1        2   0.674117927
## 378           1        2   0.674109452
## 8237          1        2   0.674106569
## 3100          1        2   0.674068581
## 1613          1        2   0.674064691
## 1053          1        2   0.674025710
## 4177          1        2   0.673990488
## 260           1        2   0.673950100
## 299           1        2   0.673949772
## 4537          1        2   0.673881389
## 69            1        2   0.673875992
## 1215          1        2   0.673859720
## 189           1        2   0.673845652
## 576           1        2   0.673710468
## 805           1        2   0.673698576
## 3201          1        2   0.673681694
## 452           1        2   0.673671859
## 1167          1        2   0.673670620
## 8230          1        2   0.673657209
## 301           1        2   0.673648484
## 3521          1        2   0.673640221
## 3159          1        2   0.673602980
## 3226          1        2   0.673598363
## 373           1        2   0.673597354
## 737           1        2   0.673560564
## 495           1        2   0.673542262
## 119           1        2   0.673507324
## 199           1        2   0.673448376
## 3582          1        2   0.673412512
## 78            1        2   0.673372646
## 7779          1        2   0.673365739
## 3316          1        2   0.673352436
## 293           1        2   0.673312287
## 769           1        2   0.673305128
```

```
## 3122          1          2     0.673269890
## 264           1          2     0.673262089
## 8223          1          2     0.673252271
## 2927          1          2     0.673196843
## 2918          1          2     0.673151869
## 3915          1          2     0.673134449
## 23694         1          2     0.673113784
## 3482          1          2     0.673085659
## 3242          1          2     0.673076353
## 392           1          2     0.673064432
## 3185          1          2     0.673055921
## 636           1          2     0.673014672
## 496           1          2     0.672925043
## 1064          1          2     0.672916910
## 995           1          2     0.672892390
## 593           1          2     0.672881389
## 3986          1          2     0.672854235
## 180           1          2     0.672845656
## 95            1          2     0.672823465
## 749           1          2     0.672816272
## 425           1          2     0.672809396
## 4669          1          2     0.672802509
## 184           1          2     0.672798597
## 210           1          2     0.672796791
## 72            1          2     0.672785547
## 327           1          2     0.672784268
## 217           1          2     0.672783093
## 94            1          2     0.672771443
## 3907          1          2     0.672728998
## 3607          1          2     0.672707190
## 3402          1          2     0.672681031
## 3206          1          2     0.672649567
## 741           1          2     0.672642575
## 99            1          2     0.672604107
## 988           1          2     0.672579039
## 263           1          2     0.672541301
## 2656          1          2     0.672520951
## 3776          1          2     0.672508108
## 885           1          2     0.672479457
## 1195          1          2     0.672443298
## 1593          1          2     0.672438985
## 572           1          2     0.672422182
## 157           1          2     0.672366432
## 4285          1          2     0.672339176
## 168           1          2     0.672277709
## 3911          1          2     0.672248575
## 252           1          2     0.672241439
## 362           1          2     0.672235997
## 768           1          2     0.672198894
## 88            1          2     0.672146442
## 3908          1          2     0.672026376
## 81            1          2     0.672000741
## 3252          1          2     0.671969829
## 133           1          2     0.671967026
```

```
## 247          1        2    0.671957625
## 97           1        2    0.671943112
## 151          1        2    0.671897291
## 3910         1        2    0.671895624
## 3339         1        2    0.671870817
## 3513         1        2    0.671844043
## 966          1        2    0.671838375
## 3904         1        2    0.671791364
## 3729         1        2    0.671729916
## 7581         1        2    0.671694450
## 3919         1        2    0.671674160
## 4518         1        2    0.671666998
## 2449         1        2    0.671595603
## 2484         1        2    0.671561109
## 4179         1        2    0.671544443
## 1062         1        2    0.671524024
## 3371         1        2    0.671518426
## 3623         1        2    0.671500887
## 3235         1        2    0.671498158
## 52           1        2    0.671455659
## 561          1        2    0.671450637
## 152          1        2    0.671446272
## 3487         1        2    0.671408227
## 3831         1        2    0.671403467
## 3520         1        2    0.671379868
## 3725         1        2    0.671344601
## 4516         1        2    0.671338037
## 7388         1        2    0.671307900
## 992          1        2    0.671286300
## 159          1        2    0.671284811
## 524          1        2    0.671281413
## 4459         1        2    0.671234449
## 286          1        2    0.671215134
## 985          1        2    0.671152939
## 3905         1        2    0.671143045
## 7804         1        2    0.671109978
## 87           1        2    0.671067917
## 7785         1        2    0.671013503
## 3429         1        2    0.670888271
## 4540         1        2    0.670787258
## 1497         1        2    0.670747979
## 273          1        2    0.670710710
## 1079         1        2    0.670709590
## 240          1        2    0.670683412
## 3495         1        2    0.670679725
## 740          1        2    0.670669071
## 3191         1        2    0.670648252
## 1268         1        2    0.670630385
## 1172         1        2    0.670614028
## 211          1        2    0.670606541
## 1267         1        2    0.670595677
## 1499         1        2    0.670592823
## 685          1        2    0.670498961
## 3039         1        2    0.670493368
```

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## 3087         1          2    0.670468994
## 3988         1          2    0.670415960
## 4011         1          2    0.670402768
## 937          1          2    0.670313561
## 3275         1          2    0.670300006
## 102          1          2    0.670262861
## 664          1          2    0.670258781
## 4167         1          2    0.670253539
## 329          1          2    0.670243904
## 5490         1          2    0.670242500
## 3407         1          2    0.670210777
## 131          1          2    0.670196554
## 1313         1          2    0.670161359
## 3329         1          2    0.670133239
## 4015         1          2    0.670125641
## 323          1          2    0.670103610
## 183          1          2    0.670102603
## 6808         1          2    0.670059901
## 214          1          2    0.670057590
## 244          1          2    0.670040753
## 574          1          2    0.669998350
## 394          1          2    0.669988783
## 461          1          2    0.669951630
## 3832         1          2    0.669946361
## 3680         1          2    0.669914865
## 943          1          2    0.669897130
## 76           1          2    0.669871504
## 3424         1          2    0.669831272
## 3237         1          2    0.669826128
## 24072        1          2    0.669825961
## 4656         1          2    0.669824483
## 3474         1          2    0.669822176
## 3546         1          2    0.669793662
## 3624         1          2    0.669752247
## 3489         1          2    0.669654041
## 3162         1          2    0.669622813
## 359          1          2    0.669514094
## 1355         1          2    0.669488073
## 3580         1          2    0.669473761
## 4452         1          2    0.669456693
## 748          1          2    0.669392840
## 1166         1          2    0.669362162
## 3570         1          2    0.669307502
## 100          1          2    0.669287550
## 990          1          2    0.669255429
## 3979         1          2    0.669243381
## 3834         1          2    0.669098132
## 3560         1          2    0.669086389
## 747          1          2    0.669051628
## 2571         1          2    0.669041785
## 187          1          2    0.669031171
## 3357         1          2    0.669011889
## 3841         1          2    0.668991254
## 3731         1          2    0.668911041
```

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## 3387        1        2    0.668899367
## 2119        1        2    0.668891299
## 462         1        2    0.668874792
## 335         1        2    0.668822486
## 128         1        2    0.668796255
## 3687        1        2    0.668789540
## 246         1        2    0.668785847
## 2628        1        2    0.668767642
## 101         1        2    0.668755858
## 4461        1        2    0.668720527
## 3839        1        2    0.668702974
## 925         1        2    0.668702412
## 3355        1        2    0.668696723
## 3491        1        2    0.668680139
## 3824        1        2    0.668673152
## 90          1        2    0.668632592
## 2917        1        2    0.668616647
## 3820        1        2    0.668612039
## 3217        1        2    0.668558575
## 1050        1        2    0.668546450
## 3866        1        2    0.668545242
## 197         1        2    0.668455765
## 117         1        2    0.668404629
## 898         1        2    0.668384904
## 4658        1        2    0.668372235
## 43          1        2    0.668360817
## 79          1        2    0.668344812
## 895         1        2    0.668324142
## 880         1        2    0.668323806
## 4180        1        2    0.668312865
## 4243        1        2    0.668305582
## 4056        1        2    0.668303904
## 3037        1        2    0.668250965
## 202         1        2    0.668217530
## 96          1        2    0.668168668
## 268         1        2    0.668118408
## 109         1        2    0.668110810
## 7802        1        2    0.668095467
## 3536        1        2    0.668084114
## 3912        1        2    0.668078882
## 49          1        2    0.668070746
## 226         1        2    0.668057258
## 55          1        2    0.668027261
## 2660        1        2    0.667988097
## 5904        1        2    0.667972681
## 64          1        2    0.667972050
## 3987        1        2    0.667931751
## 3152        1        2    0.667871750
## 564         1        2    0.667867389
## 3835        1        2    0.667863970
## 45          1        2    0.667853830
## 228         1        2    0.667817460
## 130         1        2    0.667790310
## 932         1        2    0.667778828
```

```
## 3568        1        2   0.667738330
## 285         1        2   0.667733248
## 1114        1        2   0.667727993
## 989         1        2   0.667721817
## 204         1        2   0.667712680
## 2820        1        2   0.667665678
## 3076        1        2   0.667414485
## 3566        1        2   0.667398828
## 134         1        2   0.667356534
## 3072        1        2   0.667353042
## 3228        1        2   0.667329455
## 3573        1        2   0.667303346
## 7781        1        2   0.667266879
## 7783        1        2   0.667266879
## 930         1        2   0.667233939
## 3404        1        2   0.667228634
## 3683        1        2   0.667208536
## 3603        1        2   0.667195822
## 129         1        2   0.667124261
## 3642        1        2   0.667123279
## 3920        1        2   0.667028508
## 3650        1        2   0.666999166
## 3767        1        2   0.666973075
## 3713        1        2   0.666968482
## 3199        1        2   0.666953463
## 1073        1        2   0.666915676
## 473         1        2   0.666911173
## 3532        1        2   0.666895220
## 5407        1        2   0.666824948
## 4182        1        2   0.666777247
## 4668        1        2   0.666762576
## 8228        1        2   0.666648228
## 905         1        2   0.666603143
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## 93          1        2   0.666521665
## 934         1        2   0.666516345
## 53          1        2   0.666477737
## 4172        1        2   0.666419357
## 92          1        2   0.666418409
## 3569        1        2   0.666301116
## 316         1        2   0.666294254
## 938         1        2   0.666282806
## 104         1        2   0.666282147
## 149         1        2   0.666269265
## 3906        1        2   0.666236152
## 746         1        2   0.666222236
## 47          1        2   0.666218529
## 2053        1        2   0.666214298
## 991         1        2   0.666213791
## 206         1        2   0.666204316
## 267         1        2   0.666161140
## 3817        1        2   0.666159862
## 5408        1        2   0.666105440
## 1197        1        2   0.666095195
```

```
## 1549         1        2    0.666088251
## 215          1        2    0.666075313
## 986          1        2    0.666073995
## 3354         1        2    0.666066375
## 924          1        2    0.666055687
## 249          1        2    0.666050966
## 7788         1        2    0.666030803
## 445          1        2    0.665967006
## 179          1        2    0.665944212
## 825          1        2    0.665837938
## 4538         1        2    0.665665867
## 3352         1        2    0.665525929
## 3158         1        2    0.665486313
## 5932         1        2    0.665482821
## 4789         1        2    0.665444731
## 44           1        2    0.665423741
## 684          1        2    0.665391383
## 3038         1        2    0.665379918
## 7226         1        2    0.665347535
## 3410         1        2    0.665326130
## 86           1        2    0.665304410
## 926          1        2    0.665270640
## 66           1        2    0.665210405
## 5977         1        2    0.665159712
## 270          1        2    0.665087221
## 7219         1        2    0.665052972
## 4305         1        2    0.665009070
## 269          1        2    0.664997233
## 73           1        2    0.664849502
## 321          1        2    0.664809418
## 2849         1        2    0.664759278
## 164          1        2    0.664712078
## 207          1        2    0.664710045
## 196          1        2    0.664683509
## 525          1        2    0.664673864
## 192          1        2    0.664673066
## 1054         1        2    0.664671042
## 639          1        2    0.664669336
## 459          1        2    0.664655587
## 2988         1        2    0.664636332
## 50           1        2    0.664635921
## 8            1        2    0.664635845
## 2573         1        2    0.664587340
## 3453         1        2    0.664563078
## 878          1        2    0.664555985
## 167          1        2    0.664554203
## 642          1        2    0.664541733
## 720          1        2    0.664513218
## 339          1        2    0.664466144
## 806          1        2    0.664461005
## 764          1        2    0.664439197
## 997          1        2    0.664401620
## 4307         1        2    0.664388132
## 628          1        2    0.664376024
```

```
## 3836          1          2    0.664328205
## 1059          1          2    0.664312372
## 91            1          2    0.664284878
## 5958          1          2    0.664228606
## 36            1          2    0.664223229
## 456           1          2    0.664193201
## 139           1          2    0.664183277
## 415           1          2    0.664092083
## 3081          1          2    0.664052582
## 261           1          2    0.664051629
## 9199          1          2    0.663933677
## 1611          1          2    0.663848832
## 21            1          2    0.663838901
## 570           1          2    0.663741033
## 927           1          2    0.663722204
## 227           1          2    0.663704236
## 4456          1          2    0.663658132
## 380           1          2    0.663557029
## 121           1          2    0.663540267
## 1069          1          2    0.663479677
## 6             1          2    0.663417819
## 1170          1          2    0.663379527
## 3545          1          2    0.663351013
## 7810          1          2    0.663346362
## 3268          1          2    0.663324383
## 3205          1          2    0.663322099
## 3577          1          2    0.663292555
## 3024          1          2    0.663288662
## 82            1          2    0.663263001
## 3507          1          2    0.663246408
## 3457          1          2    0.663194479
## 873           1          2    0.663173435
## 2279          1          2    0.663170170
## 3284          1          2    0.663154614
## 7236          1          2    0.663094208
## 996           1          2    0.663087056
## 3547          1          2    0.663085695
## 3367          1          2    0.663073466
## 11            1          2    0.663068996
## 38            1          2    0.663065101
## 7220          1          2    0.663053984
## 171           1          2    0.663001882
## 25            1          2    0.662974018
## 5905          1          2    0.662944832
## 2882          1          2    0.662906268
## 118           1          2    0.662900334
## 928           1          2    0.662779727
## 7794          1          2    0.662724047
## 3679          1          2    0.662722724
## 4035          1          2    0.662719171
## 262           1          2    0.662682343
## 65            1          2    0.662676128
## 4036          1          2    0.662672957
## 3978          1          2    0.662663856
```

```
## 3825         1          2   0.662641233
## 75           1          2   0.662636663
## 4490         1          2   0.662625961
## 987          1          2   0.662540832
## 70           1          2   0.662530790
## 28           1          2   0.662487456
## 213          1          2   0.662445600
## 127          1          2   0.662443457
## 870          1          2   0.662441576
## 3976         1          2   0.662434892
## 31           1          2   0.662391670
## 3816         1          2   0.662374151
## 4822         1          2   0.662368407
## 27           1          2   0.662351733
## 221          1          2   0.662310001
## 929          1          2   0.662290119
## 3259         1          2   0.662087552
## 3699         1          2   0.661823972
## 5206         1          2   0.661809783
## 2754         1          2   0.661713095
## 5590         1          2   0.661587287
## 5976         1          2   0.661557592
## 4451         1          2   0.661551057
## 188          1          2   0.661527347
## 3737         1          2   0.661504268
## 15           1          2   0.661470234
## 457          1          2   0.661450273
## 84           1          2   0.661447632
## 3982         1          2   0.661429127
## 5220         1          2   0.661425922
## 3614         1          2   0.661420752
## 5896         1          2   0.661405557
## 877          1          2   0.661402790
## 1199         1          2   0.661395762
## 40           1          2   0.661384321
## 3716         1          2   0.661352934
## 5209         1          2   0.661341820
## 3818         1          2   0.661340780
## 3260         1          2   0.661322827
## 3253         1          2   0.661294990
## 6098         1          2   0.661207729
## 3989         1          2   0.661193904
## 161          1          2   0.661132344
## 37           1          2   0.661098225
## 7407         1          2   0.661088703
## 3586         1          2   0.661076226
## 3262         1          2   0.661061310
## 7790         1          2   0.661030526
## 311          1          2   0.660997203
## 3548         1          2   0.660969095
## 633          1          2   0.660868764
## 3823         1          2   0.660844734
## 1612         1          2   0.660777977
## 3819         1          2   0.660773776
```

```
## 3598          1          2    0.660764711
## 3377          1          2    0.660760418
## 3828          1          2    0.660752784
## 68            1          2    0.660722283
## 3496          1          2    0.660710827
## 368           1          2    0.660699028
## 51            1          2    0.660628413
## 126           1          2    0.660605866
## 3682          1          2    0.660563960
## 3867          1          2    0.660555274
## 3373          1          2    0.660547599
## 190           1          2    0.660473527
## 3900          1          2    0.660467089
## 3473          1          2    0.660449519
## 266           1          2    0.660435655
## 2427          1          2    0.660386746
## 718           1          2    0.660380083
## 2             1          2    0.660379419
## 455           1          2    0.660379419
## 3734          1          2    0.660358459
## 4             1          2    0.660317993
## 3497          1          2    0.660291378
## 1581          1          2    0.660287941
## 9             1          2    0.660264390
## 80            1          2    0.660235785
## 3498          1          2    0.660231878
## 3538          1          2    0.660222731
## 3525          1          2    0.660197889
## 135           1          2    0.660187437
## 869           1          2    0.660166960
## 17            1          2    0.660141204
## 63            1          2    0.660136806
## 3552          1          2    0.660129525
## 1049          1          2    0.660128084
## 5217          1          2    0.660112342
## 1             1          2    0.660101559
## 3689          1          2    0.660096138
## 1056          1          2    0.660089152
## 618           1          2    0.660081474
## 875           1          2    0.660025296
## 3499          1          2    0.660009267
## 3643          1          2    0.659919167
## 5216          1          2    0.659884450
## 3265          1          2    0.659864266
## 3711          1          2    0.659844981
## 13            1          2    0.659835935
## 3440          1          2    0.659820418
## 3333          1          2    0.659742647
## 18            1          2    0.659719043
## 19            1          2    0.659699104
## 2572          1          2    0.659684858
## 143           1          2    0.659604359
## 3307          1          2    0.659603652
## 3374          1          2    0.659559890
```

```
## 1055          1          2    0.659441658
## 3777          1          2    0.659441514
## 3461          1          2    0.659402339
## 3722          1          2    0.659366952
## 361           1          2    0.659302042
## 623           1          2    0.659239731
## 59            1          2    0.659215724
## 919           1          2    0.659146366
## 3519          1          2    0.659138316
## 3544          1          2    0.659132582
## 325           1          2    0.659089516
## 125           1          2    0.659054834
## 338           1          2    0.659039494
## 2323          1          2    0.659000357
## 20            1          2    0.658977252
## 103           1          2    0.658975949
## 1877          1          2    0.658955282
## 326           1          2    0.658945235
## 105           1          2    0.658945202
## 292           1          2    0.658941619
## 85            1          2    0.658937708
## 3658          1          2    0.658927170
## 3826          1          2    0.658914755
## 46            1          2    0.658903746
## 166           1          2    0.658880449
## 3584          1          2    0.658860394
## 3700          1          2    0.658855250
## 165           1          2    0.658825455
## 83            1          2    0.658814393
## 876           1          2    0.658742985
## 5215          1          2    0.658736311
## 7             1          2    0.658671170
## 3635          1          2    0.658555295
## 624           1          2    0.658444308
## 935           1          2    0.658432174
## 320           1          2    0.658424602
## 761           1          2    0.658420725
## 871           1          2    0.658392434
## 782           1          2    0.658388886
## 3261          1          2    0.658371103
## 625           1          2    0.658260657
## 198           1          2    0.658215524
## 451           1          2    0.658205214
## 89            1          2    0.658183660
## 2322          1          2    0.658096872
## 3136          1          2    0.657939898
## 3508          1          2    0.657911527
## 3026          1          2    0.657887524
## 532           1          2    0.657880770
## 295           1          2    0.657878883
## 3282          1          2    0.657785407
## 5970          1          2    0.657782599
## 2115          1          2    0.657728135
## 3502          1          2    0.657706447
```

```
## 318       1     2    0.657700043
## 3075      1     2    0.657697432
## 7580      1     2    0.657669613
## 2550      1     2    0.657661076
## 8235      1     2    0.657660071
## 222       1     2    0.657644681
## 223       1     2    0.657644681
## 4176      1     2    0.657630337
## 1057      1     2    0.657602032
## 449       1     2    0.657592432
## 24589     1     2    0.657583827
## 3044      1     2    0.657516003
## 315       1     2    0.657513885
## 3567      1     2    0.657503730
## 390       1     2    0.657503321
## 3829      1     2    0.657499994
## 1067      1     2    0.657496498
## 3345      1     2    0.657451798
## 752       1     2    0.657387701
## 12        1     2    0.657378803
## 933       1     2    0.657349333
## 350       1     2    0.657328991
## 4877      1     2    0.657313109
## 3059      1     2    0.657302767
## 7587      1     2    0.657253007
## 4016      1     2    0.657236353
## 3653      1     2    0.657214031
## 2529      1     2    0.657204568
## 1610      1     2    0.657203488
## 7410      1     2    0.657157161
## 61        1     2    0.657127724
## 98        1     2    0.657054673
## 1060      1     2    0.657001444
## 3977      1     2    0.656976565
## 26        1     2    0.656970846
## 3264      1     2    0.656904705
## 931       1     2    0.656880455
## 212       1     2    0.656863728
## 5219      1     2    0.656788458
## 1592      1     2    0.656769589
## 67        1     2    0.656745420
## 3960      1     2    0.656729312
## 4534      1     2    0.656721589
## 993       1     2    0.656682939
## 3588      1     2    0.656673471
## 936       1     2    0.656668789
## 3353      1     2    0.656554193
## 3909      1     2    0.656239538
## 1038      1     2    0.656230764
## 728       1     2    0.656012564
## 3984      1     2    0.655986385
## 271       1     2    0.655967726
## 2987      1     2    0.655943659
## 3267      1     2    0.655692505
```

```
## 872         1      2   0.655634125
## 3263        1      2   0.655495312
## 4034        1      2   0.655417181
## 3821        1      2   0.655416525
## 5207        1      2   0.655313147
## 60          1      2   0.655260269
## 3870        1      2   0.655259181
## 24442       1      2   0.655258944
## 874         1      2   0.655092251
## 322         1      2   0.655041002
## 3460        1      2   0.654927058
## 7807        1      2   0.654880903
## 4173        1      2   0.654866882
## 186         1      2   0.654853840
## 879         1      2   0.654845436
## 4460        1      2   0.654821320
## 3493        1      2   0.654797908
## 29          1      2   0.654773669
## 56          1      2   0.654723167
## 360         1      2   0.654721186
## 3868        1      2   0.654695080
## 3651        1      2   0.654622286
## 3127        1      2   0.654619637
## 4174        1      2   0.654615428
## 3394        1      2   0.654555508
## 868         1      2   0.654522594
## 617         1      2   0.654496759
## 4522        1      2   0.654430736
## 281         1      2   0.654327916
## 3903        1      2   0.654283453
## 896         1      2   0.654273915
## 108         1      2   0.654086813
## 6247        1      2   0.653818272
## 758         1      2   0.653762957
## 3579        1      2   0.653753064
## 2959        1      2   0.653721082
## 2539        1      2   0.653670269
## 3985        1      2   0.653644753
## 16          1      2   0.653634552
## 454         1      2   0.653506968
## 3846        1      2   0.653493276
## 58          1      2   0.653458902
## 619         1      2   0.653420563
## 3732        1      2   0.653344168
## 3590        1      2   0.653337843
## 3802        1      2   0.653298233
## 7778        1      2   0.653290943
## 3975        1      2   0.653271188
## 2544        1      2   0.653257840
## 42          1      2   0.653166432
## 3822        1      2   0.653085524
## 3           1      2   0.653066676
## 3844        1      2   0.653060359
## 3991        1      2   0.653047067
```

```
## 3768         1         2   0.653035724
## 3014         1         2   0.653027214
## 3847         1         2   0.652991360
## 33           1         2   0.652970273
## 627          1         2   0.652883080
## 3518         1         2   0.652833272
## 8234         1         2   0.652594774
## 3444         1         2   0.652565234
## 4821         1         2   0.652564852
## 721          1         2   0.652563189
## 4171         1         2   0.652532166
## 3708         1         2   0.652489092
## 5218         1         2   0.652362535
## 3459         1         2   0.652242044
## 3219         1         2   0.652224865
## 5906         1         2   0.652212393
## 3138         1         2   0.652150947
## 3874         1         2   0.651989059
## 41           1         2   0.651931490
## 3537         1         2   0.651896778
## 1876         1         2   0.651851032
## 34           1         2   0.651848229
## 5            1         2   0.651806114
## 1036         1         2   0.651805146
## 3243         1         2   0.651770991
## 719          1         2   0.651759021
## 1037         1         2   0.651749915
## 458          1         2   0.651722566
## 144          1         2   0.651722504
## 4286         1         2   0.651717752
## 23           1         2   0.651702425
## 141          1         2   0.651684464
## 626          1         2   0.651651343
## 10           1         2   0.651626008
## 162          1         2   0.651594792
## 994          1         2   0.651561980
## 156          1         2   0.651519710
## 290          1         2   0.651484586
## 649          1         2   0.651367276
## 24           1         2   0.651366066
## 615          1         2   0.651346218
## 616          1         2   0.651267192
## 22           1         2   0.651241299
## 3300         1         2   0.651214942
## 3608         1         2   0.651142303
## 1200         1         2   0.651057445
## 3842         1         2   0.651051875
## 4664         1         2   0.650979472
## 1594         1         2   0.650933015
## 54           1         2   0.650887352
## 4387         1         2   0.650868147
## 3517         1         2   0.650791936
## 229          1         2   0.650770378
## 224          1         2   0.650637881
```

```
## 3730          1          2    0.650589097
## 7390          1          2    0.650414568
## 5406          1          2    0.650391321
## 3578          1          2    0.650163525
## 3328          1          2    0.650030056
## 3902          1          2    0.650021646
## 453           1          2    0.649964339
## 620           1          2    0.649960731
## 3895          1          2    0.649905503
## 14            1          2    0.649876488
## 3652          1          2    0.649784322
## 3150          1          2    0.649673577
## 2958          1          2    0.649632910
## 3838          1          2    0.649539343
## 5895          1          2    0.649352210
## 3469          1          2    0.649326965
## 3629          1          2    0.649325318
## 3439          1          2    0.649320490
## 3845          1          2    0.649254893
## 4017          1          2    0.649148958
## 277           1          2    0.649129931
## 140           1          2    0.648929436
## 7579          1          2    0.648858667
## 176           1          2    0.648658354
## 3340          1          2    0.648649056
## 423           1          2    0.648564093
## 219           1          2    0.648536953
## 3286          1          2    0.648269592
## 2929          1          2    0.648266425
## 3288          1          2    0.648247912
## 289           1          2    0.648224992
## 3358          1          2    0.648113791
## 3467          1          2    0.648095061
## 3833          1          2    0.648055457
## 614           1          2    0.647621183
## 3484          1          2    0.647616678
## 621           1          2    0.647553645
## 5685          1          2    0.647419321
## 62            1          2    0.647378779
## 5684          1          2    0.647338985
## 142           1          2    0.647192961
## 8544          1          2    0.647142502
## 3514          1          2    0.647012794
## 4098          1          2    0.646947325
## 7801          1          2    0.646864322
## 5686          1          2    0.646852618
## 7470          1          2    0.646798855
## 3583          1          2    0.646714679
## 3531          1          2    0.646669825
## 3639          1          2    0.646629868
## 233           1          2    0.646556737
## 7469          1          2    0.646468911
## 8356          1          2    0.646447447
## 3337          1          2    0.646158891
```

```
## 920          1          2   0.645831565
## 727          1          2   0.645816310
## 5205         1          2   0.645785085
## 5262         1          2   0.645570525
## 77           1          2   0.645532830
## 4791         1          2   0.645428958
## 3808         1          2   0.645234648
## 3791         1          2   0.645225718
## 3850         1          2   0.645224648
## 106          1          2   0.645211738
## 3997         1          2   0.645200064
## 3685         1          2   0.645114817
## 5689         1          2   0.645110972
## 4040         1          2   0.645042933
## 3790         1          2   0.644999998
## 8229         1          2   0.644994524
## 4477         1          2   0.644982525
## 8236         1          2   0.644952254
## 460          1          2   0.644832530
## 3762         1          2   0.644768928
## 39           1          2   0.644757592
## 3592         1          2   0.644710788
## 5687         1          2   0.644616034
## 3993         1          2   0.644568058
## 3994         1          2   0.644275346
## 3515         1          2   0.644012977
## 3562         1          2   0.643987237
## 5693         1          2   0.643892773
## 3571         1          2   0.643835046
## 32           1          2   0.643593035
## 5974         1          2   0.643512343
## 4042         1          2   0.643491730
## 4820         1          2   0.643409111
## 4041         1          2   0.643406913
## 3581         1          2   0.643213524
## 35           1          2   0.643030452
## 8233         1          2   0.642873621
## 3616         1          2   0.642759665
## 3769         1          2   0.642502427
## 3490         1          2   0.642308315
## 4371         1          2   0.642289395
## 5358         1          2   0.642212362
## 5212         1          2   0.642110866
## 3827         1          2   0.642085044
## 4044         1          2   0.642025349
## 3701         1          2   0.641930132
## 3807         1          2   0.641913283
## 437          1          2   0.641782908
## 3554         1          2   0.641705905
## 3869         1          2   0.641672095
## 5204         1          2   0.641594792
## 3555         1          2   0.641454861
## 480          1          2   0.641423178
## 753          1          2   0.641335749
```

```
## 57          1          2    0.641253193
## 622         1          2    0.641227414
## 4152        1          2    0.641061391
## 5683        1          2    0.641044695
## 3356        1          2    0.640867373
## 3659        1          2    0.640716976
## 4304        1          2    0.640645854
## 7808        1          2    0.639867470
## 7800        1          2    0.639734420
## 3534        1          2    0.639706787
## 4672        1          2    0.639579924
## 3596        1          2    0.639558750
## 3372        1          2    0.639537581
## 7806        1          2    0.639494208
## 4385        1          2    0.638629990
## 3350        1          2    0.638307522
## 4038        1          2    0.638233724
## 4039        1          2    0.638072728
## 3500        1          2    0.638055938
## 4823        1          2    0.637754285
## 3801        1          2    0.637669999
## 1071        1          2    0.637665545
## 3981        1          2    0.637638476
## 2378        1          2    0.637601852
## 3561        1          2    0.637529474
## 3638        1          2    0.637414533
## 3449        1          2    0.637364067
## 7380        1          2    0.637225611
## 7809        1          2    0.636583944
## 3660        1          2    0.636480686
## 5810        1          2    0.636435685
## 3759        1          2    0.636425930
## 3595        1          2    0.636366706
## 3885        1          2    0.636289396
## 3741        1          2    0.636254493
## 3853        1          2    0.636200776
## 48          1          2    0.636163886
## 4045        1          2    0.636154955
## 3522        1          2    0.636116698
## 5876        1          2    0.636076224
## 3266        1          2    0.635987328
## 5464        1          2    0.635986926
## 629         1          2    0.635938711
## 5878        1          2    0.635907587
## 4306        1          2    0.635813117
## 3633        1          2    0.635765887
## 3973        1          2    0.635757646
## 4299        1          2    0.635662950
## 3840        1          2    0.635641464
## 5808        1          2    0.635600694
## 6714        1          2    0.635521972
## 3972        1          2    0.635504418
## 8232        1          2    0.634979922
## 4905        1          2    0.634970165
```

```
## 5465          1          2   0.634897568
## 6513          1          2   0.634891291
## 5975          1          2   0.634881255
## 3970          1          2   0.634709489
## 3884          1          2   0.634582674
## 3705          1          2   0.634532446
## 3863          1          2   0.634527253
## 163           1          2   0.634095422
## 3609          1          2   0.634074460
## 3935          1          2   0.633738637
## 5690          1          2   0.633379381
## 3703          1          2   0.633314375
## 3735          1          2   0.633274723
## 3706          1          2   0.633262370
## 5973          1          2   0.633135906
## 3359          1          2   0.632889901
## 3632          1          2   0.632737142
## 7389          1          2   0.632712266
## 8226          1          2   0.632668127
## 4402          1          2   0.632650526
## 4334          1          2   0.632619595
## 3625          1          2   0.632397871
## 5875          1          2   0.631964991
## 3918          1          2   0.631691924
## 4975          1          2   0.631560446
## 3668          1          2   0.631520534
## 5719          1          2   0.631443716
## 3812          1          2   0.631414858
## 6617          1          2   0.631162887
## 3688          1          2   0.631081526
## 3724          1          2   0.630976718
## 3468          1          2   0.630869069
## 4924          1          2   0.630653509
## 3641          1          2   0.630154550
## 5210          1          2   0.630099106
## 3849          1          2   0.630098204
## 4904          1          2   0.630011592
## 5466          1          2   0.629873935
## 3662          1          2   0.629708405
## 3803          1          2   0.629443680
## 3864          1          2   0.629382354
## 5692          1          2   0.629185045
## 4021          1          2   0.629184131
## 3757          1          2   0.629067489
## 7539          1          2   0.629011848
## 5203          1          2   0.628611034
## 114           1          2   0.627940986
## 5463          1          2   0.627370461
## 3886          1          2   0.627086823
## 3971          1          2   0.627036826
## 3669          1          2   0.626953924
## 7777          1          2   0.626915108
## 3922          1          2   0.626910234
## 4083          1          2   0.626910234
```

```
## 3848          1          2   0.626898911
## 3704          1          2   0.626850447
## 3860          1          2   0.626739721
## 4389          1          2   0.626715577
## 30            1          2   0.626711971
## 4907          1          2   0.626707488
## 3949          1          2   0.626696149
## 5834          1          2   0.626601485
## 4746          1          2   0.626554196
## 3887          1          2   0.626545401
## 3640          1          2   0.626365167
## 6510          1          2   0.626361758
## 3809          1          2   0.626350755
## 3707          1          2   0.626256276
## 5955          1          2   0.626119256
## 5069          1          2   0.625621530
## 3336          1          2   0.625555126
## 3486          1          2   0.625423271
## 5897          1          2   0.625357279
## 6511          1          2   0.625339501
## 3516          1          2   0.625166135
## 5213          1          2   0.625158856
## 5945          1          2   0.625145002
## 3788          1          2   0.625033363
## 5211          1          2   0.625027979
## 5954          1          2   0.624614493
## 3758          1          2   0.624484693
## 3670          1          2   0.624389814
## 3943          1          2   0.624099964
## 729           1          2   0.624022956
## 3787          1          2   0.624007058
## 3934          1          2   0.624007058
## 3686          1          2   0.623931604
## 4300          1          2   0.623807338
## 3815          1          2   0.623735426
## 3661          1          2   0.623648297
## 3855          1          2   0.623571133
## 3804          1          2   0.623412239
## 3736          1          2   0.623241754
## 5072          1          2   0.622776197
## 6317          1          2   0.622687713
## 6715          1          2   0.622567809
## 5948          1          2   0.622327204
## 4043          1          2   0.622264480
## 3524          1          2   0.622260843
## 3837          1          2   0.622259262
## 5952          1          2   0.622117775
## 3890          1          2   0.622074448
## 3806          1          2   0.621954902
## 3645          1          2   0.621914562
## 3610          1          2   0.621759472
## 4370          1          2   0.621486013
## 3936          1          2   0.621312707
## 3862          1          2   0.621006191
```

```
## 3714         1         2   0.620418778
## 5208         1         2   0.620385981
## 6316         1         2   0.620296437
## 5877         1         2   0.620255851
## 3858         1         2   0.620110952
## 3690         1         2   0.620070011
## 5947         1         2   0.620033141
## 3667         1         2   0.620025903
## 3585         1         2   0.620024239
## 3865         1         2   0.619978932
## 3693         1         2   0.619927582
## 5682         1         2   0.619915562
## 3927         1         2   0.619874082
## 3617         1         2   0.619823480
## 3883         1         2   0.618142608
## 3572         1         2   0.618134864
## 3612         1         2   0.618105612
## 5214         1         2   0.617994094
## 3634         1         2   0.617838166
## 4925         1         2   0.617764014
## 5907         1         2   0.617741251
## 4153         1         2   0.617716372
## 3875         1         2   0.617688575
## 5880         1         2   0.617665992
## 3654         1         2   0.617431871
## 4222         1         2   0.617405948
## 6028         1         2   0.617338007
## 4168         1         2   0.617202126
## 3665         1         2   0.617072411
## 3695         1         2   0.616880221
## 5067         1         2   0.616846163
## 4419         1         2   0.616631888
## 4146         1         2   0.616593230
## 3952         1         2   0.616566474
## 4144         1         2   0.616550309
## 11862        1         2   0.616549084
## 4023         1         2   0.616500452
## 3898         1         2   0.616439270
## 4080         1         2   0.616435324
## 3944         1         2   0.616424429
## 3696         1         2   0.616361597
## 4050         1         2   0.616319969
## 3955         1         2   0.616202263
## 4127         1         2   0.616129545
## 6056         1         2   0.616066216
## 3899         1         2   0.615539348
## 3990         1         2   0.615219517
## 4143         1         2   0.615189843
## 3691         1         2   0.615185813
## 3856         1         2   0.615163788
## 3549         1         2   0.614936434
## 3672         1         2   0.614801319
## 3657         1         2   0.614716893
## 3739         1         2   0.614552648
```

```
## 4194         1        2    0.614257725
## 5946         1        2    0.614236508
## 4184         1        2    0.614203363
## 3921         1        2    0.614119805
## 5949         1        2    0.614066479
## 3946         1        2    0.613958319
## 3951         1        2    0.613805783
## 4024         1        2    0.613778720
## 3666         1        2    0.613677122
## 3789         1        2    0.613670666
## 4197         1        2    0.613595818
## 5874         1        2    0.613563576
## 6248         1        2    0.613524666
## 3810         1        2    0.613458784
## 3627         1        2    0.613440326
## 3811         1        2    0.613403546
## 3615         1        2    0.613324411
## 3878         1        2    0.612539327
## 3780         1        2    0.612402733
## 5384         1        2    0.612377792
## 3684         1        2    0.612305064
## 4903         1        2    0.612263980
## 3876         1        2    0.612195076
## 4188         1        2    0.612191290
## 4336         1        2    0.612182097
## 3728         1        2    0.612171298
## 4271         1        2    0.612073349
## 3786         1        2    0.612046537
## 3843         1        2    0.611954957
## 3674         1        2    0.611942890
## 3891         1        2    0.611942382
## 4046         1        2    0.611897303
## 3631         1        2    0.611763487
## 5068         1        2    0.611587202
## 4335         1        2    0.611488645
## 3664         1        2    0.611360539
## 5950         1        2    0.610969757
## 3889         1        2    0.610753098
## 4696         1        2    0.610587339
## 3923         1        2    0.610475794
## 3761         1        2    0.610329582
## 3882         1        2    0.610270409
## 3947         1        2    0.610108851
## 11861        1        2    0.610087467
## 4048         1        2    0.610067125
## 7471         1        2    0.609949870
## 3574         1        2    0.609826769
## 3733         1        2    0.609567924
## 4390         1        2    0.609396532
## 8355         1        2    0.609208568
## 3760         1        2    0.609187851
## 3492         1        2    0.609083615
## 4037         1        2    0.608551802
## 4022         1        2    0.607991328
```

```
## 4906          1          2   0.607864055
## 4388          1          2   0.607567721
## 4337          1          2   0.607246474
## 4193          1          2   0.607132738
## 4842          1          2   0.607044646
## 3073          1          2   0.606903023
## 3710          1          2   0.606639939
## 5359          1          2   0.606638626
## 4386          1          2   0.606634238
## 3792          1          2   0.606616375
## 8473          1          2   0.606404066
## 3784          1          2   0.606388524
## 8474          1          2   0.606308598
## 4200          1          2   0.606266799
## 4293          1          2   0.606192193
## 4290          1          2   0.606062017
## 6688          1          2   0.605828138
## 4291          1          2   0.605813018
## 4292          1          2   0.605811798
## 5230          1          2   0.605799944
## 4199          1          2   0.605788982
## 4128          1          2   0.605518561
## 5002          1          2   0.605439112
## 11863         1          2   0.605278283
## 4223          1          2   0.605225617
## 3814          1          2   0.605205666
## 4478          1          2   0.605199905
## 4391          1          2   0.605172277
## 4392          1          2   0.605112129
## 4248          1          2   0.605018683
## 3673          1          2   0.605007168
## 6074          1          2   0.604785590
## 4294          1          2   0.604593761
## 5879          1          2   0.604556931
## 4100          1          2   0.604430523
## 6027          1          2   0.604230001
## 3630          1          2   0.604172490
## 3871          1          2   0.604154418
## 4372          1          2   0.604080462
## 5071          1          2   0.604071088
## 4059          1          2   0.603776832
## 4150          1          2   0.603706729
## 5691          1          2   0.603656513
## 8477          1          2   0.603621165
## 3709          1          2   0.603619847
## 4062          1          2   0.603598558
## 3940          1          2   0.603536722
## 3783          1          2   0.603424365
## 5694          1          2   0.603361053
## 3523          1          2   0.603323082
## 8476          1          2   0.603236076
## 3795          1          2   0.603142884
## 4125          1          2   0.602934688
## 7663          1          2   0.602801135
```

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## 3738        1        2    0.602657759
## 3928        1        2    0.602573109
## 3937        1        2    0.602562344
## 4393        1        2    0.602216034
## 4576        1        2    0.601691277
## 3879        1        2    0.601593901
## 4695        1        2    0.601502535
## 3626        1        2    0.601344444
## 4190        1        2    0.601323818
## 7786        1        2    0.600884489
## 4195        1        2    0.600855711
## 6318        1        2    0.600806346
## 3995        1        2    0.600781940
## 4187        1        2    0.600609810
## 3663        1        2    0.599815179
## 3897        1        2    0.599462735
## 3938        1        2    0.599402070
## 4149        1        2    0.599373623
## 3939        1        2    0.599251009
## 4296        1        2    0.599096354
## 7391        1        2    0.598719968
## 3888        1        2    0.598395684
## 6514        1        2    0.598265848
## 4141        1        2    0.598157513
## 3781        1        2    0.598091670
## 4270        1        2    0.598088774
## 3859        1        2    0.597784392
## 3932        1        2    0.597737964
## 3969        1        2    0.597612354
## 8363        1        2    0.597499868
## 7540        1        2    0.597432670
## 3852        1        2    0.597286746
## 3794        1        2    0.597143381
## 4198        1        2    0.597103642
## 4145        1        2    0.596944143
## 3799        1        2    0.596617022
## 4151        1        2    0.596501702
## 4191        1        2    0.596496407
## 4101        1        2    0.595407756
## 4468        1        2    0.595235043
## 4467        1        2    0.595188878
## 4032        1        2    0.595188306
## 5951        1        2    0.595169039
## 4030        1        2    0.595101759
## 6918        1        2    0.594969423
## 3893        1        2    0.594833847
## 4060        1        2    0.594806837
## 3974        1        2    0.594803372
## 8359        1        2    0.594606928
## 3796        1        2    0.594514657
## 11864       1        2    0.594456343
## 8475        1        2    0.594224595
## 4203        1        2    0.593830298
## 3773        1        2    0.593766832
```

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## 4216           1           2   0.593644163
## 4827           1           2   0.593556046
## 4217           1           2   0.593548095
## 3692           1           2   0.593521077
## 8681           1           2   0.593455377
## 4319           1           2   0.592953748
## 3881           1           2   0.592887686
## 8758           1           2   0.592887026
## 3740           1           2   0.592552297
## 8756           1           2   0.592547228
## 4201           1           2   0.592493389
## 4852           1           2   0.592303104
## 4272           1           2   0.591348167
## 5232           1           2   0.591321711
## 3644           1           2   0.591313383
## 7665           1           2   0.591064536
## 3798           1           2   0.590416274
## 3945           1           2   0.590013223
## 4687           1           2   0.589881558
## 5688           1           2   0.589382801
## 3933           1           2   0.589193659
## 4139           1           2   0.589173534
## 3992           1           2   0.589108697
## 3880           1           2   0.588883837
## 8759           1           2   0.588704510
## 3950           1           2   0.588233060
## 5074           1           2   0.588224614
## 3857           1           2   0.588119202
## 5933           1           2   0.587849927
## 8358           1           2   0.587773502
## 5171           1           2   0.587586951
## 4061           1           2   0.587476800
## 4102           1           2   0.586598482
## 4031           1           2   0.586590591
## 4295           1           2   0.586322982
## 4497           1           2   0.586278530
## 3785           1           2   0.586247093
## 4132           1           2   0.585785851
## 8678           1           2   0.585684141
## 9133           1           2   0.583925982
## 8362           1           2   0.583866137
## 9145           1           2   0.583660751
## 3782           1           2   0.583528709
## 4230           1           2   0.583527734
## 4910           1           2   0.583527734
## 4844           1           2   0.583433333
## 4239           1           2   0.583380949
## 4206           1           2   0.583372412
## 4053           1           2   0.583371036
## 4531           1           2   0.583304816
## 3805           1           2   0.583286029
## 4204           1           2   0.583251361
## 4142           1           2   0.583212407
## 4329           1           2   0.583004211
```

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## 4192         1         2   0.582981691
## 5070         1         2   0.582936537
## 3892         1         2   0.582622935
## 7246         1         2   0.582622935
## 4466         1         2   0.582577559
## 4220         1         2   0.582526695
## 4033         1         2   0.582522697
## 4133         1         2   0.582281375
## 4137         1         2   0.582242108
## 3779         1         2   0.582233644
## 4321         1         2   0.582224803
## 4170         1         2   0.582104303
## 4360         1         2   0.582073473
## 3800         1         2   0.581993132
## 4231         1         2   0.581980813
## 3966         1         2   0.581927684
## 9142         1         2   0.581548368
## 4027         1         2   0.581461828
## 4205         1         2   0.581237333
## 4013         1         2   0.581034833
## 9135         1         2   0.580884627
## 4526         1         2   0.580750144
## 4076         1         2   0.580665694
## 4148         1         2   0.580482218
## 3962         1         2   0.580398136
## 4158         1         2   0.580378989
## 3877         1         2   0.580248820
## 3894         1         2   0.580236816
## 4853         1         2   0.579948226
## 4697         1         2   0.579946418
## 4049         1         2   0.579923929
## 4841         1         2   0.579891499
## 3694         1         2   0.579853040
## 3671         1         2   0.579718622
## 8753         1         2   0.579372469
## 4530         1         2   0.579372029
## 9146         1         2   0.579330721
## 9130         1         2   0.579243215
## 8757         1         2   0.579214971
## 4524         1         2   0.579099044
## 4465         1         2   0.579063354
## 4909         1         2   0.579051598
## 4364         1         2   0.579031084
## 4479         1         2   0.578983929
## 9138         1         2   0.578952136
## 4225         1         2   0.578856463
## 4147         1         2   0.578250689
## 5809         1         2   0.577998456
## 4297         1         2   0.577814032
## 5229         1         2   0.577759975
## 4130         1         2   0.577727362
## 4169         1         2   0.577672055
## 4908         1         2   0.577620407
## 9144         1         2   0.577460516
```

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## 4373          1          2    0.577360907
## 4134          1          2    0.576671250
## 8754          1          2    0.576553309
## 4077          1          2    0.576504272
## 4228          1          2    0.576489552
## 4318          1          2    0.576479783
## 5172          1          2    0.576453791
## 3963          1          2    0.576402779
## 4499          1          2    0.576275506
## 4154          1          2    0.575330301
## 4186          1          2    0.575278550
## 4221          1          2    0.575008170
## 3926          1          2    0.574983540
## 4086          1          2    0.574559951
## 9134          1          2    0.574427159
## 4542          1          2    0.574187468
## 4196          1          2    0.572916861
## 3813          1          2    0.572901326
## 4464          1          2    0.572843599
## 4161          1          2    0.571954842
## 9131          1          2    0.571884501
## 3967          1          2    0.571757048
## 4103          1          2    0.571589585
## 4067          1          2    0.571404297
## 4202          1          2    0.571344272
## 9418          1          2    0.571232361
## 4240          1          2    0.571230614
## 4843          1          2    0.571167210
## 4081          1          2    0.571157878
## 4474          1          2    0.571022823
## 4472          1          2    0.571022821
## 4007          1          2    0.570969088
## 9416          1          2    0.570969088
## 7666          1          2    0.570962296
## 4470          1          2    0.570942381
## 3968          1          2    0.570875175
## 9141          1          2    0.570868262
## 4208          1          2    0.570688517
## 4471          1          2    0.570669906
## 4809          1          2    0.570666754
## 4019          1          2    0.570637262
## 4911          1          2    0.570581188
## 5233          1          2    0.570568984
## 4368          1          2    0.570487981
## 4084          1          2    0.570035717
## 4281          1          2    0.569979773
## 4344          1          2    0.569958301
## 9686          1          2    0.569873116
## 3797          1          2    0.569775654
## 6618          1          2    0.569775030
## 4047          1          2    0.569757782
## 4748          1          2    0.569715024
## 6718          1          2    0.569049956
```

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## 4343          1          2   0.568911242
## 6539          1          2   0.568816006
## 4078          1          2   0.568777915
## 9422          1          2   0.568723794
## 4136          1          2   0.568613995
## 3924          1          2   0.568236296
## 6919          1          2   0.568221646
## 4463          1          2   0.568158050
## 8680          1          2   0.568127293
## 8361          1          2   0.567860683
## 4379          1          2   0.567723877
## 3965          1          2   0.567710625
## 4224          1          2   0.567495136
## 5236          1          2   0.567335247
## 4026          1          2   0.567319024
## 9415          1          2   0.567302467
## 4233          1          2   0.567018833
## 4357          1          2   0.566967969
## 4418          1          2   0.566854489
## 4075          1          2   0.566739306
## 4498          1          2   0.566702936
## 4280          1          2   0.566674297
## 5900          1          2   0.566618942
## 9423          1          2   0.566588576
## 8755          1          2   0.566497133
## 4209          1          2   0.566480493
## 4473          1          2   0.566382920
## 4065          1          2   0.566259445
## 5902          1          2   0.565248062
## 4529          1          2   0.565148581
## 4747          1          2   0.565077798
## 4375          1          2   0.565060048
## 5397          1          2   0.564895879
## 4532          1          2   0.564895586
## 9143          1          2   0.564859167
## 4269          1          2   0.564650997
## 4362          1          2   0.564633552
## 4828          1          2   0.564574127
## 4082          1          2   0.564446769
## 4374          1          2   0.564427509
## 3901          1          2   0.564244332
## 9426          1          2   0.564211649
## 8679          1          2   0.563529672
## 4025          1          2   0.562705664
## 8357          1          2   0.562379056
## 8472          1          2   0.562260057
## 6687          1          2   0.562199138
## 8360          1          2   0.562169681
## 3793          1          2   0.562107565
## 4064          1          2   0.561822529
## 4219          1          2   0.561790612
## 4124          1          2   0.561628974
## 4376          1          2   0.561430317
## 4812          1          2   0.559846275
```

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## 5901         1         2    0.559719878
## 4854         1         2    0.559669367
## 4845         1         2    0.559554737
## 4099         1         2    0.559512630
## 3964         1         2    0.559504383
## 4160         1         2    0.559406215
## 4420         1         2    0.559323658
## 4363         1         2    0.558802107
## 4189         1         2    0.558308003
## 4114         1         2    0.558273235
## 5240         1         2    0.558237778
## 4438         1         2    0.558200987
## 4882         1         2    0.558138194
## 4410         1         2    0.558131706
## 4382         1         2    0.558073175
## 4275         1         2    0.557838677
## 4886         1         2    0.557773850
## 4348         1         2    0.557727610
## 4241         1         2    0.557532112
## 4615         1         2    0.557184929
## 4407         1         2    0.557115054
## 4072         1         2    0.557055433
## 6719         1         2    0.557013823
## 4311         1         2    0.557005018
## 4211         1         2    0.556935829
## 9140         1         2    0.556895833
## 4069         1         2    0.556895280
## 4259         1         2    0.556892529
## 4226         1         2    0.556717737
## 4439         1         2    0.556596384
## 9427         1         2    0.556393019
## 4810         1         2    0.556367889
## 5073         1         2    0.556179130
## 4116         1         2    0.556090237
## 9414         1         2    0.556038768
## 4277         1         2    0.555911902
## 4880         1         2    0.555849672
## 4381         1         2    0.555625484
## 6717         1         2    0.555533144
## 4005         1         2    0.555381529
## 4257         1         2    0.555307451
## 4879         1         2    0.555294802
## 4020         1         2    0.555269786
## 4109         1         2    0.555261494
## 4138         1         2    0.555254119
## 4888         1         2    0.555169227
## 9859         1         2    0.555150561
## 4254         1         2    0.555131431
## 9139         1         2    0.555075981
## 5241         1         2    0.554619289
## 5242         1         2    0.554398262
## 5839         1         2    0.554249828
## 5237         1         2    0.553938474
## 5239         1         2    0.553891021
```

```
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## 5003          1          2    0.553642970
## 5468          1          2    0.553637164
## 9419          1          2    0.552946165
## 9425          1          2    0.552856835
## 4273          1          2    0.552327381
## 4234          1          2    0.552266242
## 4816          1          2    0.552221661
## 4110          1          2    0.552087480
## 4350          1          2    0.551735443
## 4883          1          2    0.551677833
## 9421          1          2    0.551673927
## 9424          1          2    0.551558054
## 4029          1          2    0.551333198
## 5450          1          2    0.551103767
## 4527          1          2    0.550244632
## 4112          1          2    0.549858377
## 4210          1          2    0.548998460
## 4889          1          2    0.548932321
## 4887          1          2    0.548908416
## 4255          1          2    0.548739294
## 9854          1          2    0.548697921
## 4008          1          2    0.548669903
## 3925          1          2    0.547865982
## 4525          1          2    0.547474136
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## 4156          1          2    0.547193371
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## 4256          1          2    0.546232375
## 4441          1          2    0.546118377
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## 4881          1          2    0.545483162
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## 9417          1          2    0.544690344
## 4006          1          2    0.544598943
## 4345          1          2    0.544583800
## 4890          1          2    0.544551669
## 4214          1          2    0.544489757
## 4140          1          2    0.544395817
## 4117          1          2    0.544351772
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## 4436          1          2    0.544301950
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## 4423          1          2    0.544002224
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## 4395          1          2    0.543928684
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## 4339          1          2    0.543796804
## 5953          1          2    0.543769878
## 9861          1          2    0.543722176
## 6541          1          2    0.543693180
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```

```
## 4445        1         2   0.543477620
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## 4469        1         2   0.543066358
## 4476        1         2   0.542926214
## 4846        1         2   0.542648088
## 4354        1         2   0.542558952
## 9853        1         2   0.542387446
## 4215        1         2   0.542372024
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## 4528        1         2   0.542117597
## 4892        1         2   0.542016118
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## 4444        1         2   0.541470653
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## 4070        1         2   0.540200427
## 4213        1         2   0.540146997
## 9865        1         2   0.540143396
## 4274        1         2   0.540135545
## 4818        1         2   0.540115698
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## 7249        1         2   0.539870421
## 5082        1         2   0.539803737
## 4159        1         2   0.539751177
## 4135        1         2   0.539653451
## 5238        1         2   0.538875311
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## 4893        1         2   0.537952234
## 4813        1         2   0.537816052
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## 4358        1         2   0.536115921
## 4163        1         2   0.536058480
## 4819        1         2   0.535958662
## 4341        1         2   0.535763092
## 4119        1         2   0.535497542
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## 4018        1         2   0.535292091
## 4894        1         2   0.535193651
```

```
## 4104          1          2    0.535098790
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## 4361          1          2    0.532803453
## 6542          1          2    0.532754578
## 4356          1          2    0.532714932
## 7248          1          2    0.532691915
## 7394          1          2    0.532490562
## 5583          1          2    0.532308664
## 4278          1          2    0.531982652
## 4115          1          2    0.531735331
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## 4568          1          2    0.530343501
## 4585          1          2    0.530305085
## 4331          1          2    0.530112222
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## 4359          1          2    0.529037140
## 4263          1          2    0.528997666
## 4325          1          2    0.528795247
## 4411          1          2    0.528724735
## 4265          1          2    0.528692805
## 4063          1          2    0.527846768
## 4437          1          2    0.527843077
## 5844          1          2    0.527833046
## 4938          1          2    0.527790052
## 4155          1          2    0.527697884
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## 6050          1          2    0.527230344
## 4884          1          2    0.526734422
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## 4353          1          2    0.526654188
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## 4899          1          2    0.525604775
## 4485          1          2    0.525404784
## 9862          1          2    0.525263189
## 4212          1          2    0.525193939
## 6720          1          2    0.525134856
## 7664          1          2    0.525031276
## 5589          1          2    0.524995841
## 4567          1          2    0.524387854
```

```
## 7606          1          2    0.523927395
## 4079          1          2    0.523889786
## 4570          1          2    0.523718708
## 4509          1          2    0.523544030
## 4902          1          2    0.523136546
## 4108          1          2    0.522495947
## 4394          1          2    0.522379474
## 9852          1          2    0.522368254
## 5842          1          2    0.522285128
## 8644          1          2    0.522062987
## 4981          1          2    0.522060628
## 4323          1          2    0.521887095
## 4675          1          2    0.521694263
## 4074          1          2    0.521396967
## 4126          1          2    0.521180796
## 4106          1          2    0.521160040
## 4313          1          2    0.521094157
## 4122          1          2    0.521086880
## 4185          1          2    0.521086704
## 4900          1          2    0.521039209
## 7247          1          2    0.521030308
## 9980          1          2    0.520989167
## 9988          1          2    0.520910052
## 4426          1          2    0.520772930
## 4898          1          2    0.520766058
## 4442          1          2    0.520446490
## 4165          1          2    0.520273334
## 4279          1          2    0.520186038
## 3996          1          2    0.519545623
## 4066          1          2    0.519457225
## 4435          1          2    0.519451167
## 9420          1          2    0.519325980
## 4565          1          2    0.519145961
## 4322          1          2    0.519127880
## 4009          1          2    0.519114454
## 4120          1          2    0.518407703
## 9981          1          2    0.518375764
## 9994          1          2    0.518153318
## 9985          1          2    0.518083335
## 4566          1          2    0.518003909
## 9860          1          2    0.517485273
## 4123          1          2    0.516849945
## 8643          1          2    0.516595348
## 4121          1          2    0.516537795
## 5680          1          2    0.516243732
## 4507          1          2    0.516123503
## 4674          1          2    0.516049435
## 9993          1          2    0.515928782
## 4264          1          2    0.515846522
## 4676          1          2    0.515784637
## 4366          1          2    0.515760908
## 4508          1          2    0.515596883
## 4977          1          2    0.515520569
## 4642          1          2    0.515356625
```

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## 6856            1            2   0.515285716
## 7062            1            2   0.515176865
## 4401            1            2   0.515068692
## 4661            1            2   0.514949651
## 4885            1            2   0.514891960
## 4641            1            2   0.514862156
## 4546            1            2   0.514841042
## 9986            1            2   0.514775250
## 4424            1            2   0.514709351
## 4757            1            2   0.514698939
## 6854            1            2   0.514663064
## 4986            1            2   0.514636504
## 4384            1            2   0.514598663
## 4261            1            2   0.514498798
## 9991            1            2   0.514461134
## 4982            1            2   0.514183333
## 4592            1            2   0.513955450
## 4815            1            2   0.513642866
## 4984            1            2   0.513603929
## 4811            1            2   0.513278456
## 5044            1            2   0.513231008
## 4446            1            2   0.513192384
## 6544            1            2   0.513030734
## 4988            1            2   0.512956622
## 4985            1            2   0.512471075
## 6851            1            2   0.512388026
## 4980            1            2   0.512284803
## 4367            1            2   0.512194856
## 4111            1            2   0.512027849
## 9857            1            2   0.511884470
## 5673            1            2   0.511602418
## 4758            1            2   0.511560309
## 4448            1            2   0.511422415
## 4983            1            2   0.511344900
## 5843            1            2   0.511095353
## 5027            1            2   0.511015726
## 4678            1            2   0.509440148
## 4991            1            2   0.509132301
## 4989            1            2   0.509109547
## 4447            1            2   0.509059845
## 4591            1            2   0.508847095
## 6051            1            2   0.508625085
## 5251            1            2   0.508624201
## 5043            1            2   0.508466046
## 9289            1            2   0.508381064
## 4673            1            2   0.508110166
## 4207            1            2   0.507821805
## 4342            1            2   0.507670329
## 4355            1            2   0.507169942
## 5586            1            2   0.507047985
## 4397            1            2   0.506997891
## 4398            1            2   0.506971908
## 4118            1            2   0.506923881
## 4901            1            2   0.506840140
```

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## 4396         1         2   0.506144565
## 5587         1         2   0.505838395
## 4412         1         2   0.504405649
## 9992         1         2   0.504380535
## 5585         1         2   0.504343726
## 4547         1         2   0.504206545
## 4427         1         2   0.503269648
## 4425         1         2   0.502539332
## 4660         1         2   0.502535148
## 5584         1         2   0.501627036
## 6543         1         2   0.501587445
## 9863         1         2   0.501500170
## 4891         1         2   0.501443105
## 4073         1         2   0.501338304
## 4599         1         2   0.501230869
## 6635         1         2   0.501211398
## 4817         1         2   0.501021711
## 4242         1         2   0.500958384
## 9856         1         2   0.500930425
## 4399         1         2   0.500072640
## 7063         1         2   0.500007809
## 5028         1         2   0.499938492
## 6052         1         2   0.499811959
## 4378         1         2   0.499716399
## 4636         1         2   0.499698875
## 4506         1         2   0.499617623
## 4377         1         2   0.499591458
## 4995         1         2   0.499564131
## 7067         1         2   0.499498066
## 4637         1         2   0.499434768
## 4997         1         2   0.499274116
## 4561         1         2   0.499030636
## 4380         1         2   0.498910635
## 4422         1         2   0.498829702
## 4621         1         2   0.498199156
## 4578         1         2   0.498143308
## 4413         1         2   0.498097212
## 7066         1         2   0.498023998
## 4848         1         2   0.497978097
## 4545         1         2   0.497886347
## 4560         1         2   0.497865992
## 5045         1         2   0.497526114
## 4994         1         2   0.497295597
## 4266         1         2   0.497237249
## 4267         1         2   0.497160008
## 4619         1         2   0.497128784
## 4999         1         2   0.497043949
## 4998         1         2   0.496858344
## 4365         1         2   0.496310902
## 4679         1         2   0.496300847
## 7071         1         2   0.496049259
## 6855         1         2   0.496007851
## 4623         1         2   0.495703415
## 6709         1         2   0.495612656
```

```
## 8023            1            2    0.495466033
## 5113            1            2    0.495383779
## 6545            1            2    0.495348218
## 4068            1            2    0.495316294
## 4511            1            2    0.495254496
## 4655            1            2    0.495030591
## 4544            1            2    0.493600622
## 4688            1            2    0.493596483
## 4896            1            2    0.493491974
## 4564            1            2    0.493395053
## 4622            1            2    0.493313578
## 7069            1            2    0.493046950
## 6710            1            2    0.492987293
## 4562            1            2    0.492962247
## 4487            1            2    0.492157472
## 4620            1            2    0.491431052
## 7070            1            2    0.491291202
## 4950            1            2    0.491211540
## 8834            1            2    0.491056634
## 4563            1            2    0.490488300
## 4260            1            2    0.490313069
## 4699            1            2    0.490260538
## 4602            1            2    0.490143005
## 5235            1            2    0.489768399
## 5674            1            2    0.489653646
## 4990            1            2    0.489099107
## 4759            1            2    0.488358476
## 4601            1            2    0.488276632
## 4235            1            2    0.487930493
## 8022            1            2    0.487721632
## 4569            1            2    0.487299678
## 4333            1            2    0.485409265
## 4654            1            2    0.485374084
## 4992            1            2    0.485035000
## 4593            1            2    0.485026385
## 4634            1            2    0.484994896
## 4513            1            2    0.484060125
## 4548            1            2    0.483897517
## 4482            1            2    0.483248383
## 4662            1            2    0.483242784
## 7143            1            2    0.483194311
## 4400            1            2    0.483187990
## 4778            1            2    0.483149501
## 7147            1            2    0.483044447
## 4867            1            2    0.482967793
## 4777            1            2    0.482959672
## 7139            1            2    0.482886942
## 5055            1            2    0.482851593
## 7144            1            2    0.482835669
## 5130            1            2    0.482797035
## 5054            1            2    0.482689155
## 4429            1            2    0.482557604
## 4581            1            2    0.482393650
## 5057            1            2    0.482370902
```

```
## 7386          1          2   0.482364856
## 4553          1          2   0.482355594
## 5472          1          2   0.482279384
## 4733          1          2   0.482069729
## 7145          1          2   0.482069729
## 4779          1          2   0.482017166
## 6864          1          2   0.481911087
## 4780          1          2   0.481825826
## 5484          1          2   0.481661703
## 4580          1          2   0.481639109
## 4491          1          2   0.481619435
## 5046          1          2   0.481573318
## 4760          1          2   0.481440748
## 5056          1          2   0.481420706
## 4433          1          2   0.481284711
## 4555          1          2   0.481258866
## 7065          1          2   0.480656625
## 4416          1          2   0.480613900
## 9413          1          2   0.480552485
## 5048          1          2   0.480215850
## 4639          1          2   0.480153315
## 5840          1          2   0.479587898
## 4383          1          2   0.479319559
## 8029          1          2   0.478923830
## 4582          1          2   0.478493603
## 4415          1          2   0.478436311
## 4586          1          2   0.478212517
## 4635          1          2   0.477946696
## 4559          1          2   0.477186634
## 6540          1          2   0.477182965
## 4338          1          2   0.476732993
## 7146          1          2   0.476700576
## 4549          1          2   0.476610924
## 4734          1          2   0.476473829
## 6857          1          2   0.475622629
## 6853          1          2   0.475329897
## 5131          1          2   0.474953907
## 5058          1          2   0.474297108
## 4550          1          2   0.474195541
## 7064          1          2   0.474171515
## 4677          1          2   0.474108999
## 4505          1          2   0.473240272
## 6852          1          2   0.473193687
## 5029          1          2   0.473098136
## 4417          1          2   0.472422124
## 4332          1          2   0.471910812
## 4164          1          2   0.471105965
## 5473          1          2   0.471099779
## 4714          1          2   0.471072007
## 4638          1          2   0.471035533
## 4761          1          2   0.471001374
## 4432          1          2   0.470861931
## 4488          1          2   0.470574948
## 4987          1          2   0.470547336
```

```
## 4680          1          2   0.469656373
## 4556          1          2   0.468653057
## 9990          1          2   0.468509432
## 4618          1          2   0.467796982
## 4551          1          2   0.467788964
## 4996          1          2   0.467719309
## 5052          1          2   0.467713795
## 4414          1          2   0.467588141
## 4504          1          2   0.465940747
## 5065          1          2   0.465801124
## 4494          1          2   0.465653578
## 4648          1          2   0.465630498
## 4691          1          2   0.465525864
## 6099          1          2   0.465321493
## 4330          1          2   0.465307176
## 5049          1          2   0.465261356
## 6003          1          2   0.465148178
## 4617          1          2   0.465110963
## 5193          1          2   0.465098279
## 7283          1          2   0.465087494
## 4715          1          2   0.465032760
## 4839          1          2   0.464924321
## 4941          1          2   0.464915901
## 4762          1          2   0.464892496
## 5197          1          2   0.464681283
## 6708          1          2   0.464549702
## 5114          1          2   0.464355311
## 4692          1          2   0.464269211
## 4552          1          2   0.464240784
## 4840          1          2   0.464176849
## 5030          1          2   0.463752817
## 4604          1          2   0.463600894
## 4646          1          2   0.463408496
## 4493          1          2   0.463087418
## 7282          1          2   0.463021475
## 4588          1          2   0.462031223
## 4431          1          2   0.461862144
## 5196          1          2   0.461716978
## 7281          1          2   0.461625648
## 4501          1          2   0.461217632
## 4603          1          2   0.461029548
## 4771          1          2   0.460986598
## 5060          1          2   0.460358314
## 5173          1          2   0.460346158
## 5117          1          2   0.460274847
## 4557          1          2   0.460254796
## 14596         1          2   0.460072109
## 4698          1          2   0.460025835
## 6941          1          2   0.459968213
## 4770          1          2   0.459661969
## 6150          1          2   0.459609706
## 4643          1          2   0.459242491
## 4701          1          2   0.459241283
## 7068          1          2   0.457855269
```

```
## 6053            1        2   0.457562636
## 7284            1        2   0.457242036
## 4978            1        2   0.456809282
## 4769            1        2   0.456437597
## 4647            1        2   0.456432485
## 4503            1        2   0.456428725
## 4605            1        2   0.456428725
## 7456            1        2   0.456170219
## 4492            1        2   0.456060657
## 4645            1        2   0.455812075
## 4735            1        2   0.455213206
## 4718            1        2   0.454749465
## 4693            1        2   0.454067121
## 5063            1        2   0.453708982
## 4434            1        2   0.453556570
## 7142            1        2   0.453546129
## 4685            1        2   0.451968739
## 4430            1        2   0.451853923
## 6716            1        2   0.451847856
## 7892            1        2   0.451806997
## 7893            1        2   0.451782860
## 7618            1        2   0.451716728
## 4868            1        2   0.451645947
## 4720            1        2   0.451603609
## 4577            1        2   0.451548002
## 7617            1        2   0.450611588
## 5195            1        2   0.450512328
## 4772            1        2   0.450501057
## 4247            1        2   0.450116647
## 7141            1        2   0.448947074
## 4694            1        2   0.448458480
## 5022            1        2   0.448421829
## 4722            1        2   0.448254251
## 5373            1        2   0.447432643
## 5375            1        2   0.447332567
## 5147            1        2   0.447201335
## 4944            1        2   0.447098157
## 4826            1        2   0.447059670
## 7895            1        2   0.447016465
## 4682            1        2   0.446976682
## 5115            1        2   0.446967095
## 5053            1        2   0.446947622
## 7900            1        2   0.446890309
## 4625            1        2   0.446873114
## 6100            1        2   0.446852346
## 4421            1        2   0.446753241
## 5175            1        2   0.446705124
## 4558            1        2   0.446616026
## 5486            1        2   0.446559318
## 6934            1        2   0.446545476
## 4627            1        2   0.446532475
## 4774            1        2   0.446483637
## 5047            1        2   0.446463657
## 6101            1        2   0.446352275
```

```
## 5383          1          2    0.446220882
## 5379          1          2    0.446018929
## 4590          1          2    0.445928089
## 7899          1          2    0.445527968
## 5372          1          2    0.445306304
## 8024          1          2    0.445250997
## 4781          1          2    0.445118100
## 5062          1          2    0.444648953
## 4993          1          2    0.444605617
## 7285          1          2    0.444427241
## 4649          1          2    0.443653566
## 4683          1          2    0.443557274
## 6866          1          2    0.443311541
## 5174          1          2    0.443243411
## 4721          1          2    0.443235192
## 5007          1          2    0.443166261
## 7894          1          2    0.443086525
## 4700          1          2    0.443026179
## 9510          1          2    0.443024593
## 4690          1          2    0.443009804
## 4624          1          2    0.441861148
## 4554          1          2    0.441678934
## 5301          1          2    0.441337099
## 5194          1          2    0.440814191
## 4716          1          2    0.440811387
## 4502          1          2    0.440741838
## 7898          1          2    0.439794978
## 4824          1          2    0.439313133
## 5064          1          2    0.439207330
## 4719          1          2    0.438905521
## 4765          1          2    0.438581592
## 4775          1          2    0.438413715
## 4782          1          2    0.436936492
## 5202          1          2    0.436828999
## 5201          1          2    0.436773663
## 5066          1          2    0.436461186
## 4616          1          2    0.436289392
## 6102          1          2    0.435730002
## 4790          1          2    0.435549226
## 4825          1          2    0.435449915
## 5374          1          2    0.433993651
## 5380          1          2    0.433801729
## 4573          1          2    0.433622992
## 5148          1          2    0.433388463
## 7897          1          2    0.432874873
## 5376          1          2    0.432374205
## 5164          1          2    0.432361380
## 4717          1          2    0.432073654
## 4626          1          2    0.430870410
## 4268          1          2    0.430779635
## 4764          1          2    0.430697613
## 4572          1          2    0.430594897
## 4607          1          2    0.430564800
## 4644          1          2    0.430152134
```

```
## 5198          1          2    0.429781174
## 5061          1          2    0.429729548
## 7901          1          2    0.429342670
## 4608          1          2    0.429249669
## 5377          1          2    0.429222403
## 4861          1          2    0.429194899
## 4849          1          2    0.429104331
## 4773          1          2    0.429017482
## 6933          1          2    0.428966419
## 5378          1          2    0.428961930
## 4610          1          2    0.428420122
## 6319          1          2    0.428331372
## 4787          1          2    0.428201012
## 6107          1          2    0.428130887
## 6121          1          2    0.428090182
## 4862          1          2    0.428018201
## 5245          1          2    0.427893614
## 4785          1          2    0.427807405
## 4763          1          2    0.427498248
## 4589          1          2    0.427496218
## 4963          1          2    0.427385315
## 4630          1          2    0.427289605
## 4918          1          2    0.427281527
## 4864          1          2    0.427069807
## 5559          1          2    0.427067710
## 4628          1          2    0.426994257
## 5730          1          2    0.426851618
## 5244          1          2    0.426750061
## 5557          1          2    0.426724337
## 7023          1          2    0.426587454
## 4776          1          2    0.426345176
## 4629          1          2    0.426188553
## 4863          1          2    0.426056377
## 4614          1          2    0.426033164
## 4964          1          2    0.425967649
## 8446          1          2    0.425911831
## 4960          1          2    0.425847114
## 4686          1          2    0.425648198
## 5565          1          2    0.425550388
## 4609          1          2    0.425439236
## 4631          1          2    0.425391971
## 4749          1          2    0.425389182
## 5199          1          2    0.425202776
## 5485          1          2    0.425105935
## 4681          1          2    0.425072184
## 5168          1          2    0.424679177
## 6103          1          2    0.424633296
## 5080          1          2    0.424324862
## 6105          1          2    0.424003908
## 8444          1          2    0.423961294
## 4611          1          2    0.423884977
## 4934          1          2    0.423862320
## 5566          1          2    0.423763829
## 5553          1          2    0.423761259
```

```
## 7148          1          2   0.423702935
## 5059          1          2   0.423564351
## 4917          1          2   0.423334246
## 9511          1          2   0.422737446
## 4689          1          2   0.422168693
## 4784          1          2   0.421872744
## 4738          1          2   0.421415956
## 5200          1          2   0.421309187
## 7902          1          2   0.421296366
## 4786          1          2   0.420668448
## 5166          1          2   0.420599478
## 5246          1          2   0.420410254
## 8447          1          2   0.420306639
## 7896          1          2   0.418978119
## 5370          1          2   0.418897117
## 4575          1          2   0.418111864
## 4632          1          2   0.418068005
## 4613          1          2   0.417954473
## 4836          1          2   0.417925134
## 5075          1          2   0.417643958
## 6106          1          2   0.416955317
## 4838          1          2   0.416821094
## 6104          1          2   0.415126383
## 5382          1          2   0.414426032
## 5381          1          2   0.414216343
## 5081          1          2   0.413844697
## 4750          1          2   0.413780856
## 4942          1          2   0.413707061
## 4850          1          2   0.413663065
## 5004          1          2   0.413392072
## 7140          1          2   0.412731645
## 4835          1          2   0.411873400
## 4870          1          2   0.411610905
## 5563          1          2   0.410561455
## 5562          1          2   0.410439048
## 5371          1          2   0.410175238
## 8518          1          2   0.408364513
## 4961          1          2   0.408284725
## 5555          1          2   0.408284725
## 4976          1          2   0.408238088
## 5567          1          2   0.408228332
## 9724          1          2   0.408058433
## 5036          1          2   0.408036725
## 5165          1          2   0.408000826
## 15153         1          2   0.407900719
## 5558          1          2   0.407783256
## 8513          1          2   0.407782111
## 4966          1          2   0.407774192
## 8511          1          2   0.407719867
## 4633          1          2   0.407568649
## 4751          1          2   0.407307353
## 5387          1          2   0.407146645
## 4931          1          2   0.407017403
## 4957          1          2   0.406866686
```

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## 4788          1          2    0.406622911
## 4684          1          2    0.406498833
## 5037          1          2    0.405943239
## 5846          1          2    0.405943239
## 5570          1          2    0.405703824
## 8519          1          2    0.405647890
## 5847          1          2    0.405502268
## 4574          1          2    0.405044058
## 8025          1          2    0.404781985
## 4752          1          2    0.404592456
## 8521          1          2    0.404141029
## 8514          1          2    0.404071739
## 8520          1          2    0.403504434
## 4612          1          2    0.403066458
## 8510          1          2    0.402730078
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## 8516          1          2    0.402642369
## 7024          1          2    0.402612635
## 5556          1          2    0.402479818
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## 8515          1          2    0.400758721
## 4932          1          2    0.400698721
## 4876          1          2    0.400695542
## 5576          1          2    0.400318552
## 7607          1          2    0.400235387
## 4851          1          2    0.400165556
## 5385          1          2    0.399756411
## 4871          1          2    0.399725948
## 5845          1          2    0.399445722
## 4600          1          2    0.399015608
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## 5564          1          2    0.398499451
## 4930          1          2    0.398279859
## 6336          1          2    0.398219068
## 4965          1          2    0.398092169
## 4929          1          2    0.398020728
## 5578          1          2    0.397526418
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## 5572          1          2    0.396897440
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## 6865          1          2    0.396453116
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## 5849          1          2    0.395299220
## 5038          1          2    0.394923700
## 4943          1          2    0.394338590
## 5574          1          2    0.394203548
## 5143          1          2    0.394103391
## 5869          1          2    0.394090897
## 5554          1          2    0.393896764
## 5571          1          2    0.392099130
## 4587          1          2    0.391896732
```

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## 5568          1          2    0.390690202
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## 4571          1          2    0.390479199
## 5461          1          2    0.390400588
## 4594          1          2    0.390173587
## 6108          1          2    0.389504367
## 8445          1          2    0.389478834
## 4962          1          2    0.389410601
## 4837          1          2    0.389210018
## 6337          1          2    0.387243813
## 5351          1          2    0.387215825
## 5854          1          2    0.387094218
## 4753          1          2    0.386906411
## 5249          1          2    0.386799662
## 10000         1          2    0.386790109
## 5102          1          2    0.386786312
## 5868          1          2    0.386689842
## 4755          1          2    0.386664868
## 5005          1          2    0.386613072
## 4956          1          2    0.386609218
## 5032          1          2    0.386315988
## 5467          1          2    0.386191730
## 6021          1          2    0.386022936
## 4756          1          2    0.385851812
## 10005         1          2    0.385827201
## 6012          1          2    0.385806723
## 5852          1          2    0.385800111
## 9998          1          2    0.385484734
## 5077          1          2    0.385465466
## 5144          1          2    0.385351853
## 6014          1          2    0.385158897
## 6009          1          2    0.384945503
## 10002         1          2    0.384920512
## 6020          1          2    0.384890769
## 8094          1          2    0.384429370
## 6015          1          2    0.384349622
## 5006          1          2    0.383698157
## 6338          1          2    0.383664430
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## 8512          1          2    0.383293088
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## 5352          1          2    0.381875761
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## 6010          1          2    0.381588951
## 6018          1          2    0.381540984
## 4875          1          2    0.381132376
## 4935          1          2    0.381010936
## 4874          1          2    0.380875234
## 4974          1          2    0.379516928
## 5021          1          2    0.379473805
```

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## 6011        1        2   0.377445020
## 9999        1        2   0.377289206
## 5076        1        2   0.377188509
## 5575        1        2   0.377063856
## 5167        1        2   0.377029993
## 5163        1        2   0.376904287
## 5228        1        2   0.376485538
## 4768        1        2   0.376293618
## 6019        1        2   0.376222907
## 5231        1        2   0.376133401
## 4937        1        2   0.376054244
## 5577        1        2   0.375156954
## 5870        1        2   0.374782869
## 6017        1        2   0.374635043
## 5250        1        2   0.374508730
## 7310        1        2   0.374444323
## 4973        1        2   0.373608993
## 4873        1        2   0.373598319
## 9995        1        2   0.373274517
## 5320        1        2   0.373118287
## 5319        1        2   0.372685025
## 4783        1        2   0.372663865
## 7311        1        2   0.371431248
## 4857        1        2   0.371280048
## 5116        1        2   0.370373122
## 5321        1        2   0.370369725
## 4754        1        2   0.368530600
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## 5350        1        2   0.366551822
## 5290        1        2   0.365024825
## 5603        1        2   0.364991126
## 5855        1        2   0.364708414
## 4970        1        2   0.364681923
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## 6418        1        2   0.364627820
## 5515        1        2   0.364611766
## 6340        1        2   0.364498709
## 4947        1        2   0.364436922
## 4916        1        2   0.364247218
## 7395        1        2   0.364217132
## 5282        1        2   0.364084499
## 10135       1        2   0.363977320
```

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## 4866         1        2    0.363689895
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## 4972         1        2    0.363619641
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## 5138         1        2    0.363421982
## 5326         1        2    0.363420156
## 4859         1        2    0.363245127
## 6417         1        2    0.362999996
## 5092         1        2    0.362925587
## 4969         1        2    0.362749046
## 5139         1        2    0.362681812
## 10128        1        2    0.362194252
## 6275         1        2    0.361646498
## 5042         1        2    0.361555229
## 5291         1        2    0.361554490
## 5324         1        2    0.361321787
## 10136        1        2    0.361131823
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## 6273         1        2    0.360969250
## 9996         1        2    0.360835617
## 5474         1        2    0.360807245
## 5247         1        2    0.360778884
## 4869         1        2    0.359939705
## 7396         1        2    0.357923847
## 5221         1        2    0.357595002
## 4921         1        2    0.357580841
## 5283         1        2    0.357353016
## 5978         1        2    0.356875565
## 5146         1        2    0.356596117
## 5325         1        2    0.355636347
## 10131        1        2    0.355636347
## 10133        1        2    0.355428648
## 5281         1        2    0.354604095
## 5109         1        2    0.354585151
## 4948         1        2    0.354502270
## 6270         1        2    0.354429930
## 5601         1        2    0.354337700
## 5145         1        2    0.352981592
## 4971         1        2    0.352871050
## 6271         1        2    0.352840418
## 9997         1        2    0.352824542
## 9725         1        2    0.352807286
## 5514         1        2    0.352797551
## 4951         1        2    0.352716030
## 6008         1        2    0.352680271
## 5318         1        2    0.352601232
## 5451         1        2    0.351741129
## 10001        1        2    0.350577415
## 4955         1        2    0.350507100
## 4958         1        2    0.349225149
## 9552         1        2    0.349013651
## 6016         1        2    0.348598902
```

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## 6090          1          2    0.346685284
## 5560          1          2    0.346625849
## 5108          1          2    0.346554683
## 5093          1          2    0.346509632
## 5079          1          2    0.346461769
## 6272          1          2    0.345315348
## 10124         1          2    0.345311360
## 5779          1          2    0.345132329
## 6007          1          2    0.344070155
## 5323          1          2    0.344038540
## 10130         1          2    0.343555015
## 5731          1          2    0.343543097
## 5031          1          2    0.343455651
## 4922          1          2    0.343139877
## 4949          1          2    0.341941715
## 5856          1          2    0.341804064
## 5513          1          2    0.341718979
## 5604          1          2    0.341712046
## 5395          1          2    0.341655469
## 5225          1          2    0.341602974
## 6341          1          2    0.341581528
## 5401          1          2    0.341556554
## 10143         1          2    0.341550607
## 10235         1          2    0.341526522
## 5112          1          2    0.341262689
## 5392          1          2    0.341210634
## 4967          1          2    0.341208630
## 5802          1          2    0.341196887
## 5419          1          2    0.341165487
## 5804          1          2    0.341088994
## 5396          1          2    0.341003537
## 5353          1          2    0.340906234
## 5097          1          2    0.340827862
## 5333          1          2    0.340827862
## 5331          1          2    0.340819107
## 5668          1          2    0.340691728
## 7007          1          2    0.340680814
## 5664          1          2    0.340479362
## 10234         1          2    0.340350580
## 10142         1          2    0.340302312
## 5226          1          2    0.339927708
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## 5000          1          2    0.339771928
## 5157          1          2    0.339764977
## 10126         1          2    0.339758211
## 5140          1          2    0.339721963
## 5733          1          2    0.339718031
## 5322          1          2    0.339574239
## 5344          1          2    0.339401475
## 5332          1          2    0.339395261
## 6005          1          2    0.339115675
## 6849          1          2    0.338395534
## 5659          1          2    0.338258930
## 5602          1          2    0.338140291
```

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## 7008        1        2    0.338076765
## 5665        1        2    0.338042361
## 10125       1        2    0.337909967
## 5666        1        2    0.337870733
## 5252        1        2    0.336822791
## 5732        1        2    0.336371543
## 6054        1        2    0.336177111
## 5136        1        2    0.335074922
## 5227        1        2    0.334926098
## 5862        1        2    0.334120104
## 5394        1        2    0.334032065
## 8026        1        2    0.333968381
## 4952        1        2    0.333888737
## 4915        1        2    0.333816054
## 10231       1        2    0.332662861
## 5661        1        2    0.332638564
## 5354        1        2    0.332507396
## 5293        1        2    0.331842444
## 5662        1        2    0.331691998
## 10232       1        2    0.331517253
## 5857        1        2    0.330491578
## 5658        1        2    0.330230225
## 5253        1        2    0.330210236
## 10140       1        2    0.330046905
## 5327        1        2    0.330035323
## 4865        1        2    0.329887827
## 5292        1        2    0.329755075
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## 10134       1        2    0.329651111
## 5078        1        2    0.329617746
## 5329        1        2    0.329069653
## 4959        1        2    0.329000598
## 5357        1        2    0.327607708
## 5667        1        2    0.327379791
## 10138       1        2    0.327270491
## 5859        1        2    0.326432785
## 10139       1        2    0.326291338
## 5023        1        2    0.324391517
## 5222        1        2    0.323167758
## 5096        1        2    0.323087007
## 5803        1        2    0.322712226
## 5454        1        2    0.321241038
## 5135        1        2    0.321103960
## 9978        1        2    0.321063376
## 4968        1        2    0.319679908
## 10230       1        2    0.319591361
## 10132       1        2    0.319333193
## 5156        1        2    0.319319766
## 5041        1        2    0.317602651
## 10250       1        2    0.317472700
## 5040        1        2    0.317366209
## 5151        1        2    0.317243568
## 6077        1        2    0.317184034
## 6084        1        2    0.317143467
```

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## 9979         1         2    0.317000911
## 5141         1         2    0.316961227
## 10240        1         2    0.316883897
## 5298         1         2    0.316840655
## 5286         1         2    0.316802456
## 5159         1         2    0.316601005
## 10236        1         2    0.316569733
## 5132         1         2    0.316540822
## 5413         1         2    0.316540822
## 10245        1         2    0.316341493
## 5254         1         2    0.316264517
## 5429         1         2    0.316249927
## 5861         1         2    0.316068530
## 5094         1         2    0.316051187
## 5660         1         2    0.315948502
## 6293         1         2    0.315897930
## 6083         1         2    0.315474418
## 10242        1         2    0.315445407
## 8028         1         2    0.315330316
## 5412         1         2    0.315222501
## 6093         1         2    0.315082857
## 10249        1         2    0.315020869
## 6081         1         2    0.315015976
## 5335         1         2    0.314190605
## 5150         1         2    0.314014630
## 5149         1         2    0.313997081
## 10141        1         2    0.313995152
## 5284         1         2    0.313886229
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## 6079         1         2    0.312835311
## 5103         1         2    0.312725830
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## 5100         1         2    0.312284902
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## 10233        1         2    0.312242929
## 5345         1         2    0.312077498
## 5348         1         2    0.312020684
## 5024         1         2    0.311100654
## 10239        1         2    0.310931764
## 6080         1         2    0.310879817
## 5223         1         2    0.310765810
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## 6082         1         2    0.310239974
## 10243        1         2    0.308982712
## 4953         1         2    0.308249857
## 5095         1         2    0.308121689
## 5330         1         2    0.308088793
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## 5430         1         2    0.306588722
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## 10246        1         2    0.306413973
## 6075         1         2    0.306371531
```

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## 5663         1         2   0.306353952
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## 5098         1         2   0.303817078
## 5142         1         2   0.303777179
## 5334         1         2   0.302741120
## 6076         1         2   0.302664642
## 5099         1         2   0.302645673
## 10247        1         2   0.302530789
## 5858         1         2   0.302315647
## 5393         1         2   0.302288096
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## 5398         1         2   0.299855729
## 5610         1         2   0.299750942
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## 5287         1         2   0.298204418
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## 5609         1         2   0.294709321
## 5035         1         2   0.294669658
## 5784         1         2   0.294607558
## 5101         1         2   0.294523744
## 6092         1         2   0.294422942
## 6281         1         2   0.293863649
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## 5346         1         2   0.293075940
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## 5158         1         2   0.292990780
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## 6342         1         2   0.291809039
## 5434         1         2   0.291776237
## 10255        1         2   0.291654880
## 5338         1         2   0.291622115
## 5270         1         2   0.291620471
## 5161         1         2   0.291543827
## 6088         1         2   0.291534372
## 10258        1         2   0.291508765
## 5638         1         2   0.291473830
## 5637         1         2   0.291400500
## 5300         1         2   0.291383183
## 5137         1         2   0.291370385
## 6264         1         2   0.291253141
## 5255         1         2   0.290937424
## 5110         1         2   0.290633135
## 5280         1         2   0.289976411
```

```
## 5355           1           2    0.289937670
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## 10260          1           2    0.289715743
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## 5349           1           2    0.289434533
## 5279           1           2    0.288939221
## 5337           1           2    0.288939221
## 10257          1           2    0.288911029
## 5432           1           2    0.288826969
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## 5111           1           2    0.288759477
## 5608           1           2    0.288526432
## 5639           1           2    0.288519392
## 9800           1           2    0.287709764
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## 10262          1           2    0.287212886
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## 5224           1           2    0.284877454
## 7010           1           2    0.283188014
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## 5162           1           2    0.281763024
## 6135           1           2    0.281437702
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## 10254          1           2    0.278751440
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## 5339           1           2    0.278129805
## 7616           1           2    0.276170226
## 5478           1           2    0.275393542
## 5612           1           2    0.275369777
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## 10256          1           2    0.275140319
## 5422           1           2    0.273559209
## 10244          1           2    0.272306834
## 6265           1           2    0.272099040
## 8031           1           2    0.270656296
## 6089           1           2    0.269137377
## 5613           1           2    0.269113148
## 10251          1           2    0.267479711
## 5433           1           2    0.267286423
## 5416           1           2    0.265147380
## 5271           1           2    0.265073615
## 5504           1           2    0.265037225
```

```
## 10474         1         2   0.264933736
## 5595          1         2   0.264917619
## 6806          1         2   0.264779790
## 8097          1         2   0.264731263
## 6266          1         2   0.264675815
## 6143          1         2   0.264644541
## 6269          1         2   0.264616743
## 6145          1         2   0.264571728
## 5711          1         2   0.264510104
## 5500          1         2   0.264311156
## 5343          1         2   0.264298263
## 6448          1         2   0.264237095
## 5444          1         2   0.264180996
## 5833          1         2   0.264157875
## 5435          1         2   0.264082753
## 6137          1         2   0.264014585
## 6085          1         2   0.263996237
## 5272          1         2   0.263168997
## 5811          1         2   0.262611230
## 10810         1         2   0.262533442
## 5302          1         2   0.262423609
## 5399          1         2   0.262329252
## 5596          1         2   0.262180136
## 5306          1         2   0.262179659
## 6136          1         2   0.262118135
## 5304          1         2   0.262103410
## 10476         1         2   0.262046651
## 10261         1         2   0.261903718
## 5502          1         2   0.261281359
## 5501          1         2   0.261115597
## 10809         1         2   0.261078429
## 5152          1         2   0.261064937
## 5915          1         2   0.260960295
## 6807          1         2   0.260870680
## 5471          1         2   0.260831791
## 5503          1         2   0.260722971
## 10811         1         2   0.260587559
## 6087          1         2   0.260526218
## 10475         1         2   0.260521195
## 6144          1         2   0.259296403
## 10725         1         2   0.259280690
## 5642          1         2   0.259222192
## 6194          1         2   0.259116648
## 5681          1         2   0.259049989
## 5274          1         2   0.257981169
## 5341          1         2   0.257981169
## 5342          1         2   0.257870271
## 5155          1         2   0.257254009
## 6932          1         2   0.257094475
## 5727          1         2   0.257029558
## 5417          1         2   0.255114654
## 5735          1         2   0.254821262
## 5470          1         2   0.254729422
## 5307          1         2   0.253579313
```

```
## 6267       1       2   0.253427341
## 7412       1       2   0.253345661
## 5133       1       2   0.253344463
## 5593       1       2   0.252693248
## 10726      1       2   0.252448500
## 5305       1       2   0.252290881
## 5443       1       2   0.250988895
## 5273       1       2   0.250890020
## 5452       1       2   0.250850179
## 6398       1       2   0.249833488
## 8095       1       2   0.249754392
## 5423       1       2   0.248480967
## 7413       1       2   0.248275179
## 8096       1       2   0.248267121
## 10808      1       2   0.248254635
## 5278       1       2   0.245965770
## 5402       1       2   0.245783974
## 5505       1       2   0.245611625
## 10473      1       2   0.245467973
## 5728       1       2   0.245464601
## 10724      1       2   0.242676687
## 6268       1       2   0.242452157
## 5594       1       2   0.240798770
## 7411       1       2   0.240602114
## 5447       1       2   0.239536226
## 5303       1       2   0.239485024
## 5640       1       2   0.239403592
## 5729       1       2   0.237730201
## 6400       1       2   0.237355117
## 5400       1       2   0.237337131
## 6405       1       2   0.237324373
## 8032       1       2   0.237166168
## 5311       1       2   0.237154333
## 5308       1       2   0.237081153
## 5835       1       2   0.237015725
## 5813       1       2   0.236991094
## 5866       1       2   0.236945952
## 5836       1       2   0.236906997
## 5310       1       2   0.236740855
## 5424       1       2   0.236537259
## 5492       1       2   0.236396552
## 5865       1       2   0.236382476
## 6399       1       2   0.236342725
## 8034       1       2   0.235847813
## 7543       1       2   0.235651542
## 5476       1       2   0.235379468
## 5449       1       2   0.235353444
## 5812       1       2   0.235322429
## 5780       1       2   0.235284268
## 5863       1       2   0.235274491
## 5725       1       2   0.234709205
## 6910       1       2   0.234682974
## 6403       1       2   0.234339061
## 5477       1       2   0.233508892
```

```
## 5873          1          2    0.233341504
## 5276          1          2    0.233309332
## 5436          1          2    0.233128461
## 6402          1          2    0.233073330
## 5415          1          2    0.232921106
## 5309          1          2    0.232190086
## 6462          1          2    0.232170739
## 11053         1          2    0.232028236
## 5508          1          2    0.231913713
## 6842          1          2    0.231744300
## 5453          1          2    0.231676216
## 5889          1          2    0.231625916
## 6401          1          2    0.230541250
## 6532          1          2    0.230540020
## 11048         1          2    0.230030682
## 5509          1          2    0.228709733
## 8098          1          2    0.228551046
## 11051         1          2    0.227942307
## 5313          1          2    0.227941482
## 5404          1          2    0.226680151
## 11047         1          2    0.226633255
## 6407          1          2    0.226517944
## 5510          1          2    0.225860402
## 5356          1          2    0.225827056
## 5312          1          2    0.225824942
## 11049         1          2    0.225747222
## 5890          1          2    0.225742224
## 6406          1          2    0.225498502
## 5277          1          2    0.224296630
## 6408          1          2    0.224156308
## 6816          1          2    0.224087738
## 5916          1          2    0.223389605
## 5491          1          2    0.223357878
## 8033          1          2    0.223357878
## 5867          1          2    0.222994106
## 11050         1          2    0.220723733
## 6533          1          2    0.220700123
## 5275          1          2    0.219501726
## 5614          1          2    0.219341455
## 5403          1          2    0.217909699
## 5153          1          2    0.215657728
## 5499          1          2    0.215637339
## 5864          1          2    0.215146346
## 11052         1          2    0.213870208
## 6404          1          2    0.213783107
## 5425          1          2    0.210920749
## 5493          1          2    0.208184359
## 5888          1          2    0.208102549
## 5724          1          2    0.208074239
## 5448          1          2    0.208040889
## 5917          1          2    0.207946876
## 5597          1          2    0.207855241
## 5581          1          2    0.207847483
## 5979          1          2    0.207795708
```

```
## 6425          1          2    0.207724714
## 8722          1          2    0.207689707
## 5297          1          2    0.207596398
## 5815          1          2    0.207247410
## 5625          1          2    0.207235915
## 5495          1          2    0.207128712
## 5316          1          2    0.206686062
## 5446          1          2    0.206588449
## 5918          1          2    0.206490454
## 8725          1          2    0.205704398
## 5317          1          2    0.205702608
## 8102          1          2    0.205667258
## 5507          1          2    0.205628085
## 5626          1          2    0.205563166
## 5314          1          2    0.204884301
## 5315          1          2    0.204637534
## 5598          1          2    0.204598438
## 8180          1          2    0.204495999
## 5524          1          2    0.204396834
## 5411          1          2    0.203527948
## 5816          1          2    0.203043489
## 8179          1          2    0.202966120
## 5782          1          2    0.202833262
## 6463          1          2    0.202059150
## 5405          1          2    0.201778243
## 5607          1          2    0.201352880
## 5521          1          2    0.201329733
## 5506          1          2    0.200388763
## 6419          1          2    0.199884767
## 5525          1          2    0.199811956
## 6422          1          2    0.199783514
## 5523          1          2    0.199727430
## 5624          1          2    0.199618543
## 8723          1          2    0.198488174
## 5409          1          2    0.197742974
## 6431          1          2    0.197729270
## 8103          1          2    0.197638574
## 6911          1          2    0.197635150
## 6424          1          2    0.196498017
## 5600          1          2    0.196433951
## 5969          1          2    0.195568712
## 6534          1          2    0.195439462
## 8724          1          2    0.194233232
## 5410          1          2    0.193323501
## 5672          1          2    0.193246571
## 5781          1          2    0.193189692
## 6430          1          2    0.190684238
## 8035          1          2    0.189848380
## 5817          1          2    0.189702716
## 5445          1          2    0.188212755
## 6421          1          2    0.187417464
## 5494          1          2    0.187254348
## 5599          1          2    0.187094186
## 6420          1          2    0.185583114
```

```
## 5722        1        2   0.182775850
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## 6423        1        2   0.181926291
## 8036        1        2   0.177588418
## 6449        1        2   0.177446015
## 6485        1        2   0.177342121
## 5646        1        2   0.177324310
## 5496        1        2   0.177308123
## 8792        1        2   0.177288996
## 6942        1        2   0.177250491
## 5701        1        2   0.177245640
## 17469       1        2   0.177231345
## 6535        1        2   0.177202673
## 5644        1        2   0.177093356
## 17399       1        2   0.177064009
## 10478       1        2   0.176932933
## 10477       1        2   0.176917422
## 8990        1        2   0.176868859
## 5440        1        2   0.176782179
## 11045       1        2   0.176764526
## 6464        1        2   0.176761732
## 5519        1        2   0.176695071
## 6415        1        2   0.176677963
## 5892        1        2   0.176648314
## 5921        1        2   0.176425343
## 5702        1        2   0.176351482
## 5740        1        2   0.176267378
## 6465        1        2   0.176213523
## 6411        1        2   0.176039364
## 5645        1        2   0.175992905
## 5617        1        2   0.175661707
## 7403        1        2   0.175533121
## 5893        1        2   0.175337866
## 5520        1        2   0.175331252
## 6482        1        2   0.175075608
## 5620        1        2   0.174485606
## 8794        1        2   0.174439971
## 8793        1        2   0.174352030
## 5643        1        2   0.174345369
## 5699        1        2   0.174317227
## 8037        1        2   0.173448951
## 6480        1        2   0.173368425
## 5618        1        2   0.173299692
## 5818        1        2   0.173272375
## 5438        1        2   0.173202750
## 6296        1        2   0.173161713
## 5698        1        2   0.173110659
## 5497        1        2   0.173099657
## 5615        1        2   0.171876994
## 6297        1        2   0.169258783
## 6487        1        2   0.169197642
## 5786        1        2   0.169064331
## 5441        1        2   0.168639243
## 6484        1        2   0.168356780
```

```
## 5676      1        2   0.168309323
## 6416      1        2   0.167556879
## 5619      1        2   0.166675889
## 5439      1        2   0.166649229
## 5427      1        2   0.166634229
## 8272      1        2   0.166630955
## 5715      1        2   0.166511984
## 5750      1        2   0.165732217
## 5920      1        2   0.165565883
## 5481      1        2   0.165517397
## 5621      1        2   0.164732699
## 5616      1        2   0.164669215
## 6410      1        2   0.163733685
## 5891      1        2   0.163620643
## 6295      1        2   0.162602742
## 6486      1        2   0.162568440
## 6413      1        2   0.161602698
## 6414      1        2   0.160361565
## 5785      1        2   0.160300881
## 5442      1        2   0.160216427
## 6409      1        2   0.160128648
## 7272      1        2   0.160089646
## 6481      1        2   0.160070121
## 8791      1        2   0.159613895
## 5700      1        2   0.159543272
## 5475      1        2   0.159464082
## 8989      1        2   0.157957870
## 5741      1        2   0.157934994
## 5437      1        2   0.155117053
## 6483      1        2   0.155098307
## 5675      1        2   0.154954676
## 6412      1        2   0.152610289
## 8991      1        2   0.145587903
## 5703      1        2   0.145465679
## 6568      1        2   0.145404452
## 5592      1        2   0.145381524
## 5647      1        2   0.145367844
## 5899      1        2   0.145364468
## 6817      1        2   0.145364069
## 5623      1        2   0.145355622
## 5980      1        2   0.145345624
## 5580      1        2   0.145292436
## 5716      1        2   0.145253287
## 9176      1        2   0.145247860
## 5962      1        2   0.145214108
## 6489      1        2   0.145213641
## 6048      1        2   0.145211087
## 5648      1        2   0.144887678
## 9174      1        2   0.144832140
## 6188      1        2   0.144793733
## 9175      1        2   0.144557156
## 5591      1        2   0.144526431
## 6571      1        2   0.144455412
## 5498      1        2   0.144454435
```

```
## 5517       1       2   0.143884739
## 5819       1       2   0.143790232
## 6491       1       2   0.143634642
## 5919       1       2   0.143124907
## 5795       1       2   0.143054042
## 5641       1       2   0.142991706
## 5872       1       2   0.142813684
## 5787       1       2   0.142182992
## 6298       1       2   0.141824407
## 8038       1       2   0.141043632
## 5821       1       2   0.141026176
## 6570       1       2   0.140936307
## 8039       1       2   0.140873208
## 5871       1       2   0.140729974
## 6591       1       2   0.140677709
## 5832       1       2   0.139871220
## 6490       1       2   0.139861280
## 6567       1       2   0.139491446
## 6494       1       2   0.139347886
## 5820       1       2   0.138648497
## 5925       1       2   0.138087194
## 6493       1       2   0.137921061
## 6495       1       2   0.137388890
## 6030       1       2   0.137318524
## 10479      1       2   0.136609243
## 6189       1       2   0.136496867
## 6569       1       2   0.135816572
## 5512       1       2   0.135786841
## 6031       1       2   0.134839757
## 5522       1       2   0.134835593
## 5837       1       2   0.134177554
## 5635       1       2   0.133016742
## 6488       1       2   0.132478446
## 6174       1       2   0.131227101
## 5922       1       2   0.131216135
## 5518       1       2   0.131148067
## 6029       1       2   0.131101296
## 6492       1       2   0.130734039
## 5622       1       2   0.130713474
## 5800       1       2   0.130690038
## 5511       1       2   0.129269210
## 5636       1       2   0.127022840
## 5708       1       2   0.112088008
## 5822       1       2   0.112039211
## 5705       1       2   0.112008421
## 6302       1       2   0.111981119
## 5788       1       2   0.111959717
## 6440       1       2   0.111958683
## 8457       1       2   0.111956525
## 5898       1       2   0.111867707
## 7300       1       2   0.111864036
## 7274       1       2   0.111822058
## 6025       1       2   0.111791921
## 6033       1       2   0.111791921
```

```
## 6304        1        2    0.111696060
## 5737        1        2    0.111663456
## 6595        1        2    0.111652396
## 6603        1        2    0.111643272
## 5825        1        2    0.111635282
## 6593        1        2    0.111612929
## 5606        1        2    0.111581911
## 5824        1        2    0.111566681
## 5726        1        2    0.111541384
## 5483        1        2    0.111528451
## 5956        1        2    0.111513976
## 5963        1        2    0.111423395
## 5797        1        2    0.111355301
## 5736        1        2    0.111311091
## 8458        1        2    0.111238348
## 6022        1        2    0.111152821
## 5633        1        2    0.110859759
## 5627        1        2    0.110776126
## 5631        1        2    0.110770606
## 6439        1        2    0.110290213
## 6597        1        2    0.110190918
## 5738        1        2    0.110161017
## 6024        1        2    0.110082144
## 6000        1        2    0.110061066
## 6001        1        2    0.110053077
## 5709        1        2    0.110036539
## 6303        1        2    0.110030030
## 11046       1        2    0.109527538
## 17869       1        2    0.109437663
## 6811        1        2    0.109287580
## 6604        1        2    0.109276993
## 7273        1        2    0.109127440
## 6599        1        2    0.108786298
## 5629        1        2    0.108761391
## 5823        1        2    0.108714100
## 5999        1        2    0.108576045
## 6142        1        2    0.108463097
## 6301        1        2    0.108437862
## 5838        1        2    0.108391653
## 9235        1        2    0.108387166
## 5678        1        2    0.108374540
## 6140        1        2    0.108369903
## 5743        1        2    0.108341889
## 6141        1        2    0.108316041
## 6032        1        2    0.107825669
## 6600        1        2    0.107812384
## 5704        1        2    0.107808835
## 5792        1        2    0.107779752
## 5628        1        2    0.107455484
## 6601        1        2    0.107386901
## 5706        1        2    0.107266018
## 6818        1        2    0.106857917
## 6819        1        2    0.106791314
## 5677        1        2    0.106770032
```

```
## 6299          1          2    0.106451132
## 6594          1          2    0.106283694
## 5796          1          2    0.106246948
## 6602          1          2    0.106242611
## 6596          1          2    0.105829447
## 9234          1          2    0.105173633
## 5789          1          2    0.105172709
## 5826          1          2    0.105076078
## 6598          1          2    0.104681389
## 5634          1          2    0.104552738
## 6643          1          2    0.103792064
## 5696          1          2    0.103314528
## 8456          1          2    0.102473075
## 6572          1          2    0.102465009
## 6592          1          2    0.102392331
## 6300          1          2    0.102226248
## 5679          1          2    0.102061503
## 5632          1          2    0.101011053
## 6605          1          2    0.100944390
## 5926          1          2    0.100901742
## 9233          1          2    0.100731927
## 5630          1          2    0.099441404
## 5697          1          2    0.099440594
## 9321          1          2    0.099437074
## 5695          1          2    0.096580289
## 5742          1          2    0.094992213
## 6109          1          2    0.091956973
## 5707          1          2    0.091951990
## 6674          1          2    0.077235544
## 9322          1          2    0.077227439
## 8459          1          2    0.077177287
## 6049          1          2    0.077120614
## 5996          1          2    0.077109522
## 6309          1          2    0.077057514
## 8435          1          2    0.077039970
## 5710          1          2    0.076995582
## 6157          1          2    0.076954335
## 5765          1          2    0.076943682
## 6065          1          2    0.076891440
## 6531          1          2    0.076886936
## 5755          1          2    0.076878703
## 6812          1          2    0.076851138
## 6062          1          2    0.076713058
## 5830          1          2    0.076694490
## 5745          1          2    0.076687106
## 6676          1          2    0.076389876
## 6036          1          2    0.076372441
## 6168          1          2    0.076366135
## 6061          1          2    0.076256698
## 6034          1          2    0.075985431
## 5754          1          2    0.075960919
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## 7135          1          2    0.075852658
## 5712          1          2    0.075849718
```

```
## 6310       1       2   0.075599721
## 6064       1       2   0.075517658
## 6441       1       2   0.075517339
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## 5793       1       2   0.075369306
## 10480      1       2   0.075366209
## 6940       1       2   0.075325975
## 6675       1       2   0.075302880
## 7134       1       2   0.075023203
## 5766       1       2   0.074994983
## 5829       1       2   0.074990025
## 5739       1       2   0.074924529
## 5771       1       2   0.074921085
## 5751       1       2   0.074917623
## 5764       1       2   0.074909457
## 9586       1       2   0.074903229
## 9324       1       2   0.074713255
## 6680       1       2   0.074433157
## 5753       1       2   0.074415263
## 5791       1       2   0.074374971
## 7301       1       2   0.074349349
## 8460       1       2   0.074343396
## 5790       1       2   0.074305978
## 5798       1       2   0.074298687
## 5763       1       2   0.073685673
## 6307       1       2   0.073332737
## 5799       1       2   0.073304879
## 6215       1       2   0.073259383
## 6159       1       2   0.072492785
## 9323       1       2   0.072487979
## 6156       1       2   0.072484610
## 7404       1       2   0.072406759
## 5827       1       2   0.072337984
## 6306       1       2   0.072291563
## 5828       1       2   0.072253796
## 6305       1       2   0.071636306
## 7302       1       2   0.071588218
## 5744       1       2   0.070662589
## 6678       1       2   0.070662589
## 6070       1       2   0.070544142
## 6820       1       2   0.069798684
## 9325       1       2   0.069702432
## 6158       1       2   0.069681469
## 6308       1       2   0.068872719
## 5770       1       2   0.068531603
## 6035       1       2   0.068518861
## 5960       1       2   0.067855120
## 6679       1       2   0.067838515
## 6677       1       2   0.067819170
## 6063       1       2   0.066907344
## 5752       1       2   0.066869933
## 8461       1       2   0.063839154
## 6066       1       2   0.040878862
## 11866      1       2   0.040875096
```

```
## 6813       1       2   0.040856032
## 5756       1       2   0.040848365
## 5930       1       2   0.040842507
## 6245       1       2   0.040822254
## 5885       1       2   0.040790035
## 5957       1       2   0.040756689
## 6828       1       2   0.040748222
## 6833       1       2   0.040721585
## 6639       1       2   0.040711746
## 5882       1       2   0.040707756
## 5794       1       2   0.040702074
## 5886       1       2   0.040666818
## 6830       1       2   0.040664693
## 6039       1       2   0.040661232
## 5747       1       2   0.040615889
## 6040       1       2   0.040601358
## 5749       1       2   0.040592124
## 7275       1       2   0.040553884
## 6041       1       2   0.040531646
## 6832       1       2   0.040528222
## 5767       1       2   0.040462860
## 6067       1       2   0.040459469
## 5772       1       2   0.040433406
## 6831       1       2   0.040420646
## 6827       1       2   0.040403127
## 6974       1       2   0.040385151
## 5884       1       2   0.040382789
## 5757       1       2   0.040202228
## 6814       1       2   0.040167330
## 6312       1       2   0.040137196
## 5773       1       2   0.040098812
## 5881       1       2   0.040087664
## 5769       1       2   0.039996482
## 5961       1       2   0.039967171
## 6815       1       2   0.039932464
## 6829       1       2   0.039932440
## 5746       1       2   0.039915286
## 6975       1       2   0.039905163
## 5723       1       2   0.039673472
## 6976       1       2   0.039623188
## 5714       1       2   0.039621137
## 6187       1       2   0.039612485
## 6217       1       2   0.039586430
## 5775       1       2   0.039355813
## 5748       1       2   0.039307839
## 6977       1       2   0.039306132
## 6218       1       2   0.039286326
## 6172       1       2   0.039280097
## 5776       1       2   0.038985529
## 5774       1       2   0.038983711
## 11867      1       2   0.038938026
## 6216       1       2   0.038915475
## 6171       1       2   0.038548692
## 5758       1       2   0.038533800
```

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## 10644      1      2   0.038084074
## 10643      1      2   0.038082743
## 6500       1      2   0.038052318
## 6223       1      2   0.037919046
## 7653       1      2   0.037580830
## 7085       1      2   0.037573091
## 11865      1      2   0.037565775
## 5887       1      2   0.037546647
## 5768       1      2   0.037531833
## 8436       1      2   0.037044124
## 6286       1      2   0.037042654
## 5713       1      2   0.036498474
## 5883       1      2   0.033704679
## 11898      2      3   0.723249384
## 9518       2      3   0.722934763
## 9566       2      3   0.722934763
## 9613       2      3   0.722809082
## 10780      2      3   0.722746619
## 9526       2      3   0.722576749
## 9252       2      3   0.722468401
## 9551       2      3   0.722373940
## 9335       2      3   0.722211809
## 9889       2      3   0.721904912
## 9390       2      3   0.721764345
## 9515       2      3   0.721608287
## 11294      2      3   0.721520529
## 9493       2      3   0.721441505
## 9608       2      3   0.721427460
## 9204       2      1   0.721372431
## 9559       2      3   0.721324332
## 10340      2      1   0.721267868
## 12550      2      3   0.721254371
## 9407       2      1   0.721071587
## 9374       2      1   0.720986714
## 9545       2      1   0.720913740
## 9400       2      1   0.720798363
## 9251       2      3   0.720736387
## 14683      2      1   0.720715154
## 9539       2      1   0.720460509
## 9439       2      1   0.720440726
## 9435       2      1   0.720267116
## 14692      2      3   0.720163671
## 9308       2      1   0.720110533
## 9401       2      1   0.720037064
## 9357       2      3   0.719903674
## 9696       2      3   0.719746914
## 10620      2      3   0.719738998
## 14700      2      3   0.719721515
## 11192      2      1   0.719676224
## 10153      2      3   0.719636810
## 10515      2      1   0.719634558
## 9830       2      3   0.719617505
## 9496       2      3   0.719549285
## 9529       2      3   0.719456174
```

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## 9257       2        3    0.719427096
## 10624      2        3    0.719427096
## 15502      2        3    0.719302005
## 9752       2        3    0.719176895
## 10039      2        1    0.719172779
## 9403       2        1    0.719124669
## 14694      2        3    0.719106961
## 14705      2        3    0.719093211
## 14688      2        1    0.719037728
## 9339       2        1    0.719020188
## 9825       2        3    0.718903200
## 9268       2        3    0.718841064
## 9920       2        3    0.718759490
## 9970       2        3    0.718755297
## 9362       2        3    0.718746573
## 9542       2        3    0.718738527
## 9571       2        3    0.718695505
## 12817      2        3    0.718694697
## 9897       2        3    0.718647465
## 9872       2        3    0.718638731
## 9253       2        3    0.718483996
## 9592       2        1    0.718232009
## 9594       2        3    0.718228437
## 9521       2        1    0.717917668
## 13144      2        3    0.717807541
## 13143      2        1    0.717756855
## 9573       2        1    0.717711505
## 9499       2        1    0.717682175
## 9434       2        1    0.717632198
## 9098       2        1    0.717597557
## 10152      2        3    0.717587188
## 14699      2        3    0.717546870
## 14674      2        1    0.717520392
## 14687      2        1    0.717508992
## 9388       2        1    0.717466880
## 9498       2        1    0.717465357
## 9438       2        1    0.717456068
## 9561       2        3    0.717454213
## 9393       2        3    0.717374308
## 9396       2        3    0.717332197
## 9676       2        1    0.717305580
## 14685      2        1    0.717303062
## 14712      2        3    0.717285591
## 9899       2        3    0.717283947
## 9513       2        1    0.717282084
## 9567       2        3    0.717256624
## 9503       2        1    0.717247581
## 10081      2        3    0.717243582
## 9360       2        3    0.717222385
## 10690      2        1    0.717188670
## 14708      2        3    0.717178739
## 9437       2        1    0.717148516
## 9430       2        1    0.717148085
## 9541       2        3    0.717102532
```

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## 9564          2          3   0.717023727
## 9432          2          1   0.716968417
## 9535          2          3   0.716921959
## 9517          2          3   0.716889549
## 9516          2          3   0.716857720
## 9563          2          3   0.716806469
## 9871          2          1   0.716785996
## 9675          2          1   0.716752133
## 15094         2          1   0.716742207
## 10742         2          3   0.716618007
## 9398          2          1   0.716600672
## 9585          2          3   0.716569658
## 14669         2          1   0.716508455
## 14723         2          3   0.716475897
## 14726         2          3   0.716436300
## 9674          2          1   0.716434405
## 9208          2          1   0.716397592
## 9807          2          3   0.716249142
## 9363          2          3   0.716236960
## 10321         2          3   0.716201190
## 9494          2          3   0.716145313
## 9497          2          1   0.716112198
## 9695          2          3   0.716047221
## 9488          2          3   0.716005379
## 9634          2          3   0.715985354
## 11223         2          3   0.715830735
## 9833          2          3   0.715802955
## 9338          2          3   0.715800037
## 10603         2          3   0.715779997
## 9206          2          1   0.715774847
## 9727          2          3   0.715736479
## 10741         2          3   0.715703379
## 14709         2          3   0.715687480
## 9971          2          3   0.715660807
## 14721         2          3   0.715613167
## 9749          2          3   0.715579102
## 9849          2          1   0.715567368
## 9827          2          3   0.715533102
## 10625         2          3   0.715523213
## 9600          2          3   0.715513816
## 9976          2          1   0.715513273
## 9829          2          3   0.715490495
## 14703         2          3   0.715478632
## 9514          2          1   0.715450687
## 9711          2          3   0.715432995
## 9406          2          1   0.715426490
## 9630          2          3   0.715395098
## 9530          2          3   0.715382901
## 9570          2          3   0.715372420
## 10740         2          3   0.715347118
## 10320         2          3   0.715335830
## 11291         2          1   0.715247618
## 10040         2          3   0.715236304
## 9405          2          1   0.715216893
```

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## 9574      2      1   0.715214444
## 9734      2      3   0.715175109
## 11641     2      3   0.715155982
## 9399      2      1   0.715131510
## 9710      2      3   0.715108127
## 9429      2      1   0.714945271
## 14696     2      3   0.714719686
## 14693     2      3   0.714439923
## 11640     2      3   0.714416537
## 9017      2      1   0.714245988
## 14698     2      3   0.714225455
## 9809      2      3   0.714099284
## 9293      2      1   0.714049457
## 14673     2      1   0.714027914
## 9384      2      1   0.713996591
## 9569      2      3   0.713974452
## 9236      2      1   0.713943688
## 9019      2      1   0.713935896
## 14722     2      3   0.713931620
## 14727     2      3   0.713907586
## 14672     2      1   0.713904975
## 9629      2      3   0.713885996
## 9281      2      1   0.713873520
## 9636      2      3   0.713830191
## 14358     2      1   0.713795785
## 10691     2      1   0.713794633
## 9635      2      3   0.713778392
## 9471      2      1   0.713763665
## 9728      2      3   0.713743075
## 9020      2      1   0.713704742
## 9632      2      3   0.713687369
## 9356      2      1   0.713669551
## 14710     2      3   0.713617118
## 10434     2      3   0.713424424
## 9332      2      3   0.713368241
## 11895     2      1   0.713288715
## 9383      2      1   0.713250385
## 9207      2      1   0.713205925
## 9306      2      1   0.713185357
## 9297      2      1   0.713103461
## 14689     2      1   0.713026053
## 10119     2      3   0.712977659
## 9022      2      1   0.712968212
## 14682     2      1   0.712871561
## 14353     2      1   0.712827371
## 14735     2      3   0.712779432
## 9189      2      1   0.712759498
## 9307      2      1   0.712656612
## 9532      2      3   0.712605483
## 9633      2      3   0.712605483
## 9763      2      3   0.712603120
## 9298      2      1   0.712590152
## 9762      2      3   0.712575534
## 10187     2      1   0.712526142
```

```
## 9523    2    3    0.712500876
## 10738   2    3    0.712445065
## 10060   2    3    0.712426679
## 14714   2    3    0.712416780
## 10353   2    3    0.712390740
## 14680   2    1    0.712384173
## 9842    2    3    0.712295950
## 9556    2    3    0.712212966
## 9531    2    3    0.712198222
## 10376   2    3    0.712170609
## 14736   2    3    0.712127828
## 9851    2    3    0.712121723
## 9256    2    3    0.712037020
## 10043   2    3    0.711949454
## 9873    2    3    0.711924824
## 9465    2    1    0.711806268
## 9718    2    3    0.711790009
## 9977    2    3    0.711718745
## 9030    2    1    0.711665005
## 9163    2    1    0.711639925
## 9553    2    3    0.711598490
## 9583    2    1    0.711564690
## 9099    2    1    0.711536207
## 9823    2    3    0.711525771
## 11781   2    1    0.711495697
## 9382    2    1    0.711451800
## 12671   2    3    0.711451662
## 9891    2    3    0.711443696
## 15553   2    3    0.711431149
## 9381    2    1    0.711421276
## 14730   2    3    0.711407925
## 9522    2    3    0.711361030
## 9642    2    3    0.711329316
## 9848    2    1    0.711326451
## 9361    2    3    0.711267877
## 14355   2    1    0.711262698
## 9254    2    3    0.711245423
## 9302    2    1    0.711228037
## 9572    2    3    0.711164601
## 9595    2    3    0.711000481
## 14737   2    3    0.710781443
## 10739   2    3    0.710744076
## 9972    2    3    0.710695045
## 9738    2    3    0.710628267
## 9370    2    1    0.710479382
## 9506    2    1    0.710472133
## 10319   2    3    0.710350511
## 10605   2    3    0.710347353
## 14160   2    3    0.710339429
## 10218   2    1    0.710273076
## 9628    2    3    0.710264351
## 9682    2    1    0.710248474
## 14715   2    3    0.710188744
## 9631    2    3    0.710165892
```

```
## 14352        2            1   0.710119664
## 9012         2            1   0.710053892
## 9193         2            1   0.710001524
## 9211         2            1   0.709945513
## 9720         2            3   0.709925749
## 10037        2            1   0.709903419
## 8874         2            1   0.709880002
## 9180         2            1   0.709847057
## 10777        2            1   0.709813454
## 14667        2            1   0.709771469
## 9371         2            1   0.709726121
## 9687         2            3   0.709678771
## 9681         2            1   0.709632435
## 14359        2            1   0.709620649
## 9123         2            1   0.709612756
## 9209         2            1   0.709559055
## 10922        2            1   0.709537282
## 9352         2            1   0.709530593
## 9155         2            1   0.709523428
## 9156         2            1   0.709507323
## 9540         2            1   0.709455208
## 8902         2            1   0.709432941
## 9241         2            1   0.709420647
## 9461         2            1   0.709391240
## 9428         2            1   0.709373366
## 9290         2            1   0.709368684
## 9507         2            1   0.709347594
## 9192         2            1   0.709332653
## 9215         2            1   0.709315233
## 9182         2            1   0.709242688
## 11303        2            1   0.709148850
## 9080         2            1   0.709089925
## 9300         2            1   0.709068134
## 10435        2            3   0.709020026
## 10779        2            3   0.709012072
## 9196         2            1   0.709011873
## 8904         2            1   0.708994008
## 9927         2            3   0.708982810
## 9813         2            3   0.708946080
## 9392         2            3   0.708919437
## 14697        2            3   0.708902607
## 10861        2            3   0.708884434
## 10913        2            3   0.708854861
## 9843         2            3   0.708842900
## 9549         2            3   0.708836242
## 9624         2            3   0.708817142
## 9560         2            3   0.708768993
## 11225        2            3   0.708763719
## 9150         2            1   0.708744881
## 10912        2            3   0.708742213
## 12674        2            3   0.708742213
## 9492         2            3   0.708740121
## 9188         2            1   0.708721980
## 9533         2            3   0.708673363
```

```
## 9368          2          3   0.708661490
## 9336          2          3   0.708654089
## 11224         2          3   0.708637351
## 15529         2          3   0.708609520
## 9923          2          3   0.708595463
## 9845          2          3   0.708586416
## 9210          2          1   0.708578324
## 9739          2          3   0.708537332
## 9759          2          3   0.708523172
## 9546          2          3   0.708506062
## 9850          2          3   0.708482165
## 9904          2          3   0.708363747
## 9928          2          3   0.708348194
## 9769          2          3   0.708315371
## 9697          2          3   0.708301642
## 14733         2          3   0.708294567
## 9578          2          3   0.708227358
## 9501          2          1   0.708209557
## 9520          2          3   0.708191163
## 9282          2          1   0.708120870
## 9502          2          1   0.708061963
## 9839          2          3   0.707968612
## 14720         2          3   0.707939325
## 14725         2          3   0.707765617
## 9582          2          1   0.707616805
## 14718         2          3   0.707570903
## 9296          2          1   0.707494903
## 10322         2          3   0.707479210
## 14678         2          1   0.707456969
## 10375         2          1   0.707437869
## 9627          2          3   0.707384830
## 11193         2          1   0.707287411
## 9924          2          3   0.707256500
## 9460          2          1   0.707230369
## 9373          2          1   0.707208435
## 9200          2          1   0.707131390
## 9770          2          3   0.707123520
## 9468          2          1   0.707122881
## 14681         2          1   0.706997232
## 9593          2          1   0.706989199
## 9469          2          1   0.706985329
## 10692         2          1   0.706956833
## 14675         2          1   0.706909031
## 9230          2          1   0.706905124
## 14679         2          1   0.706904862
## 9640          2          3   0.706892693
## 12672         2          3   0.706892080
## 14671         2          1   0.706870813
## 9643          2          3   0.706807500
## 14676         2          1   0.706766503
## 9153          2          1   0.706759364
## 9940          2          3   0.706725130
## 10776         2          1   0.706670912
## 9844          2          3   0.706607155
```

```
## 9641      2      3   0.706605936
## 10916     2      3   0.706492722
## 10374     2      1   0.706338895
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## 9893      2      3   0.706199404
## 11892     2      1   0.706163070
## 9387      2      1   0.706120588
## 9761      2      3   0.706106828
## 14732     2      3   0.706066518
## 9181      2      1   0.706018315
## 14360     2      1   0.705920399
## 9092      2      1   0.705904911
## 9173      2      1   0.705862823
## 9016      2      1   0.705858705
## 9584      2      1   0.705830504
## 9576      2      3   0.705785867
## 9527      2      3   0.705724926
## 9464      2      1   0.705723924
## 10626     2      3   0.705682864
## 9232      2      1   0.705628170
## 10046     2      1   0.705528305
## 10080     2      3   0.705525548
## 9544      2      3   0.705503549
## 12552     2      3   0.705473409
## 9266      2      1   0.705471370
## 10371     2      1   0.705444741
## 9828      2      3   0.705442821
## 9010      2      1   0.705403239
## 14356     2      1   0.705403239
## 14711     2      3   0.705398721
## 9238      2      1   0.705391712
## 10509     2      1   0.705340081
## 9179      2      1   0.705335703
## 12669     2      3   0.705300656
## 9018      2      1   0.705292561
## 10338     2      1   0.705279921
## 9832      2      3   0.705278366
## 9124      2      1   0.705204299
## 14724     2      3   0.705158012
## 11893     2      1   0.705152783
## 14643     2      1   0.705067062
## 9708      2      3   0.705027228
## 12381     2      1   0.704958129
## 14691     2      3   0.704910907
## 9072      2      1   0.704864734
## 9922      2      3   0.704850636
## 9458      2      1   0.704782193
## 9941      2      3   0.704682570
## 9929      2      3   0.704672416
## 9943      2      3   0.704671810
## 10911     2      3   0.704643686
## 9177      2      1   0.704622668
## 10594     2      3   0.704606997
## 9926      2      3   0.704605639
```

```
## 9716        2        3   0.704562010
## 9619        2        3   0.704516349
## 14717       2        3   0.704514914
## 10303       2        3   0.704504840
## 10162       2        3   0.704444644
## 10426       2        3   0.704435151
## 9126        2        1   0.704383163
## 10427       2        3   0.704368155
## 9212        2        1   0.704324326
## 10015       2        3   0.704310465
## 10510       2        1   0.704308053
## 9313        2        1   0.704299633
## 11092       2        3   0.704212304
## 9964        2        3   0.704185691
## 11109       2        3   0.704157529
## 13930       2        1   0.704150141
## 9314        2        1   0.703996946
## 10155       2        1   0.703953429
## 9354        2        1   0.703934179
## 10165       2        3   0.703901511
## 9299        2        1   0.703744943
## 9756        2        3   0.703713647
## 9490        2        1   0.703708299
## 9470        2        1   0.703646244
## 10188       2        3   0.703603542
## 9157        2        1   0.703600470
## 9440        2        1   0.703595632
## 9505        2        1   0.703570873
## 9279        2        1   0.703541355
## 9579        2        1   0.703519578
## 9609        2        1   0.703473759
## 9389        2        1   0.703469150
## 10014       2        3   0.703459341
## 9677        2        1   0.703407193
## 9930        2        3   0.703396686
## 10016       2        3   0.703315734
## 11292       2        1   0.703312303
## 10166       2        3   0.703259978
## 9096        2        1   0.703228184
## 9304        2        1   0.703226710
## 9386        2        1   0.703180011
## 10156       2        1   0.702923800
## 9767        2        3   0.702880716
## 9122        2        1   0.702804952
## 9868        2        3   0.702695346
## 14059       2        3   0.702637308
## 9359        2        3   0.702385499
## 9840        2        3   0.702262992
## 9730        2        3   0.702059817
## 9622        2        3   0.702039535
## 9487        2        3   0.702024310
## 10743       2        3   0.701992312
## 9379        2        3   0.701956867
## 14702       2        3   0.701934892
```

```
## 9380      2      3  0.701681835
## 9815      2      3  0.701632094
## 9187      2      1  0.701627023
## 9272      2      1  0.701606254
## 8916      2      1  0.701571381
## 9027      2      1  0.701546192
## 9065      2      1  0.701459016
## 9091      2      1  0.701418281
## 9147      2      1  0.701312795
## 14734     2      3  0.701286096
## 9892      2      3  0.701275907
## 8903      2      1  0.701231711
## 9598      2      3  0.701228652
## 9737      2      3  0.701184062
## 9938      2      3  0.701182786
## 9562      2      3  0.701181540
## 9588      2      3  0.701170930
## 9365      2      3  0.701159845
## 15528     2      3  0.701159791
## 9013      2      1  0.701080054
## 9066      2      1  0.701078416
## 10154     2      1  0.701039855
## 9237      2      1  0.700946215
## 10068     2      1  0.700849682
## 9810      2      1  0.700555522
## 9729      2      3  0.700353222
## 9201      2      1  0.700323466
## 9431      2      1  0.700201735
## 10098     2      3  0.700197221
## 9102      2      1  0.700174945
## 10069     2      3  0.700129911
## 9270      2      1  0.700127936
## 9678      2      1  0.700126404
## 10011     2      3  0.700113730
## 10017     2      3  0.700072576
## 9975      2      3  0.700031189
## 13139     2      1  0.700021271
## 9198      2      1  0.700015425
## 9500      2      1  0.700006332
## 9397      2      1  0.699973219
## 10013     2      3  0.699903107
## 9269      2      1  0.699867117
## 10216     2      1  0.699854840
## 14684     2      1  0.699853858
## 9244      2      1  0.699802430
## 9765      2      3  0.699782833
## 10173     2      3  0.699768367
## 9906      2      3  0.699748754
## 9925      2      3  0.699744872
## 9295      2      1  0.699740742
## 10304     2      3  0.699702835
## 12680     2      3  0.699662462
## 9894      2      3  0.699642682
## 10008     2      3  0.699629562
```

```
## 9245         2           1    0.699607160
## 9841         2           3    0.699584097
## 10103        2           3    0.699575462
## 13448        2           1    0.699555614
## 9591         2           1    0.699546608
## 14815        2           3    0.699543972
## 10867        2           3    0.699466235
## 11793        2           1    0.699457373
## 8870         2           1    0.699444448
## 9934         2           3    0.699409770
## 9104         2           1    0.699365702
## 9581         2           1    0.699343214
## 11123        2           3    0.699341284
## 11097        2           3    0.699238660
## 9303         2           1    0.699238495
## 9037         2           1    0.699237297
## 10172        2           3    0.699194260
## 9038         2           1    0.699135413
## 9225         2           1    0.698996106
## 10609        2           3    0.698971111
## 9149         2           1    0.698958133
## 14716        2           3    0.698765394
## 9261         2           1    0.698760606
## 9590         2           1    0.698732721
## 9680         2           1    0.698724398
## 9831         2           3    0.698714697
## 9358         2           3    0.698648150
## 12670        2           3    0.698594074
## 9596         2           3    0.698543911
## 9900         2           3    0.698518479
## 9758         2           3    0.698476799
## 9890         2           3    0.698473551
## 9835         2           3    0.698472841
## 9337         2           3    0.698465123
## 10083        2           3    0.698449514
## 9463         2           1    0.698444982
## 9719         2           3    0.698434223
## 14731        2           3    0.698394934
## 9548         2           3    0.698385964
## 9796         2           3    0.698368768
## 9932         2           3    0.698368768
## 14719        2           3    0.698359088
## 10436        2           3    0.698288472
## 9459         2           1    0.698266201
## 14729        2           3    0.698257335
## 9528         2           3    0.698241655
## 11899        2           3    0.698231273
## 14728        2           3    0.698206146
## 9826         2           3    0.698177243
## 12676        2           3    0.698174678
## 9568         2           3    0.698174355
## 9638         2           3    0.698145677
## 9597         2           3    0.698144709
## 15001        2           3    0.698133942
```

```
## 9637      2      3   0.698126521
## 9921      2      3   0.698106086
## 12678     2      3   0.698096245
## 10672     2      3   0.698037148
## 9713      2      3   0.698004055
## 10167     2      3   0.697972817
## 9764      2      3   0.697933852
## 10164     2      3   0.697897647
## 10607     2      3   0.697873839
## 10012     2      3   0.697840648
## 9905      2      3   0.697784474
## 10361     2      3   0.697480869
## 9944      2      3   0.697448266
## 9547      2      3   0.697413211
## 10045     2      1   0.697225467
## 9275      2      1   0.697187150
## 9273      2      1   0.697119706
## 10044     2      3   0.697084364
## 11108     2      3   0.697030410
## 8842      2      1   0.697021340
## 10121     2      3   0.696978887
## 16008     2      3   0.696952216
## 9740      2      3   0.696829195
## 9060      2      1   0.696738592
## 10863     2      3   0.696551432
## 8871      2      1   0.696534819
## 9263      2      1   0.696496093
## 9061      2      1   0.696494706
## 10712     2      3   0.696440481
## 9056      2      1   0.696316078
## 9108      2      1   0.696280204
## 9404      2      1   0.696255470
## 9011      2      1   0.696234373
## 9267      2      1   0.696189896
## 9278      2      1   0.696159687
## 9378      2      1   0.696159687
## 14351     2      1   0.696100499
## 12556     2      1   0.695996699
## 11098     2      3   0.695927549
## 9350      2      1   0.695912643
## 14686     2      1   0.695842364
## 9870      2      1   0.695819586
## 10049     2      3   0.695726201
## 11096     2      3   0.695662237
## 11897     2      1   0.695648954
## 11792     2      1   0.695610639
## 9329      2      1   0.695599939
## 8873      2      1   0.695573830
## 8817      2      1   0.695564335
## 9621      2      3   0.695519653
## 10868     2      3   0.695504339
## 9960      2      3   0.695492610
## 9933      2      3   0.695487633
## 9221      2      1   0.695474737
```

```
## 8830      2      1   0.695450699
## 11191     2      1   0.695442880
## 15620     2      3   0.695428221
## 10516     2      1   0.695419898
## 10028     2      3   0.695268608
## 9151      2      1   0.695256559
## 10210     2      3   0.695236680
## 8816      2      1   0.695136164
## 9129      2      1   0.695097243
## 9048      2      1   0.695056615
## 9366      2      3   0.694992233
## 14816     2      3   0.694934427
## 8828      2      1   0.694894743
## 10606     2      3   0.694669777
## 9078      2      1   0.694664874
## 9898      2      3   0.694653155
## 9709      2      3   0.694588614
## 8917      2      1   0.694584116
## 9689      2      3   0.694539139
## 15788     2      3   0.694482885
## 10059     2      3   0.694452111
## 10214     2      3   0.694438248
## 10604     2      3   0.694438003
## 10175     2      3   0.694418174
## 13264     2      3   0.694388205
## 9822      2      3   0.694387971
## 10611     2      3   0.694387403
## 9486      2      3   0.694372041
## 10107     2      3   0.694358313
## 13141     2      1   0.694350768
## 9834      2      3   0.694339322
## 13140     2      1   0.694334544
## 9224      2      1   0.694322276
## 8921      2      1   0.694308261
## 13929     2      1   0.694294326
## 9639      2      3   0.694291757
## 10055     2      3   0.694267629
## 12673     2      3   0.694214717
## 8865      2      1   0.694213268
## 8894      2      1   0.694181219
## 8922      2      1   0.694170009
## 8897      2      1   0.694147873
## 9035      2      1   0.694136731
## 10088     2      3   0.694114797
## 8892      2      1   0.694102326
## 10084     2      3   0.694017647
## 10089     2      3   0.693980921
## 14704     2      3   0.693969932
## 10312     2      3   0.693939915
## 9114      2      1   0.693919340
## 10959     2      3   0.693901139
## 8987      2      1   0.693813700
## 8843      2      1   0.693740643
## 9264      2      1   0.693740463
```

```
## 10105          2          1    0.693701279
## 9063           2          1    0.693665578
## 9029           2          1    0.693640170
## 9715           2          3    0.693630754
## 15783          2          3    0.693625263
## 10171          2          3    0.693614573
## 9780           2          3    0.693510177
## 9821           2          3    0.693373811
## 9882           2          3    0.693348328
## 10023          2          3    0.693298346
## 9820           2          3    0.693224709
## 10209          2          3    0.693212719
## 9077           2          1    0.693212459
## 10622          2          3    0.693183234
## 9618           2          3    0.693181851
## 10215          2          3    0.693175515
## 10176          2          3    0.693057211
## 14399          2          3    0.692975228
## 11295          2          3    0.692905068
## 10061          2          3    0.692902160
## 9565           2          3    0.692845048
## 10623          2          3    0.692827409
## 8750           2          1    0.692816323
## 9692           2          3    0.692785188
## 8853           2          1    0.692781187
## 9051           2          1    0.692764707
## 8863           2          1    0.692728591
## 10150          2          3    0.692671307
## 10163          2          3    0.692664553
## 10546          2          1    0.692453954
## 15350          2          1    0.692443196
## 9081           2          1    0.692333912
## 10451          2          3    0.692317002
## 10217          2          1    0.692219035
## 10461          2          3    0.692205559
## 12683          2          3    0.692139573
## 10689          2          1    0.692109508
## 9310           2          1    0.692029146
## 8867           2          1    0.692027329
## 9580           2          1    0.692027329
## 9811           2          1    0.691997093
## 9183           2          1    0.691987098
## 14354          2          1    0.691978287
## 10113          2          3    0.691956728
## 14668          2          1    0.691873252
## 13142          2          1    0.691870262
## 9100           2          1    0.691867762
## 12574          2          1    0.691835808
## 9052           2          1    0.691798882
## 9249           2          1    0.691790730
## 14677          2          1    0.691741259
## 14670          2          1    0.691722799
## 8833           2          1    0.691641745
## 8997           2          1    0.691581479
```

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## 11293     2     1   0.691420509
## 9787      2     1   0.691349256
## 8862      2     1   0.691264591
## 9688      2     1   0.691262671
## 9508      2     1   0.691245717
## 9489      2     1   0.691222546
## 10082     2     3   0.691187440
## 9050      2     1   0.691182962
## 10157     2     1   0.691025183
## 10020     2     3   0.690999013
## 12681     2     3   0.690994130
## 11465     2     1   0.690972776
## 10301     2     1   0.690967945
## 9794      2     3   0.690952841
## 9375      2     1   0.690932577
## 8741      2     1   0.690858043
## 10370     2     1   0.690818742
## 10917     2     3   0.690778529
## 10108     2     3   0.690765774
## 10693     2     3   0.690731724
## 10027     2     3   0.690716677
## 14403     2     3   0.690703433
## 9367      2     3   0.690652346
## 9974      2     3   0.690603662
## 9395      2     3   0.690559872
## 9903      2     3   0.690552509
## 10302     2     3   0.690515768
## 9105      2     1   0.690514729
## 9901      2     3   0.690514384
## 12668     2     3   0.690402929
## 10042     2     3   0.690391303
## 9726      2     3   0.690351138
## 8900      2     1   0.690299866
## 9946      2     3   0.690264053
## 9837      2     3   0.690241126
## 10441     2     3   0.690235149
## 9884      2     3   0.690213452
## 15787     2     3   0.690147064
## 10211     2     3   0.690011060
## 9751      2     3   0.689804519
## 9002      2     1   0.689616318
## 14707     2     3   0.689549867
## 9169      2     1   0.689539506
## 9090      2     1   0.689526888
## 9804      2     1   0.689510008
## 8891      2     1   0.689488532
## 13138     2     1   0.689481739
## 8993      2     1   0.689439234
## 11464     2     1   0.689430203
## 8672      2     1   0.689403497
## 9931      2     3   0.689379297
## 9961      2     3   0.689336287
## 12686     2     3   0.689325072
## 8829      2     1   0.689288120
```

```
## 10115      2          3   0.689154025
## 8935       2          1   0.689146809
## 8866       2          1   0.689134370
## 9026       2          1   0.689098696
## 8841       2          1   0.689089163
## 10453      2          3   0.689051284
## 10189      2          3   0.689032303
## 9732       2          1   0.689016594
## 9031       2          1   0.688935045
## 9089       2          1   0.688906826
## 8838       2          1   0.688903716
## 8671       2          1   0.688890840
## 9001       2          1   0.688890840
## 10264      2          3   0.688828569
## 8958       2          1   0.688818846
## 9456       2          1   0.688812272
## 11422      2          3   0.688766774
## 9258       2          1   0.688765909
## 8819       2          1   0.688654180
## 12684      2          3   0.688634970
## 11782      2          3   0.688618051
## 15786      2          3   0.688607689
## 8992       2          1   0.688558692
## 8937       2          1   0.688501941
## 9073       2          1   0.688501941
## 9824       2          3   0.688466251
## 14695      2          3   0.688466251
## 9554       2          3   0.688323578
## 10151      2          3   0.688309500
## 10174      2          3   0.688229471
## 12682      2          3   0.688227276
## 14401      2          3   0.688197248
## 10073      2          3   0.688145783
## 10112      2          3   0.688144131
## 14819      2          3   0.688141273
## 9023       2          1   0.688137655
## 10031      2          3   0.688072212
## 9229       2          1   0.688068171
## 9462       2          1   0.688064593
## 11424      2          3   0.688056750
## 10196      2          1   0.688025443
## 10373      2          1   0.688013723
## 10019      2          3   0.688003430
## 9311       2          1   0.687985827
## 10610      2          3   0.687985314
## 9491       2          3   0.687979700
## 10802      2          3   0.687904213
## 8888       2          1   0.687853651
## 10386      2          3   0.687798267
## 9883       2          3   0.687778664
## 10713      2          3   0.687739626
## 10144      2          3   0.687732948
## 8889       2          1   0.687701664
## 26822      2          3   0.687697110
```

```
## 10106      2        1   0.687600787
## 10145      2        3   0.687589182
## 10339      2        1   0.687541119
## 9327       2        1   0.687405648
## 9372       2        1   0.687357407
## 9097       2        1   0.687284852
## 9003       2        1   0.687250895
## 9006       2        1   0.687245153
## 8957       2        1   0.687220765
## 13131      2        1   0.687215859
## 8942       2        1   0.687043484
## 9812       2        3   0.686943435
## 9028       2        1   0.686903669
## 11650      2        1   0.686898179
## 9795       2        3   0.686857327
## 9457       2        1   0.686840806
## 9587       2        3   0.686781937
## 8941       2        1   0.686766705
## 13458      2        1   0.686749320
## 10224      2        3   0.686726124
## 8893       2        1   0.686705866
## 9377       2        1   0.686688820
## 13136      2        1   0.686675870
## 9058       2        1   0.686633540
## 9364       2        3   0.686605874
## 14058      2        3   0.686580236
## 9277       2        1   0.686569790
## 10146      2        3   0.686469470
## 9402       2        1   0.686451227
## 9690       2        3   0.686364711
## 9623       2        3   0.686308373
## 9538       2        3   0.686302038
## 12677      2        3   0.686295570
## 9260       2        1   0.686265584
## 10220      2        3   0.686210825
## 11889      2        1   0.686148914
## 9616       2        3   0.686129731
## 9808       2        3   0.686113686
## 10352      2        3   0.686034717
## 10177      2        3   0.686005183
## 9185       2        1   0.685928329
## 9615       2        3   0.685901226
## 10168      2        3   0.685900065
## 10447      2        3   0.685898067
## 9614       2        3   0.685888233
## 8965       2        1   0.685845210
## 9909       2        3   0.685834174
## 12867      2        1   0.685793949
## 10067      2        1   0.685790836
## 10123      2        3   0.685786127
## 9735       2        3   0.685776602
## 9779       2        3   0.685741898
## 13130      2        1   0.685694046
## 10034      2        3   0.685653785
```

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## 10036       2          3   0.685639130
## 15294       2          3   0.685636432
## 10033       2          3   0.685630734
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## 8869        2          1   0.685607882
## 11890       2          1   0.685590404
## 9778        2          3   0.685501714
## 9797        2          3   0.685479556
## 12866       2          1   0.685450113
## 8983        2          1   0.685305159
## 11095       2          3   0.685233104
## 10865       2          3   0.685158630
## 10460       2          3   0.685132789
## 9495        2          3   0.685080177
## 9536        2          3   0.685062935
## 10116       2          3   0.684969623
## 9902        2          3   0.684904701
## 9814        2          3   0.684886900
## 9543        2          3   0.684874683
## 14706       2          3   0.684851682
## 10297       2          3   0.684836624
## 10058       2          3   0.684828759
## 14701       2          3   0.684817547
## 9721        2          3   0.684770184
## 10803       2          3   0.684721550
## 11110       2          3   0.684577908
## 10314       2          3   0.684460607
## 9476        2          1   0.684360015
## 8548        2          1   0.684111908
## 8653        2          1   0.683998660
## 8796        2          1   0.683984579
## 8800        2          1   0.683971917
## 13137       2          1   0.683907723
## 10372       2          1   0.683902806
## 9411        2          1   0.683815872
## 9213        2          1   0.683729552
## 8795        2          1   0.683725943
## 8955        2          1   0.683716961
## 9015        2          1   0.683700786
## 11894       2          1   0.683697689
## 8940        2          1   0.683662707
## 10195       2          1   0.683581231
## 8984        2          1   0.683578645
## 9410        2          1   0.683545274
## 9115        2          1   0.683507021
## 9353        2          1   0.683484737
## 11219       2          1   0.683418056
## 9088        2          1   0.683415487
## 8956        2          1   0.683392488
## 9391        2          3   0.683390266
## 8804        2          1   0.683385899
## 9074        2          1   0.683384992
## 9555        2          3   0.683369083
## 9294        2          1   0.683310660
```

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## 8763      2      1   0.683304920
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## 14690     2      3   0.683295530
## 10387     2      3   0.683282310
## 11235     2      3   0.683273282
## 10368     2      3   0.683262088
## 10161     2      1   0.683234680
## 12974     2      3   0.683200168
## 9106      2      1   0.683193601
## 8688      2      1   0.683070492
## 12685     2      3   0.683004067
## 9014      2      1   0.682986361
## 9059      2      1   0.682949476
## 10593     2      1   0.682943553
## 9968      2      3   0.682933454
## 10350     2      1   0.682928877
## 9101      2      1   0.682928021
## 9477      2      1   0.682907866
## 10087     2      3   0.682881125
## 9326      2      1   0.682827347
## 8895      2      1   0.682795615
## 11783     2      3   0.682790656
## 10675     2      3   0.682761976
## 8547      2      1   0.682738587
## 10035     2      3   0.682693651
## 9162      2      1   0.682662029
## 8546      2      1   0.682599118
## 10360     2      3   0.682592289
## 12452     2      1   0.682538620
## 10009     2      3   0.682525414
## 15789     2      3   0.682498551
## 10071     2      3   0.682484287
## 10226     2      3   0.682448653
## 11121     2      1   0.682437479
## 9053      2      1   0.682302744
## 15784     2      3   0.682282341
## 8706      2      1   0.682274786
## 8884      2      1   0.682249875
## 9093      2      1   0.682184936
## 10324     2      3   0.682159103
## 8896      2      1   0.682139354
## 9760      2      3   0.682114195
## 9907      2      3   0.682109922
## 9783      2      3   0.682077914
## 9939      2      3   0.682032639
## 9712      2      3   0.682026212
## 10410     2      3   0.681903107
## 10271     2      3   0.681779715
## 11896     2      1   0.681567693
## 9482      2      1   0.681474507
## 8798      2      1   0.681446593
## 13927     2      1   0.681378122
## 9369      2      1   0.681369708
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```

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## 10118    2    3    0.681263649
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## 8799     2    1    0.681219537
## 9550     2    1    0.681126766
## 9911     2    3    0.681011703
## 9935     2    3    0.680993749
## 10203    2    3    0.680933580
## 9955     2    1    0.680905202
## 9847     2    3    0.680882470
## 13133    2    1    0.680822417
## 10313    2    3    0.680809801
## 10205    2    3    0.680798807
## 12660    2    3    0.680691324
## 10443    2    3    0.680658691
## 14821    2    3    0.680586961
## 10185    2    3    0.680576197
## 9118     2    1    0.680549460
## 8936     2    1    0.680444619
## 10074    2    3    0.680418942
## 10180    2    3    0.680398631
## 10275    2    3    0.680381402
## 10612    2    3    0.680333088
## 10265    2    3    0.680320583
## 10674    2    3    0.680203546
## 9094     2    1    0.680200230
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## 9750     2    3    0.680138747
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## 8549     2    1    0.679792436
## 8806     2    1    0.679785990
## 8654     2    1    0.679632445
## 15005    2    3    0.679566598
## 14820    2    3    0.679541584
## 8954     2    1    0.679453067
## 13449    2    1    0.679386846
## 9731     2    1    0.679338490
## 9328     2    1    0.679335503
## 9127     2    1    0.679317631
## 13607    2    1    0.679282430
## 10627    2    3    0.679260221
## 10063    2    3    0.679248624
## 10047    2    1    0.679173296
## 12766    2    3    0.679110622
## 10194    2    1    0.679094462
## 8905     2    1    0.679064056
## 9351     2    1    0.679062065
## 10316    2    3    0.679034557
## 8872     2    1    0.679016029
## 14610    2    3    0.678867028
## 9239     2    1    0.678831835
## 9259     2    1    0.678750479
## 8890     2    1    0.678743550
## 9385     2    1    0.678711797
## 9816     2    1    0.678630218
```

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## 10066         2          1   0.678630218
## 9036          2          1   0.678550324
## 9558          2          3   0.678267092
## 9057          2          1   0.678185663
## 8930          2          1   0.678181305
## 9617          2          3   0.678148978
## 13135         2          1   0.678044612
## 8823          2          1   0.678015465
## 9168          2          1   0.677998330
## 8964          2          1   0.677966419
## 10915         2          3   0.677960284
## 9534          2          3   0.677908241
## 8887          2          1   0.677897290
## 9039          2          1   0.677897290
## 10914         2          3   0.677882611
## 9610          2          3   0.677876132
## 8882          2          1   0.677785357
## 11226         2          3   0.677779455
## 10323         2          3   0.677761986
## 8708          2          1   0.677761350
## 9107          2          1   0.677711105
## 10405         2          1   0.677618471
## 8805          2          1   0.677590709
## 10148         2          3   0.677578603
## 8685          2          1   0.677537056
## 9349          2          1   0.677505207
## 10512         2          3   0.677495204
## 10120         2          3   0.677479280
## 9962          2          3   0.677465682
## 10021         2          3   0.677451104
## 10117         2          3   0.677340735
## 9874          2          3   0.677318469
## 8883          2          1   0.677318291
## 8683          2          1   0.677314447
## 10862         2          3   0.677261063
## 10274         2          3   0.677253961
## 10022         2          3   0.677244107
## 11199         2          3   0.677220012
## 9742          2          3   0.677215283
## 8684          2          1   0.677169532
## 10608         2          3   0.677155691
## 8962          2          1   0.677119968
## 10278         2          3   0.677099363
## 8995          2          1   0.677070989
## 9103          2          1   0.676970121
## 13619         2          3   0.676946994
## 10065         2          3   0.676945490
## 9786          2          1   0.676923991
## 10918         2          3   0.676915943
## 10389         2          3   0.676845790
## 8742          2          1   0.676802446
## 12687         2          3   0.676800467
## 11457         2          3   0.676753427
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```

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## 10568      2        3   0.676493285
## 10377      2        3   0.676473546
## 8628       2        1   0.676420076
## 8466       2        1   0.676402926
## 10182      2        3   0.676300998
## 8855       2        1   0.676253707
## 9537       2        3   0.676210144
## 9969       2        3   0.676083088
## 10032      2        3   0.676082475
## 14713      2        3   0.676067126
## 8835       2        1   0.676056448
## 10839      2        3   0.675984006
## 10050      2        3   0.675894880
## 10085      2        3   0.675862338
## 9818       2        3   0.675857029
## 14650      2        3   0.675784431
## 14651      2        3   0.675722010
## 9316       2        1   0.675570292
## 8657       2        1   0.675385898
## 13134      2        1   0.675371554
## 9475       2        1   0.675272038
## 8658       2        1   0.675215462
## 12368      2        1   0.675209903
## 9481       2        1   0.675117394
## 9743       2        1   0.674969181
## 8934       2        1   0.674956183
## 8790       2        1   0.674955889
## 8687       2        1   0.674951703
## 8857       2        1   0.674900617
## 9802       2        1   0.674882933
## 11236      2        3   0.674820767
## 12373      2        1   0.674707510
## 8901       2        1   0.674702566
## 12767      2        3   0.674684960
## 10276      2        3   0.674636672
## 8998       2        1   0.674630065
## 10227      2        3   0.674628113
## 15000      2        3   0.674611038
## 11218      2        1   0.674609105
## 9733       2        1   0.674598081
## 9148       2        1   0.674448423
## 10280      2        3   0.674432885
## 9817       2        1   0.674416242
## 16456      2        3   0.674410244
## 9956       2        3   0.674406298
## 11891      2        1   0.674398515
## 10273      2        3   0.674347807
## 10279      2        3   0.674301954
## 10489      2        3   0.674280509
## 9276       2        1   0.674269110
## 10270      2        3   0.674243496
```

```
## 9265       2       1   0.674239167
## 9064       2       1   0.674238800
## 10508      2       1   0.674227500
## 10288      2       3   0.674092426
## 11233      2       3   0.674084224
## 10149      2       3   0.674063186
## 9214       2       1   0.674059246
## 10075      2       3   0.673963572
## 9467       2       1   0.673878070
## 15427      2       1   0.673781940
## 9280       2       1   0.673774974
## 8728       2       1   0.673769616
## 9888       2       3   0.673762870
## 14357      2       1   0.673708637
## 9309       2       1   0.673690841
## 11421      2       3   0.673690085
## 8465       2       1   0.673687949
## 9243       2       1   0.673542060
## 10041      2       1   0.673307558
## 9408       2       1   0.673285300
## 9557       2       3   0.673148172
## 12679      2       3   0.673134278
## 9919       2       3   0.673112737
## 10018      2       3   0.673065535
## 9836       2       3   0.673061557
## 10864      2       3   0.673018994
## 9049       2       1   0.673002793
## 8627       2       1   0.673002690
## 10102      2       3   0.672913771
## 9577       2       3   0.672898638
## 10511      2       3   0.672848129
## 15785      2       3   0.672844713
## 9947       2       3   0.672844663
## 10109      2       3   0.672838558
## 10287      2       3   0.672834144
## 9301       2       1   0.672822907
## 15004      2       3   0.672811004
## 9117       2       1   0.672752764
## 9607       2       3   0.672697812
## 10228      2       3   0.672693319
## 9966       2       3   0.672671056
## 10694      2       3   0.672624042
## 14648      2       3   0.672585046
## 9973       2       3   0.672546663
## 8881       2       1   0.672522534
## 10311      2       3   0.672518352
## 9741       2       3   0.672487460
## 10365      2       3   0.672365004
## 8652       2       1   0.672361967
## 12450      2       1   0.672223247
## 8761       2       1   0.672206471
## 9158       2       1   0.672201361
## 10450      2       3   0.672195118
## 10111      2       3   0.672053476
```

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## 10086    2    3  0.671862058
## 9744     2    3  0.671858254
## 11234    2    3  0.671798211
## 14817    2    3  0.671762831
## 10029    2    3  0.671723740
## 9957     2    3  0.671688658
## 8637     2    1  0.671669161
## 8919     2    1  0.671644632
## 13456    2    3  0.671596506
## 12369    2    1  0.671532218
## 9679     2    1  0.671487929
## 8961     2    1  0.671454299
## 13928    2    1  0.671439560
## 8932     2    1  0.671377871
## 8925     2    1  0.671324858
## 10305    2    3  0.671308162
## 9886     2    3  0.671271630
## 10462    2    3  0.671216240
## 9937     2    3  0.671212822
## 14609    2    3  0.671177579
## 9436     2    1  0.671156517
## 9216     2    1  0.671150491
## 9433     2    1  0.671128274
## 8920     2    1  0.670946740
## 9952     2    1  0.670929883
## 8718     2    1  0.670903705
## 8621     2    1  0.670885128
## 9160     2    1  0.670875831
## 8327     2    1  0.670861328
## 10183    2    1  0.670843136
## 8810     2    1  0.670839878
## 8931     2    1  0.670801671
## 8730     2    1  0.670793634
## 10408    2    3  0.670734087
## 8616     2    1  0.670695262
## 14281    2    1  0.670669678
## 8676     2    1  0.670654728
## 10295    2    3  0.670621278
## 9917     2    3  0.670570822
## 15160    2    3  0.670550574
## 10378    2    3  0.670528567
## 9958     2    3  0.670473341
## 10096    2    3  0.670433954
## 10412    2    3  0.670403477
## 10072    2    3  0.670314571
## 10569    2    3  0.670307736
## 11099    2    3  0.670295469
## 11200    2    3  0.670279900
## 10281    2    3  0.670135927
## 10070    2    3  0.670125749
## 15161    2    3  0.670105640
## 10079    2    3  0.670063539
## 10598    2    3  0.670016130
## 9186     2    1  0.669977014
```

```
## 8622        2        1    0.669844342
## 8899        2        1    0.669827218
## 8329        2        1    0.669786965
## 14278       2        1    0.669674337
## 8668        2        1    0.669644009
## 10351       2        1    0.669633645
## 9274        2        1    0.669628571
## 10369       2        1    0.669615885
## 10331       2        1    0.669554155
## 9219        2        1    0.669550910
## 9119        2        1    0.669532840
## 10837       2        3    0.669523373
## 14279       2        1    0.669502146
## 9178        2        1    0.669470436
## 14277       2        1    0.669469419
## 10077       2        3    0.669469397
## 9121        2        1    0.669438075
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## 9292        2        1    0.669410304
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## 8831        2        1    0.669311354
## 10104       2        1    0.669310901
## 9250        2        1    0.669300625
## 10095       2        3    0.669260315
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## 14400       2        3    0.668602591
## 10647       2        1    0.668558014
## 8923        2        1    0.668554276
## 8909        2        1    0.668552501
## 9466        2        1    0.668532231
## 10325       2        3    0.668507793
## 10391       2        3    0.668487833
## 8974        2        1    0.668457590
## 10092       2        3    0.668449126
## 9757        2        3    0.668441501
## 10393       2        3    0.668371918
## 10406       2        3    0.668346825
## 10204       2        3    0.668289804
## 8682        2        1    0.668276298
## 10487       2        3    0.668274966
## 10317       2        3    0.668262875
## 8620        2        1    0.668244687
## 10193       2        1    0.668213377
## 10277       2        3    0.668198138
## 10355       2        3    0.668197265
## 14271       2        1    0.668160306
## 9717        2        3    0.668157497
```

```
## 10225          2          3   0.668131689
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## 10206          2          3   0.668087277
## 10267          2          3   0.668032390
## 9912           2          3   0.668008392
## 10449          2          3   0.667996163
## 10481          2          3   0.667994032
## 9945           2          3   0.667983141
## 14649          2          3   0.667967880
## 10229          2          3   0.667920626
## 11617          2          3   0.667900248
## 9965           2          3   0.667889225
## 9766           2          3   0.667888745
## 14274          2          1   0.667829881
## 10840          2          3   0.667784793
## 9803           2          3   0.667780730
## 9819           2          3   0.667779230
## 9942           2          3   0.667687056
## 10199          2          3   0.667685106
## 10007          2          3   0.667655355
## 9000           2          1   0.667619059
## 10488          2          3   0.667608027
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## 10518          2          3   0.667502135
## 9525           2          1   0.667455337
## 9154           2          1   0.667334198
## 8939           2          1   0.667282945
## 8975           2          1   0.667131284
## 8933           2          1   0.667040187
## 9032           2          1   0.666982675
## 14275          2          1   0.666926593
## 10552          2          3   0.666429212
## 10804          2          3   0.666356486
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## 10266          2          3   0.666053312
## 12371          2          1   0.666041123
## 11237          2          3   0.665989242
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## 9205           2          1   0.665949573
## 15162          2          3   0.665925462
## 9474           2          1   0.665837787
## 9167           2          1   0.665666951
## 8879           2          1   0.665556037
## 8801           2          1   0.665491995
## 12865          2          1   0.665373477
## 9918           2          3   0.665305051
## 12451          2          1   0.665129962
## 10364          2          3   0.665088091
## 8886           2          1   0.665027887
## 9087           2          1   0.665009025
## 8898           2          1   0.664797680
## 8818           2          1   0.664791452
```

```
## 10048        2         1   0.664768778
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## 10064        2         3   0.664743484
## 15351        2         1   0.664700560
## 14270        2         1   0.664676824
## 9120         2         1   0.664605378
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## 9190         2         1   0.664492276
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## 9785         2         1   0.664472896
## 9227         2         1   0.664433741
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## 15159        2         3   0.664261937
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## 9203         2         1   0.664187991
## 9788         2         1   0.664183946
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## 10411        2         3   0.664092020
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## 8751         2         1   0.664061188
## 10720        2         3   0.664059959
## 8617         2         1   0.664045865
## 10445        2         3   0.664008412
## 10465        2         3   0.664004902
## 8972         2         1   0.663982061
## 11738        2         3   0.663979451
## 14175        2         1   0.663964896
## 8861         2         1   0.663933124
## 10296        2         3   0.663891871
## 15164        2         3   0.663882452
## 8662         2         1   0.663791760
## 8667         2         1   0.663766849
## 9044         2         1   0.663702287
## 11026        2         3   0.663685852
## 8604         2         1   0.663602434
## 10551        2         3   0.663582706
## 8599         2         1   0.663562826
## 14176        2         1   0.663542243
## 10615        2         3   0.663541810
## 10363        2         3   0.663512649
## 8534         2         1   0.663492837
## 10169        2         3   0.663443267
## 10733        2         3   0.663441753
## 10455        2         3   0.663414581
```

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## 10734      2      3   0.663413331
## 10812      2      3   0.663409228
## 8664       2      1   0.663394409
## 8809       2      1   0.663381684
## 15436      2      3   0.663344922
## 17273      2      3   0.663247156
## 10589      2      1   0.663207707
## 8323       2      1   0.663164763
## 9963       2      3   0.663119942
## 10327      2      3   0.663040596
## 17275      2      3   0.663029340
## 17272      2      3   0.663018061
## 17278      2      3   0.663017385
## 10197      2      3   0.663010407
## 10523      2      3   0.662993180
## 8641       2      1   0.662979958
## 10212      2      3   0.662886993
## 13132      2      1   0.662755340
## 8812       2      1   0.662587305
## 9318       2      1   0.662534362
## 14178      2      1   0.662509197
## 10729      2      3   0.662494983
## 10731      2      3   0.662494983
## 8340       2      1   0.662463122
## 10730      2      3   0.662446047
## 8611       2      1   0.662445391
## 15435      2      3   0.662436820
## 9409       2      1   0.662432378
## 8636       2      1   0.662416074
## 8608       2      1   0.662337975
## 10457      2      3   0.662291143
## 8292       2      1   0.662266872
## 8813       2      1   0.662246442
## 10425      2      3   0.662200711
## 9005       2      1   0.662191509
## 10671      2      3   0.662058338
## 15428      2      3   0.662001922
## 11423      2      3   0.661965783
## 14276      2      1   0.661953476
## 12551      2      3   0.661952871
## 9202       2      1   0.661932490
## 10354      2      3   0.661922107
## 9220       2      1   0.661918346
## 9714       2      3   0.661881337
## 14282      2      1   0.661860766
## 10051      2      3   0.661826182
## 11425      2      3   0.661781127
## 10669      2      3   0.661755623
## 15163      2      3   0.661745766
## 9483       2      1   0.661659076
## 12449      2      1   0.661582965
## 10517      2      3   0.661555607
## 8743       2      1   0.661548626
## 9484       2      1   0.661538070
```

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## 15157    2        3   0.661509030
## 12688    2        3   0.661443462
## 10293    2        3   0.661334923
## 8705     2        1   0.661329346
## 15167    2        3   0.661306382
## 8808     2        1   0.661304755
## 10430    2        3   0.661244563
## 8762     2        1   0.661156686
## 10521    2        3   0.661071903
## 10667    2        3   0.661036293
## 11426    2        3   0.661011896
## 11797    2        1   0.660858187
## 10735    2        3   0.660796754
## 10444    2        3   0.660572295
## 10579    2        3   0.660443841
## 10269    2        3   0.660397127
## 10282    2        3   0.660317059
## 9936     2        3   0.660296539
## 8868     2        1   0.659879354
## 9054     2        1   0.659731207
## 9191     2        1   0.659700374
## 8815     2        1   0.659615197
## 9240     2        1   0.659531044
## 14182    2        1   0.659502153
## 9412     2        1   0.659479415
## 9055     2        1   0.659451280
## 10202    2        1   0.659449414
## 8986     2        1   0.659442491
## 8748     2        1   0.659414128
## 8749     2        1   0.659387570
## 9079     2        1   0.659383732
## 8663     2        1   0.659337381
## 8832     2        1   0.659321758
## 14172    2        1   0.659321181
## 8607     2        1   0.659266960
## 10440    2        3   0.659214869
## 10337    2        1   0.659188015
## 8597     2        1   0.659152042
## 8907     2        1   0.659143034
## 9875     2        1   0.659127680
## 9348     2        1   0.659047609
## 15430    2        3   0.659034033
## 8910     2        1   0.658915806
## 12374    2        1   0.658905748
## 8615     2        1   0.658856403
## 10601    2        3   0.658804429
## 8851     2        1   0.658736611
## 8985     2        1   0.658713119
## 8629     2        1   0.658685289
## 9116     2        1   0.658564753
## 9152     2        1   0.658495161
## 10401    2        1   0.658488229
## 8938     2        1   0.658464896
## 9287     2        1   0.658393363
```

```
## 9887      2     3   0.658393047
## 15165     2     3   0.658353118
## 10330     2     3   0.658274218
## 10030     2     3   0.658182560
## 10407     2     3   0.658179835
## 9620      2     3   0.658177759
## 8811      2     1   0.658166404
## 10093     2     3   0.658149757
## 10591     2     1   0.658069009
## 9722      2     3   0.657988335
## 10452     2     3   0.657973177
## 10179     2     3   0.657906782
## 10919     2     3   0.657856893
## 10213     2     3   0.657833657
## 13214     2     3   0.657665118
## 8502      2     1   0.657657770
## 8596      2     1   0.657619753
## 10454     2     3   0.657532755
## 9480      2     1   0.657432759
## 12689     2     3   0.657357668
## 15121     2     1   0.657242205
## 17271     2     3   0.657229261
## 14174     2     1   0.657158911
## 8859      2     1   0.657158158
## 8550      2     1   0.657142835
## 17274     2     3   0.657084304
## 8532      2     1   0.657075995
## 10300     2     3   0.656985199
## 8797      2     1   0.656978895
## 14177     2     1   0.656965486
## 9951      2     1   0.656910710
## 10346     2     3   0.656865410
## 8858      2     1   0.656833079
## 15441     2     3   0.656548490
## 14123     2     1   0.656300364
## 8582      2     1   0.656194001
## 10328     2     3   0.656152160
## 10268     2     3   0.656099461
## 12690     2     3   0.656052284
## 8824      2     1   0.656025181
## 8592      2     1   0.656015715
## 10545     2     3   0.655947366
## 14125     2     1   0.655918077
## 8464      2     1   0.655898472
## 15655     2     3   0.655806176
## 9723      2     1   0.655790156
## 14269     2     1   0.655787246
## 8669      2     1   0.655763762
## 10820     2     3   0.655725435
## 10272     2     3   0.655703360
## 14268     2     1   0.655699118
## 10342     2     3   0.655688688
## 10723     2     3   0.655681885
## 10618     2     3   0.655591244
```

```
## 10581      2      3   0.655486399
## 17279      2      3   0.655484853
## 8563       2      1   0.655403715
## 10600      2      3   0.655302458
## 12761      2      3   0.655183263
## 10483      2      3   0.655169750
## 9473       2      1   0.655117087
## 14124      2      1   0.655073797
## 10719      2      3   0.655073332
## 8603       2      1   0.655057010
## 15166      2      3   0.655029803
## 8856       2      1   0.654980604
## 17280      2      3   0.654910335
## 9612       2      1   0.654886266
## 10582      2      3   0.654863126
## 8660       2      1   0.654846305
## 8877       2      1   0.654749810
## 8600       2      1   0.654698937
## 8593       2      1   0.654697973
## 10572      2      3   0.654672289
## 13720      2      1   0.654640676
## 8713       2      1   0.654629418
## 15652      2      3   0.654626741
## 10429      2      3   0.654625653
## 8579       2      1   0.654617059
## 10665      2      3   0.654614038
## 8745       2      1   0.654607144
## 14183      2      1   0.654603261
## 8746       2      1   0.654602259
## 17418      2      3   0.654583442
## 15234      2      1   0.654568046
## 14122      2      1   0.654551005
## 10520      2      3   0.654526457
## 8821       2      1   0.654509452
## 9866       2      1   0.654428907
## 14181      2      1   0.654428801
## 9004       2      1   0.654410018
## 10765      2      3   0.654353555
## 8820       2      1   0.654347394
## 12360      2      1   0.654289959
## 10463      2      3   0.654281704
## 10362      2      3   0.654263082
## 13719      2      1   0.654219869
## 10592      2      1   0.654216263
## 8714       2      1   0.654144701
## 10399      2      3   0.654035350
## 10329      2      3   0.653977227
## 11025      2      3   0.653884447
## 10456      2      3   0.653835903
## 8826       2      1   0.653797300
## 9113       2      1   0.653787816
## 9071       2      1   0.653780583
## 17415      2      3   0.653687350
## 8994       2      1   0.653565547
```

```
## 8294        2        1    0.653555320
## 8469        2        1    0.653512427
## 8999        2        1    0.653511335
## 10686       2        3    0.653475449
## 9228        2        1    0.653473034
## 9745        2        1    0.653458810
## 14120       2        1    0.653458810
## 9246        2        1    0.653442262
## 9025        2        1    0.653393237
## 8562        2        1    0.653317212
## 10298       2        3    0.653308033
## 14402       2        3    0.653294960
## 11027       2        3    0.653266485
## 9161        2        1    0.653200883
## 9291        2        1    0.653150038
## 10766       2        3    0.653123343
## 10026       2        3    0.653056939
## 8591        2        1    0.653054359
## 10223       2        3    0.652895715
## 13363       2        3    0.652630673
## 8803        2        1    0.652606432
## 8551        2        1    0.652490921
## 9009        2        1    0.652296830
## 9885        2        3    0.652224228
## 9954        2        1    0.652167176
## 11857       2        1    0.652147170
## 9021        2        1    0.652060271
## 8619        2        1    0.652026365
## 14280       2        1    0.652013331
## 9218        2        1    0.652006869
## 8844        2        1    0.651959781
## 10958       2        3    0.651916098
## 8613        2        1    0.651865156
## 8807        2        1    0.651839501
## 10341       2        3    0.651824338
## 8670        2        1    0.651813260
## 10358       2        3    0.651782755
## 11023       2        3    0.651711619
## 10842       2        3    0.651660363
## 9916        2        3    0.651654922
## 10599       2        3    0.651645733
## 8590        2        1    0.651642546
## 8924        2        1    0.651607261
## 10573       2        3    0.651605614
## 11461       2        1    0.651593702
## 8631        2        1    0.651558043
## 11383       2        3    0.651491569
## 8876        2        1    0.651489822
## 15431       2        3    0.651483489
## 10315       2        3    0.651401085
## 10356       2        3    0.651377256
## 10721       2        3    0.651372688
## 13718       2        1    0.651356541
## 8906        2        1    0.651347559
```

```
## 15168      2        3   0.651314308
## 8601       2        1   0.651269191
## 11740      2        3   0.651263953
## 10078      2        3   0.651187115
## 10283      2        3   0.651170201
## 10485      2        3   0.651107803
## 10817      2        3   0.651037548
## 8626       2        1   0.650814773
## 8709       2        1   0.650439990
## 9575       2        1   0.650414790
## 12370      2        1   0.650260849
## 9042       2        1   0.650103000
## 8970       2        1   0.650080716
## 10090      2        3   0.649928170
## 10094      2        3   0.649766287
## 8311       2        1   0.649751070
## 9041       2        1   0.649728051
## 8561       2        1   0.649702717
## 8675       2        1   0.649661850
## 12390      2        1   0.649637830
## 10388      2        3   0.649596440
## 8827       2        1   0.649592740
## 15657      2        3   0.649589419
## 10850      2        3   0.649523388
## 10571      2        3   0.649445840
## 13620      2        3   0.649438709
## 10366      2        3   0.649425776
## 15658      2        3   0.649128849
## 10586      2        3   0.649119372
## 8971       2        1   0.648774345
## 9394       2        3   0.648667154
## 8850       2        1   0.648564254
## 8455       2        1   0.648516154
## 8716       2        1   0.648442064
## 8200       2        1   0.648367728
## 8216       2        1   0.648343769
## 9086       2        1   0.648338885
## 9262       2        1   0.648291774
## 8347       2        1   0.648276030
## 11356      2        3   0.648225289
## 10200      2        1   0.648218618
## 9702       2        1   0.648192027
## 10596      2        3   0.648165422
## 8715       2        1   0.648081697
## 8852       2        1   0.648067673
## 8878       2        1   0.648056412
## 8655       2        1   0.648043754
## 11355      2        3   0.648020987
## 10423      2        3   0.648004332
## 9908       2        3   0.647977039
## 15438      2        3   0.647957609
## 10894      2        3   0.647949549
## 14019      2        1   0.647903620
## 10394      2        3   0.647894324
```

```
## 8293      2      1   0.647843442
## 10122     2      3   0.647817075
## 9700      2      1   0.647803945
## 8885      2      1   0.647790163
## 15797     2      3   0.647766126
## 10668     2      3   0.647762302
## 15895     2      3   0.647727854
## 15796     2      3   0.647650913
## 8440      2      1   0.647545580
## 15709     2      3   0.647527715
## 10486     2      1   0.647525897
## 10728     2      3   0.647510420
## 10414     2      3   0.647504870
## 17739     2      3   0.647468953
## 9953      2      1   0.647467063
## 15156     2      3   0.647465429
## 8560      2      1   0.647464467
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## 8918      2      1   0.647379027
## 8564      2      1   0.647350275
## 15155     2      3   0.647349871
## 10642     2      1   0.647341832
## 8396      2      1   0.647339175
## 10385     2      3   0.647323039
## 10380     2      3   0.647290281
## 10590     2      1   0.647280473
## 8522      2      1   0.647228885
## 8969      2      1   0.647224817
## 10056     2      1   0.647106604
## 11179     2      3   0.647056989
## 10416     2      3   0.646941881
## 8764      2      1   0.646935873
## 9705      2      1   0.646926592
## 10709     2      3   0.646855461
## 15793     2      3   0.646852106
## 8439      2      1   0.646825415
## 8201      2      1   0.646818304
## 8310      2      1   0.646811254
## 17416     2      3   0.646793643
## 8269      2      1   0.646792140
## 9331      2      1   0.646779784
## 13717     2      1   0.646712283
## 8571      2      1   0.646706134
## 14014     2      1   0.646705723
## 10662     2      3   0.646689242
## 15663     2      3   0.646683738
## 10826     2      3   0.646679885
## 17413     2      3   0.646644457
## 10896     2      3   0.646643732
## 10661     2      3   0.646613293
## 10284     2      3   0.646607117
## 15798     2      3   0.646545509
## 10898     2      3   0.646517146
## 9959      2      3   0.646473127
```

```
## 15653       2         3   0.646406164
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## 14061       2         3   0.646273482
## 9611        2         1   0.646187544
## 10891       2         3   0.646182896
## 9184        2         1   0.646161173
## 10442       2         3   0.645961038
## 10010       2         3   0.645943540
## 12375       2         1   0.645938979
## 9315        2         1   0.645850242
## 9706        2         1   0.645830078
## 9949        2         1   0.645814189
## 14018       2         1   0.645814189
## 8315        2         1   0.645737536
## 8339        2         1   0.645681526
## 10547       2         3   0.645620981
## 8217        2         1   0.645574313
## 8209        2         1   0.645391776
## 14022       2         1   0.645333005
## 10893       2         3   0.645327692
## 10514       2         3   0.645322503
## 10181       2         3   0.645310766
## 10637       2         3   0.645304682
## 15127       2         3   0.645190350
## 9046        2         1   0.645172214
## 15900       2         3   0.645127164
## 10576       2         3   0.645079039
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## 11180       2         3   0.645037719
## 15710       2         3   0.644950951
## 8533        2         1   0.644873950
## 8747        2         1   0.644828637
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## 8814        2         1   0.644655558
## 9305        2         1   0.644590963
## 8610        2         1   0.644586753
## 8659        2         1   0.644463752
## 10580       2         3   0.644363658
## 15433       2         3   0.644354638
## 10617       2         3   0.644325068
## 15439       2         3   0.644292008
## 10347       2         3   0.644256243
## 8530        2         1   0.644252249
## 10670       2         3   0.644238895
## 15437       2         3   0.644124163
## 10660       2         3   0.644110567
## 8215        2         1   0.644062152
## 15654       2         3   0.644057748
## 10554       2         3   0.644011786
## 10815       2         3   0.643969035
## 10819       2         3   0.643969035
```

```
## 10484     2        3   0.643848224
## 10849     2        3   0.643846653
## 10570     2        3   0.643832963
## 14021     2        1   0.643814266
## 10343     2        3   0.643808365
## 8558      2        1   0.643762764
## 11150     2        3   0.643720731
## 8569      2        1   0.643676615
## 12130     2        1   0.643657556
## 9285      2        1   0.643604154
## 8977      2        1   0.643560043
## 9948      2        1   0.643548337
## 8726      2        1   0.643537651
## 10184     2        1   0.643525376
## 10415     2        3   0.643464961
## 8559      2        1   0.643390168
## 16458     2        3   0.643124444
## 10076     2        3   0.643058188
## 10097     2        3   0.642929426
## 9033      2        1   0.642863433
## 8880      2        1   0.642434506
## 9967      2        3   0.642395073
## 9478      2        1   0.642148535
## 9701      2        1   0.641955248
## 10648     2        1   0.641915973
## 8207      2        1   0.641909119
## 9699      2        1   0.641806561
## 8299      2        1   0.641784159
## 8557      2        1   0.641712027
## 9913      2        3   0.641691878
## 10799     2        3   0.641657714
## 8567      2        1   0.641625662
## 15899     2        3   0.641588550
## 8570      2        1   0.641509346
## 9694      2        1   0.641507739
## 10956     2        1   0.641506048
## 10829     2        3   0.641425294
## 10957     2        1   0.641401938
## 9691      2        3   0.641280446
## 12675     2        3   0.641236957
## 10827     2        3   0.641181678
## 10524     2        3   0.641148273
## 8727      2        1   0.641145971
## 8612      2        1   0.641034769
## 10420     2        3   0.641019700
## 8325      2        1   0.640968140
## 8963      2        1   0.640888152
## 14184     2        1   0.640879286
## 14173     2        1   0.640867722
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## 8633      2        1   0.640729757
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## 10616     2        3   0.640325569
## 10404     2        3   0.640309801
```

```
## 15429      2       3   0.640283729
## 9768       2       3   0.640215926
## 10432      2       3   0.640095515
## 11562      2       3   0.640032236
## 10409      2       3   0.639982930
## 8288       2       1   0.639846806
## 8268       2       1   0.639827614
## 10727      2       3   0.639751498
## 8779       2       1   0.639718986
## 8782       2       1   0.639706037
## 10291      2       3   0.639638904
## 10587      2       1   0.639606277
## 8344       2       1   0.639599375
## 8220       2       1   0.639586346
## 8295       2       1   0.639539932
## 16072      2       3   0.639399471
## 9776       2       1   0.639386308
## 8467       2       1   0.639337200
## 8651       2       1   0.639329156
## 8568       2       1   0.639317338
## 10679      2       3   0.639311219
## 8630       2       1   0.639308297
## 8786       2       1   0.639300309
## 8976       2       1   0.639280709
## 9755       2       1   0.639276138
## 9773       2       1   0.639248604
## 10781      2       3   0.639234534
## 8134       2       1   0.639230309
## 8132       2       1   0.639204650
## 8524       2       1   0.639194817
## 8739       2       1   0.639104246
## 8151       2       1   0.639096643
## 10526      2       3   0.639015980
## 10577      2       3   0.639013345
## 10848      2       3   0.639011742
## 8701       2       1   0.639007180
## 13753      2       1   0.638949995
## 8623       2       1   0.638938184
## 9703       2       1   0.638891267
## 15708      2       3   0.638860128
## 10790      2       3   0.638783307
## 10437      2       3   0.638764187
## 9775       2       1   0.638581531
## 9910       2       3   0.638527487
## 10806      2       3   0.638485122
## 8556       2       1   0.638438747
## 8777       2       1   0.638438310
## 10550      2       3   0.638417404
## 10878      2       3   0.638410815
## 10614      2       3   0.638369403
## 10428      2       3   0.638333469
## 8555       2       1   0.638244717
## 9772       2       1   0.638234456
## 11182      2       3   0.638211387
```

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## 15711       2        3   0.638181585
## 10602       2        3   0.638105826
## 13017       2        3   0.637982392
## 10900       2        3   0.637885922
## 8565        2        1   0.637498664
## 11462       2        1   0.637498664
## 8322        2        1   0.637461831
## 10201       2        1   0.637400958
## 10519       2        3   0.637302784
## 9867        2        1   0.637176137
## 11353       2        3   0.637156186
## 9771        2        1   0.637133819
## 8860        2        1   0.637094484
## 8542        2        1   0.637021521
## 8320        2        1   0.636996104
## 10588       2        1   0.636994907
## 9746        2        1   0.636972415
## 10796       2        3   0.636934950
## 10717       2        3   0.636933675
## 10559       2        3   0.636911928
## 8581        2        1   0.636881620
## 8574        2        1   0.636860926
## 12798       2        3   0.636847733
## 10558       2        3   0.636816359
## 10764       2        3   0.636793136
## 10920       2        1   0.636786758
## 8702        2        1   0.636765963
## 8602        2        1   0.636736910
## 16074       2        3   0.636730059
## 11290       2        1   0.636702505
## 14818       2        3   0.636662088
## 10468       2        3   0.636651217
## 10114       2        3   0.636583641
## 10797       2        3   0.636547027
## 8973        2        1   0.636485393
## 10619       2        1   0.636462482
## 10345       2        3   0.636417350
## 10147       2        3   0.636410837
## 8666        2        1   0.636371246
## 14179       2        1   0.636368592
## 8575        2        1   0.636327384
## 10170       2        3   0.636295552
## 9707        2        1   0.636290104
## 14180       2        1   0.636266053
## 9376        2        1   0.636237640
## 8674        2        1   0.636232664
## 9698        2        1   0.636171864
## 10110       2        3   0.636090314
## 10711       2        3   0.636052489
## 11358       2        3   0.636037710
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## 8802        2        1   0.635981164
## 10543       2        3   0.635945498
## 14013       2        1   0.635930328
```

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## 15792    2        3   0.635929877
## 9704     2        1   0.635909626
## 10525    2        3   0.635902341
## 10789    2        3   0.635835806
## 8301     2        1   0.635816491
## 10208    2        3   0.635754353
## 10522    2        3   0.635747984
## 10544    2        3   0.635741890
## 8632     2        1   0.635729199
## 8752     2        1   0.635634067
## 8640     2        1   0.635593270
## 10513    2        3   0.635543282
## 10903    2        3   0.635536681
## 9774     2        1   0.635490978
## 11024    2        3   0.635474329
## 10892    2        3   0.635453033
## 10823    2        3   0.635407009
## 10844    2        3   0.635356512
## 8219     2        1   0.635354525
## 10556    2        3   0.635310849
## 16122    2        3   0.635309635
## 8133     2        1   0.635234686
## 9777     2        1   0.635230948
## 10715    2        3   0.635186062
## 10318    2        3   0.635174335
## 16121    2        3   0.635048489
## 16124    2        3   0.634956623
## 10875    2        3   0.634913914
## 13842    2        1   0.634789046
## 9047     2        1   0.634348555
## 8330     2        1   0.634277336
## 10290    2        3   0.634190157
## 12553    2        1   0.634013934
## 8717     2        1   0.633818826
## 9217     2        1   0.633736200
## 8967     2        1   0.633548333
## 8531     2        1   0.633423263
## 8287     2        1   0.633400142
## 10357    2        3   0.633381012
## 10292    2        3   0.633355308
## 8503     2        1   0.633306180
## 10621    2        3   0.633207312
## 14121    2        1   0.633032863
## 8573     2        1   0.633000135
## 10846    2        3   0.632987999
## 10533    2        3   0.632970497
## 8783     2        1   0.632943301
## 11148    2        3   0.632885123
## 13016    2        3   0.632830380
## 8552     2        1   0.632827969
## 8401     2        1   0.632813009
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## 11038    2        3   0.632795601
## 8572     2        1   0.632785669
```

```
## 10553          2          3    0.632689421
## 11563          2          3    0.632658821
## 10528          2          3    0.632617366
## 10634          2          3    0.632615600
## 9625           2          1    0.632504429
## 11227          2          3    0.632477850
## 10635          2          3    0.632477111
## 10822          2          3    0.632463321
## 10890          2          3    0.632252537
## 10824          2          3    0.632237705
## 9504           2          1    0.632211167
## 15894          2          3    0.632169453
## 8605           2          1    0.631762358
## 9950           2          1    0.631724842
## 9045           2          1    0.631669210
## 9748           2          1    0.631487183
## 15440          2          3    0.631225524
## 10403          2          3    0.630821817
## 10431          2          3    0.630806515
## 9657           2          1    0.630805184
## 11044          2          3    0.630778311
## 10439          2          3    0.630738431
## 10062          2          3    0.630730951
## 8333           2          1    0.630725341
## 10349          2          3    0.630694781
## 10178          2          3    0.630679348
## 8185           2          1    0.630583329
## 10877          2          3    0.630533362
## 8006           2          1    0.630522198
## 16131          2          3    0.630499806
## 9062           2          1    0.630447332
## 8577           2          1    0.630447288
## 10772          2          3    0.630435902
## 10628          2          3    0.630427879
## 8048           2          1    0.630410353
## 9317           2          1    0.630410324
## 10774          2          3    0.630406468
## 14068          2          3    0.630393786
## 10400          2          1    0.630390868
## 10561          2          3    0.630372643
## 10906          2          3    0.630362747
## 10695          2          3    0.630361321
## 8704           2          1    0.630356755
## 11058          2          3    0.630351022
## 16130          2          3    0.630340629
## 8911           2          1    0.630335809
## 9247           2          1    0.630321267
## 10530          2          3    0.630317047
## 11183          2          3    0.630294086
## 10402          2          1    0.630293419
## 8978           2          1    0.630280530
## 14391          2          3    0.630265558
## 10024          2          3    0.630237134
## 10857          2          3    0.630234051
```

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## 10471        2        3   0.630189119
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## 13547        2        1   0.630156530
## 13542        2        1   0.630145441
## 8404         2        1   0.630119729
## 10101        2        1   0.630090321
## 16127        2        3   0.629913760
## 10807        2        3   0.629834566
## 10286        2        3   0.629696631
## 8452         2        1   0.629671602
## 10630        2        3   0.629653610
## 11063        2        3   0.629625832
## 10398        2        3   0.629507022
## 11067        2        3   0.629437481
## 10700        2        3   0.629432310
## 9658         2        1   0.629413945
## 16126        2        3   0.629375812
## 13548        2        1   0.629259208
## 10951        2        3   0.629256429
## 11062        2        3   0.629246854
## 10698        2        3   0.629234303
## 11011        2        3   0.629164044
## 9197         2        1   0.629148956
## 14016        2        1   0.629123655
## 8045         2        1   0.629105996
## 8317         2        1   0.629098281
## 8523         2        1   0.629082579
## 13552        2        1   0.628967133
## 8319         2        1   0.628966339
## 10424        2        3   0.628965361
## 15960        2        3   0.628935087
## 8218         2        1   0.628910042
## 11070        2        3   0.628908756
## 11069        2        3   0.628847207
## 8618         2        1   0.628806998
## 15896        2        3   0.628772588
## 8677         2        1   0.628729533
## 10737        2        3   0.628728138
## 8566         2        1   0.628637624
## 15794        2        3   0.628635106
## 10825        2        3   0.628629113
## 8594         2        1   0.628623007
## 8595         2        1   0.628473376
## 9747         2        1   0.628473202
## 10722        2        3   0.628467201
## 10344        2        3   0.628381261
## 13020        2        3   0.628360915
## 15661        2        3   0.628318415
## 10767        2        3   0.628302184
## 17414        2        3   0.628236325
## 10285        2        3   0.628202561
## 11043        2        3   0.628107060
## 10816        2        3   0.628074977
```

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## 10548      2        3   0.628045818
## 8267       2        1   0.628019067
## 13553      2        1   0.627986882
## 8442       2        1   0.627983553
## 10773      2        3   0.627982807
## 10953      2        3   0.627948297
## 10631      2        3   0.627939316
## 16594      2        3   0.627929782
## 11064      2        3   0.627808364
## 10557      2        3   0.627703858
## 9524       2        1   0.627655420
## 11739      2        3   0.627599629
## 8336       2        1   0.627591593
## 10446      2        3   0.627584496
## 11741      2        3   0.627573953
## 13018      2        3   0.627542545
## 16073      2        3   0.627521903
## 10904      2        3   0.627481051
## 10874      2        3   0.627419671
## 10905      2        3   0.627332472
## 8609       2        1   0.626884134
## 8324       2        1   0.626705712
## 17277      2        3   0.626596422
## 9656       2        1   0.626534272
## 17276      2        3   0.626472375
## 10458      2        3   0.626468454
## 9654       2        1   0.626374068
## 9662       2        1   0.626311147
## 10326      2        3   0.626291225
## 10348      2        3   0.626221775
## 9673       2        1   0.626220472
## 10100      2        1   0.626175642
## 8309       2        1   0.626166365
## 11041      2        3   0.626140773
## 10888      2        3   0.626072120
## 11066      2        3   0.626045164
## 8019       2        1   0.625956799
## 13546      2        1   0.625930434
## 10564      2        3   0.625907097
## 11061      2        3   0.625849282
## 10784      2        3   0.625836375
## 11884      2        3   0.625733982
## 10646      2        3   0.625730056
## 10732      2        3   0.625705305
## 15434      2        3   0.625590909
## 10841      2        3   0.625587561
## 8545       2        1   0.625555688
## 8451       2        1   0.624998670
## 8314       2        1   0.624924088
## 8208       2        1   0.624883724
## 10638      2        3   0.624870186
## 14020      2        1   0.624866147
## 10422      2        3   0.624858856
## 10791      2        3   0.624858856
```

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## 8586          2          1    0.624805243
## 11357         2          3    0.624804298
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## 8785          2          1    0.624789831
## 8729          2          1    0.624737026
## 8854          2          1    0.624644100
## 8290          2          1    0.624522854
## 8928          2          1    0.624456928
## 10413         2          3    0.624429414
## 15791         2          3    0.624346664
## 9663          2          1    0.624324445
## 9665          2          1    0.624248433
## 15795         2          3    0.624248303
## 10555         2          3    0.624224373
## 11304         2          3    0.624190983
## 10828         2          3    0.624178640
## 8529          2          1    0.624170649
## 8711          2          1    0.624159667
## 13841         2          1    0.624154352
## 8441          2          1    0.624154019
## 16129         2          3    0.624135961
## 10396         2          3    0.624090627
## 8341          2          1    0.624073341
## 10882         2          3    0.624066964
## 10091         2          3    0.624063740
## 10680         2          3    0.624019074
## 9895          2          3    0.623958844
## 10782         2          3    0.623939401
## 8639          2          1    0.623874009
## 10537         2          3    0.623734961
## 11008         2          3    0.623682579
## 13554         2          1    0.623532509
## 11178         2          3    0.623458044
## 10814         2          3    0.623454136
## 10549         2          3    0.623370088
## 10381         2          3    0.623125380
## 15662         2          3    0.623102637
## 13545         2          1    0.621714710
## 8614          2          1    0.621596872
## 8057          2          1    0.621544535
## 10538         2          3    0.621490466
## 8583          2          1    0.621392551
## 10756         2          3    0.621387499
## 10761         2          3    0.621385128
## 8606          2          1    0.621382335
## 10701         2          3    0.621323837
## 11184         2          3    0.621322940
## 9667          2          1    0.621322409
## 10099         2          1    0.621301809
## 8308          2          1    0.621298140
## 8738          2          1    0.621285627
## 11013         2          3    0.621277282
## 10762         2          3    0.621263280
## 11065         2          3    0.621260121
```

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## 9666        2      1   0.621219526
## 9799        2      1   0.621133716
## 8927        2      1   0.621120058
## 10687       2      3   0.621073895
## 10470       2      3   0.621071755
## 16282       2      3   0.621067115
## 13401       2      1   0.621031149
## 10299       2      3   0.621005330
## 8214        2      1   0.621004498
## 16272       2      3   0.620973477
## 13550       2      1   0.620932840
## 13469       2      3   0.620924111
## 8270        2      1   0.620895118
## 11077       2      3   0.620888433
## 10940       2      3   0.620875462
## 10969       2      3   0.620866644
## 12762       2      3   0.620795771
## 10755       2      3   0.620765646
## 11264       2      3   0.620703626
## 13399       2      1   0.620650230
## 8159        2      1   0.620629249
## 16277       2      3   0.620617369
## 8318        2      1   0.620612124
## 8222        2      1   0.620549884
## 10057       2      1   0.620549105
## 10683       2      3   0.620526341
## 10885       2      3   0.620510314
## 8553        2      1   0.620466741
## 8296        2      1   0.620459680
## 16274       2      3   0.620446086
## 8018        2      1   0.620433926
## 11906       2      3   0.620418901
## 11181       2      3   0.620334455
## 11039       2      3   0.620327396
## 10792       2      3   0.620316962
## 8298        2      1   0.620280805
## 16123       2      3   0.620270265
## 10542       2      3   0.620264433
## 10879       2      3   0.620251622
## 8291        2      1   0.620229994
## 11075       2      3   0.620219346
## 10955       2      1   0.620209535
## 8588        2      1   0.620170536
## 15897       2      3   0.620156473
## 10560       2      3   0.620143076
## 10873       2      3   0.620137928
## 10574       2      3   0.620115546
## 10710       2      3   0.620090115
## 10649       2      3   0.620043525
## 8331        2      1   0.620016105
## 11073       2      3   0.619991445
## 10466       2      3   0.619855072
## 10971       2      3   0.619783430
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```

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## 10973          2          3   0.619725325
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## 10974          2          3   0.619523424
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## 9646           2          1   0.619507090
## 10585          2          3   0.619435125
## 8968           2          1   0.619266417
## 8468           2          1   0.619193714
## 9024           2          1   0.619191477
## 8397           2          1   0.619025121
## 10207          2          3   0.618977157
## 9626           2          1   0.618969411
## 8710           2          1   0.618960325
## 14119          2          1   0.618880754
## 8321           2          1   0.618877592
## 8825           2          1   0.618764429
## 11071          2          3   0.618681089
## 14884          2          1   0.618637779
## 13021          2          3   0.618628301
## 10565          2          3   0.618544864
## 10663          2          3   0.618539074
## 16271          2          3   0.618469867
## 8178           2          1   0.618449969
## 10632          2          3   0.618418633
## 10650          2          3   0.618387075
## 10952          2          3   0.618377712
## 7919           2          1   0.618345669
## 10871          2          3   0.618323025
## 10795          2          3   0.618289810
## 9647           2          1   0.618235575
## 7923           2          1   0.618202135
## 8020           2          1   0.618188138
## 10889          2          3   0.618113921
## 15659          2          3   0.617989980
## 15065          2          1   0.617972859
## 16268          2          3   0.617934441
## 8300           2          1   0.617924353
## 14392          2          3   0.617769067
## 13403          2          1   0.616775746
## 7925           2          1   0.616561663
## 11185          2          3   0.616550446
## 8450           2          1   0.616496784
## 10907          2          3   0.616473664
## 8929           2          1   0.616470553
## 9644           2          1   0.616346836
## 8712           2          1   0.616319649
## 10688          2          3   0.616230809
## 8554           2          1   0.616224738
## 8634           2          1   0.616113651
## 8661           2          1   0.616036613
## 11040          2          3   0.616021552
## 10845          2          3   0.615976816
## 14017          2          1   0.615906872
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```

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## 9283       2        1   0.615623924
## 10419      2        3   0.615543541
## 10716      2        3   0.615537827
## 10433      2        3   0.615405337
## 8349       2        1   0.615269802
## 8177       2        1   0.615251377
## 13541      2        1   0.615210835
## 13544      2        1   0.615069823
## 11195      2        3   0.615043251
## 8332       2        1   0.614963443
## 16125      2        3   0.614940607
## 10467      2        3   0.614924535
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## 8199       2        1   0.614880565
## 12973      2        3   0.614877615
## 16132      2        3   0.614820268
## 7926       2        1   0.614730053
## 10541      2        3   0.614636793
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## 11072      2        3   0.614514618
## 11074      2        3   0.614472343
## 10584      2        3   0.614467577
## 10939      2        3   0.614372650
## 9645       2        1   0.614357852
## 9651       2        1   0.614307985
## 11102      2        3   0.614305143
## 8158       2        1   0.614260347
## 10677      2        1   0.614246061
## 11012      2        3   0.614215743
## 13414      2        3   0.614212594
## 11186      2        3   0.614186822
## 11463      2        1   0.614043652
## 9284       2        1   0.613947144
## 8589       2        1   0.613901428
## 8966       2        1   0.613898077
## 8580       2        1   0.613605483
## 17417      2        3   0.613385082
## 10821      2        3   0.613369619
## 10482      2        3   0.612881031
## 15656      2        3   0.612813760
## 10359      2        3   0.612669484
## 10818      2        3   0.612408399
## 10379      2        3   0.612266550
## 8781       2        1   0.612143737
## 10972      2        3   0.611962115
## 11279      2        3   0.611949630
## 12110      2        3   0.611946613
## 8402       2        1   0.611910890
```

```
## 10540    2        3   0.611887973
## 9652     2        1   0.611860517
## 10640    2        3   0.611844661
## 10760    2        3   0.611829806
## 11122    2        3   0.611782524
## 8197     2        1   0.611776667
## 8059     2        1   0.611686188
## 8673     2        1   0.611678828
## 16281    2        3   0.611674439
## 9659     2        1   0.611619042
## 10392    2        3   0.611583858
## 12109    2        3   0.611568570
## 9660     2        1   0.611557404
## 11076    2        3   0.611527235
## 8334     2        1   0.611420213
## 9661     2        1   0.611382683
## 11018    2        3   0.611369229
## 10745    2        3   0.611290789
## 7718     2        1   0.611209047
## 9485     2        1   0.611207763
## 13019    2        3   0.611206753
## 9453     2        1   0.611176927
## 13551    2        1   0.611170888
## 8453     2        1   0.611074231
## 9448     2        1   0.611065345
## 8205     2        1   0.610971340
## 8431     2        1   0.610897477
## 8543     2        1   0.610891221
## 11168    2        3   0.610876485
## 10979    2        3   0.610858247
## 11557    2        3   0.610853080
## 8130     2        1   0.610829809
## 12118    2        1   0.610787265
## 11166    2        3   0.610783536
## 10895    2        3   0.610778361
## 11015    2        3   0.610711383
## 11559    2        3   0.610634019
## 11556    2        3   0.610621799
## 11162    2        3   0.610614487
## 10418    2        3   0.610576371
## 11212    2        3   0.610570077
## 8316     2        1   0.610539985
## 13639    2        3   0.610521594
## 14215    2        3   0.610482773
## 8638     2        1   0.610457985
## 10897    2        3   0.610384000
## 8204     2        1   0.610272009
## 9444     2        1   0.610247873
## 13636    2        3   0.610048025
## 10666    2        3   0.610035742
## 10768    2        3   0.610014802
## 7722     2        1   0.609965484
## 12825    2        3   0.609890386
## 10656    2        3   0.609806441
```

```
## 17206        2           3   0.609778249
## 10978        2           3   0.609763782
## 7720         2           1   0.609724388
## 13637        2           3   0.609640520
## 10682        2           3   0.609436099
## 9452         2           1   0.609429728
## 8312         2           1   0.609416583
## 11165        2           3   0.609299165
## 13468        2           3   0.609190930
## 8192         2           1   0.609176874
## 8007         2           1   0.609078450
## 11283        2           3   0.609009597
## 10703        2           3   0.608909393
## 11284        2           3   0.608797736
## 7922         2           1   0.608726054
## 10681        2           3   0.608724596
## 11101        2           3   0.608693927
## 11115        2           3   0.608636950
## 11161        2           3   0.608529073
## 8433         2           1   0.608481346
## 15611        2           3   0.608438718
## 11167        2           3   0.608419762
## 11163        2           3   0.608406022
## 7715         2           1   0.608395622
## 15660        2           3   0.608320725
## 8744         2           1   0.608296653
## 13415        2           3   0.608264687
## 10866        2           3   0.608247023
## 10801        2           3   0.608222047
## 10641        2           3   0.608159910
## 9447         2           1   0.608085974
## 8049         2           1   0.607741781
## 9664         2           1   0.607575125
## 9671         2           1   0.607521642
## 8046         2           1   0.607414860
## 8776         2           1   0.607393106
## 8996         2           1   0.607305421
## 10950        2           3   0.607267560
## 8131         2           1   0.607256285
## 8342         2           1   0.607235781
## 10696        2           3   0.607219233
## 8703         2           1   0.607183659
## 10562        2           3   0.607153809
## 8784         2           1   0.607149062
## 10965        2           3   0.607120016
## 15613        2           3   0.607120016
## 10783        2           3   0.607110585
## 8526         2           1   0.607073437
## 13844        2           1   0.606964258
## 10578        2           3   0.606927682
## 11164        2           3   0.606891362
## 10793        2           3   0.606790916
## 16128        2           3   0.606782400
## 11285        2           3   0.606721475
```

```
## 11558          2          3    0.606702422
## 7964           2          1    0.606699786
## 10880          2          3    0.606695060
## 8092           2          1    0.606667327
## 15612          2          3    0.606629187
## 9915           2          3    0.606580895
## 10847          2          3    0.606565809
## 10658          2          3    0.606558049
## 7749           2          1    0.606444040
## 14067          2          3    0.606378100
## 9451           2          1    0.606356383
## 14273          2          1    0.606350746
## 15608          2          3    0.606271800
## 12117          2          1    0.606063354
## 11965          2          3    0.605903027
## 14012          2          1    0.605665085
## 9512           2          1    0.605637751
## 8346           2          1    0.605602589
## 10539          2          3    0.605595704
## 14015          2          1    0.605583652
## 10566          2          3    0.605491075
## 10575          2          3    0.605451519
## 7905           2          1    0.605418854
## 13402          2          1    0.605412345
## 9798           2          1    0.605310380
## 10798          2          3    0.605294425
## 8196           2          1    0.605281953
## 16278          2          3    0.605184053
## 9653           2          1    0.605175076
## 10639          2          3    0.605151153
## 8665           2          1    0.605080582
## 10800          2          3    0.604929570
## 9450           2          1    0.604780581
## 10748          2          3    0.604775969
## 10395          2          3    0.604742842
## 10654          2          3    0.604694198
## 15901          2          3    0.604687037
## 8736           2          1    0.604647218
## 10708          2          3    0.604605103
## 14216          2          3    0.604345486
## 15898          2          3    0.604317195
## 9599           2          1    0.604185771
## 8128           2          1    0.604126400
## 9446           2          1    0.604095114
## 8058           2          1    0.603010970
## 10699          2          3    0.602846663
## 8988           2          1    0.602834420
## 10775          2          3    0.602728959
## 10583          2          3    0.602559142
## 10469          2          3    0.602525903
## 8650           2          1    0.602520180
## 8778           2          1    0.602502355
## 10383          2          3    0.602496520
## 8343           2          1    0.602460637
```

```
## 8780       2       1   0.602453019
## 10657      2       3   0.602381801
## 11228      2       3   0.602294159
## 8345       2       1   0.602262887
## 14390      2       3   0.602166394
## 16280      2       3   0.602056188
## 16284      2       3   0.602020938
## 10899      2       3   0.601939000
## 13400      2       1   0.601915607
## 7717       2       1   0.601899867
## 9248       2       1   0.601889128
## 9442       2       1   0.601884873
## 7921       2       1   0.601883865
## 8193       2       1   0.601867595
## 7920       2       1   0.601858940
## 8213       2       1   0.601837876
## 10747      2       3   0.601780656
## 11016      2       3   0.601780656
## 10714      2       3   0.601641706
## 10876      2       3   0.601619859
## 8338       2       1   0.601591604
## 8649       2       1   0.601588843
## 11280      2       3   0.601537415
## 10567      2       3   0.601531246
## 10753      2       3   0.601507480
## 13398      2       1   0.601484473
## 10746      2       3   0.601465248
## 16070      2       3   0.601460810
## 18382      2       3   0.601443256
## 7710       2       1   0.600789967
## 8426       2       1   0.600789967
## 8425       2       1   0.600607086
## 10750      2       3   0.600589725
## 11078      2       3   0.600496220
## 11085      2       3   0.600434630
## 8147       2       1   0.600423911
## 8944       2       1   0.600418819
## 8172       2       1   0.600374485
## 12818      2       1   0.600343675
## 7915       2       1   0.600323631
## 8008       2       1   0.600303378
## 8424       2       1   0.600292342
## 7916       2       1   0.600157040
## 11189      2       3   0.600046689
## 11088      2       3   0.600026783
## 7996       2       1   0.600022749
## 8946       2       1   0.599938940
## 11034      2       3   0.599884362
## 11221      2       3   0.599875405
## 8129       2       1   0.599824223
## 11693      2       3   0.599806112
## 10933      2       3   0.599316672
## 11089      2       3   0.599234378
## 11091      2       3   0.599149909
```

```
## 8422          2      1   0.599139128
## 10651         2      3   0.599133097
## 10960         2      3   0.599090366
## 9110          2      1   0.599082610
## 11187         2      3   0.599056919
## 8154          2      1   0.599045623
## 8191          2      1   0.599005281
## 12115         2      1   0.599005281
## 8091          2      1   0.598992016
## 11800         2      3   0.598967691
## 10931         2      3   0.598937217
## 8307          2      1   0.598897493
## 8050          2      1   0.598818228
## 9806          2      1   0.598623338
## 9443          2      1   0.598577983
## 12119         2      1   0.598576988
## 10535         2      3   0.598443164
## 8155          2      1   0.598373287
## 8443          2      1   0.598321642
## 15432         2      3   0.598230543
## 8541          2      1   0.598195292
## 16133         2      3   0.598132089
## 10759         2      3   0.598122416
## 10785         2      3   0.598112836
## 10629         2      3   0.598059151
## 8271          2      1   0.598050612
## 11042         2      3   0.598037515
## 8348          2      1   0.597989194
## 10838         2      3   0.597954665
## 10975         2      3   0.597936414
## 10910         2      3   0.597929580
## 8947          2      1   0.597919529
## 10982         2      3   0.597898675
## 9672          2      1   0.597863637
## 8449          2      1   0.597801399
## 16882         2      3   0.597763770
## 7999          2      1   0.597762362
## 16269         2      3   0.597709139
## 10970         2      3   0.597701375
## 10676         2      1   0.597638256
## 10472         2      3   0.597615815
## 10883         2      3   0.597563840
## 9650          2      1   0.597539859
## 11282         2      3   0.597525330
## 8000          2      1   0.597477884
## 11220         2      3   0.597434674
## 11336         2      3   0.597283113
## 16273         2      3   0.597183505
## 16285         2      3   0.597177930
## 8576          2      1   0.597037853
## 13845         2      1   0.596876289
## 13840         2      1   0.596860721
## 11194         2      3   0.596778964
## 8403          2      1   0.596755769
```

```
## 13843       2        1   0.596685616
## 9034        2        1   0.596462648
## 7918        2        1   0.596248435
## 10794       2        3   0.596125846
## 10507       2        1   0.596116499
## 7726        2        1   0.596093162
## 8953        2        1   0.596028496
## 12261       2        3   0.595959623
## 10706       2        3   0.595930689
## 15712       2        3   0.595924634
## 10923       2        3   0.595881984
## 12086       2        3   0.595839855
## 8306        2        1   0.595796340
## 11692       2        3   0.595791192
## 10749       2        3   0.595777056
## 10754       2        3   0.595735658
## 10684       2        3   0.595664089
## 11404       2        3   0.595638800
## 7714        2        1   0.595608570
## 10851       2        3   0.595594441
## 11033       2        3   0.595445378
## 7753        2        1   0.595415277
## 11229       2        3   0.595356227
## 11014       2        3   0.595136956
## 8156        2        1   0.595094644
## 11158       2        3   0.594941338
## 8908        2        1   0.594594184
## 7713        2        1   0.594302345
## 11213       2        3   0.594165838
## 10636       2        3   0.594159239
## 10769       2        3   0.594078543
## 8190        2        1   0.593842673
## 10289       2        3   0.593782448
## 11785       2        3   0.593726308
## 8005        2        1   0.593570069
## 8175        2        1   0.593446382
## 8021        2        1   0.593379677
## 8737        2        1   0.593351958
## 9649        2        1   0.593339173
## 11159       2        3   0.593334236
## 8160        2        1   0.593324617
## 8044        2        1   0.593220530
## 9670        2        1   0.593216321
## 8176        2        1   0.593213157
## 8979        2        1   0.593142672
## 12085       2        1   0.592986931
## 10536       2        3   0.592975901
## 8060        2        1   0.592968847
## 9668        2        1   0.592915961
## 10744       2        3   0.592653606
## 9043        2        1   0.592614090
## 11403       2        3   0.592606417
## 10843       2        3   0.592034492
## 10980       2        3   0.591946830
```

```
## 8186          2          1    0.591924002
## 14960         2          1    0.591908641
## 8303          2          1    0.591906593
## 7716          2          1    0.591786525
## 11090         2          3    0.591772662
## 11157         2          3    0.591688346
## 8289          2          1    0.591680048
## 10192         2          1    0.591679632
## 8945          2          1    0.591594314
## 16364         2          3    0.591544941
## 10935         2          3    0.591543163
## 8960          2          1    0.591542756
## 7686          2          1    0.591530046
## 7721          2          1    0.591506577
## 7998          2          1    0.591504401
## 12764         2          3    0.591481129
## 12113         2          1    0.591465211
## 10736         2          3    0.591453197
## 10707         2          3    0.591442830
## 11086         2          3    0.591333196
## 8170          2          1    0.591273942
## 11059         2          3    0.591271027
## 8423          2          1    0.591230732
## 9109          2          1    0.591127053
## 11079         2          3    0.591074259
## 11035         2          3    0.590945017
## 10751         2          3    0.590944635
## 9896          2          1    0.590794934
## 10382         2          3    0.590417816
## 11794         2          1    0.589599976
## 13472         2          3    0.589361417
## 11545         2          3    0.589347071
## 10786         2          3    0.589340083
## 8041          2          1    0.589290216
## 12583         2          3    0.589225607
## 11682         2          3    0.589139975
## 11153         2          3    0.589136915
## 10998         2          3    0.589044091
## 11348         2          3    0.589033535
## 7936          2          1    0.589018440
## 8769          2          1    0.589015921
## 11350         2          3    0.588978372
## 11779         2          3    0.588952385
## 10836         2          3    0.588950801
## 8538          2          1    0.588851220
## 11152         2          3    0.588779759
## 13470         2          3    0.588776032
## 7708          2          1    0.588742486
## 8145          2          1    0.588660709
## 7924          2          1    0.588604545
## 10527         2          3    0.588602925
## 13397         2          1    0.588593425
## 8017          2          1    0.588539692
## 8686          2          1    0.588389542
```

```
## 13015     2        3   0.588379770
## 7997      2        1   0.588299429
## 13549     2        1   0.588261106
## 11188     2        3   0.588236045
## 12089     2        3   0.588236045
## 8335      2        1   0.588222847
## 8149      2        1   0.588220398
## 8188      2        1   0.588207873
## 8285      2        1   0.588192561
## 8948      2        1   0.588179559
## 10506     2        1   0.588162913
## 11021     2        3   0.588145360
## 8047      2        1   0.588134485
## 11230     2        3   0.588104366
## 11019     2        3   0.588104137
## 11691     2        3   0.588071219
## 11281     2        3   0.588027582
## 11068     2        3   0.588019188
## 8194      2        1   0.588003803
## 11544     2        3   0.587953929
## 10887     2        3   0.587934400
## 8174      2        1   0.587929963
## 10997     2        3   0.587887147
## 11277     2        3   0.587854780
## 11274     2        3   0.587850099
## 11154     2        3   0.587844345
## 13543     2        1   0.587829575
## 11160     2        3   0.587812206
## 8735      2        1   0.587811818
## 7983      2        1   0.587808524
## 10757     2        3   0.587802782
## 9669      2        1   0.587781582
## 14217     2        3   0.587772946
## 9455      2        1   0.587618931
## 12588     2        3   0.587607249
## 8116      2        1   0.587505030
## 8212      2        1   0.587503017
## 10652     2        3   0.587307304
## 10881     2        3   0.587114817
## 8427      2        1   0.587017374
## 11009     2        3   0.586880450
## 10936     2        3   0.586854516
## 14393     2        3   0.586631034
## 18383     2        3   0.586582862
## 10854     2        3   0.586313559
## 16071     2        3   0.585770538
## 10025     2        3   0.585481594
## 11081     2        3   0.585393313
## 11083     2        3   0.585207509
## 10941     2        3   0.585182223
## 10999     2        3   0.585174509
## 8539      2        1   0.585124104
## 11028     2        3   0.585060007
## 7702      2        1   0.585056436
```

```
## 11271         2           3   0.585034157
## 9805          2           1   0.585023004
## 8943          2           1   0.584960956
## 11681         2           3   0.584949807
## 8122          2           1   0.584902790
## 11029         2           3   0.584890037
## 8429          2           1   0.584888053
## 8771          2           1   0.584849517
## 8189          2           1   0.584831056
## 10788         2           3   0.584791564
## 10778         2           3   0.584778144
## 8951          2           1   0.584671062
## 11082         2           3   0.584664237
## 7965          2           1   0.584644050
## 10397         2           3   0.584484480
## 7750          2           1   0.584468785
## 12394         2           3   0.584449681
## 11275         2           3   0.584376472
## 10805         2           3   0.583969993
## 10954         2           1   0.583846332
## 16275         2           3   0.583830964
## 10702         2           3   0.583780210
## 10872         2           3   0.583639060
## 8206          2           1   0.583540209
## 8434          2           1   0.583527164
## 12116         2           1   0.583475934
## 11405         2           3   0.583444514
## 9445          2           1   0.583291036
## 13416         2           3   0.583254258
## 8117          2           1   0.583207647
## 8648          2           1   0.583146047
## 7719          2           1   0.583131782
## 10853         2           3   0.583019466
## 11276         2           3   0.582987089
## 7934          2           1   0.582940694
## 10994         2           3   0.582890602
## 10190         2           1   0.582871567
## 8143          2           1   0.582851987
## 10503         2           1   0.582793922
## 7962          2           1   0.582754641
## 10835         2           3   0.582750869
## 7705          2           1   0.582713940
## 11093         2           3   0.582708774
## 8337          2           1   0.582693544
## 9753          2           1   0.582681310
## 8286          2           1   0.582658402
## 10947         2           3   0.582614923
## 12587         2           3   0.582608202
## 11211         2           3   0.582570888
## 7963          2           1   0.582559353
## 11270         2           3   0.582539179
## 7935          2           1   0.582486430
## 16270         2           3   0.582472985
## 7937          2           1   0.582443100
```

```
## 10563       2         3   0.582438406
## 10417       2         3   0.582421368
## 8770        2         1   0.582404415
## 8105        2         1   0.582375870
## 11347       2         3   0.582291831
## 12586       2         3   0.582002166
## 10685       2         3   0.581644132
## 10948       2         3   0.581269337
## 8015        2         1   0.581125512
## 11087       2         3   0.580981052
## 12090       2         3   0.580641923
## 8428        2         1   0.580551686
## 8062        2         1   0.580333558
## 11777       2         3   0.580209210
## 8063        2         1   0.580194508
## 11037       2         3   0.580089029
## 13471       2         3   0.580078001
## 16885       2         3   0.580070985
## 13640       2         3   0.580067949
## 8400        2         1   0.580007657
## 8169        2         1   0.579966160
## 16884       2         3   0.579942396
## 13376       2         3   0.579896529
## 10902       2         3   0.579697677
## 8004        2         1   0.579697376
## 12584       2         3   0.579683801
## 11509       2         3   0.579538552
## 10930       2         3   0.578782391
## 8584        2         1   0.578580654
## 8064        2         1   0.578571766
## 7904        2         1   0.578447490
## 9449        2         1   0.578380139
## 10336       2         1   0.578257708
## 16283       2         3   0.578216749
## 8585        2         1   0.578144419
## 15790       2         3   0.578119446
## 13638       2         3   0.578073172
## 11454       2         3   0.577908515
## 8274        2         1   0.577700800
## 11174       2         3   0.577657954
## 16279       2         3   0.577621470
## 11172       2         3   0.577601261
## 10966       2         3   0.577581970
## 8040        2         1   0.577554091
## 8353        2         1   0.577537217
## 7757        2         1   0.577453070
## 8417        2         1   0.577427953
## 8140        2         1   0.577415328
## 10934       2         3   0.577391641
## 10763       2         3   0.577347606
## 11156       2         3   0.577341090
## 11375       2         3   0.577326786
## 8061        2         1   0.577315761
## 7552        2         1   0.577288985
```

```
## 10770      2          3    0.577286309
## 7984       2          1    0.577284785
## 7906       2          1    0.577271570
## 11107      2          3    0.577269498
## 10504      2          1    0.577268144
## 11116      2          3    0.577264579
## 7751       2          1    0.577218217
## 8767       2          1    0.577202928
## 8284       2          1    0.577195379
## 8471       2          1    0.577172192
## 8283       2          1    0.577155312
## 8281       2          1    0.577154712
## 11778      2          3    0.577149133
## 8279       2          1    0.577122113
## 11568      2          1    0.577101903
## 8211       2          1    0.577095872
## 10928      2          3    0.577079475
## 10307      2          1    0.577072953
## 8148       2          1    0.577072750
## 11721      2          1    0.577027746
## 8421       2          1    0.577023277
## 8042       2          1    0.577017153
## 8171       2          1    0.577013200
## 7761       2          1    0.577004996
## 16120      2          3    0.576999882
## 8277       2          1    0.576999789
## 8146       2          1    0.576998590
## 7931       2          1    0.576961852
## 12396      2          3    0.576960817
## 10534      2          3    0.576941731
## 7709       2          1    0.576923969
## 11349      2          3    0.576923723
## 7910       2          1    0.576889994
## 11722      2          1    0.576852902
## 8141       2          1    0.576843952
## 11010      2          3    0.576733523
## 16605      2          3    0.576700695
## 10995      2          3    0.576700406
## 10909      2          3    0.576684915
## 12823      2          3    0.576674481
## 16366      2          3    0.576662866
## 10949      2          3    0.576625603
## 11020      2          3    0.576624304
## 11373      2          3    0.576615666
## 11724      2          1    0.576555407
## 7684       2          1    0.576363414
## 8282       2          1    0.576316118
## 8350       2          1    0.576294202
## 11125      2          3    0.576125907
## 7890       2          1    0.576110920
## 8276       2          1    0.576086065
## 10870      2          3    0.576065310
## 10968      2          3    0.576026192
## 12557      2          3    0.576001559
```

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## 7933          2          1   0.575973460
## 8157          2          1   0.575923132
## 11173         2          3   0.575817620
## 7961          2          1   0.575746092
## 7932          2          1   0.575711167
## 7927          2          1   0.574989120
## 7968          2          1   0.574896789
## 11723         2          1   0.574864246
## 8210          2          1   0.574780939
## 11003         2          3   0.574744563
## 7622          2          1   0.574739960
## 7550          2          1   0.574676612
## 11177         2          3   0.574576791
## 11588         2          3   0.574544323
## 9754          2          1   0.574272490
## 12822         2          3   0.574246795
## 10855         2          3   0.574199886
## 16883         2          3   0.574060840
## 10459         2          3   0.573991116
## 8525          2          1   0.573689286
## 10921         2          3   0.573679015
## 9112          2          1   0.573503605
## 7748          2          1   0.573422314
## 11272         2          3   0.573407309
## 17293         2          3   0.573352813
## 11170         2          3   0.573189383
## 9231          2          1   0.573180777
## 10869         2          3   0.573130370
## 10938         2          3   0.573124007
## 11031         2          3   0.573084174
## 8167          2          1   0.573052392
## 10967         2          3   0.573037537
## 8001          2          1   0.573036458
## 18483         2          3   0.572991366
## 11100         2          3   0.572950412
## 7969          2          1   0.572859938
## 7747          2          1   0.572819598
## 11555         2          3   0.572802011
## 16119         2          3   0.572801462
## 12114         2          1   0.572756705
## 7917          2          1   0.572738121
## 8056          2          1   0.572653083
## 9286          2          1   0.572552977
## 8153          2          1   0.572365612
## 10633         2          3   0.571797750
## 7756          2          1   0.571200862
## 10856         2          3   0.571040043
## 11060         2          3   0.570848488
## 8273          2          1   0.570791413
## 8509          2          1   0.570589468
## 10996         2          3   0.570328056
## 8144          2          1   0.570107975
## 8734          2          1   0.569965625
## 7704          2          1   0.569690244
```

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## 11190       2          3   0.569491261
## 11504       2          3   0.569431285
## 10655       2          3   0.568574653
## 8150        2          1   0.568497730
## 10191       2          1   0.568465123
## 11001       2          3   0.568382090
## 9454        2          1   0.568374300
## 10976       2          3   0.568308908
## 8528        2          1   0.568296828
## 8121        2          1   0.568277263
## 11124       2          3   0.568273287
## 8432        2          1   0.568262589
## 10705       2          3   0.568250417
## 9441        2          1   0.568245092
## 7758        2          1   0.568238442
## 11569       2          1   0.568194370
## 8106        2          1   0.568173197
## 8578        2          1   0.568169371
## 8010        2          1   0.568167502
## 9070        2          1   0.568135437
## 11084       2          3   0.568099400
## 12654       2          3   0.568097373
## 8173        2          1   0.568072329
## 7711        2          1   0.568062454
## 8127        2          1   0.567976831
## 12112       2          1   0.567964525
## 11289       2          3   0.567923769
## 8009        2          1   0.567786169
## 11278       2          3   0.567446393
## 11455       2          3   0.567442509
## 11169       2          3   0.567408897
## 11652       2          1   0.567372395
## 11690       2          3   0.567288135
## 15609       2          3   0.567260440
## 16365       2          3   0.567123524
## 13941       2          3   0.565925554
## 16892       2          3   0.565808723
## 8768        2          1   0.565800723
## 8152        2          1   0.565733318
## 11117       2          3   0.565706414
## 11002       2          3   0.565655425
## 12757       2          1   0.565584681
## 7760        2          1   0.565493791
## 8119        2          1   0.565457706
## 8354        2          1   0.565452939
## 8011        2          1   0.565424026
## 7725        2          1   0.565395180
## 17294       2          3   0.565329319
## 7647        2          1   0.565266481
## 11553       2          3   0.565242107
## 7775        2          1   0.565180909
## 7668        2          1   0.565165960
## 11552       2          3   0.565129874
## 7879        2          1   0.565070608
```

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## 8413        2        1   0.565048832
## 11197       2        3   0.565046577
## 7495        2        1   0.565020429
## 7646        2        1   0.565020429
## 10501       2        1   0.565011564
## 11205       2        3   0.565006078
## 12756       2        1   0.564988911
## 12972       2        3   0.564729924
## 12006       2        3   0.564707124
## 9792        2        1   0.564598434
## 7490        2        1   0.564595597
## 7928        2        1   0.564350194
## 10984       2        3   0.564342649
## 11419       2        3   0.564281137
## 11267       2        3   0.564133809
## 9171        2        1   0.564083934
## 11420       2        3   0.564032608
## 7774        2        1   0.563931236
## 16607       2        3   0.563816360
## 8138        2        1   0.563734364
## 19875       2        3   0.563125413
## 8195        2        1   0.563083071
## 8952        2        1   0.563049048
## 8055        2        1   0.563046495
## 10653       2        3   0.562951812
## 8187        2        1   0.562786059
## 11032       2        3   0.562670472
## 10985       2        3   0.562664557
## 7930        2        1   0.562620724
## 11524       2        3   0.562450282
## 7742        2        1   0.562353159
## 8112        2        1   0.562351266
## 8420        2        1   0.562216429
## 7966        2        1   0.562115645
## 8352        2        1   0.562100593
## 7755        2        1   0.562042165
## 8043        2        1   0.561789380
## 16606       2        3   0.561771601
## 11250       2        3   0.561724677
## 11155       2        3   0.561707775
## 18482       2        3   0.561633105
## 10884       2        3   0.561417295
## 11346       2        3   0.560984679
## 11268       2        3   0.560739699
## 7519        2        1   0.560719135
## 11566       2        1   0.560688960
## 9170        2        1   0.560634204
## 7494        2        1   0.560473069
## 8508        2        1   0.560421647
## 11758       2        3   0.560384066
## 11129       2        3   0.558715588
## 11376       2        3   0.558700864
## 11718       2        3   0.558631570
## 11327       2        3   0.558565890
```

```
## 8166      2      1   0.558554336
## 11551     2      3   0.558524352
## 11130     2      3   0.558504434
## 8137      2      1   0.558468659
## 7967      2      1   0.558444930
## 10502     2      1   0.558436597
## 7773      2      1   0.558424909
## 8135      2      1   0.558414773
## 11196     2      3   0.558353028
## 10859     2      3   0.558349076
## 8114      2      1   0.558314242
## 10929     2      3   0.558270778
## 11171     2      3   0.558270778
## 7960      2      1   0.558172193
## 13225     2      3   0.558155896
## 8949      2      1   0.558105688
## 8950      2      1   0.558101095
## 8142      2      1   0.557967233
## 11176     2      3   0.557956368
## 7712      2      1   0.557769830
## 11022     2      3   0.557593437
## 17295     2      3   0.557544747
## 8107      2      1   0.557527076
## 8118      2      1   0.557272658
## 12763     2      3   0.557232756
## 8540      2      1   0.557065151
## 8430      2      1   0.557042063
## 11080     2      3   0.557041944
## 8012      2      1   0.556941834
## 7707      2      1   0.556935849
## 8014      2      1   0.556897396
## 7762      2      1   0.556762094
## 11104     2      3   0.556757585
## 11103     2      3   0.556738630
## 7703      2      1   0.556719817
## 11105     2      3   0.556554387
## 8415      2      1   0.556449788
## 11554     2      3   0.556322420
## 18639     2      3   0.556320479
## 8110      2      1   0.556185946
## 7776      2      1   0.556115399
## 10833     2      3   0.556005617
## 8111      2      1   0.555931218
## 14597     2      1   0.555913531
## 11662     2      3   0.555901203
## 11149     2      3   0.555835062
## 9793      2      1   0.555739266
## 10678     2      1   0.555718160
## 9648      2      1   0.555706021
## 8168      2      1   0.554403236
## 8275      2      1   0.554347734
## 7662      2      1   0.554310240
## 11262     2      3   0.554194142
## 8221      2      1   0.554077911
```

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## 8278      2     1   0.553858644
## 16889     2     3   0.553733202
## 16888     2     3   0.553548801
## 18641     2     3   0.553419084
## 8411      2     1   0.553370690
## 7740      2     1   0.553248672
## 11128     2     3   0.553060383
## 11252     2     3   0.552908472
## 13943     2     3   0.552748568
## 8165      2     1   0.552739036
## 10704     2     3   0.552593293
## 7752      2     1   0.552584848
## 11417     2     3   0.552568960
## 9791      2     1   0.552460714
## 11132     2     3   0.552433127
## 12095     2     3   0.552259411
## 10832     2     3   0.552247969
## 13473     2     3   0.552152270
## 13474     2     3   0.552152270
## 7880      2     1   0.552146552
## 11703     2     3   0.552144862
## 7994      2     1   0.552059995
## 7744      2     1   0.552046840
## 7427      2     1   0.552036553
## 11000     2     3   0.552023808
## 7990      2     1   0.551985309
## 7683      2     1   0.551965829
## 8013      2     1   0.551949039
## 7985      2     1   0.551927467
## 7754      2     1   0.551887644
## 11134     2     3   0.551839435
## 7737      2     1   0.551831759
## 11328     2     3   0.551822385
## 7517      2     1   0.551814072
## 8774      2     1   0.551805865
## 7670      2     1   0.551778131
## 11525     2     3   0.551771105
## 11269     2     3   0.551758078
## 12097     2     3   0.551725266
## 7763      2     1   0.551715177
## 11202     2     3   0.551578860
## 11208     2     3   0.551570497
## 11534     2     3   0.551467628
## 14448     2     3   0.551465083
## 11217     2     3   0.551443202
## 7424      2     1   0.551394484
## 11526     2     3   0.551306430
## 12585     2     3   0.550961952
## 11720     2     3   0.550791377
## 11359     2     3   0.550710122
## 18644     2     3   0.550601978
## 11397     2     3   0.550503593
## 11702     2     3   0.550415708
## 10983     2     3   0.550243036
```

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## 7741          2          1   0.550144475
## 11251         2          3   0.550061394
## 12004         2          3   0.550026135
## 11567         2          1   0.549981368
## 11396         2          3   0.549955226
## 8115          2          1   0.549906299
## 7685          2          1   0.549900402
## 7911          2          1   0.549898187
## 11126         2          3   0.549882429
## 7532          2          1   0.549875307
## 11510         2          3   0.549791976
## 8351          2          1   0.549785515
## 10986         2          3   0.549772988
## 7989          2          1   0.549722522
## 8414          2          1   0.549712464
## 10988         2          3   0.549634606
## 11326         2          3   0.549586169
## 8108          2          1   0.549567310
## 12656         2          3   0.549539408
## 11638         2          3   0.549537694
## 7426          2          1   0.549535914
## 16891         2          3   0.549480499
## 10942         2          3   0.549466720
## 8093          2          1   0.549427016
## 7993          2          1   0.549377354
## 10962         2          3   0.549370173
## 11296         2          3   0.549347450
## 11531         2          3   0.549313212
## 18642         2          3   0.549228216
## 7992          2          1   0.548989371
## 10858         2          3   0.548967030
## 13944         2          3   0.547907822
## 7691          2          1   0.547881582
## 7563          2          1   0.547704247
## 11329         2          3   0.547616239
## 7661          2          1   0.547482814
## 11036         2          3   0.547478998
## 8104          2          1   0.546906176
## 16069         2          3   0.546897488
## 11501         2          3   0.546771054
## 12395         2          3   0.546550533
## 11144         2          3   0.546330690
## 7870          2          1   0.546197221
## 7619          2          1   0.546120443
## 7620          2          1   0.546111963
## 7648          2          1   0.546102318
## 11030         2          3   0.546059547
## 11127         2          3   0.546013726
## 11416         2          3   0.545854312
## 7939          2          1   0.545840110
## 7430          2          1   0.545763434
## 10961         2          3   0.545728077
## 7482          2          1   0.545724254
## 11398         2          3   0.545701153
```

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## 10834         2          3   0.545676925
## 10771         2          3   0.545634893
## 7772          2          1   0.545565439
## 11431         2          1   0.545546381
## 11175         2          3   0.545511687
## 7694          2          1   0.545495046
## 7697          2          1   0.545495046
## 11701         2          3   0.545494625
## 8418          2          1   0.545470500
## 10963         2          3   0.545406013
## 11106         2          3   0.545310680
## 11443         2          3   0.545276877
## 11995         2          3   0.545247361
## 8067          2          1   0.545238901
## 7745          2          1   0.545219810
## 7549          2          1   0.545112856
## 7551          2          1   0.544952084
## 12005         2          3   0.544722852
## 11261         2          3   0.544539088
## 11263         2          3   0.544463308
## 16886         2          3   0.544404662
## 11683         2          3   0.544363652
## 10987         2          3   0.543348662
## 11399         2          3   0.543062938
## 7771          2          1   0.543032636
## 11210         2          3   0.543005061
## 12098         2          3   0.542969942
## 7431          2          1   0.542964717
## 7604          2          1   0.542937539
## 8164          2          1   0.542863620
## 11305         2          3   0.542796416
## 7988          2          1   0.542763358
## 11203         2          3   0.542745221
## 12135         2          3   0.542482388
## 11215         2          3   0.542437350
## 11207         2          3   0.542270936
## 7493          2          1   0.542186465
## 7491          2          1   0.542155965
## 18638         2          3   0.542110719
## 7881          2          1   0.541927450
## 8139          2          1   0.541872929
## 7492          2          1   0.541861894
## 8113          2          1   0.541798487
## 7706          2          1   0.541646381
## 10787         2          3   0.541586429
## 8772          2          1   0.541476227
## 11532         2          3   0.541235009
## 11273         2          3   0.541118533
## 11374         2          3   0.541077410
## 10977         2          3   0.540805539
## 11260         2          3   0.540476875
## 7903          2          1   0.540456996
## 16890         2          3   0.540409340
## 7891          2          1   0.540201499
```

```
## 8136          2          1   0.540172564
## 7746          2          1   0.540077308
## 11429         2          1   0.540072274
## 11433         2          1   0.540053204
## 10306         2          1   0.540050505
## 11131         2          3   0.540007829
## 11700         2          3   0.539844701
## 18837         2          3   0.539839086
## 11614         2          3   0.539733411
## 9111          2          1   0.539586269
## 10981         2          3   0.539404196
## 11119         2          3   0.539391244
## 16887         2          3   0.539370282
## 10932         2          3   0.539211188
## 10964         2          3   0.539206146
## 15610         2          3   0.539069728
## 10992         2          3   0.538734406
## 7541          2          1   0.538543069
## 7455          2          1   0.538418526
## 11536         2          3   0.538358706
## 11380         2          3   0.538281372
## 11704         2          3   0.538062198
## 9601          2          1   0.537990163
## 11538         2          3   0.537915518
## 11335         2          3   0.537912242
## 14512         2          1   0.537880614
## 8732          2          1   0.537861954
## 8405          2          1   0.537854698
## 8412          2          1   0.537815300
## 7518          2          1   0.537721265
## 16609         2          3   0.537716028
## 11630         2          3   0.537594918
## 11004         2          3   0.537581580
## 7681          2          1   0.537492460
## 11707         2          3   0.537411525
## 11546         2          3   0.537338494
## 11338         2          3   0.537319059
## 11266         2          3   0.537295307
## 7959          2          1   0.537269887
## 11631         2          3   0.537261895
## 9602          2          1   0.537133845
## 11005         2          3   0.537093013
## 9589          2          1   0.537079293
## 7562          2          1   0.537069683
## 12103         2          3   0.537036311
## 11360         2          3   0.537027925
## 11402         2          3   0.536981308
## 9605          2          1   0.536978576
## 11379         2          3   0.536912786
## 11466         2          3   0.536901801
## 9604          2          1   0.536900407
## 7973          2          1   0.536804566
## 18640         2          3   0.536800863
## 7701          2          1   0.536794152
```

```
## 10500        2        1    0.536789724
## 11007        2        3    0.536785207
## 11201        2        3    0.536748997
## 7605         2        1    0.536704476
## 21059        2        3    0.536602416
## 11298        2        3    0.536572917
## 7669         2        1    0.536536705
## 10886        2        3    0.536533774
## 7516         2        1    0.536518177
## 12466        2        3    0.536487562
## 11539        2        3    0.536242472
## 11706        2        3    0.536029310
## 7459         2        1    0.536001174
## 7700         2        1    0.535825553
## 9603         2        1    0.535784870
## 11628        2        3    0.535738626
## 11751        2        3    0.535614676
## 10990        2        3    0.535613743
## 11668        2        3    0.535556569
## 10937        2        3    0.535547282
## 11537        2        3    0.535334941
## 7623         2        1    0.535214089
## 8051         2        1    0.535166570
## 12003        2        3    0.535139180
## 8120         2        1    0.535120399
## 11094        2        3    0.535098276
## 9069         2        1    0.535089135
## 11118        2        3    0.534952827
## 7682         2        1    0.534925841
## 16367        2        3    0.534892674
## 12008        2        3    0.534541652
## 13942        2        3    0.534307383
## 13797        2        3    0.534305668
## 7528         2        1    0.534301752
## 7331         2        1    0.534244854
## 7559         2        1    0.534173862
## 11632        2        3    0.534080200
## 10993        2        3    0.534049229
## 11859        2        3    0.534029984
## 16610        2        3    0.533923925
## 7405         2        1    0.533827699
## 11368        2        1    0.533812603
## 11608        2        3    0.533741861
## 11231        2        3    0.533446946
## 7602         2        1    0.533414356
## 7423         2        1    0.533372468
## 8773         2        1    0.533336626
## 12657        2        3    0.533255317
## 11432        2        1    0.533208433
## 8733         2        1    0.533120412
## 11993        2        3    0.533100646
## 7429         2        1    0.533098495
## 8507         2        1    0.533043649
## 12096        2        3    0.532918041
```

```
## 12877        2          3   0.532781078
## 11017        2          3   0.532764456
## 8416         2          1   0.532706654
## 7991         2          1   0.532702855
## 11533        2          3   0.532667595
## 11503        2          3   0.532301546
## 11204        2          3   0.532284963
## 11301        2          1   0.532280477
## 7489         2          1   0.532270494
## 8408         2          1   0.532270494
## 11887        2          3   0.532252041
## 7325         2          1   0.532054315
## 7441         2          1   0.532017032
## 11369        2          1   0.531948348
## 7971         2          1   0.531859622
## 11401        2          3   0.531602029
## 11634        2          3   0.531547973
## 11801        2          3   0.529849955
## 7974         2          1   0.529504125
## 7530         2          1   0.529445503
## 11997        2          3   0.529402925
## 12099        2          3   0.529402925
## 8002         2          1   0.529320082
## 11528        2          3   0.529274954
## 11434        2          3   0.529272855
## 7422         2          1   0.529179578
## 8982         2          1   0.529029828
## 12101        2          3   0.528980266
## 7425         2          1   0.528972358
## 7499         2          1   0.528966117
## 11214        2          3   0.528943846
## 12100        2          3   0.528925224
## 19148        2          3   0.528820794
## 18643        2          3   0.528702123
## 12655        2          3   0.528491146
## 11994        2          3   0.528488655
## 7621         2          1   0.527787444
## 9172         2          1   0.527564204
## 7649         2          1   0.527499585
## 18637        2          3   0.527296451
## 8527         2          1   0.527145104
## 11312        2          3   0.526698494
## 9606         2          1   0.526572750
## 11253        2          3   0.526570253
## 8410         2          1   0.526451893
## 11446        2          3   0.526284006
## 12102        2          3   0.526168942
## 7329         2          1   0.526026421
## 16430        2          3   0.525623418
## 11734        2          3   0.525038311
## 13161        2          3   0.524951337
## 10499        2          1   0.524835945
## 7696         2          1   0.524831105
## 9330         2          1   0.524799848
```

```
## 7561       2       1   0.524690642
## 7603       2       1   0.524649499
## 8419       2       1   0.524648037
## 12094      2       3   0.524286306
## 7690       2       1   0.524283675
## 7770       2       1   0.524248336
## 7367       2       1   0.524239306
## 10989      2       3   0.524204481
## 7640       2       1   0.524077083
## 11308      2       3   0.523928491
## 7187       2       1   0.523897917
## 11133      2       3   0.523849531
## 7867       2       1   0.523841444
## 12517      2       1   0.523753356
## 11486      2       3   0.523731885
## 11367      2       1   0.523617958
## 16288      2       3   0.523544499
## 7642       2       1   0.523517417
## 11487      2       3   0.523501365
## 12524      2       1   0.523461890
## 19150      2       3   0.523460617
## 11315      2       3   0.523453471
## 11400      2       3   0.523448270
## 8407       2       1   0.523369514
## 11317      2       3   0.523360531
## 11140      2       3   0.523312434
## 18839      2       3   0.523297889
## 18838      2       3   0.523297521
## 10673      2       1   0.523266069
## 7333       2       1   0.523225524
## 7636       2       1   0.523225046
## 7467       2       1   0.523058866
## 7454       2       1   0.522988649
## 7639       2       1   0.522950095
## 11773      2       3   0.522906216
## 11629      2       3   0.522872786
## 7871       2       1   0.522762525
## 8003       2       1   0.522681958
## 10908      2       1   0.522605233
## 11547      2       3   0.522602468
## 12000      2       3   0.522577462
## 12467      2       3   0.522529928
## 7643       2       1   0.522516336
## 7659       2       1   0.522435720
## 12514      2       1   0.522322613
## 11145      2       3   0.521835857
## 11719      2       3   0.521806109
## 11198      2       3   0.521722266
## 18574      2       1   0.521675638
## 11309      2       3   0.521652269
## 11442      2       3   0.521542259
## 12513      2       1   0.521518971
## 11141      2       3   0.521418367
## 11265      2       3   0.521417883
```

```
## 8959       2        1   0.521397985
## 11489      2        3   0.521299973
## 11540      2        3   0.521287138
## 7987       2        1   0.520257500
## 12900      2        3   0.520247970
## 7526       2        1   0.520151887
## 7428       2        1   0.520143261
## 7527       2        1   0.520044441
## 11695      2        3   0.519970051
## 7438       2        1   0.519940652
## 7723       2        1   0.519929693
## 7980       2        1   0.519885712
## 13598      2        3   0.519872503
## 11529      2        3   0.519844807
## 7972       2        1   0.519841783
## 11710      2        3   0.519811227
## 7731       2        1   0.519760374
## 7735       2        1   0.519712563
## 7979       2        1   0.519670780
## 7271       2        1   0.519669416
## 7976       2        1   0.519669416
## 11627      2        3   0.519661950
## 7734       2        1   0.519622372
## 11143      2        3   0.519621110
## 7978       2        1   0.519556008
## 11527      2        3   0.519513265
## 11137      2        3   0.519358435
## 11530      2        3   0.519259471
## 13880      2        3   0.519220940
## 10991      2        3   0.519038654
## 11669      2        3   0.518748042
## 8198       2        1   0.518699366
## 10498      2        1   0.518070622
## 11238      2        3   0.517776618
## 7929       2        1   0.517771655
## 11436      2        3   0.517756148
## 12358      2        3   0.517751065
## 12515      2        1   0.517727372
## 11505      2        3   0.517638168
## 21058      2        3   0.517395569
## 11135      2        3   0.517096845
## 11307      2        3   0.515853349
## 7320       2        1   0.515623465
## 13226      2        3   0.515570546
## 8053       2        1   0.515470452
## 13863      2        3   0.515297257
## 16267      2        3   0.515296072
## 8016       2        1   0.515275315
## 9509       2        1   0.515244297
## 11708      2        3   0.515193041
## 7866       2        1   0.515192890
## 7498       2        1   0.515177718
## 11696      2        3   0.515147892
## 11585      2        3   0.515046563
```

```
## 7460       2         1   0.515020494
## 11512      2         3   0.514956028
## 8740       2         1   0.514925336
## 11856      2         3   0.514822737
## 11354      2         3   0.514687249
## 12007      2         3   0.514446525
## 16290      2         3   0.514409910
## 11502      2         3   0.514331662
## 11136      2         3   0.514228654
## 14447      2         3   0.514144678
## 11535      2         3   0.514135307
## 8280       2         1   0.512641490
## 18575      2         1   0.512510834
## 7188       2         1   0.512332768
## 7638       2         1   0.512327429
## 11206      2         3   0.512234573
## 7977       2         1   0.512181568
## 7637       2         1   0.512162397
## 8109       2         1   0.512110410
## 7319       2         1   0.512012284
## 16295      2         3   0.511619455
## 11120      2         3   0.511614077
## 11297      2         3   0.511552335
## 7332       2         1   0.511545489
## 7699       2         1   0.511441416
## 8406       2         1   0.511299870
## 16289      2         3   0.511294193
## 7330       2         1   0.511264992
## 7488       2         1   0.511259099
## 7689       2         1   0.511163517
## 7970       2         1   0.511042324
## 11667      2         3   0.510334166
## 7542       2         1   0.510219528
## 11209      2         3   0.510155191
## 7955       2         1   0.509967712
## 18836      2         3   0.509933417
## 7736       2         1   0.509600219
## 7650       2         1   0.509236900
## 16286      2         3   0.509157387
## 12522      2         1   0.509121446
## 12523      2         1   0.509117016
## 10497      2         1   0.509094765
## 7869       2         1   0.509090514
## 8183       2         1   0.509054301
## 11883      2         3   0.509037707
## 11316      2         3   0.508962882
## 7626       2         1   0.508961310
## 7243       2         1   0.508960952
## 12104      2         3   0.508933069
## 7432       2         1   0.508931969
## 16292      2         3   0.508858862
## 12899      2         3   0.508829600
## 11314      2         3   0.508817563
## 11834      2         3   0.508800286
```

```
## 8731       2        1   0.508781567
## 11428      2        3   0.508709381
## 11445      2        3   0.508695222
## 12106      2        3   0.508682445
## 12107      2        3   0.508654605
## 9068       2        1   0.508620023
## 7392       2        1   0.508596150
## 7398       2        1   0.508545129
## 14511      2        1   0.508529321
## 7165       2        1   0.508518127
## 16287      2        3   0.508452470
## 7729       2        1   0.508425033
## 16293      2        3   0.508413805
## 7632       2        1   0.508380989
## 11362      2        3   0.508370346
## 11245      2        3   0.508348433
## 7627       2        1   0.508343897
## 12133      2        1   0.508331919
## 16664      2        3   0.508213008
## 7185       2        1   0.508192379
## 11444      2        3   0.508081300
## 11248      2        3   0.507975436
## 9067       2        1   0.507902396
## 11506      2        3   0.507490277
## 7625       2        1   0.507354971
## 8980       2        1   0.507351328
## 11835      2        3   0.507312044
## 16522      2        3   0.507281243
## 11677      2        3   0.507196841
## 12050      2        3   0.507137327
## 7724       2        1   0.506870663
## 11996      2        3   0.506790017
## 7759       2        1   0.506732230
## 7171       2        1   0.506630919
## 7769       2        1   0.506605137
## 7986       2        1   0.506563416
## 7560       2        1   0.506518931
## 7487       2        1   0.506474203
## 11711      2        3   0.506429230
## 11713      2        3   0.506429230
## 7486       2        1   0.506421815
## 7500       2        1   0.506421815
## 7633       2        1   0.506412350
## 11441      2        3   0.506317117
## 7864       2        1   0.506294608
## 11852      2        3   0.506255365
## 11492      2        3   0.506132618
## 11657      2        3   0.506054292
## 11241      2        3   0.506051424
## 7667       2        1   0.506046275
## 11232      2        3   0.505988226
## 11427      2        3   0.505749927
## 8182       2        1   0.505711348
## 8184       2        1   0.505711348
```

```
## 11147        2        3   0.505513939
## 11006        2        3   0.505496516
## 11142        2        3   0.505384239
## 7975         2        1   0.505381910
## 7641         2        1   0.505310115
## 16294        2        3   0.505304331
## 12521        2        1   0.505273759
## 11439        2        3   0.505229575
## 7476         2        1   0.505145477
## 7698         2        1   0.505007433
## 7634         2        1   0.504906824
## 7651         2        1   0.504884195
## 7368         2        1   0.504870119
## 7557         2        1   0.504833687
## 7458         2        1   0.504833278
## 11712        2        3   0.504761874
## 7630         2        1   0.504697106
## 11146        2        3   0.504665229
## 7624         2        1   0.504574656
## 12509        2        1   0.504560269
## 7370         2        1   0.504518619
## 11513        2        3   0.504343762
## 12276        2        3   0.504288781
## 11286        2        3   0.504271326
## 11247        2        3   0.504139946
## 11363        2        3   0.504078907
## 11440        2        3   0.504035283
## 11957        2        3   0.503993389
## 11447        2        3   0.503993222
## 7558         2        1   0.502791563
## 7270         2        1   0.502668319
## 11381        2        3   0.502530515
## 11456        2        3   0.502524078
## 8066         2        1   0.502455837
## 7288         2        1   0.502429490
## 11244        2        3   0.502328652
## 11888        2        3   0.502317365
## 11337        2        3   0.502159443
## 11776        2        3   0.501775944
## 12519        2        1   0.501491921
## 7982         2        1   0.501475478
## 11855        2        3   0.501330075
## 7167         2        1   0.501255339
## 12518        2        1   0.501250288
## 7660         2        1   0.501229201
## 11705        2        3   0.501007900
## 11310        2        3   0.500906585
## 11151        2        3   0.500841782
## 12092        2        3   0.500744887
## 11635        2        3   0.500662908
## 16291        2        3   0.500514243
## 7727         2        1   0.500232476
## 11998        2        3   0.500219238
## 7865         2        1   0.500197265
```

```
## 7631          2          1    0.499973849
## 16665         2          3    0.499848043
## 12511         2          1    0.499774950
## 11491         2          3    0.499699590
## 11430         2          1    0.499585501
## 11246         2          3    0.499571763
## 11249         2          3    0.499504109
## 13228         2          3    0.499409508
## 7457          2          1    0.497406829
## 7439          2          1    0.497293427
## 7259          2          1    0.497231937
## 12108         2          3    0.497203978
## 7473          2          1    0.497180310
## 11507         2          3    0.497129780
## 7635          2          1    0.497066812
## 8981          2          1    0.497057430
## 11678         2          3    0.497041182
## 11361         2          3    0.496967469
## 8409          2          1    0.496903920
## 10160         2          1    0.496870714
## 11435         2          3    0.496829456
## 7733          2          1    0.496809530
## 11365         2          3    0.496455203
## 12091         2          3    0.496242662
## 11848         2          3    0.496155841
## 11437         2          3    0.496083203
## 11138         2          3    0.496034543
## 11222         2          3    0.495922786
## 19149         2          3    0.495500835
## 13947         2          3    0.494339601
## 11496         2          3    0.494042031
## 11242         2          3    0.493997218
## 7695          2          1    0.493946960
## 12505         2          1    0.493830208
## 16661         2          3    0.493744984
## 10448         2          1    0.493576137
## 7286          2          1    0.493561192
## 11849         2          3    0.493303142
## 7463          2          1    0.493193527
## 11579         2          3    0.492977395
## 11352         2          3    0.492951609
## 7474          2          1    0.492944712
## 12415         2          1    0.492930537
## 12857         2          3    0.492872572
## 11494         2          3    0.492831332
## 11622         2          3    0.492787271
## 7192          2          1    0.492722148
## 9782          2          1    0.492697076
## 7687          2          1    0.492695549
## 11699         2          3    0.492676391
## 7290          2          1    0.492593665
## 12197         2          3    0.492538849
## 7296          2          1    0.492516959
## 12061         2          3    0.492483883
```

```
## 16540        2        3    0.492319096
## 11577        2        3    0.492290392
## 7363         2        1    0.492266909
## 7868         2        1    0.492159765
## 12414        2        1    0.492026296
## 7554         2        1    0.492024550
## 11322        2        3    0.492012768
## 12211        2        3    0.491955037
## 8203         2        1    0.491899028
## 12418        2        1    0.491855213
## 11616        2        3    0.491829980
## 12093        2        3    0.491786770
## 7183         2        1    0.491703185
## 16541        2        3    0.491669240
## 11311        2        3    0.491588997
## 11774        2        3    0.491565194
## 7182         2        1    0.491563261
## 11330        2        3    0.491480489
## 11333        2        3    0.491334540
## 11382        2        3    0.491307791
## 16548        2        3    0.491144506
## 11698        2        3    0.491008648
## 11323        2        3    0.490454944
## 7909         2        1    0.490410158
## 7657         2        1    0.490399608
## 7328         2        1    0.490384308
## 8052         2        1    0.490382238
## 7652         2        1    0.490299887
## 11655        2        3    0.490254689
## 12507        2        1    0.490213798
## 16544        2        3    0.490136539
## 12739        2        3    0.490031922
## 16543        2        3    0.489999030
## 16545        2        3    0.489817110
## 11259        2        3    0.489681396
## 11514        2        3    0.489651393
## 11757        2        3    0.489633681
## 16662        2        3    0.489605805
## 9242         2        1    0.489057230
## 7402         2        1    0.489006310
## 8498         2        1    0.488930890
## 12416        2        1    0.488892502
## 7364         2        1    0.488709961
## 8496         2        1    0.488690296
## 7202         2        1    0.488518061
## 9869         2        1    0.488441256
## 12213        2        3    0.488306545
## 16547        2        3    0.488178341
## 11615        2        3    0.488174724
## 13945        2        3    0.488128981
## 7531         2        1    0.488102137
## 8181         2        1    0.488100802
## 12520        2        1    0.487920285
## 13227        2        3    0.487913112
```

```
## 8054         2        1   0.487818554
## 12516        2        1   0.487674373
## 7645         2        1   0.487402757
## 7981         2        1   0.487385101
## 7497         2        1   0.486913966
## 11999        2        3   0.486859626
## 13879        2        3   0.486859626
## 7656         2        1   0.486855545
## 10308        2        1   0.486824330
## 8500         2        1   0.486798844
## 11488        2        3   0.486738357
## 7190         2        1   0.486689268
## 16538        2        3   0.486636394
## 7628         2        1   0.486610453
## 13864        2        3   0.486603516
## 7658         2        1   0.486534672
## 11240        2        3   0.486520044
## 11302        2        3   0.486508306
## 11851        2        3   0.486497338
## 7327         2        1   0.486495496
## 7863         2        1   0.486493615
## 7629         2        1   0.486423160
## 13946        2        3   0.486418824
## 12738        2        3   0.486391406
## 7556         2        1   0.486386212
## 7289         2        1   0.486363286
## 7326         2        1   0.486352796
## 14140        2        3   0.486214095
## 7186         2        1   0.486213008
## 11671        2        3   0.486199943
## 12060        2        3   0.486196070
## 11564        2        3   0.486161226
## 12461        2        3   0.486137687
## 7453         2        1   0.486101067
## 11633        2        3   0.485878116
## 11255        2        3   0.485866579
## 11548        2        3   0.485775792
## 11459        2        3   0.485681915
## 11288        2        3   0.485553420
## 11313        2        3   0.485479287
## 12422        2        1   0.484544811
## 10384        2        1   0.484518255
## 12417        2        1   0.484434582
## 12463        2        3   0.484272843
## 7520         2        1   0.484247018
## 10310        2        1   0.484246993
## 12210        2        3   0.484217469
## 10309        2        1   0.484188460
## 11395        2        3   0.484163090
## 11332        2        3   0.484045730
## 11697        2        3   0.483998070
## 11334        2        3   0.483922544
## 11810        2        3   0.483847909
## 11578        2        3   0.483597859
```

```
## 9519      2      1   0.482930009
## 12009     2      3   0.482688360
## 11438     2      3   0.482674614
## 11139     2      3   0.482618160
## 11850     2      3   0.482614469
## 11239     2      3   0.482487791
## 7166      2      1   0.482370813
## 7417      2      1   0.482265314
## 7995      2      1   0.482265001
## 11418     2      3   0.482235863
## 12001     2      3   0.482219047
## 12503     2      1   0.482191756
## 12504     2      1   0.482097511
## 7318      2      1   0.482076242
## 11651     2      3   0.481796331
## 7397      2      1   0.481765260
## 10496     2      1   0.481745814
## 7184      2      1   0.481742845
## 7191      2      1   0.481742845
## 7287      2      1   0.481659433
## 11709     2      3   0.481550541
## 12084     2      3   0.481539468
## 7297      2      1   0.481513047
## 11258     2      3   0.481475157
## 11306     2      3   0.481462847
## 12419     2      1   0.481449265
## 13878     2      3   0.481352369
## 16537     2      3   0.481016047
## 11636     2      3   0.480543749
## 7768      2      1   0.478600820
## 10495     2      1   0.478558771
## 11325     2      3   0.478377190
## 7461      2      1   0.478362182
## 8535      2      1   0.478347707
## 7269      2      1   0.478109739
## 11254     2      3   0.477976298
## 11639     2      3   0.477962204
## 16666     2      3   0.477774541
## 7732      2      1   0.477743734
## 7644      2      1   0.477718020
## 7730      2      1   0.477575737
## 11216     2      3   0.476957472
## 16667     2      3   0.476870144
## 13948     2      3   0.476838067
## 7103      2      1   0.476800632
## 7096      2      1   0.476726395
## 7157      2      1   0.476726395
## 7089      2      1   0.476687343
## 11256     2      3   0.476671442
## 7088      2      1   0.476613374
## 8489      2      1   0.476613119
## 8490      2      1   0.476572984
## 12301     2      1   0.476504648
## 7278      2      1   0.476426276
```

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## 7435       2       1   0.476422180
## 7277       2       1   0.476402163
## 7298       2       1   0.476268083
## 11918      2       3   0.476236234
## 7361       2       1   0.476235179
## 12305      2       1   0.476111153
## 11370      2       3   0.475966735
## 11676      2       3   0.475960251
## 11673      2       3   0.475903125
## 7093       2       1   0.475870451
## 16525      2       3   0.475765288
## 11415      2       3   0.475753666
## 11498      2       3   0.475623569
## 12218      2       3   0.475595456
## 16531      2       3   0.475551112
## 11448      2       3   0.475465329
## 11500      2       3   0.475237721
## 7436       2       1   0.475220837
## 7211       2       1   0.475216544
## 12299      2       1   0.475190350
## 12216      2       3   0.475146324
## 11386      2       3   0.475141558
## 11392      2       3   0.475060129
## 12302      2       1   0.475039327
## 11587      2       3   0.475034717
## 11499      2       3   0.474972524
## 11385      2       3   0.474860959
## 11453      2       3   0.474834880
## 11318      2       3   0.474694045
## 11818      2       3   0.474541842
## 10494      2       1   0.474532226
## 11580      2       3   0.474459502
## 11389      2       3   0.474453475
## 8499       2       1   0.474379940
## 10505      2       1   0.474156422
## 7280       2       1   0.474100245
## 8492       2       1   0.474067580
## 11391      2       3   0.473997349
## 9333       2       1   0.473950170
## 7299       2       1   0.473885902
## 11394      2       3   0.473337119
## 16533      2       3   0.473322820
## 14312      2       3   0.473268104
## 7472       2       1   0.473002639
## 12506      2       1   0.472936366
## 7369       2       1   0.472829207
## 26743      2       1   0.472783960
## 12297      2       1   0.472757209
## 7860       2       1   0.472594652
## 12510      2       1   0.472571414
## 8495       2       1   0.472526743
## 7104       2       1   0.472478680
## 7728       2       1   0.472449480
## 7907       2       1   0.472316119
```

```
## 11653    2    3    0.472071527
## 12217    2    3    0.472002267
## 11610    2    3    0.471994857
## 11611    2    3    0.471923464
## 11287    2    3    0.471905240
## 8493     2    1    0.471896534
## 11493    2    3    0.471783453
## 16523    2    3    0.471771925
## 8501     2    1    0.471189118
## 7555     2    1    0.471100925
## 7553     2    1    0.470859112
## 7466     2    1    0.470820914
## 11656    2    3    0.470804421
## 7155     2    1    0.470594223
## 16542    2    3    0.470492613
## 7308     2    1    0.470438185
## 7908     2    1    0.470339955
## 12300    2    1    0.470281849
## 7091     2    1    0.470234588
## 12306    2    1    0.470208927
## 12296    2    1    0.470146459
## 11716    2    3    0.470032941
## 16530    2    3    0.469997914
## 12219    2    3    0.469974688
## 11581    2    3    0.469719908
## 11665    2    3    0.469468308
## 10752    2    1    0.468565327
## 7399     2    1    0.468142179
## 13229    2    3    0.468107144
## 7156     2    1    0.468095636
## 11508    2    3    0.467864598
## 26598    2    1    0.467804219
## 12198    2    3    0.467793012
## 9334     2    1    0.467681948
## 12508    2    1    0.467619201
## 11674    2    3    0.467529388
## 16534    2    3    0.467496455
## 13478    2    3    0.467419356
## 11838    2    3    0.467369415
## 11497    2    3    0.467362269
## 11388    2    3    0.466900053
## 13881    2    3    0.466856201
## 16524    2    3    0.466855078
## 11844    2    3    0.466825628
## 7954     2    1    0.466749273
## 11670    2    3    0.466701850
## 11243    2    3    0.466650901
## 7862     2    1    0.466438423
## 14139    2    3    0.466349346
## 11495    2    3    0.465818915
## 11836    2    3    0.465742021
## 11372    2    3    0.465669356
## 7201     2    1    0.465309985
## 7317     2    1    0.465135254
```

```
## 7654          2          1   0.465082670
## 10493         2          1   0.465000210
## 12298         2          1   0.464934850
## 8065          2          1   0.464922534
## 8491          2          1   0.464870418
## 7479          2          1   0.464745059
## 11841         2          3   0.464682743
## 11837         2          3   0.464267352
## 11796         2          3   0.464178445
## 12596         2          3   0.463860586
## 7366          2          1   0.463068721
## 11775         2          3   0.463015292
## 11257         2          3   0.462948351
## 12105         2          3   0.462891432
## 11320         2          3   0.462370260
## 11324         2          3   0.462241302
## 7878          2          1   0.462163375
## 12062         2          3   0.462159819
## 8497          2          1   0.462145379
## 7387          2          1   0.462141819
## 7688          2          1   0.461994747
## 8305          2          1   0.461973762
## 7421          2          1   0.461826249
## 7094          2          1   0.461826026
## 11390         2          3   0.461407797
## 7483          2          1   0.461192247
## 16536         2          3   0.461053317
## 15077         2          3   0.460881956
## 12204         2          1   0.459318023
## 7679          2          1   0.459281509
## 7351          2          1   0.459266645
## 12203         2          1   0.459156680
## 12208         2          1   0.459147186
## 7545          2          1   0.459132808
## 7353          2          1   0.458915905
## 7092          2          1   0.458835704
## 7034          2          1   0.458763268
## 10492         2          1   0.458753567
## 16432         2          3   0.458741196
## 7152          2          1   0.458722121
## 12443         2          3   0.458587959
## 7133          2          1   0.458540574
## 7137          2          1   0.458533300
## 7857          2          1   0.458532336
## 7164          2          1   0.458487784
## 7440          2          1   0.458465898
## 8494          2          1   0.458438328
## 11952         2          3   0.458402065
## 11393         2          3   0.458399478
## 7419          2          1   0.458381696
## 7179          2          1   0.458363499
## 7766          2          1   0.458235617
## 7677          2          1   0.458169384
## 8488          2          1   0.458124613
```

```
## 12209       2         1   0.458120038
## 12421       2         1   0.458116289
## 11384       2         3   0.458077937
## 11920       2         3   0.458076960
## 11583       2         3   0.458065849
## 12224       2         3   0.458010588
## 12444       2         3   0.458010588
## 12220       2         3   0.458001618
## 12772       2         3   0.457977444
## 16435       2         3   0.457956869
## 8099        2         1   0.457917212
## 11675       2         3   0.457870752
## 7529        2         1   0.457852219
## 7365        2         1   0.457847446
## 12002       2         3   0.457806451
## 8482        2         1   0.457804663
## 8202        2         1   0.457776357
## 7203        2         1   0.457772489
## 7355        2         1   0.457605818
## 7465        2         1   0.457558423
## 11490       2         3   0.457452672
## 11860       2         3   0.457390187
## 7257        2         1   0.457381378
## 11387       2         3   0.457356165
## 11843       2         3   0.457276368
## 15277       2         3   0.457248289
## 11840       2         3   0.457217728
## 11846       2         3   0.457073516
## 12295       2         3   0.456835530
## 11319       2         3   0.456676992
## 12206       2         1   0.456656084
## 8487        2         1   0.456565249
## 11637       2         3   0.456232367
## 16436       2         3   0.456204027
## 8479        2         1   0.456109200
## 11571       2         3   0.456006221
## 11573       2         3   0.455918628
## 11592       2         3   0.455781201
## 11879       2         3   0.455610360
## 11922       2         3   0.455429380
## 7039        2         1   0.455200033
## 7859        2         1   0.454808790
## 7362        2         1   0.454767505
## 7655        2         1   0.454695581
## 7040        2         1   0.454692415
## 7206        2         1   0.454498296
## 11473       2         3   0.454319683
## 11561       2         3   0.454319683
## 12223       2         3   0.454253733
## 16437       2         3   0.454245849
## 16440       2         3   0.454058675
## 16438       2         3   0.453933120
## 11452       2         3   0.453865346
## 16529       2         3   0.453537047
```

```
## 11565       2          3    0.453447726
## 8484        2          1    0.453381813
## 10491       2          1    0.453381813
## 11839       2          3    0.453345689
## 7956        2          1    0.453089406
## 7678        2          1    0.453035046
## 16546       2          3    0.452948472
## 7347        2          1    0.452788547
## 7462        2          1    0.452686407
## 9008        2          1    0.452634875
## 7888        2          1    0.452612457
## 11371       2          3    0.452469852
## 11570       2          3    0.452464275
## 7861        2          1    0.452457087
## 11471       2          3    0.452389989
## 7953        2          1    0.452360089
## 11515       2          3    0.452182045
## 12222       2          3    0.452127651
## 15288       2          3    0.451873136
## 12059       2          3    0.451298361
## 12594       2          3    0.451022509
## 7359        2          1    0.450715018
## 12207       2          1    0.450684305
## 7765        2          1    0.450669703
## 12304       2          1    0.450625606
## 7957        2          1    0.450580048
## 7354        2          1    0.450499480
## 16526       2          3    0.450472984
## 7208        2          1    0.450413514
## 11331       2          3    0.450388950
## 8100        2          1    0.450077090
## 16527       2          3    0.450059074
## 12199       2          3    0.450039604
## 12442       2          3    0.449957100
## 16431       2          3    0.449840520
## 11917       2          3    0.449328550
## 12740       2          3    0.449290673
## 11845       2          3    0.449240819
## 11919       2          3    0.449182934
## 9195        2          1    0.447903200
## 7348        2          1    0.447880633
## 12420       2          1    0.447742096
## 16439       2          3    0.447615657
## 7356        2          1    0.447604626
## 11366       2          3    0.447595325
## 11582       2          3    0.447366422
## 7244        2          1    0.446802680
## 11469       2          3    0.446777264
## 11451       2          3    0.446756899
## 7433        2          1    0.446435999
## 16668       2          3    0.446426912
## 16663       2          3    0.446350999
## 7279        2          1    0.446350130
## 7420        2          1    0.446051573
```

```
## 7767        2        1   0.446043975
## 7090        2        1   0.446043048
## 7360        2        1   0.446043048
## 12595       2        3   0.445077100
## 12063       2        3   0.445011817
## 11467       2        3   0.444928596
## 11609       2        3   0.444811851
## 7544        2        1   0.444782580
## 16528       2        3   0.444778027
## 7153        2        1   0.444744154
## 8481        2        1   0.444637255
## 12200       2        1   0.444600591
## 8480        2        1   0.444487594
## 7958        2        1   0.444479967
## 11472       2        3   0.443768574
## 12064       2        3   0.443339944
## 11648       2        3   0.443295192
## 7464        2        1   0.442466434
## 11351       2        3   0.442321309
## 7207        2        1   0.441688551
## 7680        2        1   0.441673512
## 12303       2        1   0.441573628
## 8483        2        1   0.441562896
## 7102        2        1   0.441376032
## 16532       2        3   0.441371864
## 7316        2        1   0.441292037
## 9194        2        1   0.441185244
## 16434       2        3   0.441080293
## 14301       2        3   0.441061482
## 11572       2        3   0.441057456
## 11921       2        3   0.440982201
## 6972        2        1   0.440840093
## 6950        2        1   0.440839874
## 11612       2        3   0.440774934
## 7199        2        1   0.440762415
## 11623       2        3   0.440718910
## 7322        2        1   0.440406334
## 8304        2        1   0.440394575
## 7200        2        1   0.440389233
## 12132       2        1   0.440297686
## 12214       2        3   0.440158226
## 11755       2        3   0.440105459
## 7198        2        1   0.440094147
## 16681       2        3   0.440080961
## 12068       2        3   0.439939033
## 12067       2        3   0.439936425
## 12072       2        3   0.439931641
## 13412       2        3   0.439906098
## 6951        2        1   0.439905150
## 11842       2        3   0.439869214
## 7344        2        1   0.439813157
## 9082        2        1   0.439671641
## 15395       2        3   0.439507908
## 12045       2        1   0.439428446
```

```
## 7138        2       1   0.439400362
## 12043       2       1   0.439310534
## 8380        2       1   0.439182543
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## 12047       2       1   0.439168055
## 13413       2       3   0.438971753
## 12237       2       3   0.438934630
## 11982       2       3   0.438891844
## 14646       2       3   0.438596904
## 12294       2       3   0.438564257
## 7345        2       1   0.438563928
## 7050        2       1   0.438507168
## 12174       2       3   0.438463896
## 7323        2       1   0.438369126
## 9085        2       1   0.438184971
## 7082        2       1   0.438150739
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## 7136        2       1   0.438064818
## 7189        2       1   0.437980707
## 7401        2       1   0.437779498
## 7204        2       1   0.437711653
## 7478        2       1   0.437631148
## 7352        2       1   0.437616830
## 11816       2       3   0.437535903
## 12078       2       3   0.437483639
## 7400        2       1   0.437379896
## 11973       2       3   0.437366122
## 7049        2       1   0.437241464
## 7258        2       1   0.437239046
## 14645       2       3   0.437208868
## 12240       2       3   0.437153326
## 12083       2       3   0.437142785
## 11321       2       3   0.437113860
## 11584       2       3   0.437071420
## 12166       2       3   0.437070634
## 7149        2       1   0.437003174
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## 12212       2       3   0.436799846
## 7163        2       1   0.436595987
## 7434        2       1   0.436354006
## 11474       2       3   0.436290480
## 11754       2       3   0.436268678
## 11642       2       3   0.436255183
## 11511       2       3   0.435949548
## 16671       2       3   0.435840977
## 12256       2       3   0.435735350
## 12074       2       3   0.435728750
## 16674       2       3   0.435668038
## 11574       2       3   0.435494082
## 8382        2       1   0.434872309
## 7452        2       1   0.434831237
## 7000        2       1   0.434527607
## 12071       2       3   0.434487569
## 8383        2       1   0.434470517
```

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## 11901     2        3    0.433935568
## 7309      2        1    0.433848903
## 12202     2        1    0.433789613
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## 16679     2        3    0.433613796
## 8478      2        1    0.433601016
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## 7346      2        1    0.433448265
## 8486      2        1    0.433394815
## 16433     2        3    0.433198695
## 11470     2        3    0.433164109
## 12201     2        1    0.433132196
## 13126     2        3    0.432877486
## 14599     2        1    0.432702762
## 6971      2        1    0.432553087
## 7291      2        1    0.432535192
## 26573     2        1    0.432353311
## 12221     2        3    0.432339293
## 9083      2        1    0.432323630
## 16660     2        3    0.432227588
## 11468     2        3    0.432115117
## 7105      2        1    0.432024495
## 7095      2        1    0.431834295
## 16535     2        3    0.431600936
## 16539     2        3    0.431550776
## 11672     2        3    0.431485330
## 12215     2        3    0.431468860
## 12774     2        3    0.431387339
## 11576     2        3    0.431313461
## 11480     2        3    0.431166089
## 12248     2        3    0.431051271
## 6952      2        1    0.430170990
## 7451      2        1    0.429916395
## 7343      2        1    0.429872352
## 7293      2        1    0.429826987
## 7256      2        1    0.429813911
## 12048     2        1    0.429771300
## 12044     2        1    0.429694602
## 7169      2        1    0.429586639
## 7150      2        1    0.429497290
## 9312      2        1    0.429293202
## 8485      2        1    0.429190923
## 11974     2        3    0.429048718
## 13127     2        3    0.428940171
## 7357      2        1    0.428889725
## 16676     2        3    0.428797250
## 12065     2        3    0.428770322
## 12773     2        3    0.428624105
## 12073     2        3    0.428608277
## 12247     2        3    0.428357004
```

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## 12076    2      3    0.428245245
## 6970     2      1    0.427065922
## 7178     2      1    0.426704113
## 7418     2      1    0.426602022
## 11646    2      3    0.426227779
## 11479    2      3    0.426194974
## 7295     2      1    0.426157100
## 16678    2      3    0.425390563
## 11956    2      3    0.425153804
## 11902    2      3    0.424996761
## 7205     2      1    0.424186782
## 7119     2      1    0.423327166
## 8536     2      1    0.423046661
## 11733    2      3    0.423018440
## 11560    2      3    0.422945091
## 12239    2      3    0.422824288
## 11714    2      3    0.422758202
## 16677    2      3    0.422535629
## 8376     2      1    0.421996963
## 11732    2      1    0.421996963
## 7342     2      1    0.421962342
## 11575    2      3    0.421959401
## 8090     2      1    0.421834447
## 7854     2      1    0.421833580
## 11907    2      3    0.421775057
## 12033    2      1    0.421772678
## 8088     2      1    0.421743255
## 6891     2      1    0.421742553
## 8089     2      1    0.421707575
## 12077    2      3    0.421704025
## 7031     2      1    0.421672249
## 7358     2      1    0.421649326
## 6969     2      1    0.421562366
## 6893     2      1    0.421541638
## 8913     2      1    0.421533913
## 12038    2      1    0.421484019
## 7174     2      1    0.421465425
## 8840     2      1    0.421227056
## 26553    2      1    0.421097343
## 12032    2      1    0.421048640
## 11916    2      3    0.421036010
## 12488    2      3    0.420724051
## 11481    2      3    0.420696733
## 8087     2      1    0.420671414
## 8375     2      1    0.420592631
## 12310    2      3    0.420547296
## 7339     2      1    0.420529595
## 12283    2      3    0.420505762
## 17679    2      3    0.420499501
## 11550    2      3    0.420467927
## 7693     2      1    0.420402986
## 11753    2      3    0.420368945
## 7195     2      1    0.420324385
## 13360    2      3    0.420296402
```

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## 12037        2        1   0.420281679
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## 11984        2        3   0.420253056
## 12314        2        3   0.420242132
## 7307         2        1   0.420225431
## 11787        2        3   0.420220185
## 12307        2        3   0.420202643
## 12308        2        3   0.420184761
## 9007         2        1   0.420020586
## 12250        2        3   0.419992372
## 12316        2        3   0.419686167
## 12554        2        3   0.419636912
## 12205        2        1   0.419628490
## 8379         2        1   0.419602672
## 7350         2        1   0.419590701
## 8371         2        1   0.419579577
## 11485        2        3   0.419569726
## 8384         2        1   0.419566225
## 7858         2        1   0.419545350
## 7151         2        1   0.419503742
## 11953        2        3   0.419502293
## 7047         2        1   0.419471638
## 7334         2        1   0.419446335
## 16685        2        3   0.419441729
## 8789         2        1   0.419400598
## 11647        2        3   0.419329056
## 12046        2        1   0.419311185
## 7116         2        1   0.419307333
## 17680        2        3   0.419273243
## 6946         2        1   0.419264718
## 7048         2        1   0.419232936
## 11478        2        3   0.419215052
## 11649        2        3   0.419047266
## 11543        2        3   0.419014325
## 12056        2        3   0.418987064
## 12254        2        3   0.418505575
## 12070        2        3   0.418421523
## 11475        2        3   0.418253209
## 11482        2        3   0.418228547
## 12176        2        3   0.418222568
## 11666        2        3   0.418184291
## 12238        2        3   0.418165087
## 12175        2        3   0.418091372
## 11960        2        3   0.418066529
## 11985        2        3   0.418051582
## 11847        2        3   0.418034155
## 11541        2        3   0.417976807
## 17681        2        3   0.417568309
## 12040        2        1   0.417517727
## 8372         2        1   0.417286970
## 16684        2        3   0.416546063
## 12319        2        3   0.416452426
## 11549        2        3   0.416133297
## 11483        2        3   0.416130530
```

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## 7856       2        1   0.416001505
## 7855       2        1   0.415979989
## 7154       2        1   0.415954307
## 6907       2        1   0.415887288
## 7162       2        1   0.415597782
## 7294       2        1   0.415578190
## 16670      2        3   0.415564039
## 10334      2        1   0.415530881
## 11477      2        3   0.415264988
## 11663      2        3   0.415168308
## 11645      2        3   0.415076207
## 11911      2        3   0.415017341
## 13362      2        3   0.414971642
## 12555      2        3   0.414885697
## 11752      2        3   0.414855624
## 12251      2        3   0.414848741
## 11878      2        3   0.414623362
## 12309      2        3   0.414618983
## 12487      2        3   0.414617295
## 13361      2        3   0.414465859
## 11986      2        3   0.414318370
## 16680      2        3   0.414278289
## 16673      2        3   0.414256646
## 12034      2        1   0.413784571
## 7340       2        1   0.413757771
## 7073       2        1   0.413677331
## 6894       2        1   0.413595536
## 8373       2        1   0.413483861
## 8839       2        1   0.413280742
## 12317      2        3   0.412465823
## 12315      2        3   0.412319105
## 12249      2        3   0.412232628
## 17683      2        3   0.412103159
## 10335      2        1   0.411979968
## 11958      2        3   0.411821878
## 7118       2        1   0.411350245
## 7569       2        1   0.411248420
## 16669      2        3   0.411092361
## 7175       2        1   0.410989993
## 6947       2        1   0.410914492
## 7321       2        1   0.410877996
## 7130       2        1   0.410867374
## 7251       2        1   0.410755891
## 7035       2        1   0.410687780
## 6908       2        1   0.410597749
## 12039      2        1   0.410458021
## 15181      2        3   0.410180355
## 12252      2        3   0.410174332
## 12312      2        3   0.410168455
## 12066      2        3   0.410132574
## 16675      2        3   0.409869526
## 11908      2        3   0.409855225
## 12253      2        3   0.409704105
## 11613      2        3   0.409616140
```

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## 11654          2          3  0.409292135
## 6898           2          1  0.408110059
## 8374           2          1  0.408101158
## 7393           2          1  0.407998655
## 10333          2          1  0.407988790
## 8720           2          1  0.407954343
## 12042          2          1  0.407914851
## 7036           2          1  0.407872729
## 9223           2          1  0.407845919
## 7020           2          1  0.407474761
## 12049          2          1  0.407381968
## 9084           2          1  0.407295512
## 7292           2          1  0.407259648
## 6953           2          1  0.407139603
## 8378           2          1  0.406940575
## 12255          2          3  0.406605387
## 11959          2          3  0.406367081
## 11715          2          3  0.405718215
## 14604          2          3  0.405718215
## 11812          2          3  0.405557364
## 12055          2          3  0.405526285
## 11458          2          3  0.405394385
## 15396          2          3  0.405389309
## 17303          2          3  0.405306776
## 12058          2          3  0.405254129
## 11811          2          3  0.405109960
## 7485           2          1  0.404846150
## 7254           2          1  0.404721090
## 12041          2          1  0.404653436
## 7028           2          1  0.404469868
## 7341           2          1  0.404440395
## 7675           2          1  0.404269637
## 11620          2          3  0.403970706
## 12311          2          3  0.403787741
## 12313          2          3  0.403666267
## 12969          2          3  0.403617221
## 11618          2          3  0.402750031
## 13084          2          3  0.402716642
## 12075          2          3  0.402176100
## 6948           2          1  0.402034319
## 7611           2          1  0.401872773
## 7080           2          1  0.401656953
## 7098           2          1  0.401624207
## 7021           2          1  0.401530930
## 7022           2          1  0.401530930
## 7613           2          1  0.401515209
## 10332          2          1  0.401437073
## 7615           2          1  0.401311106
## 7056           2          1  0.401291292
## 6909           2          1  0.401149881
## 7037           2          1  0.401108318
## 6936           2          1  0.401081466
## 12036          2          1  0.400994402
## 7477           2          1  0.400991615
```

```
## 13597        2        3    0.400949416
## 6892         2        1    0.400883671
## 7101         2        1    0.400836892
## 8366         2        1    0.400818434
## 12035        2        1    0.400788472
## 7173         2        1    0.400703428
## 11905        2        3    0.400694694
## 7100         2        1    0.400609603
## 8719         2        1    0.400607679
## 11983        2        3    0.400586901
## 11955        2        3    0.400524897
## 11606        2        3    0.400353905
## 7052         2        1    0.400295971
## 17678        2        3    0.400241788
## 11735        2        3    0.400189390
## 11449        2        3    0.400099267
## 11593        2        3    0.400029578
## 12053        2        3    0.399958588
## 11591        2        3    0.399940695
## 17378        2        3    0.399903969
## 11604        2        3    0.399903161
## 12512        2        1    0.399845927
## 11595        2        3    0.399760443
## 12344        2        3    0.399543983
## 11644        2        3    0.399495477
## 12149        2        3    0.399429281
## 12335        2        3    0.399408306
## 11601        2        3    0.399062027
## 6875         2        1    0.399014461
## 11788        2        3    0.398966990
## 11598        2        3    0.398962245
## 12150        2        3    0.398949285
## 12324        2        3    0.398899017
## 11605        2        3    0.398786580
## 12493        2        3    0.398748883
## 12285        2        3    0.398675033
## 12347        2        3    0.398649091
## 12346        2        3    0.398016347
## 12334        2        3    0.397987358
## 12464        2        3    0.397897037
## 19600        2        3    0.397829169
## 7161         2        1    0.397825716
## 7053         2        1    0.397775593
## 7131         2        1    0.397772451
## 13085        2        3    0.397767756
## 7018         2        1    0.397753473
## 7371         2        1    0.397689130
## 11789        2        3    0.397614088
## 14799        2        3    0.397405605
## 6998         2        1    0.397347584
## 6945         2        1    0.397250818
## 16682        2        3    0.397233528
## 7115         2        1    0.397217949
## 11476        2        3    0.397070720
```

```
## 7372        2        1    0.396712433
## 12258       2        3    0.396618698
## 12318       2        3    0.396471848
## 11744       2        3    0.396450227
## 11961       2        3    0.396260041
## 19297       2        3    0.396227772
## 13086       2        3    0.396201198
## 12052       2        3    0.396018753
## 19293       2        3    0.395985064
## 7001        2        1    0.395930312
## 11589       2        3    0.395834638
## 11300       2        1    0.395761620
## 7852        2        1    0.395705251
## 7019        2        1    0.395655943
## 7315        2        1    0.395624220
## 16683       2        3    0.395437172
## 15832       2        3    0.395024811
## 12591       2        3    0.394729791
## 11912       2        3    0.394463077
## 11737       2        3    0.394370709
## 11962       2        3    0.394355136
## 7546        2        1    0.394316623
## 6741        2        1    0.393825943
## 7055        2        1    0.393634316
## 6937        2        1    0.393589035
## 26456       2        1    0.393470478
## 6949        2        1    0.393059800
## 7853        2        1    0.393007626
## 7568        2        1    0.392986449
## 7484        2        1    0.392859800
## 6905        2        1    0.392809011
## 7117        2        1    0.392577256
## 11643       2        3    0.392555975
## 11903       2        3    0.392356225
## 11603       2        3    0.392150494
## 13596       2        3    0.392137174
## 12260       2        3    0.391572091
## 11299       2        1    0.391216996
## 11619       2        3    0.391175423
## 6742        2        1    0.391133400
## 6740        2        1    0.391070565
## 8365        2        1    0.391064873
## 14598       2        1    0.391056463
## 7475        2        1    0.391045502
## 10158       2        1    0.390823562
## 7017        2        1    0.390679509
## 13087       2        3    0.390124781
## 12320       2        3    0.389938446
## 11795       2        3    0.389848922
## 15829       2        3    0.389714256
## 19296       2        3    0.389560276
## 12492       2        3    0.389554993
## 12151       2        3    0.389535389
## 7349        2        1    0.388892468
```

```
## 7196       2       1   0.388886294
## 11542      2       3   0.388364268
## 7612       2       1   0.388329701
## 7692       2       1   0.388260399
## 7938       2       1   0.388250471
## 7054       2       1   0.388203199
## 9159       2       1   0.388186672
## 7851       2       1   0.387962713
## 11786      2       3   0.387925139
## 11964      2       3   0.387244504
## 12875      2       3   0.387133961
## 12069      2       3   0.387059632
## 11484      2       3   0.386976482
## 11954      2       3   0.386808313
## 11963      2       3   0.386763402
## 12259      2       3   0.386556765
## 11590      2       3   0.386486516
## 11586      2       3   0.386076411
## 7194       2       1   0.384504976
## 6895       2       1   0.384194249
## 11742      2       3   0.383963183
## 11927      2       3   0.383944670
## 12348      2       3   0.383844124
## 8721       2       1   0.383746752
## 6890       2       1   0.383715489
## 11460      2       3   0.383714799
## 6896       2       1   0.383696824
## 7676       2       1   0.383663757
## 8914       2       1   0.383644792
## 7255       2       1   0.383616905
## 12323      2       3   0.383297573
## 11694      2       3   0.383278038
## 11607      2       3   0.382906375
## 11600      2       3   0.382874926
## 17682      2       3   0.382343251
## 11717      2       3   0.382325688
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## 11910      2       3   0.382017505
## 11664      2       3   0.381870753
## 7160       2       1   0.381836650
## 6922       2       1   0.381715666
## 7850       2       1   0.381628971
## 8369       2       1   0.381619783
## 10159      2       1   0.381505478
## 7614       2       1   0.381460095
## 6999       2       1   0.381329243
## 6743       2       1   0.381068883
## 6944       2       1   0.381066786
## 8364       2       1   0.380992459
## 8700       2       1   0.380770052
## 8698       2       1   0.380717256
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## 6889       2       1   0.380581358
## 12265      2       3   0.380535573
```

```
## 12284          2          3    0.380522730
## 6739           2          1    0.380507550
## 12054          2          3    0.380503649
## 7168           2          1    0.380469760
## 7083           2          1    0.380454525
## 6761           2          1    0.380380965
## 11987          2          3    0.380363604
## 6888           2          1    0.380341452
## 8696           2          1    0.380332096
## 8692           2          1    0.380297589
## 6915           2          1    0.380259901
## 7029           2          1    0.380125755
## 6914           2          1    0.380078110
## 7567           2          1    0.379966583
## 6906           2          1    0.379815818
## 7030           2          1    0.379723651
## 7252           2          1    0.379653538
## 7197           2          1    0.379562059
## 7849           2          1    0.379408830
## 7016           2          1    0.379350704
## 12349          2          3    0.379008849
## 11659          2          3    0.379001624
## 12340          2          3    0.378952720
## 14556          2          3    0.378862629
## 12051          2          3    0.378817471
## 14555          2          3    0.378673077
## 12181          2          3    0.378662701
## 15025          2          3    0.378586281
## 14558          2          3    0.378560526
## 11881          2          3    0.378517327
## 12226          2          3    0.378496076
## 8766           2          1    0.378464291
## 6928           2          1    0.378447548
## 11727          2          3    0.378418206
## 12342          2          3    0.378415419
## 12242          2          3    0.378404438
## 11114          2          1    0.378357083
## 6881           2          1    0.378283023
## 6790           2          1    0.378269441
## 12592          2          3    0.378195948
## 6882           2          1    0.378037211
## 6943           2          1    0.377840176
## 17921          2          3    0.377813959
## 17922          2          3    0.377806636
## 8368           2          1    0.377803604
## 12341          2          3    0.377801540
## 14557          2          3    0.377786581
## 8367           2          1    0.377661834
## 7084           2          1    0.377452174
## 12129          2          3    0.377383834
## 15831          2          3    0.377109548
## 6995           2          1    0.377049521
## 7253           2          1    0.377007103
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```

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## 12345     2        3  0.376939895
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## 8689      2        1  0.376842550
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## 9790      2        1  0.376827283
## 7045      2        1  0.376765427
## 8694      2        1  0.376702495
## 11817     2        3  0.376632327
## 12351     2        3  0.376627930
## 12338     2        3  0.376608324
## 8765      2        1  0.376525530
## 15024     2        3  0.376516565
## 7058      2        1  0.376506483
## 11928     2        3  0.376232518
## 11819     2        3  0.376220576
## 12433     2        3  0.376111689
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## 11597     2        3  0.375840476
## 11780     2        3  0.375715216
## 12876     2        3  0.375583281
## 11926     2        3  0.375448354
## 11660     2        3  0.375357388
## 12185     2        3  0.375357388
## 16080     2        3  0.375217046
## 6774      2        1  0.375129850
## 6791      2        1  0.375046872
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## 8695      2        1  0.374813283
## 6762      2        1  0.374809258
## 26439     2        1  0.374801242
## 8398      2        1  0.374749828
## 12243     2        3  0.374694010
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## 8370      2        1  0.373851643
## 6879      2        1  0.373681527
## 7099      2        1  0.373552334
## 12138     2        3  0.373503793
## 16018     2        3  0.373482558
## 12350     2        3  0.373463021
## 11858     2        3  0.373417278
## 8690      2        1  0.372958030
## 12322     2        3  0.372873599
## 19295     2        3  0.372849476
## 6904      2        1  0.372799315
## 11968     2        3  0.372795926
## 11784     2        3  0.372671847
## 6738      2        1  0.372627229
## 7113      2        1  0.372588416
## 8915      2        1  0.372220687
## 12490     2        3  0.371800270
## 11871     2        3  0.371728940
## 11725     2        3  0.371671424
```

```
## 11726    2       3   0.371613847
## 19294    2       3   0.371455475
## 12184    2       3   0.371451935
## 16078    2       3   0.371397823
## 12195    2       3   0.370956797
## 11111    2       1   0.370504814
## 6794     2       1   0.370365156
## 8697     2       1   0.370349829
## 7114     2       1   0.370050471
## 15678    2       3   0.368928728
## 12336    2       3   0.368630798
## 12183    2       3   0.368530264
## 11814    2       3   0.368514623
## 12057    2       3   0.368391731
## 16017    2       3   0.368254288
## 11599    2       3   0.367732097
## 6880     2       1   0.367701493
## 7079     2       1   0.367701493
## 8699     2       1   0.367648791
## 11602    2       3   0.367481403
## 16077    2       3   0.366339904
## 12194    2       3   0.366134729
## 12241    2       3   0.365364916
## 7314     2       1   0.364352733
## 6789     2       1   0.364325558
## 11450    2       3   0.363889186
## 13265    2       3   0.363290176
## 11658    2       3   0.363209683
## 12339    2       3   0.363014983
## 11736    2       3   0.362936734
## 11743    2       3   0.362923156
## 15833    2       3   0.362759527
## 7416     2       1   0.361038501
## 7172     2       1   0.360867048
## 8399     2       1   0.360812692
## 8691     2       1   0.360732380
## 7051     2       1   0.360669461
## 7042     2       1   0.360595557
## 6736     2       1   0.360574662
## 7072     2       1   0.359763088
## 12193    2       3   0.359628368
## 12277    2       3   0.359019284
## 7057     2       1   0.358567689
## 7844     2       1   0.358539913
## 8265     2       1   0.358468743
## 7824     2       1   0.358459869
## 7843     2       1   0.358408504
## 6704     2       1   0.358333436
## 7886     2       1   0.358226417
## 6731     2       1   0.358187323
## 6802     2       1   0.358109662
## 6965     2       1   0.358085602
## 7414     2       1   0.358027047
## 7122     2       1   0.357959633
```

```
## 8263        2        1    0.357937539
## 7110        2        1    0.357896381
## 9789        2        1    0.357548395
## 6924        2        1    0.357521846
## 7124        2        1    0.357521846
## 8126        2        1    0.357427724
## 7913        2        1    0.357426700
## 7848        2        1    0.357423022
## 6967        2        1    0.357358338
## 6737        2        1    0.357279744
## 7847        2        1    0.357268559
## 8448        2        1    0.357208922
## 8262        2        1    0.357149752
## 11112       2        1    0.357048532
## 6997        2        1    0.356760863
## 7885        2        1    0.356651994
## 7914        2        1    0.356518706
## 6723        2        1    0.356486593
## 7014        2        1    0.356456056
## 12088       2        3    0.356436734
## 12426       2        3    0.356406216
## 11728       2        3    0.356374892
## 11747       2        3    0.356346378
## 11875       2        3    0.356256612
## 6921        2        1    0.356119925
## 6804        2        1    0.356075866
## 12231       2        3    0.356075486
## 11746       2        3    0.356048613
## 11969       2        3    0.355983801
## 11929       2        3    0.355922107
## 11970       2        3    0.355723949
## 12293       2        3    0.355584156
## 12292       2        3    0.355454533
## 12353       2        3    0.355424411
## 16079       2        3    0.355394429
## 11930       2        3    0.355310462
## 6760        2        1    0.355215570
## 13288       2        3    0.355156387
## 12343       2        3    0.355154296
## 12337       2        3    0.355107682
## 10927       2        1    0.355017335
## 8264        2        1    0.355000235
## 12227       2        3    0.354999655
## 6923        2        1    0.354885741
## 8260        2        1    0.354871278
## 6785        2        1    0.354855896
## 8266        2        1    0.354814843
## 6968        2        1    0.354748969
## 6878        2        1    0.354739712
## 6897        2        1    0.354569581
## 11745       2        3    0.354396519
## 12280       2        3    0.354182663
## 12186       2        3    0.354039993
## 7673        2        1    0.353281168
```

```
## 7820      2      1    0.353260624
## 6991      2      1    0.353233367
## 7132      2      1    0.353197028
## 12427     2      3    0.353116190
## 7566      2      1    0.353036268
## 6920      2      1    0.353026795
## 6724      2      1    0.353018213
## 11991     2      3    0.352981134
## 12229     2      3    0.352883419
## 13216     2      3    0.352880318
## 11882     2      3    0.352873237
## 13006     2      3    0.352673161
## 11815     2      3    0.352589175
## 12244     2      3    0.352444692
## 11870     2      3    0.352332525
## 13217     2      3    0.352311789
## 11791     2      3    0.352294400
## 12228     2      3    0.352282471
## 11869     2      3    0.351437826
## 11750     2      3    0.351347570
## 12494     2      3    0.351312577
## 11966     2      3    0.351289052
## 11975     2      3    0.351255436
## 19300     2      3    0.351252952
## 15958     2      3    0.351056277
## 8261      2      1    0.351006411
## 11731     2      1    0.350905725
## 12141     2      3    0.350892756
## 12491     2      3    0.350203489
## 8693      2      1    0.349527209
## 11932     2      3    0.349490411
## 11872     2      3    0.349437191
## 12425     2      3    0.349426944
## 11113     2      1    0.349090795
## 12429     2      3    0.348973575
## 12382     2      3    0.348959870
## 6734      2      1    0.348914613
## 6788      2      1    0.348827144
## 11873     2      3    0.348774426
## 7015      2      1    0.348716921
## 7818      2      1    0.348716921
## 11730     2      1    0.348716921
## 19301     2      3    0.348562999
## 6797      2      1    0.348523824
## 7415      2      1    0.348467642
## 6713      2      1    0.348429770
## 9320      2      1    0.348401188
## 12225     2      3    0.348347939
## 7043      2      1    0.348298523
## 12140     2      3    0.347216067
## 12196     2      3    0.346960699
## 14559     2      3    0.346717342
## 11748     2      3    0.346328983
## 11931     2      3    0.346154259
```

```
## 11799      2          3   0.346147530
## 7210       2          1   0.345898425
## 6786       2          1   0.345858738
## 7822       2          1   0.345857227
## 10925      2          1   0.345729399
## 7111       2          1   0.345695982
## 7872       2          1   0.345635852
## 6887       2          1   0.345417377
## 11596      2          3   0.345325336
## 7046       2          1   0.345290977
## 7764       2          1   0.344611449
## 6795       2          1   0.344578177
## 11880      2          3   0.344196576
## 12291      2          3   0.343449736
## 11909      2          3   0.343400772
## 7159       2          1   0.342897983
## 19299      2          3   0.342872561
## 11790      2          3   0.342669037
## 13266      2          3   0.342595845
## 8259       2          1   0.342547161
## 7123       2          1   0.342477767
## 12111      2          3   0.341519715
## 11749      2          3   0.341410109
## 12430      2          3   0.341388183
## 12352      2          3   0.341360160
## 11874      2          3   0.341231974
## 12431      2          3   0.341209825
## 11868      2          3   0.340761320
## 12187      2          3   0.340713959
## 7006       2          1   0.340686766
## 12271      2          3   0.340555376
## 12483      2          3   0.340498313
## 12544      2          3   0.340476705
## 11729      2          3   0.340336898
## 12180      2          3   0.339863255
## 7338       2          1   0.339774747
## 19298      2          3   0.339764078
## 6925       2          1   0.339701552
## 7177       2          1   0.339653699
## 6732       2          1   0.339320628
## 6787       2          1   0.339297177
## 7821       2          1   0.339190678
## 7176       2          1   0.339116294
## 12424      2          3   0.337905939
## 12428      2          3   0.337794575
## 12232      2          3   0.337121367
## 6735       2          1   0.336288879
## 7887       2          1   0.336288879
## 7819       2          1   0.336158912
## 7825       2          1   0.336005682
## 7005       2          1   0.335928704
## 7839       2          1   0.335442575
## 7672       2          1   0.335289436
## 11853      2          3   0.335160036
```

```
## 7377       2          1   0.335132799
## 7884       2          1   0.335073704
## 7514       2          1   0.335031991
## 7912       2          1   0.335012422
## 7841       2          1   0.334913347
## 11756      2          3   0.334772646
## 9345       2          1   0.334721755
## 6703       2          1   0.334528690
## 7312       2          1   0.334397135
## 6885       2          1   0.334340361
## 11972      2          3   0.333697918
## 6697       2          1   0.333392052
## 7013       2          1   0.333362426
## 8388       2          1   0.333156670
## 12526      2          3   0.333094693
## 11803      2          3   0.333079468
## 8391       2          1   0.333077505
## 12177      2          3   0.333051832
## 12192      2          3   0.332956951
## 15026      2          3   0.332930655
## 12356      2          3   0.332872953
## 8386       2          1   0.332871743
## 11876      2          3   0.332769566
## 12383      2          3   0.332733609
## 12409      2          3   0.332653681
## 6966       2          1   0.332577896
## 6801       2          1   0.332566988
## 11807      2          3   0.332531730
## 14561      2          3   0.332478089
## 6803       2          1   0.332466985
## 7846       2          1   0.332441132
## 7112       2          1   0.332211099
## 7513       2          1   0.332197696
## 7823       2          1   0.332113231
## 6730       2          1   0.332028250
## 12411      2          3   0.332004166
## 9319       2          1   0.331997407
## 13372      2          3   0.331973726
## 16214      2          3   0.331956688
## 12121      2          3   0.331944977
## 6883       2          1   0.331938286
## 11936      2          3   0.331927744
## 19505      2          3   0.331894935
## 6647       2          1   0.331883116
## 7840       2          1   0.331796844
## 6884       2          1   0.331791160
## 17013      2          3   0.331769542
## 11798      2          3   0.331763324
## 12233      2          3   0.331704526
## 7097       2          1   0.331695816
## 11992      2          3   0.331554560
## 6756       2          1   0.331519226
## 12528      2          3   0.331464705
## 16159      2          3   0.331196773
```

```
## 12123      2        3   0.331140744
## 16160      2        3   0.331071999
## 16163      2        3   0.331009291
## 11805      2        3   0.330885864
## 12281      2        3   0.330797057
## 13156      2        3   0.330759585
## 19302      2        3   0.330678102
## 6858       2        1   0.330331490
## 6859       2        1   0.330309214
## 6696       2        1   0.330130216
## 7107       2        1   0.330121962
## 13088      2        3   0.330026051
## 8392       2        1   0.330019939
## 6872       2        1   0.330010126
## 7109       2        1   0.329816120
## 12136      2        3   0.329577903
## 13027      2        3   0.329570857
## 17923      2        3   0.329554443
## 13371      2        3   0.329413350
## 11988      2        3   0.329379677
## 11934      2        3   0.329308251
## 12413      2        3   0.329271321
## 6973       2        1   0.328285566
## 6699       2        1   0.328274497
## 9346       2        1   0.328157680
## 7842       2        1   0.328129621
## 6886       2        1   0.328128191
## 11806      2        3   0.328082318
## 7674       2        1   0.328058074
## 7845       2        1   0.328010490
## 12179      2        3   0.327932599
## 6729       2        1   0.327925086
## 10924      2        1   0.327895459
## 7250       2        1   0.327841238
## 16162      2        3   0.327781037
## 19507      2        3   0.327759841
## 7044       2        1   0.327045074
## 7882       2        1   0.326078161
## 12495      2        3   0.326062863
## 12546      2        3   0.326048979
## 19415      2        3   0.326010043
## 8394       2        1   0.325928851
## 6644       2        1   0.325910000
## 7376       2        1   0.325868314
## 12357      2        3   0.325749760
## 12080      2        3   0.325726430
## 6698       2        1   0.325661598
## 6903       2        1   0.325618975
## 6757       2        1   0.325506630
## 17925      2        3   0.325451861
## 7337       2        1   0.324725428
## 6796       2        1   0.324398203
## 14560      2        3   0.324218797
## 12460      2        3   0.324034617
```

```
## 12410           2           3   0.323902453
## 12496           2           3   0.323789249
## 13289           2           3   0.323755847
## 17926           2           3   0.323754138
## 10926           2           1   0.323733226
## 6759            2           1   0.323682281
## 12423           2           3   0.323225117
## 11971           2           3   0.323152263
## 12497           2           3   0.321476175
## 8912            2           1   0.321251368
## 12122           2           3   0.320849477
## 8393            2           1   0.320512880
## 6733            2           1   0.320493614
## 6860            2           1   0.320413773
## 8125            2           1   0.320221288
## 7158            2           1   0.320181184
## 6728            2           1   0.320125458
## 12230           2           3   0.319004107
## 19506           2           3   0.318589864
## 12384           2           3   0.317915671
## 11989           2           3   0.317813536
## 12525           2           3   0.317697787
## 11935           2           3   0.317524530
## 7335            2           1   0.317095205
## 7004            2           1   0.317036819
## 6758            2           1   0.316921151
## 12354           2           3   0.315627034
## 11904           2           3   0.315506849
## 12530           2           3   0.315461250
## 11923           2           3   0.314615964
## 12649           2           3   0.314545688
## 7883            2           1   0.314192678
## 8385            2           1   0.314055615
## 7108            2           1   0.313955460
## 6645            2           1   0.313604593
## 12355           2           3   0.312195748
## 12527           2           3   0.312134178
## 13373           2           3   0.312114037
## 11809           2           3   0.311332727
## 16161           2           3   0.311253325
## 6840            2           1   0.311201141
## 7952            2           1   0.311091279
## 12081           2           3   0.311084878
## 7829            2           1   0.311023253
## 6693            2           1   0.311019075
## 7003            2           1   0.310971028
## 6689            2           1   0.310891671
## 7373            2           1   0.310768048
## 6994            2           1   0.310616803
## 7496            2           1   0.310513994
## 6722            2           1   0.310377399
## 17012           2           3   0.310354581
## 6798            2           1   0.310347744
## 10852           2           1   0.310282572
```

```
## 8390        2        1    0.310281905
## 6783        2        1    0.310276036
## 11378       2        1    0.310276036
## 7610        2        1    0.310175192
## 6800        2        1    0.310173751
## 15830       2        3    0.310142776
## 7450        2        1    0.310037820
## 7826        2        1    0.309999599
## 7950        2        1    0.309928594
## 6559        2        1    0.309926827
## 6695        2        1    0.309744183
## 6655        2        1    0.309195205
## 6654        2        1    0.309162463
## 7447        2        1    0.308907592
## 6993        2        1    0.308849097
## 12658       2        3    0.308554262
## 12267       2        3    0.308486115
## 12533       2        3    0.308317679
## 11942       2        3    0.308254779
## 12266       2        3    0.308198807
## 12406       2        3    0.308187719
## 12434       2        3    0.308179456
## 13463       2        3    0.308116332
## 19579       2        3    0.308097061
## 12234       2        3    0.308049951
## 11808       2        3    0.307983315
## 12082       2        3    0.307749668
## 11877       2        3    0.307725570
## 6962        2        1    0.307712565
## 12178       2        3    0.307697019
## 6560        2        1    0.307524722
## 11939       2        3    0.307495133
## 15100       2        3    0.307063942
## 11941       2        3    0.306881528
## 6861        2        1    0.306757583
## 8387        2        1    0.306757583
## 12532       2        3    0.306436560
## 12531       2        3    0.306392186
## 12235       2        3    0.306367542
## 11978       2        3    0.306322406
## 9075        2        1    0.306269048
## 12569       2        3    0.306224746
## 8395        2        1    0.306219764
## 6793        2        1    0.306169339
## 6561        2        1    0.306162909
## 7830        2        1    0.306118965
## 6792        2        1    0.306057476
## 12137       2        3    0.305944313
## 12545       2        3    0.305651428
## 13159       2        3    0.305632970
## 11915       2        3    0.305449959
## 12087       2        3    0.305429088
## 11938       2        3    0.305216382
## 12529       2        3    0.305054410
```

```
## 7522          2          1    0.304367693
## 6712          2          1    0.304234316
## 6694          2          1    0.304197084
## 6955          2          1    0.304115048
## 7074          2          1    0.304040890
## 11804         2          3    0.304006587
## 6516          2          1    0.303930384
## 11979         2          3    0.303567665
## 19580         2          3    0.303559576
## 11980         2          3    0.303535133
## 13158         2          3    0.303292954
## 12236         2          3    0.303103266
## 6773          2          1    0.302869033
## 6646          2          1    0.302521818
## 7336          2          1    0.302231677
## 7951          2          1    0.302117437
## 7170          2          1    0.302116407
## 12498         2          3    0.302059501
## 6902          2          1    0.302016031
## 12153         2          3    0.301762747
## 13157         2          3    0.301730896
## 12534         2          3    0.301565910
## 12441         2          3    0.301270247
## 12543         2          3    0.301147150
## 12120         2          3    0.301057687
## 13026         2          3    0.299845414
## 7827          2          1    0.299839736
## 12134         2          3    0.299564733
## 6653          2          1    0.299544141
## 12568         2          3    0.299522305
## 7374          2          1    0.299501815
## 12405         2          3    0.299461518
## 6619          2          1    0.299460798
## 12279         2          3    0.299441015
## 13160         2          3    0.299313086
## 7523          2          1    0.299253091
## 11925         2          3    0.299134192
## 11937         2          3    0.298951920
## 12124         2          3    0.297469297
## 13374         2          3    0.297256770
## 11933         2          3    0.297245667
## 12245         2          3    0.297161422
## 13028         2          3    0.297019150
## 12278         2          3    0.296947163
## 7449          2          1    0.296839419
## 19578         2          3    0.296815227
## 6558          2          1    0.296732858
## 20007         2          3    0.296729218
## 6711          2          1    0.296488641
## 11940         2          3    0.294786880
## 16376         2          3    0.294701816
## 6557          2          1    0.293846822
## 9076          2          1    0.293830940
## 7448          2          1    0.293826045
```

```
## 6799       2          1   0.293789159
## 6620       2          1   0.293692151
## 11914      2          3   0.291584784
## 19508      2          3   0.291126211
## 6781       2          1   0.290481163
## 8537       2          1   0.290312231
## 12128      2          3   0.288920429
## 11924      2          3   0.288469677
## 7524       2          1   0.287289629
## 7831       2          1   0.287131817
## 7313       2          1   0.286144637
## 6826       2          1   0.285529993
## 7264       2          1   0.285500052
## 11977      2          3   0.285407403
## 6509       2          1   0.285404316
## 7811       2          1   0.285284169
## 6623       2          1   0.285212739
## 7218       2          1   0.285159881
## 6555       2          1   0.285105552
## 6770       2          1   0.285075903
## 7267       2          1   0.284783545
## 7597       2          1   0.284696709
## 11802      2          3   0.284663291
## 6564       2          1   0.284627957
## 11885      2          3   0.284615559
## 6528       2          1   0.284607568
## 12167      2          3   0.284556388
## 7600       2          1   0.284492206
## 17924      2          3   0.284477531
## 7601       2          1   0.284339574
## 6771       2          1   0.284297941
## 6956       2          1   0.283913547
## 7608       2          1   0.283894746
## 7033       2          1   0.283832706
## 7081       2          1   0.283785496
## 7002       2          1   0.283756980
## 6960       2          1   0.283656524
## 6438       2          1   0.283654073
## 6958       2          1   0.283606624
## 7609       2          1   0.283536413
## 7548       2          1   0.283448870
## 7828       2          1   0.283423039
## 7446       2          1   0.283316949
## 6782       2          1   0.283312600
## 6784       2          1   0.283205622
## 12329      2          3   0.282934495
## 12189      2          3   0.282773062
## 19658      2          3   0.282734103
## 7266       2          1   0.282688211
## 16343      2          3   0.282663478
## 12538      2          3   0.282634995
## 16158      2          3   0.282513552
## 12131      2          3   0.282506032
## 6780       2          1   0.282469983
```

```
## 13000      2        3    0.282443830
## 16348      2        3    0.282384266
## 6622       2        1    0.282378456
## 12484      2        3    0.282372207
## 6437       2        1    0.282358474
## 8124       2        1    0.282358372
## 12148      2        3    0.282351212
## 12632      2        3    0.282200498
## 12485      2        3    0.282161818
## 16342      2        3    0.281941421
## 12272      2        3    0.281690073
## 11948      2        3    0.281129029
## 12535      2        3    0.281045037
## 6538       2        1    0.280988788
## 6556       2        1    0.280982889
## 19510      2        3    0.280960170
## 6772       2        1    0.280954342
## 9344       2        1    0.280907106
## 7595       2        1    0.280897940
## 12631      2        3    0.280825038
## 7598       2        1    0.280802831
## 6621       2        1    0.280731261
## 13537      2        3    0.280641017
## 12593      2        3    0.280634527
## 12262      2        3    0.280601870
## 12445      2        3    0.280448433
## 12079      2        3    0.280333737
## 7521       2        1    0.280199689
## 7525       2        1    0.280174392
## 12330      2        3    0.280056146
## 12448      2        3    0.279881639
## 12536      2        3    0.279798758
## 7041       2        1    0.279670824
## 12147      2        3    0.279640274
## 7838       2        1    0.279578006
## 12469      2        3    0.279517008
## 12640      2        3    0.279497415
## 12264      2        3    0.279435877
## 12154      2        3    0.279428140
## 12157      2        3    0.279402157
## 7816       2        1    0.279356487
## 13626      2        3    0.279313422
## 7873       2        1    0.279238204
## 6957       2        1    0.279184604
## 7817       2        1    0.279122900
## 6959       2        1    0.279043145
## 7815       2        1    0.279013310
## 6769       2        1    0.278843330
## 8647       2        1    0.278746041
## 11913      2        3    0.278516681
## 11944      2        3    0.278415359
## 12142      2        3    0.278350597
## 11886      2        3    0.278290641
## 11946      2        3    0.278064546
```

```
## 12465           2        3   0.278009833
## 12539           2        3   0.277784437
## 6964            2        1   0.277326520
## 12152           2        3   0.277283921
## 7263            2        1   0.277214878
## 6692            2        1   0.277166608
## 11943           2        3   0.277145752
## 6656            2        1   0.277140175
## 7837            2        1   0.277109120
## 7565            2        1   0.276898462
## 10053           2        1   0.276806310
## 12393           2        3   0.276550633
## 13627           2        3   0.276374577
## 12268           2        3   0.276129294
## 12436           2        3   0.275968275
## 13629           2        3   0.275906957
## 7812            2        1   0.274745435
## 6846            2        1   0.274727887
## 7265            2        1   0.274725419
## 12437           2        3   0.274711448
## 6612            2        1   0.274633799
## 6954            2        1   0.274630862
## 11945           2        3   0.274616146
## 6683            2        1   0.274608286
## 12540           2        3   0.274556045
## 7874            2        1   0.274548833
## 12380           2        3   0.274521320
## 12158           2        3   0.274325360
## 12366           2        3   0.274185259
## 8389            2        1   0.272992502
## 6963            2        1   0.272293258
## 7375            2        1   0.272269878
## 6690            2        1   0.272202125
## 7813            2        1   0.272202125
## 7836            2        1   0.272132078
## 12537           2        3   0.272103974
## 7814            2        1   0.271894357
## 19657           2        3   0.271800862
## 7209            2        1   0.271753240
## 12626           2        3   0.271681127
## 12274           2        3   0.269790302
## 12407           2        3   0.269617917
## 9343            2        1   0.269569001
## 6613            2        1   0.269443574
## 7599            2        1   0.269401117
## 12126           2        3   0.269334150
## 6845            2        1   0.269280072
## 12326           2        3   0.269230955
## 7875            2        1   0.269213160
## 6691            2        1   0.269205040
## 12156           2        3   0.267304252
## 11976           2        3   0.267195122
## 12246           2        3   0.266904401
## 16344           2        3   0.266454229
```

```
## 7596      2      1   0.266432330
## 16345     2      3   0.266427966
## 7594      2      1   0.266064997
## 12125     2      3   0.264407583
## 12435     2      3   0.264382807
## 6841      2      1   0.264290739
## 14840     2      3   0.264188835
## 13536     2      3   0.263574568
## 12191     2      3   0.263538339
## 12190     2      3   0.263481505
## 12273     2      3   0.263420259
## 13001     2      3   0.263412458
## 12160     2      3   0.263398124
## 11947     2      3   0.263342942
## 12188     2      3   0.263310094
## 16346     2      3   0.263204745
## 6657      2      1   0.263048443
## 7268      2      1   0.262915088
## 19509     2      3   0.262764263
## 12325     2      3   0.261199579
## 10758     2      1   0.260241726
## 6990      2      1   0.260149466
## 11377     2      1   0.260020236
## 12139     2      3   0.259856484
## 6658      2      1   0.259822192
## 7876      2      1   0.259751175
## 7671      2      1   0.259530955
## 7564      2      1   0.259498964
## 6629      2      1   0.259292496
## 7835      2      1   0.258898330
## 8251      2      1   0.258862861
## 6432      2      1   0.258822010
## 6751      2      1   0.258680136
## 7834      2      1   0.258664387
## 6777      2      1   0.258529534
## 7260      2      1   0.258419122
## 7262      2      1   0.258225726
## 7027      2      1   0.258188948
## 12168     2      3   0.258057184
## 6778      2      1   0.258051396
## 6345      2      1   0.258024803
## 6753      2      1   0.257993207
## 12328     2      3   0.257906638
## 8256      2      1   0.257832631
## 13604     2      3   0.257748554
## 10052     2      1   0.257298875
## 6455      2      1   0.257222404
## 12146     2      3   0.256940365
## 16347     2      3   0.256938588
## 13628     2      3   0.256812954
## 12653     2      3   0.256755486
## 12819     2      3   0.256647092
## 8646      2      1   0.256514294
## 6682      2      1   0.256249737
```

```
## 7261        2        1    0.256207463
## 6508        2        1    0.256074898
## 8252        2        1    0.256072897
## 7547        2        1    0.256068416
## 14011       2        1    0.255969317
## 6912        2        1    0.255889968
## 12500       2        3    0.255819124
## 12718       2        3    0.255696052
## 15923       2        3    0.255690733
## 12270       2        3    0.255651557
## 11951       2        3    0.255616531
## 15924       2        3    0.255507732
## 12478       2        3    0.255494694
## 15203       2        3    0.255466778
## 19659       2        3    0.255456243
## 11981       2        3    0.255422712
## 12474       2        3    0.254785137
## 17173       2        3    0.254757248
## 14841       2        3    0.254706937
## 12387       2        3    0.254695120
## 6628        2        1    0.254675999
## 6453        2        1    0.254660063
## 8250        2        1    0.254617523
## 12145       2        3    0.254582894
## 7437        2        1    0.254526729
## 12796       2        3    0.254495722
## 12361       2        3    0.254386527
## 13721       2        3    0.254369364
## 13625       2        3    0.254346788
## 12782       2        3    0.254013550
## 12472       2        3    0.253965304
## 12332       2        3    0.253904991
## 12331       2        3    0.253849558
## 12547       2        3    0.253756938
## 12155       2        3    0.253339978
## 12616       2        3    0.253337584
## 13029       2        3    0.253336824
## 12127       2        3    0.253286058
## 12263       2        3    0.253141514
## 6776        2        1    0.253045177
## 7217        2        1    0.253040644
## 12398       2        3    0.253010998
## 7445        2        1    0.252997793
## 12475       2        3    0.252949482
## 6917        2        1    0.252920257
## 6727        2        1    0.252902997
## 12376       2        3    0.252794133
## 12502       2        3    0.252765884
## 6497        2        1    0.252748272
## 12282       2        3    0.252713419
## 12635       2        3    0.252607315
## 12333       2        3    0.252564703
## 12499       2        3    0.251825649
## 12385       2        3    0.251558306
```

```
## 12786        2        3   0.251362225
## 12501        2        3   0.251297241
## 12159        2        3   0.251181784
## 12327        2        3   0.251085307
## 12542        2        3   0.250998045
## 8249         2        1   0.250983916
## 7216         2        1   0.250865026
## 8253         2        1   0.250803335
## 12480        2        3   0.250072001
## 20533        2        3   0.249388836
## 6445         2        1   0.248985907
## 14009        2        1   0.248939414
## 6457         2        1   0.248915899
## 7026         2        1   0.248857116
## 6931         2        1   0.248837146
## 6454         2        1   0.248761418
## 6565         2        1   0.248753928
## 14010        2        1   0.248634405
## 8258         2        1   0.248558238
## 8255         2        1   0.248514423
## 12287        2        3   0.247682397
## 6961         2        1   0.247649082
## 12799        2        3   0.247646314
## 11990        2        3   0.247498495
## 12169        2        3   0.247471455
## 6721         2        1   0.246514246
## 6707         2        1   0.246275485
## 6507         2        1   0.246252762
## 14008        2        1   0.246234217
## 6752         2        1   0.246148652
## 12736        2        3   0.246060986
## 12275        2        3   0.245775519
## 12473        2        3   0.245775519
## 13724        2        3   0.245762824
## 12386        2        3   0.245540504
## 18660        2        3   0.245446043
## 12541        2        3   0.243979366
## 6726         2        1   0.243924968
## 6435         2        1   0.243788923
## 12476        2        3   0.243780745
## 6725         2        1   0.243767460
## 6930         2        1   0.243676703
## 6373         2        1   0.243618788
## 11950        2        3   0.243310900
## 12269        2        3   0.243115734
## 12286        2        3   0.243048203
## 6844         2        1   0.241805267
## 6755         2        1   0.240959091
## 12481        2        3   0.238840649
## 6512         2        1   0.237975089
## 8775         2        1   0.237729281
## 6913         2        1   0.237687413
## 15859        2        3   0.237663827
## 12470        2        3   0.237576366
```

```
## 12365        2        3   0.236290284
## 6775         2        1   0.235022372
## 12636        2        3   0.234891137
## 12634        2        3   0.234832479
## 13002        2        3   0.234803167
## 6456         2        1   0.234768096
## 8257         2        1   0.234669401
## 12397        2        3   0.233053962
## 20913        2        3   0.232876688
## 19660        2        3   0.232681771
## 8247         2        1   0.231956275
## 7032         2        1   0.231927078
## 6325         2        1   0.231284524
## 7215         2        1   0.231255578
## 7833         2        1   0.231199186
## 6764         2        1   0.231185431
## 6458         2        1   0.231089950
## 12027        2        1   0.230930888
## 12031        2        1   0.230879887
## 8241         2        1   0.230845018
## 6988         2        1   0.230839170
## 6929         2        1   0.230832196
## 6444         2        1   0.230827833
## 8244         2        1   0.230788117
## 6450         2        1   0.230763926
## 6232         2        1   0.230753667
## 6182         2        1   0.230724834
## 12029        2        1   0.230673813
## 6166         2        1   0.230536255
## 12025        2        1   0.230430133
## 6554         2        1   0.230411666
## 8243         2        1   0.230276103
## 6451         2        1   0.230230375
## 12023        2        1   0.230218086
## 8245         2        1   0.230166290
## 12024        2        1   0.230128434
## 6779         2        1   0.230018731
## 8242         2        1   0.229880356
## 12471        2        3   0.229818267
## 6552         2        1   0.229706864
## 12479        2        3   0.229668157
## 12637        2        3   0.229609167
## 6550         2        1   0.229602640
## 6167         2        1   0.229282512
## 6566         2        1   0.228572298
## 6506         2        1   0.228412641
## 8248         2        1   0.228402804
## 6768         2        1   0.228337637
## 6346         2        1   0.228252098
## 6986         2        1   0.228163661
## 6443         2        1   0.228162299
## 20566        2        1   0.228097856
## 12402        2        3   0.227345357
## 6563         2        1   0.227268398
```

```
## 12459       2          3   0.227258694
## 6551        2          1   0.227128650
## 12549       2          3   0.227113146
## 17688       2          3   0.227098724
## 7832        2          1   0.227081660
## 6537        2          1   0.227054808
## 12144       2          3   0.227008793
## 7480        2          1   0.226983705
## 12170       2          3   0.226948006
## 6553        2          1   0.226916783
## 6505        2          1   0.226904419
## 12403       2          3   0.226856489
## 6765        2          1   0.226845448
## 12026       2          1   0.226717492
## 17685       2          3   0.226654116
## 12162       2          3   0.226614582
## 17690       2          3   0.226423565
## 13722       2          3   0.226390312
## 13590       2          3   0.226251274
## 12548       2          3   0.226040430
## 12621       2          3   0.225890160
## 12163       2          3   0.225701047
## 12911       2          3   0.225654061
## 8246        2          1   0.225588362
## 6614        2          1   0.225440550
## 12143       2          3   0.225155280
## 8254        2          1   0.224985523
## 12362       2          3   0.224933232
## 12363       2          3   0.224896077
## 12647       2          3   0.224599780
## 12644       2          3   0.224551874
## 17692       2          3   0.224044128
## 12800       2          3   0.223947070
## 6984        2          1   0.223820160
## 6165        2          1   0.223749776
## 12388       2          3   0.223629380
## 12783       2          3   0.223594762
## 12643       2          3   0.223524035
## 17684       2          3   0.223420610
## 12172       2          3   0.223419769
## 13723       2          3   0.223251666
## 12165       2          3   0.222368234
## 17687       2          3   0.222274534
## 6863        2          1   0.221912347
## 6627        2          1   0.221815172
## 12462       2          3   0.221810090
## 6375        2          1   0.221804785
## 12833       2          3   0.221700530
## 6989        2          1   0.221638388
## 6754        2          1   0.221578098
## 12834       2          3   0.220716312
## 12468       2          3   0.220651509
## 12367       2          3   0.220582182
## 17686       2          3   0.220154316
```

```
## 12646       2        3   0.220116048
## 6825        2        1   0.219760853
## 12633       2        3   0.219715139
## 6985        2        1   0.219673281
## 6748        2        1   0.219629624
## 6848        2        1   0.219628267
## 7025        2        1   0.219608277
## 6750        2        1   0.219545525
## 6452        2        1   0.219531054
## 12695       2        3   0.218229869
## 12161       2        3   0.218224203
## 12623       2        3   0.218129399
## 12030       2        1   0.217110998
## 7481        2        1   0.217037069
## 12164       2        3   0.216803669
## 16351       2        3   0.216654031
## 12853       2        3   0.216558393
## 12648       2        3   0.215797632
## 6987        2        1   0.214669255
## 7181        2        1   0.214656176
## 6183        2        1   0.214576519
## 6374        2        1   0.214510412
## 15204       2        3   0.214241160
## 12645       2        3   0.214226205
## 16350       2        3   0.213712094
## 12173       2        3   0.213659203
## 12855       2        3   0.213650353
## 12856       2        3   0.213626113
## 11949       2        3   0.212752683
## 6536        2        1   0.212030078
## 21073       2        3   0.212013016
## 12378       2        3   0.211979348
## 17689       2        3   0.211960598
## 12642       2        3   0.211905203
## 8454        2        1   0.208881862
## 16349       2        3   0.208459121
## 12364       2        3   0.206659993
## 6705        2        1   0.206222174
## 6749        2        1   0.206019020
## 8240        2        1   0.206018081
## 7129        2        1   0.205968470
## 6871        2        1   0.205781830
## 12580       2        3   0.205660709
## 12638       2        3   0.205600294
## 13874       2        3   0.205559975
## 12432       2        3   0.203676933
## 8239        2        1   0.203217321
## 12028       2        1   0.203210359
## 12854       2        3   0.202721332
## 12570       2        3   0.202581781
## 12379       2        3   0.202503477
## 6546        2        1   0.201972934
## 6681        2        1   0.201972934
## 6231        2        1   0.201962211
```

```
## 6624       2       1   0.201942383
## 8162       2       1   0.201881868
## 8081       2       1   0.201804409
## 12021      2       1   0.201804409
## 6747       2       1   0.201743737
## 12013      2       1   0.201701431
## 6870       2       1   0.201573255
## 6236       2       1   0.201444468
## 6862       2       1   0.201332759
## 12020      2       1   0.201316720
## 9685       2       1   0.201226026
## 6702       2       1   0.201164607
## 6164       2       1   0.200919867
## 12171      2       3   0.200859332
## 12622      2       3   0.200753920
## 6935       2       1   0.200592402
## 9684       2       1   0.200459409
## 8085       2       1   0.200436454
## 12014      2       1   0.199609809
## 6235       2       1   0.199581895
## 12019      2       1   0.199492543
## 8635       2       1   0.199473996
## 6279       2       1   0.199463614
## 12017      2       1   0.198473784
## 6562       2       1   0.198467274
## 6504       2       1   0.198444880
## 6548       2       1   0.198444065
## 12010      2       1   0.198427230
## 6869       2       1   0.198395512
## 8163       2       1   0.198217856
## 12022      2       1   0.198212648
## 7193       2       1   0.198183639
## 6376       2       1   0.198110257
## 6745       2       1   0.198107763
## 12698      2       3   0.198029242
## 12729      2       3   0.197928046
## 12290      2       3   0.197868254
## 14798      2       3   0.197776609
## 12377      2       3   0.197759868
## 12582      2       3   0.197744498
## 15205      2       3   0.197668026
## 12694      2       3   0.197652048
## 13938      2       3   0.197610512
## 12913      2       3   0.197487194
## 17266      2       3   0.197485011
## 12961      2       3   0.197451953
## 13032      2       3   0.197129222
## 17507      2       3   0.196961570
## 6549       2       1   0.196912349
## 12011      2       1   0.196842131
## 8083       2       1   0.196813999
## 12456      2       3   0.196813677
## 6839       2       1   0.196806009
## 12650      2       3   0.196228495
```

```
## 12733     2          3   0.196222414
## 17806     2          3   0.195676452
## 12696     2          3   0.195658805
## 12720     2          3   0.195654697
## 12735     2          3   0.195634171
## 12486     2          3   0.195528820
## 12016     2          1   0.195432570
## 13221     2          3   0.195388003
## 12731     2          3   0.195356083
## 16573     2          3   0.195309599
## 12012     2          1   0.195303547
## 12697     2          3   0.195288995
## 13042     2          3   0.194874864
## 12404     2          3   0.194718576
## 14071     2          3   0.194530171
## 12438     2          3   0.194234915
## 12959     2          3   0.194173252
## 6233      2          1   0.193638709
## 6847      2          1   0.193616012
## 12018     2          1   0.193536245
## 6530      2          1   0.193533447
## 6354      2          1   0.193489632
## 16574     2          3   0.193482969
## 8082      2          1   0.193342860
## 12015     2          1   0.193213668
## 12625     2          3   0.193152372
## 12408     2          3   0.193096789
## 12693     2          3   0.193033150
## 12801     2          3   0.193027305
## 12581     2          3   0.192923079
## 13041     2          3   0.192904324
## 12440     2          3   0.192792219
## 16575     2          3   0.192779893
## 12664     2          3   0.191850743
## 17809     2          3   0.191788574
## 6324      2          1   0.191761004
## 6648      2          1   0.191761004
## 8086      2          1   0.191651529
## 17691     2          3   0.191648024
## 8078      2          1   0.191600234
## 6652      2          1   0.191567167
## 9683      2          1   0.191485433
## 8079      2          1   0.191418451
## 6323      2          1   0.191395739
## 12288     2          3   0.191346776
## 12776     2          3   0.190326634
## 15862     2          3   0.190136124
## 17807     2          3   0.189890164
## 12457     2          3   0.189695308
## 8080      2          1   0.189462440
## 6939      2          1   0.189408196
## 17804     2          3   0.188352525
## 13933     2          3   0.188184473
## 12728     2          3   0.188142431
```

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## 12963          2          3    0.187776824
## 15861          2          3    0.187715579
## 21141          2          3    0.187550719
## 13936          2          3    0.187359353
## 6280           2          1    0.187203712
## 8084           2          1    0.187106329
## 6237           2          1    0.187097065
## 6626           2          1    0.187003709
## 7214           2          1    0.186847537
## 12912          2          3    0.185561464
## 12847          2          3    0.185448001
## 6180           2          1    0.184620578
## 6547           2          1    0.184539241
## 17808          2          3    0.184336738
## 12732          2          3    0.184132353
## 12734          2          3    0.184053771
## 12389          2          3    0.184012316
## 12458          2          3    0.183476366
## 12835          2          3    0.183372308
## 17805          2          3    0.183350285
## 17803          2          3    0.183342439
## 12455          2          3    0.183207760
## 6181           2          1    0.182065403
## 13624          2          3    0.182045741
## 8238           2          1    0.181908720
## 12454          2          3    0.180938124
## 6353           2          1    0.179415914
## 12482          2          3    0.179408687
## 9342           2          1    0.179396654
## 12699          2          3    0.179383125
## 12727          2          3    0.179360716
## 13003          2          3    0.179344934
## 12719          2          3    0.179273769
## 9781           2          1    0.179142940
## 12700          2          3    0.178542740
## 12962          2          3    0.176911152
## 16377          2          3    0.176900428
## 8297           2          1    0.176764622
## 12960          2          3    0.176752847
## 15860          2          3    0.175804342
## 12624          2          3    0.175782530
## 6625           2          1    0.173972951
## 8161           2          1    0.173852245
## 11820          2          1    0.171525406
## 6331           2          1    0.171471574
## 7213           2          1    0.171419919
## 11823          2          1    0.171390298
## 6351           2          1    0.171367460
## 13535          2          1    0.171356839
## 7949           2          1    0.171219624
## 6330           2          1    0.171188092
## 7077           2          1    0.171163249
## 6868           2          1    0.171146851
## 11829          2          1    0.171083335
```

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## 7078        2        1    0.171078994
## 6339        2        1    0.171007053
## 6186        2        1    0.170998972
## 8072        2        1    0.170982373
## 6197        2        1    0.170723713
## 8074        2        1    0.170642561
## 6185        2        1    0.170632897
## 11830       2        1    0.170608906
## 11826       2        1    0.170578848
## 8075        2        1    0.170507223
## 6320        2        1    0.170320124
## 9341        2        1    0.170320124
## 6322        2        1    0.170112862
## 6744        2        1    0.170085596
## 6824        2        1    0.170056762
## 6867        2        1    0.170051196
## 6837        2        1    0.170010854
## 7106        2        1    0.169835104
## 11831       2        1    0.169284339
## 6838        2        1    0.169231114
## 6350        2        1    0.169126248
## 6344        2        1    0.169103651
## 6198        2        1    0.169012969
## 12289       2        3    0.168704119
## 9340        2        1    0.167029906
## 8123        2        1    0.167014396
## 8071        2        1    0.167001331
## 11821       2        1    0.166970753
## 17972       2        3    0.166955984
## 12751       2        3    0.166890009
## 6616        2        1    0.166878820
## 17971       2        3    0.166865718
## 12852       2        3    0.166858296
## 8505        2        1    0.166796598
## 12477       2        3    0.166767543
## 12953       2        3    0.166664077
## 12721       2        3    0.166583614
## 12902       2        3    0.166520606
## 12599       2        3    0.166518288
## 12628       2        3    0.166304940
## 12601       2        3    0.166281039
## 12809       2        3    0.166280883
## 12604       2        3    0.166231250
## 12792       2        3    0.166193802
## 12849       2        3    0.165846115
## 19180       2        3    0.165786849
## 6938        2        1    0.165614995
## 6321        2        1    0.165610364
## 6700        2        1    0.165582069
## 8076        2        1    0.165547260
## 12797       2        3    0.165495058
## 6214        2        1    0.165480906
## 8504        2        1    0.165414878
## 12619       2        3    0.165180002
```

```
## 12605          2          3   0.165143164
## 12439          2          3   0.165121216
## 12954          2          3   0.164936231
## 12737          2          3   0.164772626
## 12858          2          3   0.164636748
## 12446          2          3   0.164552713
## 12564          2          3   0.164099667
## 6349           2          1   0.163970845
## 12810          2          3   0.163940407
## 12447          2          3   0.163761067
## 8068           2          1   0.163692657
## 12399          2          3   0.162609991
## 6352           2          1   0.162367691
## 6649           2          1   0.162347233
## 11828          2          1   0.162259868
## 6615           2          1   0.162246686
## 8069           2          1   0.162183967
## 6701           2          1   0.162182571
## 11825          2          1   0.162168323
## 8073           2          1   0.162044685
## 11827          2          1   0.162042647
## 12956          2          3   0.161981651
## 12955          2          3   0.161869094
## 16867          2          3   0.161477821
## 15863          2          3   0.161323578
## 13913          2          3   0.161213701
## 12848          2          3   0.161175826
## 12602          2          3   0.161172915
## 6348           2          1   0.160523023
## 12808          2          3   0.160413894
## 6363           2          1   0.160362126
## 7061           2          1   0.160354838
## 12401          2          3   0.160297641
## 12850          2          3   0.160285226
## 11832          2          1   0.160251323
## 13937          2          3   0.160216827
## 12571          2          3   0.160036876
## 12603          2          3   0.159895606
## 12392          2          3   0.159858499
## 12958          2          3   0.159838721
## 12791          2          3   0.159722230
## 17970          2          3   0.159638861
## 12412          2          3   0.158715175
## 6162           2          1   0.158570347
## 12391          2          3   0.158538009
## 13538          2          3   0.158507578
## 8077           2          1   0.158445426
## 6347           2          1   0.158414607
## 6230           2          1   0.158384243
## 6524           2          1   0.158289254
## 6442           2          1   0.158181908
## 7538           2          1   0.158180005
## 15301          2          3   0.158171390
## 16868          2          3   0.158076001
```

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## 17969       2         3   0.157006620
## 12618       2         3   0.156982030
## 12561       2         3   0.156339892
## 12600       2         3   0.156291694
## 7060        2         1   0.156205719
## 12789       2         3   0.156173718
## 11833       2         1   0.156155134
## 12768       2         3   0.154393817
## 12851       2         3   0.154288347
## 16869       2         3   0.154261879
## 11824       2         1   0.154025645
## 8070        2         1   0.154022383
## 6229        2         1   0.153986715
## 11822       2         1   0.153948998
## 6746        2         1   0.153804775
## 12627       2         3   0.152989942
## 12916       2         3   0.152966861
## 12722       2         3   0.152300851
## 7537        2         1   0.151693417
## 12562       2         3   0.150950717
## 17968       2         3   0.149960154
## 12563       2         3   0.148879899
## 16866       2         3   0.148838934
## 12859       2         3   0.147893031
## 13914       2         3   0.147819057
## 12400       2         3   0.147689460
## 12957       2         3   0.146523355
## 12750       2         3   0.146438308
## 6163        2         1   0.144327061
## 12790       2         3   0.144233069
## 16461       2         3   0.144190004
## 12730       2         3   0.143542080
## 6179        2         1   0.139514570
## 6283        2         1   0.139444449
## 6113        2         1   0.139434498
## 6114        2         1   0.139413074
## 11763       2         1   0.139372754
## 7945        2         1   0.139330814
## 6326        2         1   0.139260310
## 6311        2         1   0.139259922
## 6361        2         1   0.139163240
## 10946       2         1   0.139163102
## 6447        2         1   0.139084485
## 7947        2         1   0.138884862
## 6148        2         1   0.138856620
## 11770       2         1   0.138819442
## 11772       2         1   0.138727476
## 6192        2         1   0.138415434
## 7940        2         1   0.138383334
## 6360        2         1   0.138265030
## 7943        2         1   0.138253656
## 6243        2         1   0.137695938
## 11769       2         1   0.137598529
## 6149        2         1   0.137577936
```

```
## 6901       2       1    0.137568383
## 6184       2       1    0.137550696
## 6372       2       1    0.137488252
## 6193       2       1    0.136762458
## 7212       2       1    0.136726942
## 11762      2       1    0.136705337
## 6446       2       1    0.136619419
## 7942       2       1    0.136593047
## 11765      2       1    0.135641463
## 6112       2       1    0.135578320
## 6118       2       1    0.135561720
## 7944       2       1    0.135543755
## 8849       2       1    0.134630533
## 7946       2       1    0.134584096
## 12566      2       3    0.134580512
## 12567      2       3    0.134530200
## 12903      2       3    0.134471657
## 12578      2       3    0.134450442
## 12609      2       3    0.134440526
## 12641      2       3    0.134437758
## 12691      2       3    0.134430206
## 12559      2       3    0.134418887
## 11759      2       1    0.134393079
## 9693       2       1    0.134360910
## 11768      2       1    0.134351166
## 18047      2       3    0.134320710
## 13089      2       3    0.134269574
## 19181      2       3    0.134225382
## 12560      2       3    0.134036789
## 12842      2       3    0.133914969
## 12597      2       3    0.133754713
## 13092      2       3    0.133687763
## 12607      2       3    0.133668272
## 12610      2       3    0.133545476
## 12608      2       3    0.133539586
## 12872      2       3    0.133440018
## 6282       2       1    0.133326119
## 6111       2       1    0.133311613
## 12964      2       3    0.133270764
## 14220      2       3    0.133244998
## 6234       2       1    0.133228881
## 12613      2       3    0.133219915
## 6684       2       1    0.133186073
## 6343       2       1    0.133131583
## 12724      2       3    0.132919423
## 12701      2       3    0.132667869
## 16220      2       3    0.132353783
## 12620      2       3    0.132285461
## 18214      2       3    0.132263138
## 12965      2       3    0.132153320
## 12871      2       3    0.132064761
## 12918      2       3    0.131937342
## 19182      2       3    0.131937342
## 6685       2       1    0.131882534
```

```
## 12558    2    3   0.131840348
## 6873     2    1   0.131807793
## 6228     2    1   0.131780461
## 11766    2    1   0.131730935
## 6823     2    1   0.131701448
## 19952    2    1   0.131580316
## 18212    2    3   0.131426280
## 12775    2    3   0.131374930
## 12712    2    3   0.131339752
## 12785    2    3   0.131015855
## 12611    2    3   0.130927242
## 16799    2    3   0.130924301
## 12917    2    3   0.130870088
## 13093    2    3   0.130838705
## 18044    2    3   0.130835950
## 16798    2    3   0.130391664
## 18046    2    3   0.130291961
## 6328     2    1   0.130249017
## 6630     2    1   0.130243034
## 6119     2    1   0.130188026
## 11764    2    1   0.130171655
## 6876     2    1   0.130062896
## 12652    2    3   0.129805317
## 18215    2    3   0.129249493
## 13091    2    3   0.128752772
## 6686     2    1   0.128669376
## 18048    2    3   0.128652603
## 18045    2    3   0.128629059
## 18213    2    3   0.128561422
## 6874     2    1   0.128559354
## 6117     2    1   0.128545770
## 14055    2    3   0.128527182
## 7889     2    1   0.128482938
## 11767    2    1   0.128474407
## 6836     2    1   0.128473163
## 11761    2    1   0.128471859
## 11760    2    1   0.128459468
## 6329     2    1   0.128421757
## 6327     2    1   0.128398986
## 6900     2    1   0.128372089
## 12802    2    3   0.127758928
## 12966    2    3   0.127281719
## 12723    2    3   0.127197937
## 6227     2    1   0.126584989
## 12579    2    3   0.125744820
## 6362     2    1   0.124802054
## 12803    2    3   0.124784945
## 6877     2    1   0.124743317
## 18216    2    3   0.124166384
## 12565    2    3   0.123148974
## 11771    2    1   0.122809098
## 12760    2    3   0.122463429
## 12769    2    3   0.121520613
## 12614    2    3   0.121468542
```

```
## 13090      2      3   0.121440101
## 12692      2      3   0.120500307
## 12615      2      3   0.119656023
## 12606      2      3   0.118850163
## 12612      2      3   0.118849565
## 13067      2      3   0.118690762
## 12986      2      3   0.118681487
## 7948       2      1   0.118671598
## 12841      2      3   0.118631799
## 6767       2      1   0.116675052
## 12651      2      3   0.115765759
## 7941       2      1   0.114539532
## 12713      2      3   0.111802546
## 12759      2      3   0.109791332
## 6060       2      1   0.106024580
## 6822       2      1   0.106005792
## 6638       2      1   0.106005327
## 6147       2      1   0.105985588
## 6899       2      1   0.105973059
## 6982       2      1   0.105957138
## 7512       2      1   0.105954399
## 6358       2      1   0.105942592
## 6371       2      1   0.105938656
## 6370       2      1   0.105915793
## 6069       2      1   0.105891049
## 7406       2      1   0.105881433
## 6496       2      1   0.105845263
## 6515       2      1   0.105837509
## 6242       2      1   0.105802656
## 6047       2      1   0.105764363
## 6068       2      1   0.105595204
## 6356       2      1   0.105520038
## 6152       2      1   0.105297722
## 11687      2      1   0.105141408
## 6843       2      1   0.105135576
## 11688      2      1   0.105092052
## 7535       2      1   0.105055824
## 7588       2      1   0.104638378
## 7508       2      1   0.104574575
## 6436       2      1   0.104521369
## 6120       2      1   0.104497760
## 19555      2      1   0.104453565
## 6332       2      1   0.104095377
## 11684      2      1   0.103972750
## 7509       2      1   0.103933768
## 6058       2      1   0.103900355
## 11685      2      1   0.103872013
## 6057       2      1   0.103761775
## 6834       2      1   0.103750178
## 7593       2      1   0.103717618
## 6284       2      1   0.103108660
## 6637       2      1   0.103106732
## 6241       2      1   0.102996289
## 8848       2      1   0.102995296
```

```
## 6499        2        1    0.102995007
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## 6367        2        1    0.102931395
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## 6357        2        1    0.102148083
## 6377        2        1    0.102040135
## 6766        2        1    0.101980245
## 7536        2        1    0.101977486
## 6983        2        1    0.101116051
## 6981        2        1    0.101094784
## 6434        2        1    0.101033986
## 7592        2        1    0.100872928
## 12661       2        3    0.100723601
## 12744       2        3    0.100716229
## 12780       2        3    0.100699125
## 12662       2        3    0.100686978
## 16221       2        3    0.100660990
## 13099       2        3    0.100632593
## 12590       2        3    0.100620931
## 12598       2        3    0.100618587
## 12747       2        3    0.100601812
## 12715       2        3    0.100439523
## 13004       2        3    0.100416561
## 12920       2        3    0.100396659
## 12804       2        3    0.100192482
## 12716       2        3    0.100148444
## 13113       2        3    0.100144415
## 12988       2        3    0.100099822
## 13068       2        3    0.100081992
## 12779       2        3    0.100057860
## 12806       2        3    0.100043571
## 6498        2        1    0.099996497
## 9226        2        1    0.099996497
## 8847        2        1    0.099927953
## 11624       2        1    0.099907455
## 7589        2        1    0.099888058
## 11625       2        1    0.099846674
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## 13097       2        3    0.099764849
## 6369        2        1    0.099759127
## 12665       2        3    0.099669360
## 12771       2        3    0.099649569
## 18227       2        3    0.099622069
## 18221       2        3    0.099586080
## 13094       2        3    0.099353149
## 12745       2        3    0.099333343
## 12793       2        3    0.099313249
## 12924       2        3    0.099030807
## 13202       2        3    0.098981943
## 12746       2        3    0.098779628
## 18219       2        3    0.098679315
## 12777       2        3    0.098667439
## 7591        2        1    0.098639229
```

```
## 18223       2          3    0.098612626
## 12666       2          3    0.098607803
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## 12572       2          3    0.098271821
## 14554       2          3    0.098237079
## 12781       2          3    0.097950066
## 12910       2          3    0.097793737
## 12987       2          3    0.097714527
## 12778       2          3    0.097707875
## 13100       2          3    0.097707875
## 18228       2          3    0.097551578
## 7590        2          1    0.097409500
## 9164        2          1    0.097287630
## 12919       2          3    0.097148660
## 12589       2          3    0.096766893
## 13702       2          3    0.096596566
## 18225       2          3    0.096526034
## 13098       2          3    0.096064607
## 12925       2          3    0.096042232
## 11689       2          1    0.096034979
## 12805       2          3    0.096026769
## 7180        2          1    0.096020187
## 6285        2          1    0.095981902
## 6355        2          1    0.095979245
## 18222       2          3    0.095952068
## 18217       2          3    0.095945438
## 7510        2          1    0.095931165
## 9166        2          1    0.095908326
## 13539       2          3    0.095899543
## 6226        2          1    0.095882872
## 6095        2          1    0.095671865
## 12770       2          3    0.094608768
## 13005       2          3    0.094554516
## 11686       2          1    0.094538960
## 12758       2          3    0.094534554
## 6835        2          1    0.094518170
## 7511        2          1    0.094452687
## 6059        2          1    0.094206329
## 18224       2          3    0.093895529
## 12927       2          3    0.093743366
## 14056       2          3    0.093458386
## 16222       2          3    0.092709145
## 6368        2          1    0.092694353
## 12714       2          3    0.092663078
## 12909       2          3    0.092002483
## 13112       2          3    0.092000299
## 12717       2          3    0.091358038
## 10945       2          1    0.091148484
## 12923       2          3    0.090662636
## 12926       2          3    0.090615522
## 12921       2          3    0.090595084
## 12617       2          3    0.090018292
## 18220       2          3    0.089996650
```

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## 12702      2        3  0.087848630
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## 9165       2        1  0.086177234
## 14073      2        3  0.084805631
## 12743      2        3  0.080193232
## 17359      2        3  0.080188719
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## 11410      2        1  0.071114781
## 7505       2        1  0.071097470
## 6609       2        1  0.071094113
## 6244       2        1  0.071041069
## 11411      2        1  0.071038853
## 10944      2        1  0.071016680
## 11412      2        1  0.071012054
## 11521      2        1  0.070998393
## 6610       2        1  0.070994138
## 11409      2        1  0.070981578
## 7241       2        1  0.070947988
## 6529       2        1  0.070930594
## 6096       2        1  0.070930112
## 7506       2        1  0.070924990
## 8845       2        1  0.070910628
## 6366       2        1  0.070906554
## 6502       2        1  0.070895777
## 5987       2        1  0.070866879
## 7468       2        1  0.070827326
## 6176       2        1  0.070776887
## 7240       2        1  0.070727018
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## 11519      2        1  0.070518920
## 7384       2        1  0.070483226
## 5991       2        1  0.070481859
## 6365       2        1  0.070480068
## 19479      2        1  0.070478071
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## 6651       2        1  0.070423477
## 11517      2        1  0.070364377
## 5985       2        1  0.070144118
## 6151       2        1  0.070131706
## 8787       2        1  0.070103324
## 11414      2        1  0.070064650
## 6046       2        1  0.070054422
## 7242       2        1  0.070049930
## 6177       2        1  0.070025215
## 5989       2        1  0.070021046
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## 7038       2        1  0.069942885
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## 5988       2        1  0.069698951
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```

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## 8846         2      1   0.069600321
## 6364         2      1   0.069559010
## 11520        2      1   0.069540044
## 7503         2      1   0.069537873
## 11408        2      1   0.069519083
## 7534         2      1   0.069006389
## 7533         2      1   0.068963736
## 6208         2      1   0.068378173
## 6045         2      1   0.068352500
## 7502         2      1   0.068257338
## 6097         2      1   0.068249094
## 11406        2      1   0.067664363
## 5992         2      1   0.067629118
## 11522        2      1   0.067546581
## 6170         2      1   0.067456800
## 6608         2      1   0.067444396
## 5997         2      1   0.067441079
## 5984         2      1   0.067392707
## 6210         2      1   0.066823486
## 5986         2      1   0.066793069
## 7507         2      1   0.066781793
## 11413        2      1   0.066697409
## 6503         2      1   0.066652808
## 6239         2      1   0.066625253
## 11516        2      1   0.066621285
## 6238         2      1   0.066595908
## 7504         2      1   0.066581960
## 6606         2      1   0.065921901
## 11518        2      1   0.065914905
## 6055         2      1   0.065839211
## 5990         2      1   0.065760878
## 5965         2      1   0.065649096
## 18356        2      3   0.065404291
## 12930        2      3   0.065382742
## 16907        2      3   0.065381716
## 15468        2      3   0.065344827
## 17492        2      3   0.065324386
## 18348        2      3   0.065278146
## 12991        2      3   0.065267194
## 18350        2      3   0.065227983
## 18359        2      3   0.065155099
## 14553        2      3   0.065124094
## 12846        2      3   0.065111467
## 5993         2      1   0.065061790
## 17486        2      3   0.065059340
## 12710        2      3   0.065034192
## 5998         2      1   0.064995751
## 7382         2      1   0.064985613
## 12708        2      3   0.064973208
## 12705        2      3   0.064969515
## 12706        2      3   0.064969122
## 11523        2      1   0.064952515
## 13198        2      3   0.064895903
## 18347        2      3   0.064853797
```

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## 17802      2         3   0.064694399
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## 13013      2         3   0.064651415
## 13199      2         3   0.064646786
## 13120      2         3   0.064574980
## 13417      2         3   0.064489354
## 13116      2         3   0.064438073
## 12839      2         3   0.064436975
## 12838      2         3   0.064377066
## 12929      2         3   0.064359648
## 12990      2         3   0.064339945
## 12703      2         3   0.064310665
## 14057      2         3   0.064218721
## 12933      2         3   0.064039140
## 6611       2         1   0.064022711
## 12836      2         3   0.064001922
## 7381       2         1   0.063986962
## 5995       2         1   0.063956222
## 12821      2         3   0.063914945
## 13419      2         3   0.063899887
## 16908      2         3   0.063890921
## 13196      2         3   0.063884981
## 12663      2         3   0.063865591
## 7324       2         1   0.063698860
## 6212       2         1   0.063678002
## 7385       2         1   0.063622229
## 17489      2         3   0.063492342
## 12659      2         3   0.063391916
## 12784      2         3   0.063358391
## 18357      2         3   0.063356185
## 12709      2         3   0.063352509
## 12749      2         3   0.063343157
## 12837      2         3   0.063319297
## 6607       2         1   0.063034626
## 12707      2         3   0.062894949
## 12832      2         3   0.062830116
## 12639      2         3   0.062808340
## 13043      2         3   0.062783852
## 17741      2         3   0.062776363
## 18351      2         3   0.062757051
## 18355      2         3   0.062731451
## 6209       2         1   0.062584523
## 6138       2         1   0.062583299
## 7383       2         1   0.062558389
## 13114      2         3   0.062216568
## 12827      2         3   0.062208585
## 17491      2         3   0.062208585
## 12928      2         3   0.062161175
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## 12726      2         3   0.062062579
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```

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## 12830         2          3    0.060771676
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## 13540         2          3    0.060684078
## 13420         2          3    0.060545671
## 13418         2          3    0.060502016
## 14455         2          3    0.060437081
## 13195         2          3    0.059893111
## 17490         2          3    0.059747112
## 12711         2          3    0.059701032
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## 15469         2          3    0.058754222
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## 13117         2          3    0.058135664
## 13044         2          3    0.058114485
## 12748         2          3    0.057863378
## 17487         2          3    0.057863378
## 18349         2          3    0.057199556
## 12878         2          3    0.057165927
## 13163         2          3    0.057133755
## 13197         2          3    0.057102458
## 18353         2          3    0.055732172
## 17740         2          3    0.053666594
## 5924          2          1    0.034725313
## 18973         2          1    0.034655833
## 6523          2          1    0.034655663
## 6196          2          1    0.034648211
## 6642          2          1    0.034643194
## 6043          2          1    0.034640815
## 6650          2          1    0.034628204
## 7126          2          1    0.034607518
## 6026          2          1    0.034600303
## 7238          2          1    0.034588923
## 6520          2          1    0.034586873
## 11057         2          1    0.034586459
## 6521          2          1    0.034576080
## 6522          2          1    0.034542541
## 6225          2          1    0.034509248
## 7128          2          1    0.034476485
## 6519          2          1    0.034416652
## 7237          2          1    0.034398439
## 11055         2          1    0.034381713
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```

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## 7127        2       1   0.034294894
## 11341       2       1   0.034294894
## 6175        2       1   0.034277934
## 8506        2       1   0.034269446
## 11345       2       1   0.034053647
## 11343       2       1   0.034043960
## 11054       2       1   0.033795551
## 6206        2       1   0.033726740
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## 6426        2       1   0.033436465
## 7738        2       1   0.033431065
## 5981        2       1   0.033399224
## 7239        2       1   0.033397693
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## 9347        2       1   0.032558317
## 6071        2       1   0.032538389
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## 6641        2       1   0.032493954
## 11342       2       1   0.032324064
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## 6429        2       1   0.030934049
## 7743        2       1   0.030918416
## 7125        2       1   0.030826580
## 5983        2       1   0.030282976
## 6072        2       1   0.030260160
## 6428        2       1   0.030254548
## 5982        2       1   0.029785471
## 6706        2       1   0.029720453
## 7059        2       1   0.029710410
## 6195        2       1   0.029105100
## 6116        2       1   0.029067580
## 7087        2       1   0.029066962
## 13119       2       3   0.028561545
## 12860       2       3   0.028538406
## 12575       2       3   0.028531135
## 18426       2       3   0.028530926
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```

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## 12895        2        3    0.028499314
## 15474        2        3    0.028490155
## 17920        2        3    0.028487488
## 12880        2        3    0.028486370
## 15471        2        3    0.028486307
## 12971        2        3    0.028482477
## 12812        2        3    0.028460844
## 6427         2        1    0.028437095
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## 12755        2        3    0.028384010
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## 18438        2        3    0.028339219
## 13008        2        3    0.028330371
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## 12864        2        3    0.028260953
## 12811        2        3    0.028256992
## 12970        2        3    0.028256992
## 17711        2        3    0.028227831
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## 13155        2        3    0.027908018
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## 12577        2        3    0.027749710
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## 12816        2        3    0.027560266
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## 18434        2        3    0.027180776
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```

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## 12788      2      3  0.025602074
## 15078      2      3  0.025588635
## 18432      2      3  0.025482277
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## 5964       2      1 -0.003427819
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## 6640       2      1 -0.003430266
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## 6315       2      1 -0.003501729
## 7086       2      1 -0.003506747
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```

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## 6224         2        1 -0.003555283
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## 5928         2        1 -0.003569118
## 6219         2        1 -0.003571610
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## 6525         2        1 -0.003625367
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## 9879         2        1 -0.003767228
## 5929         2        1 -0.003878407
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## 13331        2        3 -0.008942373
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```

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## 15877        3        4  0.720766112
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## 16392        3        2  0.720665568
## 15700        3        2  0.720620796
## 18084        3        4  0.720578725
## 16141        3        4  0.720572158
## 16713        3        2  0.720539787
## 15642        3        2  0.720455839
## 15939        3        2  0.720454101
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## 17557        3        2  0.719817691
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## 20278        3        2  0.719624559
## 21127        3        4  0.719527810
## 16081        3        2  0.719367893
## 15762        3        2  0.719347405
## 15643        3        2  0.719243773
## 15640        3        2  0.719121506
## 15638        3        2  0.719041819
## 15944        3        2  0.718941660
```

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## 16328     3      4   0.718568079
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## 15679     3      2   0.718199616
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## 15639     3      2   0.718144822
## 16255     3      2   0.718007938
## 15887     3      4   0.717935175
## 15630     3      2   0.717934329
## 16086     3      4   0.717923664
## 16690     3      4   0.717810873
## 15934     3      4   0.717726074
## 16087     3      4   0.717698617
## 16093     3      4   0.717477412
## 16498     3      4   0.717376824
## 15933     3      4   0.717345115
## 16144     3      4   0.717213468
## 16652     3      4   0.717157704
## 26301     3      4   0.717151893
## 15767     3      4   0.717131247
## 15936     3      4   0.717093726
## 16143     3      4   0.717012713
## 15619     3      4   0.716963492
## 16651     3      4   0.716921110
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## 20926     3      2   0.716843397
## 15636     3      4   0.716766964
## 16549     3      2   0.716762381
## 15733     3      4   0.716714940
## 26302     3      2   0.716634233
## 15757     3      2   0.716524252
## 15759     3      2   0.716521777
## 16393     3      4   0.716481117
## 16905     3      4   0.716455931
## 20276     3      2   0.716409804
## 15943     3      2   0.716402163
## 21185     3      4   0.716380409
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## 16323     3      2   0.716300584
## 15706     3      4   0.716263935
## 15650     3      2   0.716238161
## 15949     3      4   0.716219745
## 16694     3      4   0.716218145
## 17996     3      2   0.716216191
## 15888     3      4   0.716154517
## 16092     3      4   0.716121870
## 15565     3      2   0.715643138
## 15834     3      4   0.715628686
## 20928     3      2   0.715551315
## 15728     3      2   0.715530237
## 16198     3      4   0.715453032
## 16969     3      4   0.715338375
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## 21187     3      4   0.715168871
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```

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## 16750    3    4    0.714322202
## 15758    3    2    0.714302421
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## 16551    3    2    0.714131236
## 16555    3    2    0.713964202
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## 16693    3    4    0.713606655
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## 15569    3    2    0.712913332
## 20927    3    2    0.712850808
## 16442    3    2    0.712729256
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## 15677    3    2    0.712564699
## 17317    3    2    0.712543959
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```

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## 15938        3        2    0.710812433
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## 16000        3        2    0.710602724
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## 15817        3        2    0.710337069
## 16302        3        4    0.710263814
## 15869        3        4    0.710263679
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## 16512        3        4    0.709527169
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## 16300        3        4    0.709501284
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## 15686        3        2    0.708792068
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## 20609        3        2    0.708682910
## 21832        3        2    0.708677221
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## 15998         3         2    0.708319720
## 15563         3         2    0.708289545
## 17211         3         4    0.708228844
## 15801         3         2    0.708220276
## 17210         3         4    0.708166319
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## 15576         3         2    0.708150699
## 17495         3         4    0.708114166
## 15464         3         2    0.708093865
## 15407         3         2    0.708074338
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## 15970         3         2    0.707374667
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## 21972         3         4    0.706593765
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## 15771         3         4    0.706537092
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## 16262         3         2    0.706485698
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## 16297         3         2    0.706173676
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## 17080         3         4    0.706099957
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```

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## 15802    3    2    0.705886457
## 15552    3    2    0.705862566
## 16644    3    4    0.705849991
## 15821    3    2    0.705789367
## 15739    3    4    0.705732624
## 16499    3    4    0.705633508
## 16188    3    4    0.705606079
## 16865    3    4    0.705562575
## 16570    3    2    0.705548989
## 15727    3    2    0.705526089
## 15781    3    4    0.705508798
## 20277    3    2    0.705503335
## 16443    3    2    0.705490139
## 16517    3    4    0.705437694
## 17269    3    4    0.705431076
## 16773    3    2    0.705286402
## 16818    3    2    0.705128927
## 16702    3    4    0.704657801
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## 16700    3    4    0.704308460
## 15849    3    2    0.704278627
## 16331    3    4    0.704254579
## 16462    3    4    0.704253962
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## 16256    3    2    0.704122545
## 21824    3    2    0.704111511
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## 15631    3    2    0.704059058
## 21818    3    2    0.704038708
## 15690    3    2    0.704015671
## 16382    3    2    0.704010287
## 15606    3    2    0.703968486
## 15997    3    2    0.703916771
## 15848    3    2    0.703879541
## 16642    3    4    0.703858630
## 16317    3    2    0.703846479
## 15392    3    2    0.703710806
## 15587    3    2    0.703578831
## 15400    3    2    0.703505356
## 21826    3    2    0.703406540
## 21183    3    4    0.703364894
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```

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## 15703          3          4    0.703129765
## 17015          3          2    0.702895096
## 16118          3          4    0.702869219
## 16358          3          4    0.702863924
## 15937          3          4    0.702860287
## 16165          3          4    0.702856416
## 15401          3          2    0.702789881
## 21249          3          4    0.702784479
## 21822          3          2    0.702782923
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## 16183          3          4    0.702609384
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## 15406          3          2    0.702568159
## 17382          3          4    0.702564027
## 16715          3          4    0.702560228
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## 15774          3          2    0.702468260
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## 21968          3          4    0.702448514
## 17307          3          4    0.702442808
## 16169          3          4    0.702388788
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## 15989          3          4    0.701997153
## 16559          3          4    0.701932977
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## 15615          3          2    0.701438033
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```

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## 20732          3          4   0.700894386
## 21971          3          4   0.700459602
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## 21965          3          4   0.700283814
## 16213          3          4   0.700235854
## 16359          3          4   0.700150849
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## 15634          3          2   0.699994489
## 15986          3          4   0.699971641
## 15768          3          4   0.699967419
## 16196          3          4   0.699925740
## 16398          3          4   0.699897857
## 15816          3          2   0.699886668
## 15717          3          2   0.699878291
## 21182          3          4   0.699870921
## 16011          3          4   0.699833046
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## 16021          3          4   0.699777918
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## 16336          3          4   0.699655109
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## 21067          3          4   0.699483868
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## 16313          3          2   0.699383020
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## 15845          3          4   0.699089763
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## 16304          3          4   0.699060438
## 15573          3          2   0.699044202
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```

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## 17694         3          4    0.696262775
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## 16516         3          4    0.696240629
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## 16046         3          4    0.695070439
## 20991         3          2    0.695064524
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## 15389         3          2    0.695045310
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```

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## 15953          3          2    0.694540717
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## 19700          3          2    0.693883693
## 16309          3          2    0.693855849
## 15199          3          2    0.693755636
## 15649          3          2    0.693743745
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## 16134          3          2    0.693657355
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## 16381          3          2    0.693589668
## 16136          3          2    0.693576020
## 15214          3          2    0.693551414
## 15451          3          2    0.693459933
## 15511          3          2    0.693404815
## 17514          3          4    0.693348368
## 15450          3          2    0.693282690
## 20986          3          2    0.693270223
## 16938          3          2    0.693219548
## 16421          3          4    0.693104611
## 17083          3          4    0.693004713
## 16312          3          2    0.692976317
## 16942          3          4    0.692948266
## 23698          3          4    0.692916901
## 15773          3          2    0.692902337
## 15856          3          2    0.692809231
## 16055          3          2    0.692793004
## 16315          3          2    0.692780575
## 15824          3          4    0.692758272
## 16155          3          2    0.692751885
## 19707          3          2    0.692751612
## 15310          3          2    0.692723559
## 20739          3          4    0.692701540
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```

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## 15402    3      2   0.692616098
## 16137    3      2   0.692554782
## 16991    3      4   0.692502761
## 18049    3      4   0.692492850
## 15683    3      2   0.692483142
## 15684    3      2   0.692453152
## 16699    3      4   0.692436728
## 16208    3      4   0.692431152
## 21816    3      2   0.692425893
## 15510    3      2   0.692414104
## 16995    3      2   0.692412515
## 15616    3      2   0.692407589
## 15704    3      4   0.692394519
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## 23962    3      4   0.692318015
## 23953    3      4   0.692270634
## 20740    3      4   0.692179589
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## 16503    3      4   0.692016810
## 16763    3      4   0.691986619
## 15738    3      4   0.691937501
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## 17213    3      4   0.691868352
## 16182    3      4   0.691821818
## 17724    3      4   0.691821818
## 16109    3      4   0.691795254
## 16809    3      4   0.691745991
## 19144    3      4   0.691720635
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## 16145    3      4   0.691643593
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## 16142    3      4   0.691528160
## 17381    3      4   0.691309356
## 15835    3      4   0.691274161
## 15540    3      2   0.691270868
## 16641    3      4   0.691229465
## 16380    3      4   0.691192761
## 23696    3      4   0.691185592
## 16053    3      4   0.691167906
## 18555    3      2   0.691073661
## 16009    3      2   0.691067329
## 16200    3      4   0.691054218
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## 16945    3      4   0.691022380
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## 16422    3      4   0.691016175
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## 16068      3      4    0.690655007
## 16045      3      4    0.690641276
## 16257      3      2    0.690541004
## 15932      3      2    0.690401277
## 16550      3      2    0.690391120
## 16216      3      4    0.690357884
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## 15685      3      2    0.690218717
## 16166      3      4    0.690144307
## 17512      3      4    0.690075432
## 18499      3      2    0.690054984
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## 15285      3      2    0.689907767
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## 15617      3      2    0.689217099
## 19705      3      2    0.689186215
## 15531      3      2    0.689152722
## 15325      3      2    0.689151746
## 15226      3      2    0.688983069
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## 22641      3      4    0.688637623
## 16054      3      4    0.688637123
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## 15694      3      2    0.688353949
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## 16520      3      4    0.688178232
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## 15218     3        2   0.687967186
## 15224     3        2   0.687945348
## 16105     3        4   0.687944309
## 15137     3        2   0.687934022
## 20851     3        2   0.687920844
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## 21970     3        4   0.687861531
## 16618     3        4   0.687849622
## 21519     3        4   0.687833007
## 16714     3        4   0.687808518
## 15449     3        2   0.687712050
## 23419     3        4   0.687635305
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## 16412     3        4   0.687449113
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## 16329     3        4   0.687242451
## 16410     3        4   0.687205127
## 15879     3        4   0.687197567
## 16557     3        4   0.687131239
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## 18362     3        4   0.687057067
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## 15983     3        2   0.687012941
## 16232     3        4   0.687008131
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## 15946        3        4   0.686255889
## 16229        3        4   0.686140209
## 21831        3        2   0.686115972
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## 15809        3        2   0.685825594
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## 16592        3        4   0.684373792
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## 21227        3        2   0.684244756
## 16454        3        4   0.684177982
## 15977        3        4   0.684170523
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## 16760        3        4   0.684035094
## 15693        3        2   0.683999683
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```

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## 19699        3        2    0.683825776
## 23949        3        4    0.683809518
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## 15414        3        2    0.683764025
## 16415        3        4    0.683733529
## 16645        3        4    0.683683165
## 17306        3        4    0.683654376
## 16464        3        4    0.683641330
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## 16515        3        4    0.682675540
## 16372        3        4    0.682669634
## 22242        3        4    0.682618018
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## 16455        3        4    0.682405358
## 16205        3        4    0.682376502
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## 15466        3        2    0.682362881
## 24087        3        4    0.682318428
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## 24080        3        4    0.682305697
## 15291        3        2    0.682200009
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## 15481        3        2    0.682149612
## 17259        3        4    0.682142843
## 20836        3        2    0.682138236
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## 15925        3        2    0.682055097
## 17214        3        4    0.682011786
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## 15886        3        4    0.681996405
## 16027        3        4    0.681971349
```

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## 15381      3      2   0.681837867
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## 15930      3      2   0.681817152
## 20837      3      2   0.681713827
## 21186      3      4   0.681668812
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## 15289      3      2   0.680589536
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## 15715      3      2   0.680573286
## 15201      3      2   0.680556060
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```

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## 24089     3       4   0.680330333
## 23952     3       4   0.680324207
## 16314     3       2   0.680289234
## 15714     3       2   0.680259986
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```

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```

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## 17150        3        4    0.674273343
## 16060        3        4    0.674262284
## 24303        3        4    0.674257966
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## 17401        3            4    0.673449705
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## 16752          3          4    0.661308367
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## 23023          3          4    0.661188374
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## 16832    3    4    0.659563223
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## 17043          3          2    0.652102629
## 16565          3          4    0.652098284
## 14938          3          2    0.652050355
## 19352          3          4    0.652037082
## 16947          3          4    0.652035757
## 16775          3          4    0.652021844
## 14941          3          2    0.652006208
## 16617          3          4    0.651928513
## 17538          3          4    0.651883139
## 17361          3          4    0.651799801
## 16619          3          4    0.651747147
## 18370          3          4    0.651744915
## 15847          3          2    0.651739650
## 16845          3          4    0.651729887
## 16469          3          4    0.651707483
## 19702          3          2    0.651651085
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## 16948          3          4    0.651443396
## 16388          3          4    0.651421284
## 20745          3          4    0.651261262
## 14891          3          2    0.651235353
## 18374          3          4    0.651161016
## 18021          3          2    0.651120120
## 15148          3          2    0.651110023
## 24321          3          4    0.651020120
## 15491          3          2    0.650970104
## 15927          3          2    0.650957993
## 16655          3          4    0.650955437
## 16852          3          4    0.650937520
## 16477          3          4    0.650924083
## 17014          3          2    0.650899998
## 14890          3          2    0.650889854
## 15146          3          2    0.650859094
## 21512          3          4    0.650800386
## 17093          3          4    0.650798308
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## 15928          3          2    0.650683410
## 18443          3          4    0.650548249
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## 16404          3          4    0.650463304
## 20843          3          2    0.650313894
```

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## 18393      3      4   0.650292671
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## 16409      3      4   0.649872722
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## 15133      3      2   0.649622964
## 15548      3      2   0.649577506
## 15906      3      2   0.649555651
## 15038      3      2   0.649549046
## 16108      3      4   0.649531301
## 15526      3      2   0.649476581
## 15033      3      2   0.649469298
## 16460      3      4   0.649461601
## 15282      3      2   0.649344240
## 19900      3      2   0.649340990
## 17190      3      4   0.649338246
## 16249      3      4   0.649310640
## 20914      3      2   0.649291176
## 16739      3      4   0.649239376
## 20919      3      2   0.649214748
## 16484      3      4   0.649182695
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## 16590      3      4   0.649175078
## 16611      3      4   0.649157216
## 18019      3      2   0.649151240
## 16215      3      4   0.649145341
## 20747      3      4   0.649144947
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## 15489      3      2   0.649025982
## 16767      3      4   0.649007610
## 17346      3      4   0.648953000
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## 16727      3      4   0.648183712
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```

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## 18312        3        4    0.646311468
## 17471        3        4    0.646259506
## 18307        3        4    0.646123436
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## 15088        3        2    0.645778173
## 20853        3        2    0.645685790
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## 15217        3        2    0.645508565
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## 14928        3        2    0.644930967
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## 15269        3        2    0.644839499
## 16600        3        4    0.644820076
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## 17750        3        4    0.644639790
## 18373        3        4    0.644595104
## 17973        3        4    0.644550309
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## 17659        3        4    0.644526055
## 16001        3        2    0.644475569
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## 16846        3        4    0.644426017
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```

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## 16719           3           2   0.644216585
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## 14899           3           2   0.644120395
## 16797           3           4   0.644120055
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## 17974           3           4   0.644094341
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## 16591           3           4   0.644008122
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## 15702           3           4   0.643905119
## 17038           3           4   0.643867178
## 15270           3           2   0.643809828
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## 15087           3           2   0.643626913
## 24082           3           4   0.643549986
## 17710           3           4   0.643544802
## 17017           3           4   0.643488862
## 17820           3           4   0.643421817
## 16898           3           4   0.643280164
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## 15086           3           2   0.643054582
## 15221           3           2   0.643053504
## 14917           3           2   0.642884842
## 16599           3           4   0.642759996
## 24446           3           4   0.642738631
## 16808           3           2   0.642705513
## 17472           3           4   0.642642171
## 15074           3           2   0.642631360
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## 16837           3           4   0.641952444
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```

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## 16753    3    4    0.641287348
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## 14939    3    2    0.641212947
## 15547    3    2    0.641202616
## 15523    3    2    0.641202247
## 21515    3    4    0.641124406
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## 15575    3    2    0.640870458
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```

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## 16831        3         4    0.637715439
## 16505        3         4    0.637688349
## 17409        3         4    0.637673768
## 15093        3         2    0.637635552
## 15220        3         2    0.637635360
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## 16578        3         4    0.637577377
## 14937        3         2    0.637541999
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## 16580        3         4    0.637405792
## 21409        3         4    0.636805360
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## 14949        3         2    0.636659134
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## 16897        3         4    0.636636708
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## 15516        3         2    0.636141776
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## 14837        3         2    0.636100016
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## 16786        3         4    0.636058727
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## 16926        3         4    0.635869607
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```

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## 17366        3        4    0.635363939
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## 17665        3        4    0.635160139
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## 17544        3        4    0.632949364
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## 15752        3        2    0.632293884
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```

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## 16471      3        4   0.631887809
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## 17817      3        4   0.631696673
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## 15032      3        2   0.628600622
## 16624      3        4   0.628586221
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```

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## 15505    3    2    0.627166776
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```

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## 16769          3          4    0.621889229
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## 15707          3          2    0.621406306
## 17977          3          4    0.621346971
## 15670          3          2    0.621319949
## 22640          3          4    0.621297366
## 15424          3          2    0.621277598
## 17096          3          4    0.621216579
## 14606          3          2    0.621144743
## 16925          3          4    0.621010167
## 14858          3          2    0.620925759
## 14872          3          2    0.620925004
## 15720          3          2    0.620905007
## 18449          3          4    0.620857728
## 14626          3          2    0.620849533
## 15007          3          2    0.620607655
## 14624          3          2    0.620568474
## 14876          3          2    0.620553127
```

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## 15281        3           2    0.620553097
## 17985        3           4    0.620383009
## 14616        3           2    0.620298064
## 17225        3           4    0.620246276
## 16849        3           4    0.620225389
## 16814        3           4    0.619952349
## 16949        3           4    0.619378513
## 16876        3           4    0.619247042
## 16986        3           4    0.618947584
## 17003        3           4    0.618469325
## 20918        3           2    0.618142799
## 14916        3           2    0.618084795
## 14922        3           2    0.618062284
## 15003        3           2    0.618016961
## 15914        3           2    0.617972139
## 15256        3           2    0.617900567
## 17385        3           4    0.617818531
## 16839        3           4    0.617735093
## 17610        3           4    0.617735093
## 17078        3           4    0.617699513
## 15583        3           2    0.617636048
## 14577        3           2    0.617632659
## 15101        3           2    0.617632572
## 17481        3           4    0.617615671
## 16901        3           4    0.617597108
## 17422        3           4    0.617575848
## 14647        3           2    0.617428756
## 15581        3           2    0.617408653
## 17476        3           4    0.617387516
## 14923        3           2    0.617376894
## 21716        3           4    0.617374944
## 14826        3           2    0.617365189
## 17406        3           4    0.617361169
## 18501        3           4    0.617288323
## 17075        3           4    0.617283339
## 14968        3           2    0.617264230
## 16787        3           4    0.617261300
## 18823        3           2    0.617260000
## 17194        3           4    0.617224412
## 14958        3           2    0.617021647
## 15342        3           2    0.616860340
## 14997        3           2    0.616839499
## 21751        3           4    0.616830955
## 17108        3           4    0.616826257
## 14952        3           2    0.616718242
## 17384        3           4    0.616603991
## 15490        3           2    0.616595390
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## 16720        3           2    0.616267294
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## 16804        3           4    0.616208145
## 14945        3           2    0.616194528
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```

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## 17751       3       4   0.616137609
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## 15826       3       2   0.615983001
## 17088       3       4   0.615961165
## 18398       3       4   0.615934904
## 16952       3       4   0.615921718
## 16971       3       4   0.615856772
## 15102       3       2   0.615826827
## 16850       3       4   0.615753011
## 16987       3       4   0.615731372
## 14914       3       2   0.615695934
## 17424       3       4   0.615672149
## 15645       3       2   0.615644860
## 16628       3       4   0.615638496
## 22822       3       4   0.615543749
## 17696       3       4   0.615504677
## 14551       3       2   0.615433872
## 14900       3       2   0.615405104
## 17145       3       4   0.615383485
## 14940       3       2   0.615344450
## 14630       3       2   0.615305237
## 15047       3       2   0.615223776
## 14946       3       2   0.614994047
## 15089       3       2   0.614894268
## 15965       3       2   0.614881524
## 14920       3       2   0.614772562
## 17668       3       4   0.614759913
## 17107       3       4   0.614738417
## 17386       3       4   0.614728457
## 14913       3       2   0.614721156
## 14909       3       2   0.614545532
## 18042       3       4   0.614542287
## 16989       3       4   0.614392246
## 17180       3       4   0.614311993
## 24924       3       4   0.614242230
## 16802       3       4   0.614110281
## 25900       3       4   0.613912135
## 16984       3       4   0.613847392
## 15190       3       2   0.613792995
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## 17001       3       4   0.613400887
## 14910       3       2   0.613375919
## 15044       3       2   0.613364649
## 14576       3       2   0.613361916
## 15348       3       2   0.613225879
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## 18820       3       2   0.613119571
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## 14998       3       2   0.612906924
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```

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## 17144          3          4    0.612741629
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## 16755          3          4    0.612549508
## 15259          3          2    0.612479356
## 14951          3          2    0.612211462
## 16956          3          4    0.612035727
## 14620          3          2    0.611959631
## 14897          3          2    0.611957511
## 16851          3          4    0.611902124
## 19517          3          2    0.611798748
## 17002          3          4    0.611792341
## 14918          3          2    0.611790111
## 15182          3          2    0.611464965
## 17146          3          4    0.611416704
## 18188          3          4    0.611365432
## 14854          3          2    0.611278361
## 16604          3          2    0.611269370
## 16879          3          4    0.611258110
## 17110          3          4    0.611127562
## 18456          3          4    0.611110578
## 14631          3          2    0.611016326
## 14823          3          2    0.610983195
## 15370          3          2    0.610845141
## 16803          3          4    0.610732567
## 16931          3          4    0.610725782
## 16783          3          4    0.610686625
## 21511          3          4    0.610686625
## 17666          3          4    0.610682926
## 14970          3          2    0.610635323
## 17421          3          4    0.610554038
## 21717          3          4    0.610477257
## 17147          3          4    0.610212262
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## 14885          3          2    0.610057226
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## 24309          3          4    0.609814376
## 15917          3          2    0.609760755
## 18829          3          4    0.609154936
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## 17046          3          4    0.609026105
## 17783          3          4    0.608998490
## 15258          3          2    0.608981516
## 15054          3          2    0.608949247
## 16903          3          4    0.608944600
## 17976          3          4    0.608675243
## 20455          3          2    0.608469953
## 18797          3          4    0.608439983
## 14497          3          2    0.608418024
```

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## 14966        3        2    0.608188773
## 14969        3        2    0.608129234
## 15197        3        2    0.608123729
## 15596        3        2    0.608080277
## 18017        3        2    0.607876019
## 14915        3        2    0.607762043
## 16829        3        4    0.607709211
## 14832        3        2    0.607701351
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## 17029        3        4    0.607672726
## 18924        3        4    0.607659061
## 16958        3        4    0.607644886
## 25081        3        4    0.607619094
## 18921        3        4    0.607572198
## 14831        3        2    0.607513941
## 17667        3        4    0.607448465
## 14935        3        2    0.607377669
## 16979        3        4    0.607321715
## 17024        3        4    0.607303217
## 14993        3        2    0.607272550
## 20682        3        2    0.607240686
## 17477        3        4    0.607205028
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## 15368        3        2    0.607153007
## 14641        3        2    0.607070042
## 18816        3        2    0.607017561
## 17122        3        4    0.607000649
## 17192        3        4    0.606931078
## 18834        3        4    0.606913145
## 16447        3        2    0.606863260
## 14508        3        2    0.606759698
## 14536        3        2    0.606729992
## 17031        3        4    0.606655500
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## 15964        3        2    0.606589047
## 18818        3        2    0.606558034
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## 17095        3        4    0.605981116
## 16983        3        4    0.605944604
## 20830        3        2    0.605909108
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## 17141        3        4    0.605768757
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## 15245        3        2    0.605655221
## 17087        3        4    0.605592925
```

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## 20825    3        2  0.605578671
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## 17187    3        4  0.605446357
## 17143    3        4  0.605370675
## 25086    3        4  0.605102027
## 16640    3        4  0.605043926
## 14575    3        2  0.604891342
## 17009    3        4  0.604890914
## 15253    3        2  0.604778556
## 16841    3        4  0.604724922
## 16842    3        4  0.604690879
## 17109    3        4  0.604622567
## 15446    3        2  0.604530604
## 15252    3        2  0.604482893
## 18679    3        2  0.604480163
## 17784    3        4  0.604405769
## 17077    3        4  0.604372305
## 17549    3        4  0.604262201
## 16932    3        4  0.604239050
## 21653    3        4  0.604154968
## 18569    3        4  0.604150604
## 17165    3        4  0.604142692
## 17545    3        4  0.604085039
## 17138    3        4  0.603944821
## 17000    3        4  0.603706698
## 17025    3        4  0.603360058
## 15248    3        2  0.603269089
## 17134    3        4  0.603165707
## 14533    3        2  0.603102911
## 15123    3        2  0.603079643
## 20681    3        2  0.603058888
## 18308    3        4  0.603026452
## 17051    3        4  0.603008606
## 25082    3        4  0.602797105
## 17188    3        4  0.602762630
## 18462    3        4  0.602755998
## 16935    3        4  0.602735077
## 14847    3        2  0.602720609
## 15050    3        2  0.602706512
## 16880    3        4  0.602675346
## 15443    3        2  0.602672096
## 18455    3        4  0.602639813
## 18043    3        4  0.602636220
## 15254    3        2  0.602619564
## 17140    3        4  0.602614498
## 16988    3        4  0.602509376
## 15866    3        2  0.602459821
## 14451    3        2  0.602427934
## 17085    3        4  0.602397642
## 14578    3        2  0.602349200
## 14605    3        2  0.602222353
## 16970    3        4  0.602217233
## 18256    3        4  0.602066498
## 14953    3        2  0.601652545
```

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## 14550          3          2    0.601509842
## 17041          3          4    0.601163444
## 14845          3          2    0.600807861
## 14450          3          2    0.600678413
## 17433          3          4    0.600580538
## 14827          3          2    0.600512787
## 17199          3          4    0.600391669
## 16836          3          4    0.600367721
## 15492          3          2    0.600117758
## 14828          3          2    0.600081651
## 17247          3          4    0.599652069
## 15508          3          2    0.599620366
## 15082          3          2    0.599513409
## 14615          3          2    0.599393378
## 14836          3          2    0.599088595
## 17364          3          4    0.599050623
## 17106          3          4    0.599010350
## 17170          3          4    0.598974509
## 20456          3          2    0.598812391
## 17785          3          4    0.598773572
## 16934          3          4    0.598773154
## 14853          3          2    0.598669354
## 17030          3          4    0.598653903
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## 15369          3          2    0.598352784
## 15246          3          2    0.598251326
## 14642          3          2    0.598249072
## 14862          3          2    0.598239073
## 14829          3          2    0.598220156
## 14507          3          2    0.598168747
## 18819          3          2    0.597885469
## 15019          3          2    0.597777110
## 14967          3          2    0.597695201
## 18822          3          2    0.597695201
## 15034          3          2    0.597565854
## 17156          3          4    0.597529173
## 16927          3          4    0.597496717
## 17047          3          4    0.597273832
## 17426          3          4    0.597227455
## 16788          3          4    0.596998217
## 17430          3          4    0.596706014
## 14540          3          2    0.596651294
## 14656          3          2    0.596554766
## 15236          3          2    0.596554766
## 14433          3          2    0.596459851
## 15361          3          2    0.596431262
## 20916          3          2    0.596333056
## 18229          3          4    0.596261413
## 23305          3          4    0.596206682
## 18015          3          2    0.596092985
## 20818          3          2    0.596072596
## 14932          3          2    0.596065396
## 17186          3          4    0.596014421
```

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## 17292     3        4   0.595944888
## 24384     3        4   0.595941898
## 14664     3        2   0.595941000
## 15865     3        2   0.595903460
## 17054     3        4   0.595886105
## 15071     3        2   0.595823948
## 18922     3        4   0.595803985
## 17191     3        4   0.595734746
## 20824     3        2   0.595638654
## 17562     3        4   0.595556401
## 18923     3        4   0.595506626
## 18053     3        4   0.595503924
## 14842     3        2   0.595433754
## 17291     3        4   0.595407173
## 14851     3        2   0.595349629
## 17423     3        4   0.595265984
## 14882     3        2   0.595226902
## 20822     3        2   0.595187767
## 15239     3        2   0.595088077
## 15366     3        2   0.595064782
## 17398     3        4   0.594891035
## 14665     3        2   0.594722370
## 15444     3        2   0.594682497
## 15187     3        2   0.594559096
## 18821     3        2   0.594554524
## 17020     3        4   0.594554401
## 20829     3        2   0.594525867
## 14971     3        2   0.594517356
## 14833     3        2   0.594509514
## 17068     3        4   0.594496687
## 15570     3        2   0.594472470
## 16179     3        2   0.594456245
## 15723     3        2   0.594408988
## 14963     3        2   0.594404754
## 18459     3        4   0.594339989
## 19433     3        2   0.594256578
## 14617     3        2   0.594240234
## 16980     3        4   0.594229684
## 17787     3        4   0.594194069
## 22529     3        4   0.594182688
## 14855     3        2   0.594056752
## 18681     3        2   0.593970208
## 15367     3        2   0.593781869
## 14860     3        2   0.593722960
## 20817     3        2   0.593707325
## 18556     3        4   0.593690856
## 21361     3        2   0.593493973
## 17182     3        2   0.593451124
## 14510     3        2   0.593444061
## 17812     3        4   0.593434655
## 17241     3        4   0.593169406
## 17056     3        4   0.592896540
## 18051     3        4   0.592646621
## 15517     3        2   0.592632469
```

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## 15501          3          2   0.592628388
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## 14416          3          2   0.592525295
## 17429          3          4   0.592516060
## 15359          3          2   0.592285385
## 15120          3          2   0.592005064
## 14552          3          2   0.591971324
## 23303          3          4   0.591904671
## 16954          3          4   0.591870885
## 17473          3          4   0.591849355
## 20827          3          2   0.591782288
## 17474          3          4   0.591700354
## 15092          3          2   0.591659954
## 16805          3          4   0.591612720
## 18460          3          4   0.591518834
## 17663          3          4   0.591405928
## 14843          3          2   0.591375496
## 18817          3          2   0.591358542
## 14613          3          2   0.591259355
## 17427          3          4   0.591111480
## 14612          3          2   0.591101231
## 25290          3          4   0.591039626
## 16999          3          4   0.591035338
## 17049          3          4   0.590736104
## 25026          3          4   0.590685359
## 18570          3          4   0.590496268
## 17786          3          4   0.590336939
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## 17981          3          4   0.590247974
## 14502          3          2   0.590026349
## 17022          3          4   0.589967086
## 17532          3          4   0.589939456
## 17404          3          4   0.589926975
## 18677          3          2   0.589904427
## 14543          3          2   0.589891855
## 15358          3          2   0.589740412
## 16180          3          2   0.589736233
## 16712          3          2   0.589715511
## 18523          3          4   0.589648788
## 14544          3          2   0.589454578
## 17219          3          4   0.589429748
## 14991          3          2   0.589132857
## 14962          3          2   0.589084787
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## 14496          3          2   0.588883911
## 14835          3          2   0.588821992
## 18567          3          4   0.588747623
## 15364          3          2   0.588691851
## 17021          3          4   0.588497512
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```

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## 17788          3          4    0.587868742
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## 18815          3          2    0.587598446
## 22147          3          2    0.587444587
## 14532          3          2    0.587391842
## 20821          3          2    0.587301311
## 26542          3          2    0.587196179
## 20826          3          2    0.587141651
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## 25286          3          4    0.586943441
## 15963          3          2    0.586891843
## 17189          3          4    0.586886293
## 18568          3          4    0.586879892
## 18671          3          4    0.586790884
## 17864          3          4    0.586430830
## 20685          3          2    0.586202748
## 17094          3          2    0.585966810
## 15514          3          2    0.585771421
## 17133          3          4    0.585734734
## 17124          3          4    0.585500767
## 14856          3          2    0.585462469
## 18717          3          4    0.585447458
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## 17065          3          4    0.585365482
## 17064          3          4    0.585346303
## 18603          3          4    0.585339253
## 17425          3          4    0.585270738
## 18445          3          4    0.585249351
## 14574          3          2    0.585170665
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## 14964          3          2    0.585127612
## 17533          3          4    0.585101448
## 15352          3          2    0.585087930
## 17528          3          4    0.585038820
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## 18602          3          4    0.584996093
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## 18052          3          4    0.584911214
## 17181          3          4    0.584910439
## 22820          3          4    0.584891685
## 16940          3          4    0.584886456
## 17863          3          4    0.584870774
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## 17050          3          4    0.584588856
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```

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## 15177          3          2    0.584539973
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## 15251          3          2    0.584407394
## 14422          3          2    0.584354946
## 25292          3          4    0.584336308
## 14570          3          2    0.584276684
## 15375          3          2    0.584267032
## 14654          3          2    0.584205032
## 15243          3          2    0.584204489
## 17866          3          4    0.584185550
## 14537          3          2    0.584131836
## 15864          3          2    0.584088958
## 16218          3          2    0.584006029
## 16633          3          4    0.583992027
## 14990          3          2    0.583991358
## 14589          3          2    0.583987791
## 14921          3          2    0.583959456
## 25296          3          4    0.583945857
## 14640          3          2    0.583919866
## 25300          3          4    0.583907958
## 14539          3          2    0.583889221
## 14470          3          2    0.583801477
## 14852          3          2    0.583776497
## 18522          3          4    0.583772487
## 21752          3          4    0.583736234
## 18672          3          4    0.583691228
## 17067          3          4    0.583685150
## 14434          3          2    0.583681400
## 20134          3          2    0.583668492
## 14658          3          2    0.583661547
## 15250          3          2    0.583652052
## 18032          3          4    0.583637504
## 14423          3          2    0.583557607
## 14469          3          2    0.583516918
## 14661          3          2    0.583516240
## 14446          3          2    0.583475796
## 20193          3          2    0.583450214
## 14849          3          2    0.583299386
## 25027          3          4    0.583246811
## 14994          3          2    0.583225589
## 15503          3          2    0.583192779
## 17174          3          4    0.582993844
## 16972          3          4    0.582791710
## 17032          3          4    0.582766520
## 25085          3          4    0.582569680
## 18661          3          4    0.582519131
## 14878          3          2    0.582502855
## 17101          3          4    0.582418524
## 17099          3          4    0.582397339
## 14585          3          2    0.582322143
```

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## 25294          3          4    0.581989848
## 25288          3          4    0.581915865
## 17126          3          4    0.581596805
## 17260          3          4    0.581373498
## 17879          3          4    0.581357457
## 17352          3          4    0.581305346
## 14657          3          2    0.581205481
## 16632          3          4    0.581140061
## 16658          3          4    0.581136883
## 18030          3          4    0.581098497
## 18676          3          2    0.581056769
## 15442          3          2    0.580885011
## 14421          3          2    0.580706690
## 14466          3          2    0.580681105
## 14467          3          2    0.580659766
## 18678          3          2    0.580581908
## 17125          3          4    0.580516870
## 25354          3          4    0.580508142
## 14506          3          2    0.580470171
## 17171          3          4    0.580388394
## 17139          3          4    0.580357559
## 17588          3          4    0.580324894
## 14880          3          2    0.580271704
## 17169          3          4    0.580252998
## 17428          3          4    0.580212443
## 25084          3          4    0.580037653
## 14830          3          2    0.579876160
## 16567          3          2    0.579845363
## 20680          3          2    0.579812209
## 14925          3          2    0.579601515
## 17102          3          4    0.579398962
## 14989          3          2    0.579227371
## 14995          3          2    0.579113269
## 20454          3          2    0.578907014
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## 14611          3          2    0.578828073
## 17248          3          4    0.578736742
## 15353          3          2    0.578508334
## 15169          3          2    0.578468643
## 15170          3          2    0.578429111
## 19605          3          4    0.578412512
## 17813          3          4    0.578143856
## 18187          3          4    0.578110467
## 19011          3          4    0.577965263
## 18054          3          4    0.577929967
## 17023          3          4    0.577856929
## 14942          3          2    0.577744979
## 15081          3          2    0.577223775
## 14411          3          2    0.576751149
## 17502          3          4    0.576724031
## 20820          3          2    0.576721009
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## 25293          3          4    0.576562085
## 14538          3          2    0.576561677
```

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## 17590        3        4   0.576543248
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## 17159        3        4   0.576403603
## 17055        3        4   0.576134415
## 14505        3        2   0.575888567
## 23304        3        4   0.575736450
## 15176        3        2   0.575278614
## 25083        3        4   0.575215032
## 17354        3        4   0.575068554
## 14911        3        2   0.575061481
## 20828        3        2   0.575061299
## 14936        3        2   0.575057032
## 15827        3        2   0.574973199
## 14844        3        2   0.574059703
## 17238        3        4   0.573972256
## 18457        3        4   0.573798081
## 17270        3        4   0.573765322
## 17589        3        4   0.573694584
## 16362        3        2   0.573606872
## 14850        3        2   0.573512768
## 14628        3        2   0.573489651
## 25443        3        4   0.573448025
## 18905        3        4   0.573298123
## 25435        3        4   0.573278127
## 17167        3        4   0.573264659
## 14324        3        2   0.573232460
## 18810        3        2   0.573232460
## 25439        3        4   0.573143575
## 18037        3        4   0.573103749
## 14350        3        2   0.573086072
## 17871        3        4   0.573042790
## 17090        3        4   0.573015349
## 14883        3        2   0.573012429
## 14412        3        2   0.573001925
## 14484        3        2   0.572955418
## 14490        3        2   0.572926828
## 14442        3        2   0.572825691
## 25436        3        4   0.572779396
## 16840        3        4   0.572736052
## 19096        3        4   0.572663110
## 14513        3        2   0.572656270
## 18803        3        4   0.572641383
## 20190        3        2   0.572565934
## 14663        3        2   0.572550537
## 15360        3        2   0.572531106
## 19693        3        4   0.572492533
## 14323        3        2   0.572459801
## 14659        3        2   0.572445489
## 14824        3        2   0.572390858
## 14468        3        2   0.572378272
## 19973        3        2   0.572352539
## 17701        3        4   0.572322002
## 15903        3        2   0.572267699
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```

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## 15266        3        2    0.572208379
## 25298        3        4    0.572136688
## 18604        3        4    0.572129608
## 17176        3        4    0.572113427
## 14655        3        2    0.572062821
## 17698        3        4    0.572039991
## 25289        3        4    0.572001188
## 17033        3        4    0.571978798
## 17027        3        4    0.571961910
## 19093        3        4    0.571953655
## 17184        3        4    0.571934766
## 14327        3        2    0.571567662
## 14465        3        2    0.571514288
## 18813        3        2    0.571224036
## 17702        3        4    0.571104730
## 18912        3        4    0.571054080
## 18057        3        4    0.570929277
## 17242        3        4    0.570926180
## 17160        3        4    0.570634083
## 17699        3        4    0.570484698
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## 19184        3        4    0.570298767
## 17222        3        4    0.570297029
## 23498        3        4    0.570238912
## 18675        3        2    0.570198454
## 25087        3        4    0.570192534
## 17129        3        4    0.570126390
## 14478        3        2    0.570114306
## 14504        3        2    0.570105517
## 14614        3        2    0.570105517
## 17258        3        4    0.570073419
## 17353        3        4    0.570069407
## 14906        3        2    0.570036897
## 17048        3        4    0.569966477
## 18903        3        4    0.569942290
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## 17132        3        4    0.569756799
## 18812        3        2    0.569729452
## 20057        3        2    0.569708311
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## 20188        3        2    0.569120277
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## 15238        3        2    0.568970003
## 14603        3        2    0.568944293
## 17127        3        4    0.568916544
## 15921        3        2    0.568863143
## 14349        3        2    0.568592886
## 14476        3        2    0.568435700
```

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## 19710      3        4   0.568431377
## 15227      3        2   0.568419745
## 14517      3        2   0.568414273
## 14519      3        2   0.568410095
## 25301      3        4   0.568371386
## 18906      3        4   0.568346959
## 14992      3        2   0.568116590
## 17053      3        4   0.568035183
## 25442      3        4   0.568029222
## 14547      3        2   0.567997442
## 14477      3        2   0.567972568
## 17052      3        4   0.567788586
## 14415      3        2   0.567783688
## 14571      3        2   0.567777843
## 19329      3        2   0.567723551
## 18458      3        4   0.567509617
## 16982      3        4   0.567380807
## 17253      3        4   0.567360758
## 17239      3        4   0.567359663
## 16975      3        4   0.567330145
## 17572      3        4   0.567307150
## 16974      3        4   0.567221039
## 17262      3        4   0.567081006
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## 18910      3        4   0.566725936
## 17814      3        4   0.566302703
## 25437      3        4   0.566063921
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## 15018      3        2   0.565408325
## 15347      3        2   0.565156980
## 15173      3        2   0.565143154
## 15355      3        2   0.565076342
## 20132      3        2   0.565026588
## 17185      3        4   0.565015810
## 18692      3        4   0.564900148
## 17161      3        4   0.564800079
## 14472      3        2   0.564768950
## 17290      3        4   0.564747945
## 17350      3        4   0.564672693
## 17168      3        4   0.564617267
## 17028      3        4   0.564583364
## 14413      3        2   0.564219585
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## 14975      3        2   0.563944064
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## 17782      3        4   0.563799105
## 16985      3        4   0.563721377
## 14600      3        2   0.563538863
## 19974      3        2   0.563495430
## 14514      3        2   0.563352189
## 19100      3        2   0.563322284
## 14607      3        2   0.563158443
## 14515      3        2   0.563070089
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```

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## 18852        3        4   0.562784248
## 17142        3        4   0.562453405
## 18247        3        4   0.562450443
## 25287        3        4   0.562420574
## 17158        3        4   0.562396103
## 17261        3        4   0.562033314
## 14879        3        2   0.561624288
## 14586        3        2   0.561623381
## 14417        3        2   0.560931457
## 14454        3        2   0.560931457
## 18972        3        4   0.560918088
## 15852        3        2   0.560889976
## 20192        3        2   0.560841999
## 19694        3        4   0.560797140
## 18693        3        4   0.560777325
## 17263        3        4   0.560768015
## 17348        3        4   0.560755992
## 18674        3        2   0.560745857
## 17438        3        4   0.560704250
## 17873        3        4   0.560684130
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## 17356        3        4   0.560532860
## 17208        3        4   0.560494902
## 18058        3        4   0.560477635
## 25451        3        4   0.560476985
## 25448        3        4   0.560461752
## 17870        3        4   0.560452051
## 19972        3        2   0.560452027
## 18716        3        4   0.560430122
## 25447        3        4   0.560404057
## 17592        3        4   0.560399251
## 17299        3        4   0.560339054
## 19183        3        4   0.560306530
## 17183        3        4   0.560285567
## 18853        3        4   0.560257382
## 17371        3        4   0.560211450
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## 19795        3        2   0.560135979
## 19285        3        4   0.560062806
## 14228        3        2   0.560051728
## 18741        3        4   0.560043559
## 19800        3        2   0.560027988
## 19804        3        2   0.560008750
## 14822        3        2   0.559997856
## 14638        3        2   0.559996705
## 14439        3        2   0.559992326
## 15598        3        2   0.559991600
## 19652        3        2   0.559991600
## 18904        3        4   0.559956314
## 25452        3        4   0.559942238
## 18060        3        4   0.559925806
## 14591        3        2   0.559910276
## 14262        3        2   0.559881306
```

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## 17244        3        4   0.559843621
## 17203        3        4   0.559768461
## 14627        3        2   0.559749844
## 14639        3        2   0.559638082
## 25444        3        4   0.559635696
## 17436        3        4   0.559591285
## 19807        3        2   0.559569486
## 19648        3        2   0.559515150
## 25455        3        4   0.559496578
## 15244        3        2   0.559443625
## 14846        3        2   0.559393455
## 17057        3        4   0.559374989
## 17581        3        4   0.559278506
## 14410        3        2   0.559271719
## 14225        3        2   0.559169587
## 19799        3        2   0.559147380
## 18168        3        4   0.559101714
## 17250        3        4   0.558683293
## 14804        3        2   0.558625583
## 25434        3        4   0.558529528
## 17202        3        4   0.558520796
## 18801        3        4   0.558476813
## 17224        3        4   0.558455332
## 17503        3        4   0.558433784
## 18248        3        4   0.558406087
## 18035        3        4   0.558317464
## 17282        3        4   0.558283027
## 18055        3        4   0.558208830
## 14629        3        2   0.558153546
## 19284        3        4   0.558145134
## 17281        3        4   0.558106765
## 17463        3        4   0.557867808
## 17355        3        4   0.557842583
## 15356        3        2   0.557839936
## 18169        3        4   0.557746338
## 14542        3        2   0.557555372
## 19797        3        2   0.557552979
## 15853        3        2   0.557551350
## 19852        3        2   0.557536782
## 14501        3        2   0.557452852
## 17442        3        4   0.557410334
## 19708        3        4   0.557405912
## 17166        3        4   0.557404202
## 14445        3        2   0.557384686
## 14637        3        2   0.557298203
## 17325        3        4   0.557269085
## 15354        3        2   0.557261976
## 14444        3        2   0.557116072
## 17207        3        4   0.557072804
## 18742        3        4   0.556941494
## 19975        3        2   0.556896439
## 14652        3        2   0.556874429
## 19412        3        4   0.556788681
## 18563        3        4   0.556713737
```

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## 25441    3    4    0.556625680
## 14432    3    2    0.556617397
## 20195    3    2    0.556215827
## 17437    3    4    0.556175703
## 17432    3    4    0.556081150
## 14456    3    2    0.556047310
## 25446    3    4    0.555957086
## 17175    3    4    0.555949984
## 14973    3    2    0.555926011
## 17347    3    4    0.555904197
## 17240    3    4    0.555795815
## 17865    3    4    0.555729447
## 14254    3    2    0.555726178
## 14482    3    2    0.555616098
## 17372    3    4    0.555583722
## 17315    3    4    0.555292438
## 19803    3    2    0.555224833
## 25440    3    4    0.555121359
## 17434    3    4    0.554961977
## 25445    3    4    0.554913626
## 17243    3    4    0.554902838
## 17872    3    4    0.554840896
## 17941    3    4    0.554631694
## 18691    3    4    0.554612615
## 17841    3    4    0.554589882
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## 18913    3    4    0.554504052
## 17026    3    4    0.554370977
## 18811    3    2    0.554256017
## 17874    3    4    0.554208976
## 15237    3    2    0.553981386
## 19101    3    2    0.553967005
## 16090    3    2    0.553906222
## 18016    3    2    0.553882139
## 14252    3    2    0.553845418
## 14868    3    2    0.553540925
## 17763    3    4    0.553521482
## 17697    3    4    0.553503235
## 17172    3    4    0.553451248
## 17264    3    4    0.553389717
## 14500    3    2    0.553287931
## 17296    3    4    0.553235392
## 17200    3    4    0.553232516
## 14463    3    2    0.553213330
## 14460    3    2    0.553211617
## 14516    3    2    0.553207952
## 14267    3    2    0.553183445
## 14590    3    2    0.553148359
## 23306    3    4    0.553082809
## 14662    3    2    0.553054076
## 25299    3    4    0.552999602
## 18914    3    4    0.552949521
## 17580    3    4    0.552920609
## 14441    3    2    0.552809644
```

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## 14592    3    2    0.552795794
## 14881    3    2    0.552677826
## 14414    3    2    0.552541911
## 17451    3    4    0.552374157
## 17729    3    4    0.552217096
## 17529    3    4    0.551911613
## 16977    3    4    0.551801688
## 17177    3    4    0.551779975
## 20133    3    2    0.551763275
## 17251    3    4    0.551742361
## 14587    3    2    0.551734609
## 14535    3    2    0.551565701
## 14806    3    2    0.551278106
## 16031    3    2    0.551204658
## 17700    3    4    0.551184581
## 19653    3    2    0.550996367
## 18911    3    4    0.550967567
## 19185    3    4    0.550961398
## 16034    3    2    0.550931713
## 25450    3    4    0.550926866
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## 16030    3    2    0.550557746
## 23075    3    4    0.550544877
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## 14583    3    2    0.550221842
## 17249    3    4    0.549352169
## 25456    3    4    0.549217215
## 14546    3    2    0.548985443
## 14311    3    2    0.548664455
## 18673    3    2    0.548453757
## 25297    3    4    0.548298861
## 14807    3    2    0.548287435
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## 26004    3    4    0.547768680
## 14409    3    2    0.547764442
## 18189    3    4    0.547701465
## 14636    3    2    0.547603876
## 17196    3    4    0.547443110
## 19650    3    2    0.547375720
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## 14635    3    2    0.547350170
## 19802    3    2    0.547294902
## 17283    3    4    0.547275204
## 26005    3    4    0.547275192
## 17326    3    4    0.547272472
## 17594    3    4    0.547242856
## 26012    3    4    0.547204068
## 17730    3    4    0.547030444
## 17732    3    4    0.547023818
## 17235    3    2    0.546927773
## 17875    3    4    0.546927196
```

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## 14339          3          2    0.546884573
## 19642          3          2    0.546837395
## 17565          3          4    0.546833012
## 17234          3          2    0.546789705
## 17731          3          4    0.546744817
## 19559          3          2    0.546641172
## 14771          3          2    0.546617181
## 26007          3          4    0.546577991
## 19640          3          2    0.546515682
## 17392          3          4    0.546503755
## 14905          3          2    0.546440174
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## 22257          3          4    0.546371897
## 15119          3          2    0.546334295
## 14491          3          2    0.546327658
## 18744          3          4    0.546174859
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## 17571          3          4    0.545996822
## 14331          3          2    0.545990358
## 17265          3          4    0.545944928
## 17846          3          4    0.545944928
## 25453          3          4    0.545899434
## 17257          3          4    0.545893092
## 17201          3          4    0.545799309
## 17703          3          2    0.545743511
## 14419          3          2    0.545540353
## 18171          3          4    0.545527788
## 14902          3          2    0.545367543
## 18830          3          4    0.545320424
## 19651          3          2    0.545291236
## 19801          3          2    0.545103989
## 19798          3          2    0.545082860
## 17467          3          4    0.545025635
## 17300          3          4    0.544999125
## 14343          3          2    0.544987575
## 16033          3          2    0.544815411
## 14796          3          2    0.544747759
## 16032          3          2    0.544632640
## 14805          3          2    0.544500852
## 20056          3          2    0.544496920
## 14461          3          2    0.544473972
## 14485          3          2    0.544471158
## 14389          3          2    0.544269024
## 19968          3          2    0.544207136
## 18916          3          4    0.544183881
## 25353          3          4    0.544161708
## 19971          3          2    0.544161443
## 17298          3          4    0.544057958
## 14903          3          2    0.543922423
## 14227          3          2    0.543853969
## 17162          3          4    0.543835144
## 19126          3          4    0.543716115
## 17393          3          4    0.543330477
## 17468          3          4    0.543183384
```

```
## 19328          3          2    0.543018665
## 17349          3          4    0.542944000
## 14534          3          2    0.542914399
## 19709          3          4    0.542804203
## 14528          3          2    0.542633810
## 19558          3          2    0.542632522
## 17357          3          4    0.542488673
## 17328          3          4    0.542345754
## 15016          3          2    0.542340101
## 17256          3          4    0.542337040
## 17444          3          4    0.542257883
## 22254          3          4    0.542228099
## 17465          3          4    0.542218274
## 17457          3          4    0.542202156
## 14904          3          2    0.542201780
## 14388          3          2    0.542135009
## 17439          3          4    0.542120883
## 26008          3          4    0.542118993
## 14653          3          2    0.541955375
## 14226          3          2    0.541786429
## 17878          3          4    0.541608936
## 17900          3          4    0.541608936
## 19809          3          2    0.541415395
## 18056          3          4    0.541215513
## 15175          3          2    0.541195027
## 21359          3          2    0.541064801
## 15070          3          2    0.541002058
## 17104          3          4    0.540786292
## 14348          3          2    0.540730798
## 17105          3          4    0.540620534
## 18034          3          4    0.540476001
## 17443          3          4    0.540396299
## 19649          3          2    0.540381542
## 14406          3          2    0.540356374
## 14430          3          2    0.540347589
## 18170          3          4    0.540220848
## 14332          3          2    0.540042283
## 14168          3          2    0.539955148
## 15198          3          2    0.539788043
## 17324          3          4    0.539783862
## 17748          3          2    0.539728011
## 14325          3          2    0.539666412
## 14530          3          2    0.539629064
## 14418          3          2    0.539274730
## 18802          3          4    0.538921554
## 17227          3          4    0.538817902
## 17641          3          4    0.538732046
## 17899          3          4    0.538732046
## 18061          3          4    0.538611697
## 18915          3          4    0.538023223
## 17617          3          4    0.537717949
## 17772          3          4    0.537659965
## 17329          3          4    0.537641781
## 18864          3          4    0.537506154
```

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## 15069        3        2    0.537416371
## 14660        3        2    0.537245505
## 15935        3        2    0.537030064
## 17254        3        4    0.536864924
## 25438        3        4    0.536749838
## 19851        3        2    0.536413984
## 17845        3        4    0.536214082
## 19969        3        2    0.536159401
## 14299        3        2    0.536116425
## 17847        3        4    0.536082225
## 14464        3        2    0.536017650
## 26009        3        4    0.535998335
## 14518        3        2    0.535995640
## 15152        3        2    0.535995009
## 14974        3        2    0.535960105
## 19806        3        2    0.535703830
## 17640        3        4    0.534733129
## 26006        3        4    0.534174663
## 17728        3        4    0.534047457
## 17255        3        4    0.533943734
## 17351        3        4    0.533921214
## 17128        3        4    0.533838794
## 17462        3        4    0.533562119
## 17518        3        4    0.533472938
## 17643        3        4    0.533463996
## 25351        3        4    0.533202754
## 17517        3        4    0.533021649
## 17674        3        4    0.533020685
## 14483        3        2    0.532922084
## 22256        3        4    0.532835559
## 14234        3        2    0.532611442
## 17377        3        4    0.532610642
## 14566        3        2    0.532596847
## 19399        3        2    0.532382764
## 17327        3        4    0.532335286
## 14548        3        2    0.532318098
## 19124        3        4    0.532270158
## 14307        3        2    0.532196262
## 14233        3        2    0.532196251
## 14764        3        2    0.532082743
## 19646        3        2    0.532031440
## 14379        3        2    0.532028587
## 18063        3        4    0.531963340
## 18918        3        4    0.531898572
## 14488        3        2    0.531894474
## 17335        3        4    0.531787510
## 14253        3        2    0.531777187
## 17912        3        4    0.531721498
## 14405        3        2    0.531646796
## 15068        3        2    0.531605790
## 17440        3        4    0.531544986
## 14458        3        2    0.531438837
## 17771        3        4    0.531385574
## 24030        3        4    0.531384396
```

1000

```
## 17334          3          4   0.531382067
## 14318          3          2   0.531299168
## 14582          3          2   0.531286258
## 20819          3          2   0.531182389
## 24633          3          4   0.531179713
## 26029          3          4   0.531169927
## 17131          3          4   0.531156534
## 19397          3          2   0.531105769
## 17019          3          2   0.531054539
## 19641          3          2   0.531015772
## 17466          3          4   0.530880928
## 15633          3          2   0.530875645
## 26023          3          4   0.530861109
## 26031          3          4   0.530861109
## 15632          3          2   0.530846169
## 15015          3          2   0.530271718
## 14093          3          2   0.530210318
## 14091          3          2   0.529785701
## 19482          3          2   0.529663919
## 17322          3          4   0.529633414
## 17644          3          4   0.529470296
## 20074          3          4   0.529260427
## 14326          3          2   0.529126312
## 17435          3          4   0.529114399
## 25352          3          4   0.529065498
## 17595          3          4   0.529063402
## 17901          3          4   0.528975679
## 17877          3          4   0.528876926
## 17148          3          4   0.528813204
## 18036          3          4   0.528659494
## 14229          3          2   0.528557786
## 14378          3          2   0.528528395
## 17149          3          4   0.528482893
## 18062          3          4   0.528448658
## 17510          3          4   0.528436575
## 14232          3          2   0.528403669
## 14095          3          2   0.528374687
## 14776          3          2   0.528196850
## 19560          3          2   0.528120857
## 14377          3          2   0.528106260
## 19796          3          2   0.528099821
## 14498          3          2   0.528036355
## 14295          3          2   0.527808977
## 26028          3          4   0.527603762
## 17566          3          4   0.527509617
## 20345          3          4   0.527420954
## 17358          3          4   0.527043826
## 26011          3          4   0.526894093
## 14408          3          2   0.526817986
## 14602          3          2   0.526695223
## 19643          3          2   0.526676155
## 25454          3          4   0.526651744
## 19480          3          2   0.526579759
## 15080          3          2   0.526573391
```

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## 19645      3       2   0.526486985
## 19288      3       4   0.526464653
## 18971      3       4   0.526424238
## 22260      3       4   0.526257440
## 17302      3       4   0.526224036
## 14376      3       2   0.526172687
## 15171      3       2   0.526134057
## 14780      3       2   0.526065196
## 14380      3       2   0.526053296
## 17913      3       4   0.526018418
## 17602      3       4   0.525992193
## 14526      3       2   0.525907072
## 17220      3       4   0.525821001
## 14761      3       2   0.525764686
## 17591      3       4   0.525714983
## 14486      3       2   0.525655839
## 17034      3       4   0.525647440
## 14438      3       2   0.525643900
## 18814      3       2   0.525606954
## 14814      3       2   0.525100934
## 26010      3       4   0.525097248
## 17331      3       4   0.525094726
## 19337      3       4   0.524984079
## 19338      3       4   0.524817644
## 26027      3       4   0.524675355
## 17441      3       4   0.524301627
## 14266      3       2   0.524155579
## 14772      3       2   0.524040493
## 17370      3       4   0.524016259
## 25449      3       4   0.524007430
## 14319      3       2   0.523933773
## 14396      3       2   0.523933618
## 14803      3       2   0.523787374
## 17195      3       4   0.523588335
## 19647      3       2   0.523561509
## 19243      3       4   0.523511334
## 14321      3       2   0.523205386
## 20810      3       2   0.523124268
## 14329      3       2   0.523089024
## 14336      3       2   0.523032202
## 19564      3       2   0.522976837
## 14765      3       2   0.522971191
## 14567      3       2   0.522904760
## 19024      3       2   0.522888610
## 14407      3       2   0.522819348
## 18917      3       4   0.522791191
## 17221      3       4   0.522499465
## 26032      3       4   0.522076049
## 14457      3       2   0.521863250
## 14459      3       2   0.521831664
## 18366      3       4   0.521825643
## 14549      3       2   0.521804009
## 26606      3       2   0.521756763
## 17599      3       2   0.520663595
```

```
## 14381       3       2    0.520660008
## 14777       3       2    0.520627144
## 14767       3       2    0.520595321
## 15822       3       2    0.520552421
## 14779       3       2    0.520441212
## 18174       3       4    0.520413575
## 19854       3       4    0.520398361
## 17330       3       4    0.520374703
## 17520       3       4    0.520370309
## 19481       3       2    0.520350824
## 17204       3       4    0.520338560
## 19264       3       4    0.520248543
## 14207       3       2    0.520219822
## 17323       3       4    0.520068662
## 16091       3       2    0.519956536
## 17130       3       4    0.519881789
## 14634       3       2    0.519874122
## 14475       3       2    0.519748403
## 14545       3       2    0.519058134
## 26021       3       4    0.518976881
## 19654       3       4    0.518675070
## 19561       3       2    0.518493748
## 21884       3       4    0.518490310
## 17522       3       4    0.518314171
## 18492       3       4    0.518282144
## 19805       3       2    0.518281198
## 18335       3       4    0.518277316
## 18065       3       4    0.518265726
## 14170       3       2    0.518045145
## 14212       3       2    0.518019240
## 19282       3       2    0.517994383
## 19498       3       2    0.517984192
## 19245       3       4    0.517944789
## 17603       3       4    0.517818067
## 19576       3       4    0.517748851
## 18064       3       4    0.517728456
## 14427       3       2    0.517715357
## 19401       3       2    0.517714234
## 14425       3       2    0.517691189
## 14564       3       2    0.517683609
## 14076       3       2    0.517663767
## 20911       3       4    0.517657996
## 14214       3       2    0.517557253
## 14756       3       2    0.517498531
## 13996       3       2    0.517494458
## 14775       3       2    0.517450196
## 15584       3       2    0.517388469
## 17747       3       4    0.517380082
## 14770       3       2    0.517332631
## 14219       3       2    0.517309104
## 14480       3       2    0.517298704
## 17397       3       4    0.517235919
## 15445       3       2    0.517016063
## 14758       3       2    0.516904138
```

```
## 14848        3         2    0.516887009
## 19810        3         2    0.516765380
## 15713        3         2    0.516759266
## 13924        3         2    0.516731872
## 17569        3         4    0.516589158
## 19808        3         2    0.516567288
## 14231        3         2    0.516547589
## 19402        3         2    0.516545167
## 14249        3         2    0.516464727
## 14759        3         2    0.516460161
## 17559        3         4    0.516337464
## 16339        3         2    0.516314321
## 17734        3         4    0.516307921
## 22255        3         4    0.516306139
## 17297        3         4    0.516260353
## 17770        3         4    0.516251136
## 17575        3         4    0.516221115
## 14171        3         2    0.516206656
## 17727        3         4    0.516095551
## 14211        3         2    0.516079264
## 14161        3         2    0.515975314
## 17831        3         4    0.515954519
## 19503        3         4    0.515947518
## 17524        3         4    0.515931489
## 17394        3         4    0.515822903
## 17648        3         4    0.515707052
## 17337        3         4    0.515676293
## 17876        3         4    0.515587398
## 17411        3         4    0.515417302
## 14398        3         2    0.515343362
## 17375        3         4    0.515330999
## 18743        3         4    0.515301807
## 14242        3         2    0.515270418
## 17579        3         4    0.515224816
## 19557        3         2    0.515172429
## 14338        3         2    0.514812862
## 18908        3         4    0.514639099
## 14248        3         2    0.514551703
## 17523        3         4    0.514516114
## 14247        3         2    0.514396329
## 21746        3         2    0.514050350
## 14330        3         2    0.514020459
## 14375        3         2    0.513742478
## 13997        3         2    0.513736706
## 20347        3         4    0.513712648
## 14259        3         2    0.513644628
## 20348        3         4    0.513637417
## 14487        3         2    0.513571601
## 26607        3         2    0.513521970
## 14246        3         2    0.513443216
## 14105        3         2    0.513382013
## 17464        3         4    0.513241413
## 17911        3         4    0.513199963
## 14313        3         2    0.513167586
```

```
## 19265          3          4    0.513147345
## 19122          3          4    0.513073590
## 17903          3          4    0.513073329
## 14474          3          2    0.513060087
## 14328          3          2    0.513055300
## 17519          3          4    0.512882353
## 14769          3          2    0.512757784
## 20811          3          2    0.512755694
## 17676          3          4    0.512701740
## 15556          3          2    0.512676923
## 19283          3          2    0.511707043
## 14372          3          2    0.511669767
## 14305          3          2    0.511612797
## 14573          3          2    0.511179243
## 17374          3          4    0.511033202
## 13925          3          2    0.511025707
## 26030          3          4    0.510910743
## 17193          3          4    0.510861183
## 17232          3          2    0.510660030
## 14601          3          2    0.510505181
## 17561          3          4    0.510212853
## 14206          3          2    0.509794447
## 16981          3          4    0.509604548
## 14395          3          2    0.509237746
## 15061          3          2    0.508965810
## 20381          3          2    0.508951498
## 21882          3          4    0.508932387
## 14869          3          2    0.508896835
## 14297          3          2    0.508866495
## 14762          3          2    0.508809898
## 26020          3          4    0.508806370
## 17902          3          4    0.508725788
## 19563          3          2    0.508720883
## 14420          3          2    0.508635378
## 17301          3          4    0.508622703
## 14489          3          2    0.508591589
## 14341          3          2    0.508574583
## 17593          3          4    0.508566186
## 14426          3          2    0.508565722
## 14258          3          2    0.508563545
## 19125          3          4    0.508425838
## 17284          3          4    0.508387785
## 13979          3          2    0.508268165
## 17499          3          4    0.508258310
## 14481          3          2    0.507558489
## 17338          3          4    0.507495835
## 17576          3          4    0.507272569
## 17383          3          4    0.507256386
## 17496          3          4    0.507121582
## 17498          3          4    0.506893806
## 17645          3          4    0.506893806
## 18365          3          4    0.506693348
## 17642          3          4    0.506477936
## 14397          3          2    0.506025581
```

```
## 18336      3      4   0.505908226
## 19085      3      4   0.505879885
## 17675      3      4   0.505723624
## 18173      3      4   0.505513164
## 14243      3      2   0.505498280
## 17604      3      4   0.505454796
## 18172      3      4   0.505442649
## 14137      3      2   0.505201287
## 14094      3      2   0.504892242
## 19483      3      2   0.504647700
## 22259      3      4   0.504538002
## 18919      3      4   0.504317776
## 14138      3      2   0.504287685
## 26024      3      4   0.504237761
## 18982      3      4   0.504025598
## 17906      3      4   0.504013641
## 18066      3      4   0.504013641
## 14169      3      2   0.503542135
## 14431      3      2   0.503496302
## 19562      3      2   0.503354976
## 17677      3      4   0.503253249
## 18088      3      4   0.503216432
## 14077      3      2   0.503138019
## 17600      3      4   0.503093088
## 14256      3      2   0.502977575
## 17791      3      4   0.502959650
## 20210      3      4   0.502937646
## 17369      3      4   0.502860650
## 20014      3      4   0.502828115
## 14244      3      2   0.502821737
## 17368      3      4   0.502804876
## 17650      3      4   0.502804650
## 17387      3      4   0.502784666
## 17928      3      4   0.502674751
## 14303      3      2   0.502576651
## 18983      3      4   0.502570805
## 14581      3      2   0.502524142
## 20346      3      4   0.502378280
## 14563      3      2   0.502366234
## 14155      3      2   0.502340796
## 14437      3      2   0.502334492
## 17389      3      4   0.502308815
## 22993      3      4   0.502253801
## 21883      3      4   0.502239713
## 18001      3      4   0.502239549
## 15622      3      2   0.502234853
## 19967      3      2   0.502216503
## 19242      3      4   0.502212262
## 17445      3      4   0.502171839
## 20377      3      2   0.502116147
## 17390      3      4   0.502081638
## 14167      3      2   0.502065709
## 14103      3      2   0.502038591
## 17527      3      4   0.502035911
```

```
## 14309        3        2    0.502008270
## 14240        3        2    0.501937807
## 20376        3        2    0.501811170
## 26768        3        2    0.501667167
## 14364        3        2    0.501659263
## 21117        3        4    0.501610352
## 17789        3        4    0.501406788
## 19484        3        2    0.501324242
## 14763        3        2    0.501286143
## 18991        3        4    0.501280623
## 14202        3        2    0.501234334
## 19403        3        2    0.501170486
## 14069        3        2    0.501029007
## 14157        3        2    0.500913601
## 14866        3        2    0.500835344
## 14766        3        2    0.500772619
## 14204        3        2    0.500730517
## 18560        3        2    0.500678439
## 14755        3        2    0.500659460
## 14524        3        2    0.500612018
## 17735        3        4    0.500463042
## 20207        3        4    0.500080679
## 23297        3        4    0.499993670
## 14333        3        2    0.499902195
## 19390        3        4    0.499861433
## 18662        3        4    0.499854151
## 14166        3        2    0.499852571
## 14261        3        2    0.499832804
## 17333        3        4    0.499804049
## 19476        3        4    0.499779122
## 14078        3        2    0.499687051
## 19286        3        4    0.499640848
## 14751        3        2    0.499567326
## 17205        3        4    0.499522026
## 17521        3        4    0.499497533
## 17233        3        2    0.499257638
## 19477        3        4    0.499226740
## 14163        3        2    0.499181460
## 22992        3        4    0.499179199
## 14752        3        2    0.498441579
## 14241        3        2    0.498381150
## 21272        3        2    0.498357023
## 17396        3        4    0.498335141
## 14304        3        2    0.498279279
## 13976        3        2    0.498178204
## 14000        3        2    0.498122273
## 14257        3        2    0.498113036
## 13923        3        2    0.498028744
## 14156        3        2    0.497881254
## 21144        3        2    0.497840163
## 15621        3        2    0.497793929
## 19281        3        2    0.497788330
## 26767        3        2    0.497783203
## 20378        3        2    0.497598879
```

```
## 14239      3        2    0.497524278
## 14007      3        2    0.497400495
## 17646      3        4    0.497123289
## 17388      3        4    0.497037550
## 17391      3        4    0.496981453
## 18210      3        4    0.496933813
## 17905      3        4    0.496829573
## 17336      3        4    0.496679246
## 17501      3        4    0.496372055
## 24780      3        4    0.496325944
## 19398      3        2    0.496288894
## 19853      3        2    0.496234912
## 14499      3        2    0.496028523
## 18985      3        4    0.496027469
## 15067      3        2    0.496013539
## 17553      3        4    0.496011482
## 18952      3        4    0.495953590
## 19280      3        2    0.495613502
## 18990      3        4    0.495609882
## 14255      3        2    0.495454948
## 20318      3        2    0.495342575
## 14308      3        2    0.495118731
## 20208      3        4    0.495112565
## 20675      3        4    0.495010092
## 17598      3        2    0.494997951
## 18988      3        4    0.494907730
## 14565      3        2    0.494849884
## 26026      3        4    0.494803002
## 14213      3        2    0.494797051
## 17563      3        4    0.494674969
## 19400      3        2    0.494663236
## 18920      3        4    0.494632336
## 17535      3        4    0.494533643
## 18987      3        4    0.494476459
## 14314      3        2    0.494446027
## 17373      3        4    0.494408633
## 21885      3        4    0.494360566
## 14052      3        2    0.494260425
## 16583      3        2    0.494211435
## 17446      3        4    0.493558744
## 24866      3        4    0.493317885
## 14159      3        2    0.493101788
## 17551      3        4    0.492365636
## 17321      3        4    0.492263987
## 17376      3        4    0.492084856
## 17745      3        4    0.492015096
## 17573      3        4    0.491852549
## 17708      3        4    0.491498120
## 15014      3        2    0.491464038
## 14335      3        2    0.491459653
## 14075      3        2    0.491345246
## 14473      3        2    0.491319798
## 14495      3        2    0.491290794
## 13956      3        2    0.490576947
```

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## 13978        3        2    0.489899811
## 14205        3        2    0.489848504
## 14337        3        2    0.489715315
## 19485        3        2    0.489664645
## 14525        3        2    0.489619588
## 14778        3        2    0.489619003
## 14768        3        2    0.489326905
## 19287        3        4    0.489159155
## 18086        3        4    0.488825688
## 18337        3        4    0.488813587
## 14342        3        2    0.488750697
## 20812        3        2    0.488542132
## 14006        3        2    0.487512659
## 19327        3        2    0.487078287
## 20903        3        4    0.487013237
## 20380        3        2    0.486926015
## 18986        3        4    0.486923979
## 19553        3        4    0.486902385
## 17709        3        4    0.486822658
## 17931        3        4    0.486822658
## 14760        3        2    0.486776852
## 19406        3        4    0.486576504
## 17448        3        4    0.486549148
## 20075        3        4    0.486534910
## 18338        3        4    0.486519698
## 19339        3        4    0.486452420
## 17504        3        4    0.486434389
## 19396        3        2    0.486401526
## 14203        3        2    0.486395515
## 23328        3        4    0.486388362
## 17550        3        4    0.486386669
## 19644        3        2    0.486363656
## 14092        3        2    0.486328470
## 14306        3        2    0.486288618
## 14192        3        2    0.485966792
## 14090        3        2    0.485916718
## 18068        3        4    0.485826165
## 20372        3        2    0.485811459
## 15855        3        2    0.485757810
## 19271        3        2    0.485635837
## 14004        3        2    0.485547302
## 20906        3        4    0.485497663
## 13999        3        2    0.485468690
## 14293        3        2    0.485390886
## 17647        3        4    0.485347478
## 13954        3        2    0.485283299
## 14290        3        2    0.485265380
## 21887        3        4    0.485256017
## 17578        3        4    0.485239539
## 17577        3        4    0.485180575
## 14245        3        2    0.485170345
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## 17450        3        4    0.484932889
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```

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## 17792        3        4   0.483995437
## 21889        3        4   0.483898588
## 19630        3        4   0.483591861
## 19275        3        2   0.483497740
## 21573        3        4   0.483454321
## 18150        3        4   0.483371123
## 14235        3        2   0.483367135
## 18295        3        4   0.483274160
## 14523        3        2   0.483244432
## 14238        3        2   0.483149839
## 19276        3        2   0.483130042
## 14404        3        2   0.483089736
## 14774        3        2   0.482997721
## 20904        3        4   0.482916231
## 17654        3        4   0.482864017
## 17459        3        4   0.482851648
## 20375        3        2   0.482848624
## 14479        3        2   0.482800701
## 15966        3        2   0.482791708
## 14053        3        2   0.482712899
## 13977        3        2   0.482667641
## 17651        3        4   0.482187516
## 14230        3        2   0.482026842
## 14191        3        2   0.481813720
## 14522        3        2   0.481754602
## 16164        3        2   0.481587220
## 18087        3        4   0.481353456
## 17567        3        4   0.481265451
## 26025        3        4   0.481203719
## 17998        3        4   0.480931291
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## 14580        3        2   0.480306885
## 17946        3        4   0.480258908
## 14754        3        2   0.480256771
## 18334        3        4   0.480199129
## 17447        3        4   0.480120283
## 17314        3        4   0.480105706
## 17511        3        2   0.479895377
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## 14291        3        2   0.479867457
## 13994        3        2   0.479860763
## 17461        3        4   0.479805888
## 24779        3        4   0.479714089
## 19629        3        4   0.479701749
## 19274        3        2   0.479526318
## 18989        3        4   0.479311273
## 17526        3        4   0.478957144
## 19631        3        4   0.478513399
## 21888        3        4   0.478391489
## 18071        3        4   0.478267670
## 19405        3        4   0.478141879
## 17500        3        4   0.477664817
```

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## 17525          3          4    0.477282834
## 14520          3          2    0.477147853
## 19404          3          4    0.477139378
## 17564          3          4    0.477053604
## 17601          3          4    0.477048936
## 22258          3          4    0.477007856
## 17930          3          4    0.476947126
## 25050          3          4    0.476895406
## 20317          3          2    0.476774298
## 20373          3          2    0.476417834
## 17231          3          2    0.476115192
## 18562          3          2    0.476012079
## 17505          3          4    0.475591301
## 14320          3          2    0.475248977
## 14334          3          2    0.475138115
## 14162          3          2    0.475127651
## 18953          3          4    0.474949337
## 17649          3          4    0.474836896
## 13995          3          2    0.474801630
## 18561          3          2    0.474799498
## 14288          3          2    0.474654689
## 20370          3          2    0.474583814
## 14005          3          2    0.474556195
## 14001          3          2    0.474143637
## 14002          3          2    0.474086947
## 17749          3          4    0.473999225
## 14494          3          2    0.473863416
## 13998          3          2    0.473650801
## 14864          3          2    0.473516668
## 24383          3          4    0.472649628
## 14394          3          2    0.472036568
## 20379          3          2    0.471944335
## 14959          3          2    0.471695660
## 14750          3          2    0.471465058
## 17653          3          4    0.471049527
## 18089          3          4    0.471008031
## 14424          3          2    0.470862137
## 20905          3          4    0.470627947
## 18209          3          4    0.470289549
## 14237          3          2    0.470282406
## 17230          3          2    0.470164483
## 21143          3          2    0.469968683
## 20209          3          4    0.469954674
## 17832          3          4    0.469896522
## 17929          3          4    0.469766599
## 19980          3          4    0.469447879
## 20908          3          4    0.469408727
## 17775          3          4    0.469257282
## 19577          3          4    0.469026032
## 17671          3          4    0.468938868
## 26329          3          4    0.468915103
## 14152          3          2    0.468648373
```

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## 13968      3      2   0.468396782
## 17455      3      2   0.468277276
## 13967      3      2   0.468271662
## 13939      3      2   0.468267966
## 26769      3      2   0.468257670
## 20909      3      4   0.468101870
## 14082      3      2   0.468086215
## 14142      3      2   0.468075392
## 13969      3      2   0.468011891
## 15066      3      2   0.467845107
## 20466      3      2   0.467664315
## 15625      3      2   0.467530256
## 17826      3      4   0.467491763
## 15478      3      2   0.467406974
## 14363      3      2   0.467345019
## 17774      3      4   0.467145562
## 15271      3      2   0.467142709
## 17829      3      4   0.467104934
## 14151      3      2   0.467049289
## 20058      3      4   0.467008678
## 17607      3      4   0.466858136
## 14141      3      2   0.466551480
## 20366      3      2   0.466324575
## 14197      3      2   0.466197663
## 14118      3      2   0.465858040
## 14747      3      2   0.465837346
## 18005      3      4   0.465754267
## 21639      3      4   0.465692700
## 18231      3      4   0.465529281
## 13975      3      2   0.465286738
## 18332      3      4   0.465270146
## 18085      3      4   0.465267494
## 21886      3      4   0.465242937
## 17773      3      4   0.465222289
## 19791      3      4   0.465222289
## 17733      3      4   0.465147977
## 17229      3      2   0.465099768
## 17574      3      4   0.464882623
## 13970      3      2   0.464707131
## 14367      3      2   0.464333374
## 14044      3      2   0.464303673
## 14493      3      2   0.464176892
## 14435      3      2   0.464123462
## 14302      3      2   0.464060253
## 17556      3      4   0.464027211
## 19978      3      4   0.463950493
## 14366      3      2   0.463909322
## 14153      3      2   0.463770969
## 26022      3      4   0.463710396
## 14374      3      2   0.463637338
## 17530      3      4   0.463539205
## 19270      3      2   0.462965839
## 22137      3      4   0.462881448
## 17228      3      2   0.462865094
```

```
## 19408          3          4   0.462842410
## 14521          3          2   0.462809736
## 17840          3          4   0.462515993
## 15624          3          2   0.462495264
## 17582          3          4   0.462444615
## 14046          3          2   0.462424753
## 17554          3          4   0.462423607
## 14070          3          2   0.462422227
## 23330          3          4   0.462360767
## 14492          3          2   0.462281673
## 14748          3          2   0.462214803
## 14753          3          2   0.461916054
## 20907          3          4   0.461355168
## 26770          3          2   0.460196421
## 19475          3          4   0.460194080
## 19279          3          2   0.460185432
## 22138          3          4   0.460117172
## 14370          3          2   0.460098741
## 14436          3          2   0.460044649
## 17267          3          2   0.459987525
## 17555          3          4   0.459855218
## 14292          3          2   0.459752203
## 19272          3          2   0.459697111
## 17506          3          4   0.458769703
## 14296          3          2   0.458763667
## 14865          3          2   0.458620255
## 17827          3          4   0.458601275
## 14527          3          2   0.457693989
## 17332          3          4   0.457569111
## 19976          3          4   0.457429451
## 14210          3          2   0.457251071
## 13873          3          2   0.457229164
## 14369          3          2   0.456620602
## 17460          3          4   0.456483678
## 14065          3          2   0.456476340
## 14744          3          2   0.456217434
## 17672          3          4   0.455736719
## 17609          3          4   0.455612217
## 17828          3          4   0.455550568
## 19127          3          4   0.455491468
## 19340          3          4   0.455485023
## 17560          3          4   0.455304702
## 14045          3          2   0.454517188
## 14644          3          2   0.454308209
## 13940          3          2   0.454290724
## 19277          3          2   0.454192270
## 14158          3          2   0.454150382
## 19273          3          2   0.454084625
## 20371          3          2   0.454035660
## 18067          3          4   0.453985394
## 14429          3          2   0.453974132
## 15718          3          2   0.453943098
## 20367          3          2   0.453417898
## 17531          3          4   0.452175661
```

```
## 17790        3        4   0.452075402
## 17407        3        4   0.451840619
## 22136        3        4   0.451780056
## 19407        3        4   0.451776520
## 17615        3        4   0.451472008
## 17652        3        4   0.451465352
## 18094        3        4   0.451239388
## 19792        3        4   0.451078939
## 20200        3        4   0.450953285
## 21240        3        4   0.450932027
## 17586        3        4   0.450785259
## 14224        3        2   0.450665642
## 17752        3        4   0.450578465
## 22616        3        4   0.450560554
## 14132        3        2   0.450455506
## 17744        3        4   0.450401044
## 18333        3        4   0.450383902
## 20363        3        2   0.450356672
## 13861        3        2   0.450285511
## 13964        3        2   0.450285026
## 14201        3        2   0.450182179
## 14062        3        2   0.450171914
## 18090        3        4   0.450086972
## 19847        3        4   0.450049364
## 17454        3        2   0.450001710
## 14066        3        2   0.449995873
## 19341        3        4   0.449904989
## 17910        3        4   0.449900102
## 17904        3        4   0.449831266
## 14746        3        2   0.449739670
## 14743        3        2   0.449648750
## 14150        3        2   0.449645532
## 14757        3        2   0.449605270
## 13974        3        2   0.449592148
## 13949        3        2   0.449320386
## 15858        3        2   0.449317599
## 18069        3        4   0.449134922
## 17858        3        4   0.449103996
## 13982        3        2   0.449099869
## 14251        3        2   0.449096572
## 13836        3        2   0.448858989
## 26330        3        4   0.448512743
## 17619        3        4   0.448359587
## 17830        3        4   0.448222279
## 14738        3        2   0.448208740
## 14595        3        2   0.448119207
## 20016        3        4   0.447994217
## 21239        3        4   0.447934326
## 15467        3        2   0.447928534
## 13966        3        2   0.447858838
## 17583        3        4   0.447792755
## 17621        3        4   0.447659709
## 14143        3        2   0.447401746
## 13983        3        2   0.447094032
```

```
## 17497          3          4   0.446649451
## 14102          3          2   0.446560334
## 19655          3          4   0.446557807
## 18525          3          4   0.446538709
## 17793          3          4   0.446516673
## 13952          3          2   0.446463672
## 20910          3          4   0.446423077
## 14154          3          2   0.446422097
## 18091          3          4   0.446396245
## 14749          3          2   0.446236864
## 13862          3          2   0.446197753
## 20365          3          2   0.446165858
## 15623          3          2   0.446024366
## 13835          3          2   0.446009215
## 18490          3          4   0.445951592
## 14795          3          2   0.445907675
## 14063          3          2   0.445905183
## 17718          3          4   0.445770266
## 19793          3          4   0.445742579
## 13973          3          2   0.444806033
## 14146          3          2   0.444784375
## 17908          3          4   0.444720826
## 21243          3          4   0.444716877
## 18413          3          4   0.444577020
## 14088          3          2   0.444539944
## 13887          3          2   0.444446126
## 17932          3          4   0.444443607
## 17608          3          4   0.444369622
## 20714          3          2   0.444365176
## 14773          3          2   0.444354915
## 14223          3          2   0.444202661
## 18070          3          4   0.444052786
## 19091          3          4   0.444002875
## 20015          3          4   0.443990311
## 13795          3          2   0.443931981
## 17605          3          4   0.443876507
## 14222          3          2   0.443725853
## 17613          3          4   0.443605910
## 20197          3          4   0.443445257
## 18794          3          4   0.443364197
## 20895          3          4   0.443292784
## 18000          3          4   0.443225021
## 14745          3          2   0.443135992
## 14340          3          2   0.442828912
## 17620          3          4   0.442490669
## 17614          3          4   0.442415022
## 17655          3          4   0.442161325
## 19979          3          4   0.442151010
## 13921          3          2   0.442129611
## 14572          3          2   0.442032385
## 20368          3          2   0.441817463
## 14145          3          2   0.441805096
## 13984          3          2   0.441758691
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```

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## 19794          3          2    0.441600522
## 13926          3          2    0.441339679
## 18984          3          4    0.440749017
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## 20059          3          4    0.439674145
## 18211          3          4    0.439644498
## 20364          3          2    0.439508594
## 14101          3          2    0.438817365
## 14793          3          2    0.438364625
## 18109          3          4    0.437965868
## 18795          3          4    0.437965868
## 14365          3          2    0.437350933
## 14079          3          2    0.437350764
## 13965          3          2    0.436413862
## 17794          3          4    0.436219308
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## 13935          3          2    0.435489132
## 13796          3          2    0.435452639
## 20362          3          2    0.435396441
## 13932          3          2    0.434418879
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## 24876          3          4    0.432627259
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## 20122          3          4    0.432580501
## 17799          3          4    0.432509276
## 14198          3          2    0.432479634
## 17760          3          4    0.432462169
## 18100          3          4    0.432437261
## 17856          3          4    0.432417629
## 17824          3          4    0.432415700
## 17656          3          4    0.432320575
## 20324          3          4    0.432238191
## 17761          3          4    0.432151081
## 18542          3          4    0.431758347
## 13781          3          2    0.431592377
## 13963          3          2    0.431592377
## 13934          3          2    0.431569207
## 14024          3          2    0.431568840
## 19861          3          4    0.431526974
## 18518          3          4    0.431496619
## 17626          3          4    0.431477545
## 13876          3          2    0.431475634
## 14099          3          2    0.431380978
## 17737          3          4    0.431291741
## 13980          3          2    0.431200824
## 17755          3          4    0.431106943
## 13961          3          2    0.431085990
## 13715          3          2    0.431047823
## 13838          3          2    0.431031971
```

```
## 22618      3      4   0.430976426
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## 18796      3      4   0.430806620
## 14028      3      2   0.430799263
## 14387      3      2   0.430799263
## 19949      3      4   0.430745278
## 17951      3      4   0.430552525
## 23282      3      4   0.430532901
## 14236      3      2   0.430464341
## 22617      3      4   0.430450835
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## 17673      3      4   0.430359604
## 13907      3      2   0.430352323
## 17622      3      4   0.430125193
## 14385      3      2   0.430123856
## 17669      3      4   0.430111160
## 13959      3      2   0.429952048
## 17801      3      4   0.429726674
## 17746      3      4   0.429709383
## 14083      3      2   0.429623673
## 17625      3      4   0.429610806
## 14739      3      2   0.429599065
## 18339      3      4   0.429515670
## 13875      3      2   0.429406872
## 13779      3      2   0.429276830
## 14054      3      2   0.429272193
## 14096      3      2   0.429152304
## 14131      3      2   0.429097897
## 20434      3      4   0.429008291
## 13854      3      2   0.428927494
## 18097      3      4   0.428888423
## 20758      3      4   0.428786416
## 14165      3      2   0.428591592
## 17800      3      4   0.428387000
## 13931      3      2   0.428201583
## 18288      3      4   0.428103556
## 14260      3      2   0.427933399
## 21394      3      4   0.427777040
## 14790      3      2   0.427697996
## 20369      3      2   0.427676911
## 19141      3      2   0.427452779
## 19292      3      2   0.427444490
## 13860      3      2   0.427438235
## 14386      3      2   0.427395690
## 13917      3      2   0.427217485
## 20248      3      2   0.427077289
## 14098      3      2   0.427039123
## 20757      3      4   0.426765754
## 18414      3      4   0.426675970
## 20199      3      4   0.426417381
## 13771      3      2   0.425763449
## 14740      3      2   0.425732415
## 14148      3      2   0.425616458
```

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## 18003          3          4    0.425382414
## 14100          3          2    0.425223918
## 14294          3          2    0.424980225
## 18291          3          2    0.424964117
## 20212          3          2    0.424957231
## 14368          3          2    0.424821298
## 14074          3          2    0.424798711
## 18092          3          4    0.424677355
## 20432          3          4    0.424431846
## 18946          3          4    0.424393497
## 14064          3          2    0.423962978
## 23331          3          4    0.423596228
## 17720          3          4    0.423544750
## 17670          3          4    0.423354769
## 18099          3          4    0.423322305
## 13955          3          2    0.423287378
## 17597          3          4    0.423265472
## 14097          3          2    0.423020542
## 17612          3          4    0.422680414
## 14027          3          2    0.422669381
## 13750          3          2    0.422587223
## 17611          3          4    0.422487649
## 18095          3          4    0.422478166
## 20503          3          4    0.421997111
## 14322          3          2    0.421490062
## 17984          3          4    0.421449275
## 19246          3          4    0.420921021
## 13824          3          2    0.420691274
## 17823          3          4    0.420680004
## 17798          3          4    0.420535217
## 20322          3          4    0.420282186
## 19790          3          4    0.420005174
## 14794          3          2    0.419807991
## 17999          3          4    0.419677204
## 14144          3          2    0.419611309
## 20374          3          2    0.419518112
## 18098          3          4    0.419213458
## 17857          3          4    0.419070736
## 17629          3          4    0.419009005
## 18517          3          4    0.418898157
## 17630          3          4    0.417536223
## 18112          3          4    0.417535502
## 20123          3          4    0.417395195
## 13886          3          2    0.417323613
## 16921          3          2    0.417049819
## 13981          3          2    0.416993642
## 13922          3          2    0.416572985
## 17758          3          4    0.415709154
## 21241          3          4    0.415606937
## 18340          3          4    0.415529873
## 17606          3          4    0.415506121
## 17721          3          4    0.415447363
## 18412          3          4    0.415311535
## 14147          3          2    0.415147707
```

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## 25356        3           4   0.415040862
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## 19977        3           4   0.414610719
## 14085        3           2   0.414432984
## 13918        3           2   0.414278617
## 18540        3           4   0.414261760
## 17631        3           4   0.414261301
## 18096        3           4   0.414220114
## 20124        3           4   0.413741631
## 18947        3           4   0.413658503
## 17796        3           4   0.412716680
## 17936        3           4   0.412665794
## 14792        3           2   0.412635751
## 18589        3           4   0.412573625
## 18415        3           4   0.412530232
## 20315        3           4   0.412495428
## 23332        3           4   0.412491187
## 20361        3           2   0.412437746
## 18590        3           4   0.412317491
## 18533        3           4   0.412259299
## 20433        3           4   0.412106250
## 18792        3           4   0.412080544
## 18996        3           4   0.412053894
## 20431        3           4   0.412034229
## 13802        3           2   0.411772968
## 17584        3           4   0.411729680
## 17585        3           4   0.411683723
## 13822        3           2   0.411675734
## 18039        3           2   0.411671395
## 18629        3           2   0.411617349
## 13972        3           2   0.411612308
## 18787        3           4   0.411589739
## 17795        3           4   0.411522904
## 18157        3           4   0.411481815
## 13790        3           2   0.411350455
## 13986        3           2   0.411337965
## 18234        3           4   0.411317356
## 18999        3           4   0.411282960
## 17934        3           4   0.411198088
## 13866        3           2   0.411189970
## 19003        3           4   0.411170199
## 18136        3           4   0.411139009
## 14194        3           2   0.411134885
## 18004        3           4   0.411096823
## 13960        3           2   0.410866102
## 14195        3           2   0.410495522
## 17632        3           4   0.410489674
## 23281        3           4   0.410433866
## 18104        3           4   0.410415302
## 20121        3           4   0.410386395
## 13905        3           2   0.410367813
## 18534        3           4   0.410177671
## 18128        3           4   0.410122554
## 14200        3           2   0.409914441
```

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## 15404         3         2    0.409522793
## 18790         3         4    0.409480980
## 13903         3         2    0.409480830
## 18553         3         2    0.409480830
## 13871         3         2    0.409285064
## 13823         3         2    0.409147616
## 17961         3         4    0.409146394
## 20211         3         2    0.409125288
## 14084         3         2    0.408987061
## 13877         3         2    0.408934257
## 17842         3         4    0.408873980
## 17634         3         4    0.408591464
## 18093         3         4    0.408388954
## 20184         3         4    0.408373712
## 18289         3         4    0.408350982
## 20196         3         4    0.408244899
## 18158         3         4    0.408241664
## 17736         3         4    0.408085776
## 13622         3         2    0.407987601
## 20502         3         4    0.407856073
## 13800         3         2    0.407796699
## 14250         3         2    0.407701915
## 15403         3         2    0.407528203
## 18791         3         4    0.407510493
## 14791         3         2    0.407389041
## 14593         3         2    0.407342621
## 14383         3         2    0.407268561
## 14741         3         2    0.407194860
## 20314         3         4    0.407158902
## 14025         3         2    0.406971936
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## 17623         3         4    0.406309205
## 21395         3         4    0.406250094
## 17635         3         4    0.406221221
## 17637         3         4    0.406197607
## 20019         3         4    0.406169516
## 18233         3         4    0.406143670
## 21393         3         4    0.406090725
## 18135         3         4    0.406016915
## 18417         3         4    0.405979217
## 18491         3         4    0.405927603
## 20009         3         2    0.405835405
## 17997         3         4    0.405800927
## 14196         3         2    0.405758396
## 13837         3         2    0.405714552
## 13780         3         2    0.405644537
## 19139         3         2    0.405627703
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## 18105         3         4    0.405093512
## 13909         3         2    0.403995366
```

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## 14789          3          2    0.403990317
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## 18106          3          4    0.403906963
## 15200          3          2    0.403765051
## 18588          3          4    0.403666076
## 13632          3          2    0.403522890
## 19140          3          2    0.403240975
## 13839          3          2    0.402984889
## 18292          3          2    0.402922518
## 13752          3          2    0.402803991
## 14742          3          2    0.402680774
## 18328          3          4    0.402401465
## 26422          3          4    0.402300427
## 21396          3          4    0.402065663
## 16919          3          2    0.401558405
## 14384          3          2    0.401385026
## 13782          3          2    0.401346864
## 14117          3          2    0.401283440
## 13951          3          2    0.401241260
## 15184          3          2    0.401234640
## 17915          3          4    0.400999744
## 13858          3          2    0.400962703
## 13987          3          2    0.400926769
## 13792          3          2    0.400832477
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## 20017          3          4    0.399729195
## 18998          3          4    0.399434707
## 13770          3          2    0.398828806
## 13859          3          2    0.398772328
## 17639          3          4    0.398054955
## 14984          3          2    0.397902879
## 25349          3          4    0.397888514
## 18995          3          4    0.397669784
## 13908          3          2    0.397468068
## 14509          3          2    0.397410817
## 17723          3          4    0.397278480
## 16922          3          2    0.397091378
## 14594          3          2    0.397063457
## 13825          3          2    0.397048229
## 17627          3          4    0.396997597
## 17797          3          4    0.396820138
## 19486          3          4    0.396294001
## 18103          3          4    0.396271550
## 14382          3          2    0.395281609
## 17624          3          4    0.394999259
## 20185          3          4    0.394926266
## 17843          3          4    0.394621852
## 20323          3          4    0.394614743
## 19033          3          4    0.394353145
## 13906          3          2    0.394140914
## 18119          3          2    0.394130874
## 16566          3          2    0.394093256
## 13821          3          2    0.394089932
```

```
## 13915          3          2    0.394037494
## 13623          3          2    0.393933277
## 17935          3          4    0.392812439
## 17616          3          4    0.392634924
## 17757          3          4    0.392364674
## 13716          3          2    0.392347194
## 13778          3          2    0.392217019
## 13799          3          2    0.392150139
## 14026          3          2    0.392118483
## 18519          3          4    0.392077130
## 13910          3          2    0.391885006
## 17778          3          4    0.391767376
## 13971          3          2    0.391701674
## 25902          3          4    0.391622882
## 13791          3          2    0.391522869
## 17945          3          4    0.391498340
## 26015          3          4    0.391497726
## 17769          3          4    0.391155450
## 20049          3          4    0.391114059
## 18805          3          2    0.391105168
## 20760          3          4    0.391053600
## 13666          3          2    0.390981191
## 18592          3          4    0.390954621
## 18808          3          2    0.390952595
## 20018          3          4    0.390934812
## 19131          3          2    0.390901619
## 17962          3          4    0.390881734
## 13726          3          2    0.390880284
## 14031          3          2    0.390856290
## 20496          3          4    0.390802048
## 17754          3          4    0.390775390
## 20020          3          4    0.390773108
## 14164          3          2    0.390721079
## 14033          3          2    0.390678794
## 19135          3          2    0.390664187
## 14030          3          2    0.390659973
## 19186          3          4    0.390605803
## 17779          3          4    0.390588311
## 25310          3          4    0.390544271
## 13885          3          2    0.390420900
## 17759          3          4    0.390412410
## 13663          3          2    0.390388004
## 14051          3          2    0.390380466
## 18232          3          4    0.390350080
## 17895          3          4    0.390348113
## 17964          3          4    0.390322557
## 13668          3          2    0.390295295
## 26019          3          4    0.390180918
## 19441          3          4    0.390180748
## 17762          3          4    0.390133427
## 17753          3          4    0.390036352
## 19478          3          4    0.389843037
## 13817          3          2    0.389818884
## 13630          3          2    0.389728534
```

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## 18807          3          2     0.389722675
## 18793          3          4     0.389686603
## 18806          3          2     0.389651178
## 13727          3          2     0.389647413
## 14038          3          2     0.389619188
## 13789          3          2     0.389611292
## 13631          3          2     0.389583151
## 14040          3          2     0.389479934
## 13829          3          2     0.389320198
## 26421          3          4     0.389266891
## 13992          3          2     0.389265119
## 19196          3          4     0.389253341
## 18591          3          4     0.389177515
## 19391          3          4     0.389007990
## 13794          3          2     0.388997420
## 26013          3          4     0.388810665
## 14036          3          2     0.388679205
## 19255          3          2     0.388543507
## 19195          3          4     0.388522958
## 14786          3          2     0.388486748
## 19129          3          2     0.388285566
## 19254          3          2     0.388264166
## 19257          3          4     0.388117603
## 14361          3          2     0.388092131
## 14208          3          2     0.387994331
## 13867          3          2     0.387800698
## 17776          3          4     0.387536927
## 26423          3          4     0.387416702
## 17764          3          4     0.387409971
## 18267          3          4     0.387400640
## 17781          3          4     0.387318871
## 17618          3          4     0.387205616
## 14133          3          2     0.387111020
## 20060          3          4     0.387102021
## 13883          3          2     0.387098449
## 19252          3          2     0.387078781
## 18161          3          4     0.387069971
## 18002          3          4     0.387062797
## 19000          3          4     0.386797804
## 13777          3          2     0.386764205
## 13820          3          2     0.386760777
## 14023          3          2     0.386568263
## 14135          3          2     0.386444607
## 18107          3          4     0.386401318
## 14839          3          2     0.386259694
## 26016          3          4     0.386216669
## 13869          3          2     0.386211596
## 18006          3          4     0.385675990
## 17897          3          4     0.385416677
## 18809          3          2     0.385280377
## 17756          3          4     0.385264087
## 20250          3          4     0.385073336
## 18992          3          4     0.385058780
## 17638          3          4     0.385035778
```

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## 25029          3          4    0.384866327
## 13962          3          2    0.384770097
## 19134          3          2    0.384731379
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## 17765          3          4    0.384164956
## 13957          3          2    0.384018361
## 17937          3          4    0.383913361
## 18129          3          4    0.383768598
## 13819          3          2    0.383743148
## 14039          3          2    0.383490706
## 13950          3          2    0.383351649
## 18121          3          4    0.383340926
## 19137          3          4    0.383257386
## 18191          3          4    0.383183926
## 18651          3          4    0.383145182
## 17316          3          2    0.382950275
## 20008          3          2    0.382534233
## 20427          3          4    0.382534056
## 17844          3          4    0.382433731
## 17738          3          4    0.382417484
## 19130          3          2    0.382340267
## 14362          3          2    0.381968620
## 17766          3          4    0.381428785
## 17944          3          4    0.381375311
## 18535          3          4    0.380808780
## 14034          3          2    0.380792095
## 13865          3          2    0.380769891
## 14037          3          2    0.380705511
## 17777          3          4    0.380702462
## 19136          3          4    0.380679862
## 17633          3          4    0.380598296
## 18593          3          4    0.380510685
## 14788          3          2    0.380412397
## 13830          3          2    0.380373625
## 17768          3          4    0.380316716
## 13667          3          2    0.380152759
## 13664          3          2    0.380136101
## 14035          3          2    0.379746530
## 13801          3          2    0.379740988
## 13920          3          2    0.379643827
## 18532          3          4    0.379035841
## 19862          3          4    0.378867256
## 17896          3          4    0.378781905
## 19001          3          4    0.378153762
## 19004          3          4    0.378089089
## 18994          3          4    0.377997010
## 17953          3          4    0.377963173
## 13902          3          2    0.377929518
## 14193          3          2    0.377873831
## 18114          3          4    0.377506148
## 18162          3          4    0.377410229
## 13786          3          2    0.377040870
## 13884          3          2    0.377039012
## 13818          3          2    0.377034569
```

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## 17943          3           4    0.376153308
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## 17657          3           4    0.376051121
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## 13916          3           2    0.375546270
## 14080          3           2    0.375445119
## 13868          3           2    0.375205318
## 17628          3           4    0.375086866
## 14801          3           2    0.374907850
## 13827          3           2    0.374539762
## 18235          3           4    0.374413771
## 26018          3           4    0.374184415
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## 17894          3           4    0.374041101
## 20495          3           4    0.373929366
## 13855          3           2    0.373661753
## 17916          3           4    0.373428838
## 19002          3           4    0.373364063
## 19005          3           4    0.373269992
## 26017          3           4    0.372538777
## 19253          3           2    0.371730593
## 17636          3           4    0.371488482
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## 18788          3           4    0.371478176
## 19194          3           4    0.371457387
## 17868          3           4    0.370651392
## 18108          3           4    0.370434443
## 20497          3           4    0.370421614
## 13882          3           2    0.370358277
## 18120          3           4    0.370315335
## 19105          3           4    0.370315335
## 23333          3           4    0.369931611
## 20562          3           4    0.369795996
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## 18074          3           4    0.369685661
## 17854          3           4    0.369534623
## 19490          3           4    0.369381700
## 17933          3           4    0.369318985
## 19336          3           4    0.369201166
## 18472          3           2    0.369198213
## 18122          3           4    0.369163773
## 17855          3           4    0.368977899
## 18163          3           4    0.368942128
## 13784          3           2    0.368924626
## 13528          3           2    0.368883447
## 14569          3           2    0.368880445
## 18159          3           4    0.368859864
## 18007          3           4    0.368835270
## 17957          3           4    0.368784060
## 25724          3           4    0.368764958
## 17966          3           4    0.368686664
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## 26014          3           4    0.368648745
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```

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## 13853     3      2   0.368578408
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## 13783     3      2   0.368480732
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## 18101     3      4   0.368465366
## 17853     3      4   0.368319064
## 13577     3      2   0.368296639
## 26091     3      4   0.368261375
## 17849     3      4   0.368103621
## 18471     3      2   0.368011645
## 14787     3      2   0.367917476
## 13575     3      2   0.367802102
## 14134     3      2   0.367784083
## 13806     3      2   0.367623676
## 18776     3      2   0.367622857
## 16157     3      2   0.367523323
## 26039     3      4   0.367326990
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## 18469     3      2   0.366932912
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## 18468     3      2   0.366781640
## 25311     3      4   0.366642873
## 14221     3      2   0.366596203
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## 13850     3      2   0.366550780
## 19258     3      4   0.366508596
## 18531     3      4   0.366505390
## 18464     3      2   0.366474373
## 13646     3      2   0.366411446
## 19132     3      2   0.366370854
## 13985     3      2   0.366061903
## 21868     3      4   0.365917818
## 18329     3      4   0.365572328
## 23335     3      4   0.365458163
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## 18147     3      4   0.365390422
## 26092     3      4   0.365384024
## 18786     3      2   0.365377756
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## 18783     3      2   0.364872955
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## 13851     3      2   0.364754163
## 17907     3      4   0.364716122
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## 26036     3      4   0.363808639
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## 18148     3      4   0.363491896
```

```
## 14347    3       2   0.363443108
## 13990    3       2   0.363086908
## 13826    3       2   0.362956154
## 13857    3       2   0.362866441
## 18804    3       2   0.362689013
## 17963    3       4   0.362634852
## 17938    3       4   0.362421785
## 18529    3       4   0.362392354
## 13603    3       2   0.362377737
## 14032    3       2   0.362272596
## 13828    3       2   0.362204647
## 13803    3       2   0.361849567
## 13579    3       2   0.361440735
## 13641    3       2   0.361114925
## 13643    3       2   0.361000387
## 13776    3       2   0.360973241
## 13773    3       2   0.360958849
## 18781    3       2   0.360869055
## 13811    3       2   0.360762421
## 19104    3       4   0.360737090
## 19089    3       4   0.360309515
## 17939    3       4   0.360138324
## 19409    3       4   0.360138324
## 13785    3       2   0.360066872
## 19256    3       2   0.360053259
## 14029    3       2   0.359950704
## 19133    3       2   0.359891760
## 18102    3       4   0.359650101
## 13846    3       2   0.359313775
## 19812    3       4   0.359208499
## 13807    3       2   0.359153325
## 17982    3       4   0.358862672
## 17983    3       4   0.358817988
## 18470    3       2   0.358590910
## 17780    3       4   0.358303816
## 16918    3       2   0.358252268
## 19392    3       4   0.358209521
## 18236    3       4   0.358205568
## 18190    3       4   0.358161102
## 18866    3       4   0.358080300
## 21708    3       4   0.357740403
## 17965    3       4   0.357564710
## 17967    3       4   0.357398821
## 18237    3       4   0.357302221
## 20561    3       4   0.357279670
## 23334    3       4   0.357266654
## 18775    3       2   0.356743013
## 13808    3       2   0.356442720
## 25723    3       4   0.356345009
## 18652    3       4   0.356331327
## 18774    3       2   0.356198443
## 26035    3       4   0.355853234
## 13788    3       2   0.355632924
## 16156    3       2   0.355482224
```

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## 15130      3      2   0.355435332
## 19692      3      2   0.355331902
## 19410      3      4   0.354569155
## 18541      3      4   0.353660496
## 13775      3      2   0.353635084
## 13484      3      2   0.353516153
## 18530      3      4   0.353137491
## 22570      3      4   0.353003018
## 18268      3      4   0.352946141
## 20655      3      4   0.352941894
## 17862      3      4   0.352792764
## 18466      3      2   0.352668739
## 18784      3      2   0.352483228
## 13809      3      2   0.352374928
## 18113      3      4   0.352004242
## 25312      3      4   0.351801339
## 17917      3      4   0.351702557
## 18789      3      4   0.351567195
## 18997      3      4   0.351394680
## 14116      3      2   0.351215981
## 19491      3      4   0.351159125
## 14115      3      2   0.350181116
## 17919      3      2   0.350012733
## 18780      3      2   0.349902772
## 19489      3      4   0.349318781
## 18465      3      2   0.349261667
## 16826      3      2   0.349155761
## 13642      3      2   0.349152136
## 13810      3      2   0.349051521
## 17848      3      4   0.347565638
## 17942      3      4   0.347368886
## 17867      3      4   0.346902872
## 20779      3      4   0.346836377
## 20507      3      4   0.346709579
## 20336      3      4   0.346706878
## 17948      3      4   0.346639195
## 19128      3      2   0.346605973
## 13849      3      2   0.346597155
## 13991      3      2   0.346524651
## 18385      3      4   0.346495996
## 20506      3      4   0.346443079
## 18298      3      4   0.346431998
## 18419      3      4   0.346417118
## 18269      3      4   0.346397014
## 18405      3      4   0.346354425
## 26246      3      4   0.346341467
## 13501      3      2   0.346240941
## 21870      3      4   0.346227096
## 13904      3      2   0.346076146
## 17949      3      4   0.345978413
## 15012      3      2   0.345922392
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## 17851      3      4   0.345738807
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```

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## 15010      3      2    0.345700138
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## 14114      3      2    0.345622424
## 18769      3      2    0.345606591
## 13665      3      2    0.345597444
## 19811      3      4    0.345558787
## 13659      3      2    0.345528435
## 26771      3      2    0.345517875
## 18771      3      2    0.345506702
## 26041      3      4    0.345457060
## 18778      3      2    0.345422943
## 13588      3      2    0.345398393
## 18964      3      4    0.345333324
## 20508      3      4    0.345038317
## 20781      3      4    0.344838431
## 18175      3      4    0.344699883
## 19532      3      4    0.344686128
## 18246      3      4    0.344685016
## 13587      3      2    0.344643811
## 13708      3      2    0.344531846
## 17035      3      2    0.344510860
## 13661      3      2    0.344497075
## 23336      3      4    0.344459298
## 13735      3      2    0.344444938
## 13662      3      2    0.344315655
## 17947      3      4    0.344250520
## 18146      3      4    0.344122199
## 20335      3      4    0.344052137
## 18860      3      4    0.344049522
## 17955      3      4    0.344048593
## 17940      3      4    0.344048238
## 19411      3      4    0.343994542
## 19601      3      2    0.343808386
## 21707      3      4    0.343807031
## 18330      3      4    0.343709698
## 13698      3      2    0.343661343
## 20164      3      4    0.343553089
## 13525      3      2    0.343488917
## 14785      3      2    0.343488917
## 14188      3      2    0.343483615
## 13529      3      2    0.343290364
## 16825      3      2    0.343222570
## 13805      3      2    0.343074351
## 18782      3      2    0.343018934
## 13645      3      2    0.342880604
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## 13696      3      2    0.342544035
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## 20782      3      4    0.342440650
## 13633      3      2    0.342427384
## 18766      3      2    0.342149850
```

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## 19863     3       4    0.341700831
## 18139     3       4    0.341513290
## 25197     3       4    0.341107607
## 13738     3       2    0.340808290
## 14287     3       2    0.340772539
## 18384     3       4    0.340573435
## 13534     3       2    0.340567688
## 13734     3       2    0.340561598
## 13736     3       2    0.340470817
## 18762     3       2    0.340202527
## 18271     3       4    0.339919196
## 18167     3       4    0.339758471
## 26034     3       4    0.339729228
## 18192     3       4    0.339663655
## 18418     3       4    0.339457063
## 13483     3       2    0.339158350
## 13798     3       2    0.339037878
## 13526     3       2    0.338840472
## 20783     3       4    0.338822635
## 13739     3       2    0.338805847
## 18767     3       2    0.338758222
## 17950     3       4    0.338523828
## 17767     3       4    0.337674024
## 18779     3       2    0.337551282
## 20337     3       4    0.337477240
## 17959     3       4    0.337464747
## 18467     3       2    0.337459287
## 18861     3       4    0.337394766
## 21869     3       4    0.337380405
## 17860     3       4    0.337329395
## 23337     3       4    0.337318837
## 21706     3       4    0.337308736
## 26037     3       4    0.337272245
## 17958     3       4    0.337235217
## 18768     3       2    0.336390005
## 19443     3       4    0.336232236
## 13732     3       2    0.336217022
## 15297     3       2    0.336217022
## 18965     3       4    0.336196019
## 26245     3       4    0.336158494
## 17956     3       4    0.336123864
## 18773     3       2    0.335983211
## 18272     3       4    0.335941982
## 18166     3       4    0.335632530
## 26033     3       4    0.335584110
## 13852     3       2    0.335039137
## 26249     3       4    0.334713327
## 16917     3       2    0.333980365
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## 18270     3       4    0.333479568
## 17852     3       4    0.333306126
```

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## 13699       3       2    0.333187362
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## 18764       3       2    0.333119104
## 13578       3       2    0.333096158
## 13772       3       2    0.333080263
## 17850       3       4    0.333053903
## 13787       3       2    0.332305333
## 21871       3       4    0.332134768
## 18182       3       4    0.332019566
## 18073       3       4    0.332011484
## 26247       3       4    0.331828634
## 20505       3       4    0.331726655
## 18420       3       4    0.331630329
## 13589       3       2    0.331321519
## 18296       3       4    0.331104512
## 14190       3       2    0.330898188
## 13644       3       2    0.330793572
## 13793       3       2    0.330763341
## 13774       3       2    0.330297136
## 13601       3       2    0.330061175
## 26251       3       4    0.330028078
## 18422       3       4    0.328556498
## 18193       3       4    0.327199550
## 18770       3       2    0.327051295
## 18297       3       4    0.326985681
## 18238       3       4    0.326794751
## 14199       3       2    0.326567979
## 18299       3       4    0.325317297
## 26250       3       4    0.325220749
## 13700       3       2    0.324840502
## 13614       3       2    0.324404522
## 18250       3       4    0.323804825
## 23338       3       4    0.323668958
## 23339       3       4    0.323631990
## 20504       3       4    0.323630128
## 23340       3       4    0.323339120
## 14189       3       2    0.323247358
## 14187       3       2    0.323148049
## 21391       3       4    0.322577155
## 21388       3       4    0.322466176
## 18024       3       4    0.322252158
## 21392       3       4    0.322226612
## 20573       3       4    0.322172217
## 17898       3       4    0.322171150
## 20790       3       4    0.322154724
## 19566       3       4    0.322070945
## 19082       3       4    0.322069173
## 18777       3       2    0.322033983
## 18116       3       4    0.322013133
## 26342       3       4    0.322012136
## 19442       3       4    0.321989937
## 18263       3       2    0.321969697
```

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## 13709        3         2    0.321932287
## 13610        3         2    0.321890290
## 13694        3         2    0.321875574
## 19079        3         4    0.321872014
## 14072        3         2    0.321868152
## 13387        3         2    0.321852667
## 20784        3         4    0.321848616
## 18375        3         4    0.321842557
## 18008        3         4    0.321817935
## 21247        3         4    0.321774461
## 13574        3         2    0.321736175
## 13606        3         2    0.321709340
## 26331        3         4    0.321530264
## 13608        3         2    0.321513364
## 13467        3         2    0.321506434
## 14113        3         2    0.321499109
## 18022        3         4    0.321484053
## 13714        3         2    0.321453209
## 13611        3         2    0.321421293
## 16824        3         2    0.321348253
## 18285        3         4    0.321339460
## 13369        3         2    0.321303849
## 18252        3         4    0.321268479
## 20567        3         4    0.321198892
## 14345        3         2    0.321187592
## 26333        3         4    0.321186874
## 13465        3         2    0.321146348
## 13737        3         2    0.321111996
## 18041        3         4    0.321072897
## 18260        3         2    0.320929336
## 18484        3         4    0.320862213
## 18138        3         4    0.320735531
## 13728        3         2    0.320684390
## 13515        3         2    0.320657834
## 26332        3         4    0.320474652
## 18123        3         4    0.320452709
## 14185        3         2    0.320422646
## 18513        3         4    0.320224999
## 17952        3         4    0.320202501
## 18759        3         2    0.320066195
## 24038        3         4    0.320025210
## 18376        3         4    0.319997812
## 14112        3         2    0.319927128
## 18346        3         4    0.319813924
## 18261        3         2    0.319785977
## 13386        3         2    0.319765252
## 13989        3         2    0.319755472
## 18164        3         4    0.319694523
## 13385        3         2    0.319691736
## 13572        3         2    0.319671554
## 18014        3         4    0.319663574
## 16823        3         2    0.319590449
## 13713        3         2    0.319517704
## 18395        3         4    0.319264935
```

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## 18141        3        4   0.319264296
## 18194        3        4   0.319229295
## 19439        3        2   0.318705719
## 14186        3        2   0.318695546
## 18397        3        4   0.318667629
## 18752        3        2   0.318522956
## 19081        3        4   0.318502998
## 13480        3        2   0.318481888
## 13707        3        2   0.318411989
## 19080        3        4   0.318366324
## 13388        3        2   0.318316997
## 17960        3        4   0.318227384
## 13613        3        2   0.318226158
## 13605        3        2   0.318189574
## 20792        3        4   0.318168285
## 13658        3        2   0.318101846
## 13395        3        2   0.318027999
## 18023        3        4   0.317676153
## 18118        3        4   0.317674137
## 18142        3        4   0.317623896
## 18026        3        4   0.317235850
## 15011        3        2   0.317222242
## 19603        3        4   0.317174157
## 13729        3        2   0.317135273
## 14265        3        2   0.317108429
## 18760        3        2   0.317046849
## 26339        3        4   0.317005679
## 18749        3        2   0.316918089
## 18761        3        2   0.316759097
## 20791        3        4   0.316628859
## 17835        3        2   0.316508819
## 13693        3        2   0.316462159
## 20794        3        4   0.315943839
## 18763        3        2   0.315758395
## 26248        3        4   0.315716237
## 18765        3        2   0.315641626
## 19604        3        4   0.315480889
## 18251        3        4   0.315445042
## 14619        3        2   0.314910728
## 18756        3        2   0.314724625
## 13706        3        2   0.314719147
## 13396        3        2   0.314585296
## 13872        3        2   0.314573184
## 26338        3        4   0.314477061
## 14111        3        2   0.314359387
## 18115        3        4   0.314356693
## 18176        3        4   0.314203437
## 20780        3        4   0.314170510
## 21390        3        4   0.313856318
## 14286        3        2   0.313675145
## 23092        3        4   0.313594288
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## 18259        3        2   0.313055332
## 14838        3        2   0.312925022
```

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## 18110       3       4   0.312916413
## 20789       3       4   0.312746240
## 13479       3       2   0.312624644
## 20788       3       4   0.312443927
## 18029       3       4   0.312389265
## 26341       3       4   0.312321866
## 13712       3       2   0.311920473
## 20786       3       4   0.311321901
## 13573       3       2   0.310541378
## 19567       3       4   0.309809890
## 13500       3       2   0.309640120
## 20787       3       4   0.309550755
## 18286       3       4   0.308495615
## 18178       3       4   0.308479376
## 26337       3       4   0.308128090
## 13695       3       2   0.307878099
## 13516       3       2   0.307642520
## 18751       3       2   0.307026220
## 20793       3       4   0.306961908
## 18396       3       4   0.306955062
## 25913       3       4   0.306896598
## 13660       3       2   0.306800024
## 18009       3       4   0.306760763
## 26336       3       4   0.306747697
## 26304       3       4   0.306610576
## 14568       3       2   0.306566355
## 18177       3       4   0.306540661
## 18421       3       4   0.305694091
## 18772       3       2   0.305411110
## 13466       3       2   0.305338726
## 20572       3       4   0.305325430
## 18494       3       4   0.305282671
## 18754       3       2   0.305106904
## 13609       3       2   0.304831463
## 14344       3       2   0.304780758
## 20570       3       4   0.303819284
## 18262       3       2   0.303706533
## 20785       3       4   0.303681841
## 26343       3       4   0.303658844
## 14784       3       2   0.303585010
## 19568       3       4   0.302302348
## 26335       3       4   0.302127858
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## 26334       3       4   0.300496988
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## 13731       3       2   0.300373136
## 18025       3       4   0.300249723
## 18331       3       4   0.300101354
## 21245       3       4   0.299088429
## 18149       3       4   0.298865746
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```

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## 13692          3          2    0.298423182
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## 13705          3          2    0.296919631
## 26303          3          4    0.296906242
## 18528          3          4    0.296826040
## 26045          3          4    0.296825574
## 14264          3          2    0.296788211
## 18473          3          4    0.296786152
## 18515          3          4    0.296765012
## 18185          3          4    0.296748092
## 18596          3          4    0.296742632
## 18290          3          4    0.296742431
## 20576          3          4    0.296730625
## 14783          3          2    0.296650745
## 18406          3          4    0.296635919
## 18379          3          4    0.296630219
## 18124          3          4    0.296600839
## 21244          3          4    0.296586822
## 13521          3          2    0.296497107
## 13452          3          2    0.296458188
## 26050          3          4    0.296455440
## 14782          3          2    0.296425950
## 20578          3          4    0.296401694
## 18625          3          2    0.296304499
## 16822          3          2    0.296293432
## 13522          3          2    0.296292768
## 18181          3          4    0.296273959
## 13510          3          2    0.296268133
## 18620          3          2    0.296203822
## 18409          3          4    0.296194790
## 26048          3          4    0.296080244
## 13356          3          2    0.296037492
## 18111          3          4    0.295784914
## 13617          3          2    0.295625845
## 13812          3          2    0.295541367
## 13687          3          2    0.295454959
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## 18618          3          2    0.295386245
## 13509          3          2    0.295377332
## 21389          3          4    0.295343106
## 19533          3          4    0.295339506
## 18186          3          4    0.295327143
## 13327          3          2    0.295273719
## 18240          3          4    0.295240709
## 26340          3          4    0.295152874
## 21246          3          4    0.295107417
## 18196          3          4    0.295078070
## 21702          3          4    0.294943991
## 13444          3          2    0.294890636
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```

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## 13813           3            2    0.294626899
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## 13616           3            2    0.294359392
## 18152           3            4    0.294063302
## 18179           3            4    0.294055789
## 18495           3            4    0.294028106
## 26392           3            4    0.293780385
## 14979           3            2    0.293416286
## 18279           3            4    0.293350893
## 13384           3            2    0.293311537
## 14129           3            2    0.293204575
## 18514           3            4    0.293117753
## 13284           3            2    0.293075284
## 18516           3            4    0.293039010
## 26344           3            4    0.293016087
## 13285           3            2    0.292975443
## 13691           3            2    0.292970449
## 18040           3            4    0.292909554
## 26044           3            4    0.292666487
## 24386           3            4    0.292530833
## 18165           3            4    0.292493965
## 14300           3            2    0.292206194
## 13600           3            2    0.292190453
## 21704           3            4    0.291956506
## 13451           3            2    0.291894757
## 18027           3            4    0.291501337
## 18239           3            4    0.291460973
## 13657           3            2    0.291176891
## 13481           3            2    0.291115953
## 14346           3            2    0.291029081
## 19009           3            4    0.290618583
## 13313           3            2    0.290190494
## 13816           3            2    0.290173946
## 13508           3            2    0.290058777
## 19528           3            4    0.289911547
## 13815           3            2    0.289871062
## 21703           3            4    0.289839704
## 18378           3            4    0.289655854
## 13447           3            2    0.289227581
## 20569           3            4    0.289095250
## 18140           3            4    0.288960204
## 19444           3            4    0.288960204
## 18283           3            4    0.288876122
## 20359           3            4    0.288852317
## 18117           3            4    0.288835096
## 18180           3            4    0.288692792
## 18493           3            4    0.288643471
## 20795           3            4    0.288603647
## 13889           3            2    0.288377031
## 13888           3            2    0.288057185
## 13618           3            2    0.287973281
## 13314           3            2    0.287956274
```

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## 13520       3        2    0.287922471
## 13514       3        2    0.287830452
## 18258       3        2    0.287620166
## 18758       3        2    0.287482889
## 13527       3        2    0.287344564
## 18750       3        2    0.287295863
## 19950       3        4    0.287283397
## 18757       3        2    0.287269176
## 20580       3        4    0.287224984
## 25045       3        4    0.287174602
## 13517       3        2    0.287090860
## 18241       3        4    0.286756641
## 24039       3        4    0.286756641
## 20283       3        4    0.286639999
## 20579       3        4    0.286429350
## 26042       3        4    0.286413347
## 25046       3        4    0.286273288
## 13507       3        2    0.285756045
## 13701       3        2    0.285336626
## 16355       3        2    0.285057455
## 26046       3        4    0.285023138
## 18597       3        4    0.284829181
## 18407       3        4    0.284743919
## 26043       3        4    0.283920121
## 18028       3        4    0.283652600
## 18621       3        2    0.283590771
## 13988       3        2    0.283341921
## 13740       3        2    0.283322770
## 18755       3        2    0.283321604
## 13686       3        2    0.283284420
## 17834       3        2    0.283284420
## 13453       3        2    0.282613177
## 18151       3        4    0.282214990
## 21705       3        4    0.281401378
## 18242       3        4    0.280699614
## 18619       3        2    0.279566775
## 23222       3        4    0.279400448
## 13524       3        2    0.279345248
## 13612       3        2    0.279345248
## 20574       3        4    0.278099643
## 26049       3        4    0.277987394
## 14126       3        2    0.277548709
## 18626       3        2    0.277311310
## 13445       3        2    0.276603419
## 13518       3        2    0.276357519
## 13711       3        2    0.276300939
## 24040       3        4    0.276268578
## 18474       3        4    0.276198981
## 18595       3        4    0.276163787
## 19228       3        4    0.276158472
## 18197       3        4    0.276068407
## 20571       3        4    0.275281538
## 20575       3        4    0.275059911
## 20657       3        4    0.274910280
```

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## 18381      3      4   0.274877407
## 13684      3      2   0.274596748
## 13685      3      2   0.274472555
## 13443      3      2   0.274237729
## 14781      3      2   0.273224242
## 13683      3      2   0.273072880
## 13593      3      2   0.272878068
## 26047      3      4   0.272760405
## 19008      3      4   0.272712622
## 19951      3      4   0.272493520
## 19227      3      4   0.271436156
## 13688      3      2   0.271236783
## 18377      3      4   0.271213017
## 13326      3      2   0.271208200
## 13689      3      2   0.271132143
## 18715      3      4   0.270288595
## 13650      3      2   0.270245100
## 19849      3      4   0.270115093
## 18245      3      4   0.270098368
## 13213      3      2   0.270075828
## 13325      3      2   0.270073041
## 21876      3      4   0.270070603
## 20661      3      4   0.270029197
## 18321      3      4   0.270016632
## 18387      3      4   0.269999536
## 20897      3      4   0.269984557
## 18282      3      4   0.269894841
## 19535      3      4   0.269887462
## 18527      3      4   0.269880739
## 18624      3      2   0.269742176
## 19028      3      2   0.269674465
## 26175      3      4   0.269634644
## 18401      3      4   0.269622806
## 18623      3      2   0.269604097
## 14263      3      2   0.269551249
## 26174      3      4   0.269454446
## 19087      3      4   0.269426837
## 13459      3      2   0.269407818
## 13212      3      2   0.269401239
## 13568      3      2   0.269390667
## 18318      3      4   0.269264347
## 20658      3      4   0.269196217
## 14104      3      2   0.269088829
## 14623      3      2   0.269080053
## 13901      3      2   0.269031365
## 19534      3      4   0.268942936
## 18316      3      4   0.268822588
## 18646      3      4   0.268783541
## 13680      3      2   0.268386385
## 18198      3      4   0.268265369
## 16356      3      2   0.268242560
## 13240      3      2   0.268187781
## 14428      3      2   0.268100018
## 20660      3      4   0.267988587
```

```
## 25044        3        4    0.267825280
## 13677        3        2    0.267363678
## 13512        3        2    0.267244258
## 13511        3        2    0.267023575
## 13298        3        2    0.266969286
## 14108        3        2    0.266954506
## 21173        3        4    0.266736694
## 18153        3        4    0.266687970
## 18477        3        4    0.266258010
## 18410        3        4    0.266240768
## 18963        3        4    0.265967179
## 18615        3        2    0.265851416
## 13224        3        2    0.265844888
## 17833        3        2    0.265791444
## 13475        3        2    0.265729419
## 13570        3        2    0.265492405
## 18612        3        2    0.265446984
## 18408        3        4    0.265446643
## 18617        3        2    0.265379419
## 18613        3        2    0.265350091
## 18280        3        4    0.265292398
## 20581        3        4    0.265250467
## 20577        3        4    0.265234758
## 18400        3        4    0.265216784
## 16354        3        2    0.265069634
## 13681        3        2    0.264159765
## 13442        3        2    0.264144607
## 13248        3        2    0.264066434
## 14109        3        2    0.264048435
## 13446        3        2    0.263960136
## 14136        3        2    0.263945844
## 13814        3        2    0.263932736
## 18616        3        2    0.263621261
## 19086        3        4    0.263315510
## 20896        3        4    0.263136045
## 18343        3        4    0.262711580
## 18648        3        4    0.262426363
## 24115        3        4    0.262409593
## 13300        3        2    0.261819341
## 18183        3        4    0.261376044
## 21873        3        4    0.260509887
## 13690        3        2    0.260306182
## 26172        3        4    0.260288578
## 13441        3        2    0.260109188
## 13215        3        2    0.259887024
## 13725        3        2    0.259830165
## 13299        3        2    0.259684785
## 13506        3        2    0.259665344
## 13291        3        2    0.259501137
## 13710        3        2    0.259392408
## 24387        3        4    0.259387541
## 18714        3        4    0.259246715
## 21102        3        4    0.258211918
## 13505        3        2    0.257859014
```

```
## 13290          3          2   0.257626303
## 13649          3          2   0.257193303
## 13900          3          2   0.257085679
## 13647          3          2   0.257084299
## 13569          3          2   0.256841553
## 20978          3          4   0.256797355
## 18598          3          4   0.255660264
## 13599          3          2   0.255157856
## 13239          3          2   0.255142378
## 13648          3          2   0.254427694
## 13513          3          2   0.254338394
## 13297          3          2   0.254178750
## 13260          3          2   0.254143368
## 26168          3          4   0.253763761
## 18244          3          4   0.253735589
## 18154          3          4   0.253698076
## 14128          3          2   0.252755452
## 20659          3          4   0.252735009
## 18266          3          4   0.252621576
## 18610          3          2   0.252589688
## 14813          3          2   0.251321373
## 18322          3          4   0.251106727
## 24041          3          4   0.250959520
## 26170          3          4   0.250872352
## 18411          3          4   0.249970589
## 26173          3          4   0.249882712
## 13678          3          2   0.249479231
## 13679          3          2   0.249465596
## 13519          3          2   0.248867150
## 13358          3          2   0.248432663
## 18611          3          2   0.248355022
## 13571          3          2   0.248183274
## 13450          3          2   0.248143641
## 18320          3          4   0.247939747
## 21872          3          4   0.247607673
## 26166          3          4   0.246702741
## 26171          3          4   0.246466346
## 26169          3          4   0.244408199
## 21875          3          4   0.244326680
## 19523          3          4   0.244326192
## 18281          3          4   0.244283480
## 18647          3          4   0.244160565
## 18184          3          4   0.244127378
## 14043          3          2   0.243425107
## 18077          3          2   0.242647029
## 13499          3          2   0.242488061
## 13370          3          2   0.242400837
## 13241          3          2   0.242360592
## 18506          3          4   0.242351382
## 13742          3          2   0.242214820
## 20662          3          4   0.242178736
## 18313          3          4   0.242142258
## 18302          3          4   0.242089487
## 26067          3          4   0.242073867
```

```
## 26351          3          4    0.242013625
## 13295          3          2    0.241951329
## 18200          3          4    0.241892490
## 18390          3          4    0.241878885
## 19607          3          4    0.241845497
## 14110          3          2    0.241810224
## 19230          3          4    0.241769819
## 13438          3          2    0.241746695
## 18867          3          4    0.241739985
## 13242          3          2    0.241721389
## 14812          3          2    0.241634533
## 18599          3          4    0.241586346
## 26346          3          4    0.241510292
## 18614          3          2    0.241483486
## 13261          3          2    0.241481261
## 13262          3          2    0.241360644
## 13671          3          2    0.241302077
## 13205          3          2    0.241289238
## 14622          3          2    0.241180542
## 19850          3          4    0.240955295
## 26167          3          4    0.240925296
## 19522          3          4    0.240859417
## 18394          3          4    0.240845040
## 21874          3          4    0.240834262
## 18078          3          2    0.240680281
## 13492          3          2    0.240595505
## 18721          3          4    0.240519743
## 24042          3          4    0.240356129
## 18718          3          4    0.240215233
## 18326          3          4    0.240075052
## 18388          3          4    0.239879181
## 13296          3          2    0.239872767
## 13672          3          2    0.239849001
## 20663          3          4    0.239828882
## 18945          3          2    0.239734667
## 19989          3          4    0.239708080
## 26353          3          4    0.239660440
## 13494          3          2    0.239596337
## 18344          3          4    0.239579992
## 13491          3          2    0.239560772
## 13496          3          2    0.239387831
## 24043          3          4    0.239306808
## 20665          3          4    0.238467917
## 13293          3          2    0.238458077
## 18719          3          4    0.238423873
## 18539          3          2    0.238380994
## 19307          3          4    0.238343368
## 13152          3          2    0.238221100
## 13769          3          2    0.238107149
## 16353          3          2    0.238091216
## 13247          3          2    0.238081736
## 18748          3          2    0.237964092
## 18503          3          4    0.237734332
## 18650          3          4    0.237652617
```

```
## 18199          3          4    0.237047351
## 18380          3          4    0.237030726
## 18081          3          2    0.237023559
## 18391          3          4    0.237019654
## 13391          3          2    0.236906945
## 18505          3          4    0.236868859
## 13439          3          2    0.236855791
## 13493          3          2    0.236796510
## 13498          3          2    0.236686392
## 18155          3          4    0.236575693
## 13440          3          2    0.236481458
## 19259          3          4    0.236035557
## 26348          3          4    0.235837967
## 13767          3          2    0.235125900
## 16748          3          2    0.235003604
## 13246          3          2    0.234713271
## 26347          3          4    0.234097063
## 18254          3          4    0.234057580
## 21220          3          4    0.233974092
## 18201          3          4    0.233687541
## 18255          3          4    0.233605054
## 19229          3          4    0.233529641
## 18303          3          4    0.233242936
## 18723          3          4    0.233219368
## 16747          3          2    0.233158452
## 13673          3          2    0.233062773
## 18080          3          2    0.233005369
## 13682          3          2    0.232910972
## 13567          3          2    0.232899121
## 13834          3          2    0.232817632
## 13211          3          2    0.232703749
## 18720          3          4    0.232228342
## 26345          3          4    0.231907917
## 18722          3          4    0.231720266
## 18649          3          4    0.231535892
## 26354          3          4    0.231264023
## 13676          3          2    0.230991499
## 13292          3          2    0.230556559
## 26355          3          4    0.229612968
## 18319          3          4    0.229421372
## 18253          3          4    0.229068823
## 19524          3          4    0.228928656
## 18327          3          4    0.228869069
## 14107          3          2    0.228652833
## 18083          3          2    0.228634089
## 14106          3          2    0.228623416
## 13911          3          2    0.228403657
## 18082          3          2    0.228104407
## 13282          3          2    0.227892271
## 14042          3          2    0.227855785
## 18342          3          4    0.227034377
## 26349          3          4    0.226923230
## 13294          3          2    0.226254296
## 18293          3          4    0.226235456
```

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## 20098        3        4    0.226070662
## 13165        3        2    0.225420086
## 13219        3        2    0.225403851
## 18389        3        4    0.224297881
## 26352        3        4    0.223803104
## 20664        3        4    0.223691932
## 13276        3        2    0.223622783
## 18404        3        4    0.223614136
## 14041        3        2    0.222326938
## 18156        3        4    0.221671568
## 18317        3        4    0.221577963
## 26491        3        4    0.221412017
## 20391        3        4    0.220904219
## 15097        3        2    0.220617427
## 18537        3        2    0.219466867
## 13675        3        2    0.219411014
## 16095        3        2    0.219342504
## 18079        3        2    0.217928845
## 13277        3        2    0.217833295
## 13275        3        2    0.217766577
## 16096        3        2    0.217694154
## 13495        3        2    0.216361719
## 18504        3        4    0.215110982
## 21219        3        4    0.214784602
## 13218        3        2    0.214749007
## 18538        3        2    0.214648369
## 13162        3        2    0.213611243
## 13477        3        2    0.213609546
## 13486        3        2    0.213515303
## 16352        3        2    0.213303272
## 13324        3        2    0.213219712
## 13367        3        2    0.213219712
## 13204        3        2    0.213189651
## 20081        3        2    0.213168697
## 15006        3        2    0.213096752
## 18845        3        2    0.213089130
## 17989        3        2    0.213017476
## 13352        3        2    0.212918410
## 13503        3        2    0.212910546
## 13437        3        2    0.212869712
## 18587        3        4    0.212837369
## 19262        3        4    0.212813736
## 18480        3        4    0.212800376
## 18526        3        4    0.212748286
## 13741        3        2    0.212719319
## 13151        3        2    0.212710633
## 19077        3        4    0.212654661
## 13766        3        2    0.212539305
## 13566        3        2    0.212529454
## 20079        3        2    0.212526136
## 21458        3        4    0.212490821
## 19313        3        4    0.212440979
## 26293        3        4    0.212415717
## 18496        3        4    0.212393667
```

```
## 19815        3        4    0.212367021
## 19231        3        4    0.212348694
## 20854        3        4    0.212327401
## 18894        3        4    0.212324342
## 13245        3        2    0.212147531
## 13348        3        2    0.212041719
## 23477        3        4    0.212035048
## 20612        3        4    0.211965473
## 24864        3        4    0.211958942
## 20080        3        2    0.211806513
## 21347        3        4    0.211770649
## 18314        3        4    0.211621124
## 13357        3        2    0.211572867
## 13150        3        2    0.211560396
## 18889        3        4    0.211353598
## 13762        3        2    0.211199690
## 18635        3        4    0.211143437
## 13436        3        2    0.211001786
## 13455        3        2    0.211001786
## 26189        3        4    0.210963342
## 18497        3        4    0.210924300
## 13349        3        2    0.210884571
## 24388        3        4    0.210858420
## 13485        3        2    0.210747734
## 18315        3        4    0.210106307
## 23476        3        4    0.210049785
## 13487        3        2    0.210031401
## 18507        3        4    0.209966316
## 20163        3        4    0.209856793
## 26543        3        4    0.209830420
## 13368        3        2    0.209787614
## 13476        3        2    0.209677989
## 18841        3        4    0.209610525
## 19314        3        4    0.209422925
## 18323        3        4    0.208832533
## 19232        3        4    0.208652826
## 13244        3        2    0.208502622
## 18536        3        2    0.208421951
## 18605        3        4    0.208369483
## 13366        3        2    0.208361896
## 18551        3        4    0.208344210
## 13390        3        2    0.208322852
## 14621        3        2    0.208294568
## 19311        3        4    0.208267356
## 18463        3        4    0.208127087
## 18665        3        4    0.207197193
## 18548        3        4    0.207076550
## 18547        3        4    0.206954200
## 13347        3        2    0.206848605
## 13066        3        2    0.206798180
## 17990        3        2    0.206573501
## 13323        3        2    0.206552202
## 13832        3        2    0.206453364
## 13351        3        2    0.206316912
```

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## 18888       3       4   0.205369053
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## 18572       3       4   0.205261250
## 26401       3       4   0.205243979
## 18423       3       4   0.205174706
## 19260       3       4   0.205094428
## 26350       3       4   0.205055939
## 18202       3       4   0.205041673
## 18868       3       4   0.204997893
## 13287       3       2   0.204658227
## 18485       3       4   0.203590222
## 18842       3       4   0.203312638
## 13038       3       2   0.203267508
## 20054       3       4   0.203056400
## 13488       3       2   0.203001444
## 13502       3       2   0.202805213
## 17988       3       2   0.202623827
## 13768       3       2   0.201699435
## 19602       3       4   0.201341539
## 26505       3       4   0.201256796
## 13591       3       2   0.201110181
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## 20855       3       4   0.201004044
## 17991       3       2   0.200686245
## 13058       3       2   0.200484778
## 13763       3       2   0.200317614
## 18550       3       4   0.199375908
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## 13565       3       2   0.198823621
## 18565       3       4   0.198812928
## 20856       3       4   0.198764687
## 13765       3       2   0.198762031
## 13311       3       2   0.198704120
## 13674       3       2   0.198498829
## 13489       3       2   0.198272842
## 13286       3       2   0.198067425
## 13592       3       2   0.198046548
## 13764       3       2   0.198045376
## 13759       3       2   0.197876382
## 18573       3       4   0.196899210
## 19608       3       4   0.196801949
## 19078       3       4   0.196633258
## 18479       3       4   0.196440819
## 13350       3       2   0.196419012
## 18653       3       4   0.196347856
## 17449       3       2   0.195594718
## 20077       3       2   0.195514160
## 13615       3       2   0.195486656
## 21346       3       4   0.195026225
## 18606       3       4   0.194299745
## 18893       3       4   0.194138721
## 18304       3       4   0.193888637
## 13164       3       2   0.191901634
```

```
## 18325     3      4  0.191448821
## 18664     3      4  0.191280347
## 18424     3      4  0.191271640
## 13761     3      2  0.190044787
## 18324     3      4  0.188598424
## 18663     3      4  0.188529783
## 13833     3      2  0.188516943
## 20076     3      2  0.188461539
## 13760     3      2  0.188445063
## 13312     3      2  0.185649342
## 18478     3      4  0.185626768
## 18486     3      4  0.185490963
## 17888     3      2  0.183224850
## 13278     3      2  0.183098832
## 13408     3      2  0.183070611
## 13656     3      2  0.182949157
## 16603     3      2  0.182851331
## 13341     3      2  0.182821904
## 15841     3      2  0.182819737
## 13154     3      2  0.182796290
## 13464     3      2  0.182722921
## 13392     3      2  0.182629278
## 19312     3      4  0.182607437
## 13407     3      2  0.182605301
## 13346     3      2  0.182574119
## 13304     3      2  0.182244860
## 13365     3      2  0.182240215
## 13377     3      2  0.182111578
## 18607     3      4  0.181993259
## 19820     3      4  0.181942083
## 18521     3      4  0.181932436
## 18800     3      4  0.181855667
## 18849     3      4  0.181679005
## 18481     3      4  0.181654090
## 24390     3      4  0.181650486
## 24389     3      4  0.181583644
## 20859     3      4  0.181573393
## 13655     3      2  0.181546342
## 13757     3      2  0.181538499
## 20864     3      4  0.181462338
## 21459     3      4  0.181432525
## 14317     3      2  0.181391249
## 20857     3      4  0.181376123
## 19378     3      4  0.181352264
## 19856     3      4  0.181217087
## 24391     3      4  0.181211843
## 17987     3      2  0.181071354
## 13340     3      2  0.180941443
## 13305     3      2  0.180921623
## 17986     3      2  0.180921623
## 13193     3      2  0.180856872
## 13149     3      2  0.180724157
## 13148     3      2  0.180717171
## 19882     3      2  0.180662511
```

```
## 18697          3          4    0.180655302
## 18524          3          4    0.180651969
## 19817          3          4    0.180342132
## 18696          3          4    0.180332640
## 20865          3          4    0.180304445
## 20860          3          4    0.180085728
## 13504          3          2    0.179839073
## 20078          3          2    0.179838572
## 15842          3          2    0.179768556
## 24863          3          4    0.179639068
## 21541          3          4    0.179486093
## 18835          3          4    0.179429163
## 18941          3          4    0.179338535
## 18392          3          4    0.179319583
## 19379          3          4    0.179262635
## 20716          3          4    0.179261213
## 17889          3          2    0.178692901
## 17887          3          2    0.178647493
## 13279          3          2    0.178638202
## 13345          3          2    0.178620825
## 13036          3          2    0.178579991
## 13342          3          2    0.178562936
## 18848          3          4    0.178482999
## 18654          3          4    0.178380938
## 21039          3          4    0.178380938
## 23751          3          4    0.178374451
## 20862          3          4    0.178364632
## 18909          3          4    0.178353551
## 13064          3          2    0.177319114
## 13310          3          2    0.177315405
## 16916          3          2    0.177202780
## 13364          3          2    0.177184617
## 13034          3          2    0.177175721
## 14859          3          2    0.177088511
## 14800          3          2    0.176957175
## 20858          3          4    0.176935798
## 20863          3          4    0.176887276
## 18508          3          4    0.176792136
## 18566          3          4    0.176753137
## 13343          3          2    0.175640903
## 13203          3          2    0.175618257
## 19819          3          4    0.175547922
## 20867          3          4    0.175475485
## 13281          3          2    0.175237995
## 18655          3          4    0.175212789
## 13037          3          2    0.174109416
## 17890          3          2    0.174045975
## 13409          3          2    0.174034528
## 19816          3          4    0.174008897
## 13063          3          2    0.173994089
## 19233          3          4    0.173899947
## 13344          3          2    0.173799528
## 19883          3          2    0.173689217
## 19881          3          2    0.173604207
```

```
## 18520          3          4    0.173602359
## 18656          3          4    0.173597201
## 20715          3          4    0.173567221
## 18403          3          4    0.173539432
## 18476          3          4    0.172109395
## 13065          3          2    0.172104877
## 19855          3          4    0.172086238
## 18559          3          4    0.172005335
## 20868          3          4    0.171991343
## 19884          3          2    0.171987896
## 26594          3          4    0.171941410
## 17893          3          2    0.171841314
## 13322          3          2    0.171775185
## 15840          3          2    0.171768979
## 13280          3          2    0.171727118
## 17892          3          2    0.171687800
## 13634          3          2    0.171633066
## 23475          3          4    0.170896275
## 18402          3          4    0.170133456
## 19488          3          4    0.170117737
## 13074          3          2    0.170106239
## 13635          3          2    0.170038360
## 13321          3          2    0.170015181
## 18657          3          4    0.169980320
## 20866          3          4    0.169946173
## 18502          3          4    0.167962101
## 19695          3          4    0.167810369
## 13890          3          2    0.167381737
## 13899          3          2    0.165861042
## 20861          3          4    0.165771596
## 21542          3          4    0.165609051
## 19487          3          4    0.165591727
## 18698          3          4    0.165475092
## 13166          3          2    0.165212330
## 13756          3          2    0.165040424
## 13751          3          2    0.164841931
## 13435          3          2    0.163639893
## 13194          3          2    0.163602232
## 18666          3          4    0.163469569
## 19818          3          4    0.163385381
## 18475          3          4    0.163352966
## 13039          3          2    0.162670622
## 17891          3          2    0.162670622
## 13035          3          2    0.161296245
## 13758          3          2    0.161113538
## 21040          3          4    0.161073332
## 19857          3          4    0.160870651
## 13586          3          2    0.158812437
## 24365          3          4    0.158590739
## 26595          3          4    0.156100094
## 13653          3          2    0.151415384
## 16915          3          2    0.151266564
## 13190          3          2    0.151238598
## 13533          3          2    0.151232581
```

```
## 14811        3        2   0.151223901
## 13192        3        2   0.151150666
## 13434        3        2   0.151150666
## 13223        3        2   0.151147432
## 13748        3        2   0.151107749
## 13062        3        2   0.151078742
## 13383        3        2   0.151052913
## 13025        3        2   0.150931584
## 13320        3        2   0.150907879
## 12996        3        2   0.150811062
## 13153        3        2   0.150738587
## 13354        3        2   0.150568584
## 15839        3        2   0.150527916
## 13256        3        2   0.150080791
## 18949        3        4   0.149838670
## 19310        3        4   0.149816106
## 18668        3        4   0.149751828
## 19309        3        4   0.149728993
## 19472        3        4   0.149691296
## 20204        3        4   0.149651984
## 19822        3        4   0.149497844
## 19234        3        4   0.149378817
## 18636        3        4   0.149364504
## 19878        3        2   0.149321560
## 13257        3        2   0.149294933
## 18667        3        4   0.149290068
## 13355        3        2   0.149275961
## 20136        3        4   0.149267017
## 18498        3        4   0.149188584
## 24019        3        4   0.149074162
## 19903        3        4   0.149048205
## 18609        3        4   0.149043970
## 20614        3        4   0.149027757
## 19059        3        4   0.148977870
## 24366        3        4   0.148918039
## 13703        3        2   0.148512121
## 18510        3        4   0.148459239
## 13191        3        2   0.148458177
## 14810        3        2   0.148438655
## 13076        3        2   0.148429530
## 18933        3        4   0.148400779
## 18544        3        4   0.147561619
## 20613        3        4   0.147554449
## 13252        3        2   0.147543578
## 13060        3        2   0.147543501
## 13381        3        2   0.147527695
## 13061        3        2   0.147479632
## 13059        3        2   0.147462729
## 13669        3        2   0.147270103
## 20898        3        4   0.146912604
## 19813        3        4   0.146898051
## 18511        3        4   0.146730600
## 13033        3        2   0.146385457
## 13670        3        2   0.146298693
```

```
## 19880          3          2    0.146293786
## 13271          3          2    0.146195132
## 13318          3          2    0.146104515
## 18608          3          4    0.145823038
## 18935          3          4    0.145806113
## 18645          3          4    0.145775811
## 18509          3          4    0.145734329
## 18958          3          4    0.145703216
## 18543          3          4    0.145644043
## 19319          3          4    0.145453434
## 13461          3          2    0.145049715
## 13302          3          2    0.144968127
## 19876          3          2    0.144962417
## 18206          3          2    0.144934258
## 20072          3          4    0.144463870
## 24022          3          4    0.144419047
## 23531          3          4    0.144416304
## 21942          3          4    0.144382528
## 18733          3          4    0.144338930
## 13075          3          2    0.143576146
## 13253          3          2    0.143529313
## 13654          3          2    0.143466096
## 13222          3          2    0.143371924
## 13308          3          2    0.143359637
## 13259          3          2    0.143335706
## 24018          3          4    0.143229784
## 18512          3          4    0.143174967
## 19320          3          4    0.143148722
## 18546          3          4    0.143136191
## 20010          3          4    0.143026237
## 24020          3          4    0.142866040
## 24021          3          4    0.142736498
## 13303          3          2    0.142115066
## 13382          3          2    0.141850655
## 13319          3          2    0.141816234
## 13272          3          2    0.141786993
## 19879          3          2    0.141781796
## 13301          3          2    0.141775604
## 18948          3          4    0.141615575
## 18957          3          4    0.141561285
## 19877          3          2    0.140333931
## 18208          3          2    0.140246921
## 13309          3          2    0.140241823
## 19321          3          4    0.140014401
## 19821          3          4    0.139735952
## 12995          3          2    0.138538787
## 13274          3          2    0.138507237
## 13433          3          2    0.138293295
## 19814          3          4    0.138055373
## 18207          3          2    0.138020245
## 19473          3          4    0.137981896
## 20011          3          4    0.137842040
## 20899          3          4    0.136433605
## 13462          3          2    0.136174176
```

```
## 18545        3        4    0.136080160
## 13273        3        2    0.134783845
## 18934        3        4    0.134483743
## 13258        3        2    0.132819605
## 19308        3        4    0.132519844
## 18936        3        4    0.132046450
## 19318        3        4    0.132015268
## 13255        3        2    0.124531840
## 13254        3        2    0.124521584
## 13428        3        2    0.118099193
## 13082        3        2    0.118094881
## 13081        3        2    0.118074145
## 12874        3        2    0.117999390
## 13181        3        2    0.117997410
## 13564        3        2    0.117980066
## 13651        3        2    0.117916785
## 12889        3        2    0.117912781
## 19874        3        2    0.117893395
## 15555        3        2    0.117870668
## 13563        3        2    0.117866374
## 18489        3        2    0.117785804
## 13182        3        2    0.117782038
## 13306        3        2    0.117632698
## 13427        3        2    0.117557591
## 15837        3        2    0.117473284
## 12998        3        2    0.117434437
## 13186        3        2    0.117407782
## 13249        3        2    0.117392998
## 13561        3        2    0.117392998
## 12888        3        2    0.117170098
## 13585        3        2    0.117127018
## 13336        3        2    0.117018890
## 13497        3        2    0.116623357
## 13237        3        2    0.116528414
## 13011        3        2    0.116398383
## 13652        3        2    0.116338974
## 20748        3        4    0.116180306
## 19908        3        4    0.116138308
## 19823        3        4    0.116101323
## 24024        3        4    0.116093603
## 18694        3        4    0.116022181
## 19323        3        4    0.116004785
## 13432        3        2    0.115998897
## 26686        3        4    0.115987840
## 24025        3        4    0.115934806
## 13379        3        2    0.115916770
## 18578        3        4    0.115891183
## 13337        3        2    0.115890135
## 18735        3        4    0.115877970
## 19873        3        2    0.115853720
## 18745        3        4    0.115828689
## 13270        3        2    0.115781649
## 13236        3        2    0.115749035
## 20073        3        4    0.115690137
```

```
## 18581          3          4    0.115647450
## 18631          3          4    0.115537927
## 18658          3          4    0.115518555
## 24392          3          4    0.115467255
## 18736          3          4    0.115457846
## 18734          3          4    0.115431645
## 20186          3          4    0.115240991
## 13269          3          2    0.115230986
## 13083          3          2    0.115067367
## 18583          3          4    0.115043753
## 18871          3          4    0.114996939
## 13339          3          2    0.114989851
## 13189          3          2    0.114932253
## 13562          3          2    0.114896873
## 18633          3          4    0.114718383
## 18577          3          4    0.114336019
## 18799          3          4    0.114316138
## 13073          3          2    0.114253104
## 12887          3          2    0.114197382
## 24628          3          4    0.114162942
## 13429          3          2    0.114152911
## 18576          3          4    0.114121863
## 13380          3          2    0.114115819
## 18870          3          4    0.114059963
## 14049          3          2    0.114052380
## 18579          3          4    0.113734262
## 18966          3          4    0.113686039
## 18580          3          4    0.113671677
## 18585          3          4    0.113625750
## 18846          3          4    0.113531569
## 20749          3          4    0.113510252
## 19771          3          4    0.113433442
## 16914          3          2    0.113103325
## 18487          3          2    0.113035164
## 13235          3          2    0.113013897
## 13430          3          2    0.112985872
## 13747          3          2    0.112861796
## 18586          3          4    0.112787096
## 18600          3          4    0.112112241
## 13183          3          2    0.111936562
## 13251          3          2    0.111922446
## 13704          3          2    0.111898687
## 13338          3          2    0.111872705
## 12994          3          2    0.111861347
## 13010          3          2    0.111733263
## 19772          3          4    0.111643245
## 18938          3          4    0.111585652
## 18632          3          4    0.111133228
## 19057          3          4    0.111133228
## 18856          3          4    0.111070399
## 18601          3          4    0.110983862
## 18831          3          4    0.110577115
## 18824          3          4    0.110547468
## 15838          3          2    0.110544087
```

```
## 19006        3        4   0.109461346
## 19825        3        4   0.109372171
## 18634        3        4   0.109349232
## 24862        3        4   0.109325461
## 13268        3        2   0.109260055
## 14050        3        2   0.109203625
## 18488        3        2   0.109128975
## 18937        3        4   0.108570744
## 18869        3        4   0.108097650
## 18854        3        4   0.107987443
## 13584        3        2   0.107897837
## 12999        3        2   0.107838663
## 13012        3        2   0.107744196
## 13754        3        2   0.107738900
## 13267        3        2   0.107639011
## 13124        3        2   0.107610839
## 12997        3        2   0.106517919
## 13188        3        2   0.106442465
## 13250        3        2   0.106439578
## 19773        3        4   0.105142163
## 12908        3        2   0.104962691
## 13234        3        2   0.104554252
## 18582        3        4   0.104482601
## 13490        3        2   0.104438391
## 13307        3        2   0.104397634
## 13378        3        2   0.104394573
## 19322        3        4   0.104317059
## 13009        3        2   0.104314252
## 18695        3        4   0.103716662
## 20187        3        4   0.103612661
## 24023        3        4   0.103584091
## 18584        3        4   0.103568626
## 18738        3        4   0.103525048
## 13431        3        2   0.103472123
## 13755        3        2   0.103451210
## 13125        3        2   0.103358551
## 18825        3        4   0.101981428
## 18840        3        4   0.101974403
## 13335        3        2   0.101853137
## 19824        3        4   0.101356099
## 13187        3        2   0.098468101
## 18205        3        2   0.095181841
## 13283        3        2   0.083440702
## 17880        3        2   0.083403875
## 19869        3        2   0.083402500
## 12968        3        2   0.083396309
## 13898        3        2   0.083350650
## 17881        3        2   0.083315962
## 13556        3        2   0.083247344
## 12869        3        2   0.083240940
## 13054        3        2   0.083225255
## 13558        3        2   0.083046990
## 14809        3        2   0.083044171
## 17884        3        2   0.083043500
```

```
## 19871          3          2    0.082918273
## 12984          3          2    0.082890072
## 12967          3          2    0.082881607
## 18204          3          2    0.082863091
## 12870          3          2    0.082715352
## 13560          3          2    0.082663265
## 12844          3          2    0.082632853
## 19870          3          2    0.082619311
## 14808          3          2    0.082566267
## 13233          3          2    0.082538638
## 13185          3          2    0.082236604
## 13333          3          2    0.082207988
## 15275          3          2    0.082155814
## 15276          3          2    0.082086273
## 13316          3          2    0.082030724
## 13746          3          2    0.081968255
## 12868          3          2    0.081940463
## 13055          3          2    0.081893944
## 12906          3          2    0.081605320
## 19872          3          2    0.081602376
## 17885          3          2    0.081594749
## 17883          3          2    0.081548565
## 13231          3          2    0.081353071
## 21001          3          4    0.081106119
## 20750          3          4    0.081053224
## 21004          3          4    0.081024699
## 21009          3          4    0.080988406
## 21003          3          4    0.080943552
## 18700          3          4    0.080868789
## 18747          3          4    0.080868789
## 19775          3          4    0.080859217
## 13121          3          2    0.080766762
## 18740          3          4    0.080750991
## 22436          3          4    0.080741099
## 13582          3          2    0.080724624
## 12879          3          2    0.080615465
## 20998          3          4    0.080608348
## 20999          3          4    0.080603039
## 13583          3          2    0.080537537
## 19064          3          4    0.080527297
## 18873          3          4    0.080513454
## 22309          3          4    0.080458448
## 13108          3          2    0.080438913
## 21019          3          4    0.080421630
## 19826          3          4    0.080367850
## 24629          3          4    0.080363621
## 21008          3          4    0.080362598
## 18746          3          4    0.080342427
## 19867          3          2    0.080310861
## 18895          3          4    0.080265983
## 18726          3          4    0.080155443
## 22438          3          4    0.080134960
## 21017          3          4    0.080107060
## 18737          3          4    0.080091371
```

```
## 18940        3         4   0.080050451
## 18843        3         4   0.080045401
## 26735        3         4   0.079974383
## 19090        3         4   0.079929397
## 13206        3         2   0.079907462
## 12907        3         2   0.079848226
## 13230        3         2   0.079810390
## 26736        3         4   0.079716640
## 18699        3         4   0.079682777
## 18959        3         4   0.079679492
## 13110        3         2   0.079614681
## 15836        3         2   0.079586830
## 19169        3         4   0.079570887
## 18967        3         4   0.079568203
## 18975        3         4   0.079506784
## 18896        3         4   0.079491988
## 12843        3         2   0.079053129
## 21018        3         4   0.079050894
## 13334        3         2   0.079004051
## 21111        3         4   0.078951605
## 19471        3         4   0.078934783
## 18974        3         4   0.078875233
## 13184        3         2   0.078820382
## 24026        3         4   0.078511896
## 22437        3         4   0.078494286
## 19061        3         4   0.078429350
## 18925        3         4   0.078375981
## 20751        3         4   0.078287519
## 13080        3         2   0.078114979
## 13559        3         2   0.078072061
## 12993        3         2   0.078038894
## 13111        3         2   0.077927148
## 21014        3         4   0.077834704
## 22439        3         4   0.077778936
## 18872        3         4   0.077741187
## 19062        3         4   0.077690429
## 18659        3         4   0.077567289
## 19827        3         4   0.077564726
## 17882        3         2   0.077066432
## 19868        3         2   0.076999663
## 12983        3         2   0.076971314
## 18844        3         4   0.076946461
## 19063        3         4   0.076888397
## 18847        3         4   0.076875545
## 18725        3         4   0.076855866
## 18865        3         4   0.076808266
## 21010        3         4   0.076762487
## 21007        3         4   0.076041566
## 13057        3         2   0.076033830
## 21002        3         4   0.076015380
## 13232        3         2   0.076008900
## 13109        3         2   0.075996551
## 21015        3         4   0.075992177
## 12985        3         2   0.075988130
```

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## 21005        3        4   0.075987956
## 13317        3        2   0.075973590
## 14310        3        2   0.075914012
## 19065        3        4   0.075890989
## 18703        3        4   0.075246435
## 19774        3        4   0.075207599
## 21000        3        4   0.075193522
## 18701        3        4   0.075120621
## 18727        3        4   0.075057542
## 21006        3        4   0.074977806
## 17886        3        2   0.074951825
## 13557        3        2   0.074829560
## 12915        3        2   0.074816176
## 21011        3        4   0.074248358
## 26737        3        4   0.074049872
## 14802        3        2   0.073950797
## 13072        3        2   0.073947041
## 12992        3        2   0.073705743
## 13056        3        2   0.073670594
## 26630        3        4   0.073022704
## 21397        3        4   0.073022451
## 18939        3        4   0.072985084
## 13555        3        2   0.072879795
## 21020        3        4   0.071944901
## 18926        3        4   0.071122401
## 18702        3        4   0.070821151
## 13238        3        2   0.069421088
## 18874        3        4   0.068867318
## 21016        3        4   0.067773897
## 19060        3        4   0.064341104
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## 13122        3        2   0.047235904
## 13426        3        2   0.047235665
## 14298        3        2   0.047206625
## 13129        3        2   0.047190051
## 13176        3        2   0.047182114
## 13169        3        2   0.047174265
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## 13405        3        2   0.047150262
## 12814        3        2   0.047094850
## 19866        3        2   0.047068095
## 13353        3        2   0.047044326
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## 13530        3        2   0.047030502
## 12862        3        2   0.047024570
## 13079        3        2   0.047014257
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## 18203        3        2   0.046974465
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## 13106        3        2   0.046726240
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```

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## 19865      3        2    0.046495968
## 14452      3        2    0.046488803
## 12861      3        2    0.046486145
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## 13315      3        2    0.046363335
## 13406      3        2    0.046315203
## 13532      3        2    0.046148913
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## 13207      3        2    0.046073430
## 12884      3        2    0.046048968
## 13167      3        2    0.046028956
## 13177      3        2    0.045772747
## 13209      3        2    0.045753486
## 13581      3        2    0.045749231
## 13173      3        2    0.045743626
## 12948      3        2    0.045739116
## 13052      3        2    0.045738371
## 13425      3        2    0.045730554
## 13208      3        2    0.045706438
## 13031      3        2    0.045372003
## 13210      3        2    0.045336805
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## 13102      3        2    0.044451930
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## 19829      3        4    0.044306527
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## 18850      3        4    0.044260131
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## 19267      3        4    0.044230588
## 18879      3        4    0.044201795
## 20205      3        4    0.044157460
## 18739      3        4    0.044140985
## 19828      3        4    0.044131562
## 18855      3        4    0.044131417
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## 18878      3        4    0.044053411
## 21032      3        4    0.043998561
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```

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## 18927          3          4    0.043931187
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## 18876          3          4    0.043872083
## 18968          3          4    0.043841248
## 21033          3          4    0.043768003
## 12815          3          2    0.043756574
## 12981          3          2    0.043749784
## 14978          3          2    0.043749445
## 13171          3          2    0.043733771
## 13168          3          2    0.043728627
## 21031          3          4    0.043723570
## 13128          3          2    0.043691311
## 21029          3          4    0.043674017
## 21025          3          4    0.043659040
## 20439          3          4    0.043631295
## 18875          3          4    0.043629442
## 19069          3          4    0.043576919
## 20012          3          4    0.043536765
## 26402          3          4    0.043535634
## 21571          3          4    0.043527279
## 18976          3          4    0.043483328
## 18707          3          4    0.043433644
## 12950          3          2    0.043430783
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## 21024          3          4    0.042943969
## 17713          3          2    0.042926956
## 19782          3          4    0.042912175
## 13460          3          2    0.042864924
## 26752          3          4    0.042851183
## 26772          3          4    0.042833133
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## 19770          3          4    0.042530070
## 13404          3          2    0.042431322
## 21023          3          4    0.041821709
## 12982          3          2    0.041770354
## 13101          3          2    0.041743304
## 21030          3          4    0.041693276
## 18710          3          4    0.041687452
## 19067          3          4    0.041254115
## 24977          3          4    0.041224650
## 18899          3          4    0.041218356
## 19776          3          4    0.041172452
## 19007          3          4    0.040822071
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```

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## 18969      3          4    0.039630705
## 19034      3          4    0.039629294
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## 19830      3          4    0.038440853
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## 13178      3          2    0.009626223
## 15477      3          2    0.009620118
## 12882      3          2    0.009616009
## 12787      3          2    0.009613555
## 13050      3          2    0.009600046
## 13024      3          2    0.009593785
## 12901      3          2    0.009588385
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## 13411      3          2    0.009420083
## 17197      3          2    0.009418652
## 13329      3          2    0.009377991
## 13744      3          2    0.009372300
## 13014      3          2    0.009362747
## 13078      3          2    0.009314779
## 13896      3          2    0.009275322
## 12741      3          2    0.009108124
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```

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## 16911      3       2   0.008819119
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## 19250      3       4   0.007395910
## 19097      3       4   0.007134931
## 24982      3       4   0.007080935
## 21363      3       4   0.007070184
## 18901      3       4   0.007029485
## 19107      3       4   0.006998993
## 18712      3       4   0.006970963
## 19592      3       4   0.006962700
## 18942      3       4   0.006950504
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## 18711      3       4   0.006855329
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## 18907      3       4   0.006736729
## 26394      3       4   0.006691057
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## 19099      3       4   0.006471230
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## 19098      3       4   0.006305200
## 18713      3       4   0.006187415
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## 21045      3       4   0.005939930
## 19778      3       4   0.005931845
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## 18978      3       4   0.005633799
## 24978      3       4   0.005613244
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## 21078      3       4   0.005498630
## 19593      3       4   0.005420697
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## 19070      3       4   0.005314254
## 19783      3       4   0.005302411
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## 23188      3       4   0.005144784
## 18900      3       4   0.005133384
```

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## 19010         3         4   0.005045615
## 19189         3         4   0.004992046
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## 19425         3         4   0.004970805
## 18732         3         4   0.004950744
## 19589         3         4   0.004948390
## 19594         3         4   0.004945981
## 19191         3         4   0.004941448
## 18880         3         4   0.004913827
## 19072         3         4   0.004894444
## 19784         3         4   0.004863116
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## 25463         4         3   0.732891761
## 24137         4         3   0.732888509
## 24547         4         3   0.732874802
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## 25771         4         3   0.732823289
## 23089         4         3   0.732816092
## 23200         4         3   0.732796752
## 25701         4         3   0.732790877
## 23850         4         3   0.732779352
## 23185         4         3   0.732733731
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## 25615         4         3   0.732545691
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## 23678         4         3   0.732526192
## 23102         4         3   0.732519304
## 23218         4         3   0.732510409
## 23178         4         3   0.732508335
## 25476         4         3   0.732503979
## 23764         4         3   0.732503483
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## 22853         4         3   0.732433550
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```

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## 23002        4        3    0.732264486
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## 22986        4        3    0.732218010
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```

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```

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## 25834        4        3    0.729482337
## 25833        4        3    0.729475970
## 25475        4        3    0.729463315
```

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## 25380        4          3  0.729401565
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## 23207        4          3  0.729363804
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## 25770        4          3  0.729350973
## 23428        4          3  0.729350893
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## 23240        4          3  0.729253989
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## 25176        4          3  0.729237273
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## 22787        4          3  0.729203685
## 23176        4          3  0.729180278
## 23104        4          3  0.729159229
## 23105        4          3  0.729147760
## 23705        4          3  0.729137779
## 22648        4          3  0.729126988
## 23090        4          3  0.729119146
## 23116        4          3  0.729099631
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## 25097        4          3  0.728896728
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```

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```

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## 24511      4      3   0.727136487
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## 23435      4      3   0.727109306
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## 22555      4      3   0.726339605
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```

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## 24276       4       3   0.725703483
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## 23001       4       3   0.725603476
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## 24214       4       3   0.725552859
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## 26131       4       3   0.725551234
## 25863       4       3   0.725550562
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## 23387       4       3   0.725247629
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```

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## 25933          4          3   0.725187405
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## 23380          4          3   0.725178455
## 23232          4          3   0.725160749
## 24551          4          3   0.725142394
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## 24156          4          3   0.725121626
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## 23088          4          3   0.725066730
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## 22494          4          3   0.724240528
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```

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## 23621        4        3    0.723763810
## 23633        4        3    0.723761908
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## 23494        4        3    0.723737682
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```

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```

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```

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## 23993          4          3   0.720530160
## 24550          4          3   0.720515156
## 22545          4          3   0.720508710
## 23373          4          3   0.720508710
## 23462          4          3   0.720480402
## 23202          4          3   0.720478248
## 24631          4          3   0.720472008
## 24548          4          3   0.720432002
## 22856          4          3   0.720429653
## 23324          4          3   0.720426052
## 22239          4          3   0.720403701
## 23107          4          3   0.720379139
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## 23548          4          3   0.720315221
## 23280          4          3   0.720309827
## 24260          4          3   0.720289453
## 22501          4          3   0.720259247
## 22548          4          3   0.720259247
## 23521          4          3   0.720243017
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## 22272          4          3   0.720197546
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## 23285          4          3   0.720155354
## 23096          4          3   0.720135543
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## 23198          4          3   0.720104719
## 22668          4          3   0.720086247
```

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## 23560         4         3   0.720066156
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## 23181         4         3   0.719867783
## 25736         4         3   0.719862540
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## 23507         4         3   0.719784041
## 26314         4         3   0.719770779
## 24201         4         3   0.719758985
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## 24277         4         3   0.719741333
## 23645         4         3   0.719732129
## 24017         4         3   0.719723297
## 22854         4         3   0.719686220
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## 22693         4         3   0.719343204
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```

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## 23607      4      3  0.718795076
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## 22996      4      3  0.718713426
## 22999      4      3  0.718712854
## 24900      4      3  0.718682643
## 22627      4      3  0.718641277
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## 22416      4      3  0.718617122
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## 24281      4      3  0.718606005
## 24261      4      3  0.718538684
## 23778      4      3  0.718526993
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## 25514      4      3  0.718481064
## 22954      4      3  0.718446033
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## 26590      4      3  0.718343688
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## 24625      4      3  0.718337828
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## 25513      4      3  0.718260164
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## 25064      4      3  0.718144962
## 24455      4      3  0.718139974
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```

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## 22174       4         3   0.717887406
## 23360       4         3   0.717841876
## 22619       4         3   0.717838288
## 23988       4         3   0.717822238
## 26063       4         3   0.717817008
## 23923       4         3   0.717808381
## 26062       4         3   0.717802093
## 24067       4         3   0.717741822
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## 26108       4         3   0.717701566
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## 23550       4         3   0.717406995
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## 24454       4         3   0.717281112
## 26116       4         3   0.717264869
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```

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## 23287     4      3   0.717048430
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## 23417     4      3   0.717035530
## 24756     4      3   0.717035320
## 23907     4      3   0.717031263
## 25956     4      3   0.717015928
## 23452     4      3   0.717007478
## 24575     4      3   0.717005998
## 23512     4      3   0.717001644
## 23819     4      3   0.716984492
## 23058     4      3   0.716981387
## 22424     4      3   0.716951862
## 24275     4      3   0.716913857
## 24753     4      3   0.716897875
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## 22557     4      3   0.716801450
## 24564     4      3   0.716754350
## 23354     4      3   0.716737636
## 24458     4      3   0.716737197
## 24269     4      3   0.716736982
## 23386     4      3   0.716724844
## 23581     4      3   0.716685642
## 25185     4      3   0.716685558
## 24348     4      3   0.716651361
## 23661     4      3   0.716608388
## 25313     4      3   0.716600995
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## 23359     4      3   0.716576740
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## 24048     4      3   0.716567650
## 25099     4      3   0.716539592
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## 25182     4      3   0.716455400
## 24905     4      3   0.716423815
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## 24240     4      3   0.716395419
## 25072     4      3   0.716379526
## 24136     4      3   0.716378403
## 22628     4      3   0.716361279
## 23936     4      3   0.716340012
## 22418     4      3   0.716318720
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## 22813     4      3   0.716306409
## 24809     4      3   0.716297309
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## 22560     4      3   0.716272803
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```

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## 24896          4          3    0.716205371
## 22862          4          3    0.716177070
## 22298          4          3    0.716176168
## 25079          4          3    0.716092985
## 23518          4          3    0.716092569
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## 26128          4          3    0.715993443
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## 26057          4          3    0.715909142
## 23369          4          3    0.715892060
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## 23396          4          3    0.715798085
## 23908          4          3    0.715780103
## 25959          4          3    0.715759965
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## 24439          4          3    0.715723531
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## 23655          4          3    0.715706505
## 24584          4          3    0.715623285
## 22745          4          3    0.715620135
## 24578          4          3    0.715601791
## 23789          4          3    0.715598989
## 23982          4          3    0.715588457
## 25273          4          3    0.715588435
## 25177          4          3    0.715585764
## 26053          4          3    0.715584241
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## 24461          4          3    0.715514753
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## 23984          4          3    0.715456516
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## 24409          4          3    0.715384989
## 24637          4          3    0.715370807
```

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## 25108       4       3   0.715189043
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## 24061       4       3   0.715030416
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## 23667       4       3   0.714981338
## 22144       4       3   0.714972061
## 23780       4       3   0.714959126
## 22412       4       3   0.714947655
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## 23965       4       3   0.714863068
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## 25059       4       3   0.714409667
## 24573       4       3   0.714396421
## 22792       4       3   0.714390688
## 23968       4       3   0.714390615
## 23283       4       3   0.714379711
## 22739       4       3   0.714377803
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```

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## 22401      4      3   0.714138122
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```

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```

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## 22568        4        3    0.711183509
## 23252        4        3    0.711170261
## 25260        4        3    0.711151519
## 22213        4        3    0.711145840
## 24609        4        3    0.711097080
## 24618        4        3    0.711085421
## 22781        4        3    0.711037789
## 24503        4        3    0.711027719
```

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## 22282        4        3    0.710994684
## 23884        4        3    0.710987039
## 24376        4        3    0.710972182
## 26714        4        3    0.710967171
## 22785        4        3    0.710950211
## 24606        4        3    0.710945123
## 24610        4        3    0.710945123
## 23449        4        3    0.710899603
## 23929        4        3    0.710834109
## 23472        4        3    0.710832333
## 25980        4        3    0.710820167
## 23509        4        3    0.710788528
## 22782        4        3    0.710783940
## 23483        4        3    0.710782393
## 25537        4        3    0.710768709
## 26311        4        3    0.710742223
## 23910        4        3    0.710718269
## 25666        4        3    0.710702659
## 23901        4        3    0.710701767
## 25880        4        3    0.710683270
## 23875        4        3    0.710671902
## 25158        4        3    0.710655096
## 25459        4        3    0.710629682
## 25650        4        3    0.710615337
## 24206        4        3    0.710597790
## 24117        4        3    0.710569022
## 25481        4        3    0.710553052
## 23839        4        3    0.710528952
## 23602        4        3    0.710518237
## 25146        4        3    0.710511171
## 24452        4        3    0.710502470
## 22967        4        3    0.710498994
## 26153        4        3    0.710493593
## 22721        4        3    0.710483256
## 22165        4        3    0.710404760
## 23921        4        3    0.710364023
## 25518        4        3    0.710358951
## 25163        4        3    0.710354845
## 23398        4        3    0.710349041
## 22229        4        3    0.710320281
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## 24176        4        3    0.710282751
## 24181        4        3    0.710282751
## 23563        4        3    0.710278018
## 24614        4        3    0.710269536
## 23434        4        3    0.710236757
## 25510        4        3    0.710234152
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## 24204        4        3    0.710198984
## 24903        4        3    0.710179894
## 24624        4        3    0.710155702
## 24811        4        3    0.710147633
## 24613        4        3    0.710118819
```

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## 23752          4          3    0.710102597
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## 24159          4          3    0.710017152
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## 24605          4          3    0.709974284
## 23687          4          3    0.709963637
## 25526          4          3    0.709959041
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## 24676          4          3    0.709925136
## 24160          4          3    0.709924942
## 22126          4          3    0.709849475
## 22410          4          3    0.709836636
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## 24505          4          3    0.709801807
## 23349          4          3    0.709780900
## 26121          4          3    0.709774244
## 23574          4          3    0.709765415
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## 24133          4          3    0.709651688
## 24140          4          3    0.709625249
## 23453          4          3    0.709614294
## 23301          4          3    0.709589243
## 22861          4          3    0.709519725
## 24894          4          3    0.709513440
## 23924          4          3    0.709482018
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## 24707          4          3    0.709413986
## 23011          4          3    0.709397136
## 25473          4          3    0.709394608
## 26655          4          3    0.709375964
## 23856          4          3    0.709315796
## 23708          4          3    0.709308726
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## 22405          4          3    0.709080943
## 23374          4          3    0.709025979
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## 24530          4          3    0.708958677
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```

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## 24519        4        3   0.708930907
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## 24289        4        3   0.708896516
## 22420        4        3   0.708882500
## 22399        4        3   0.708861187
## 24357        4        3   0.708834221
## 25049        4        3   0.708833772
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## 24011        4        3   0.708772733
## 24932        4        3   0.708735356
## 24738        4        3   0.708730354
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## 25274        4        3   0.708685447
## 25307        4        3   0.708673659
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## 22764        4        3   0.708655273
## 22643        4        3   0.708654941
## 24091        4        3   0.708641785
## 26182        4        3   0.708634943
## 26002        4        3   0.708632131
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## 24581        4        3   0.708448010
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## 22422        4        3   0.708428054
## 25183        4        3   0.708423438
## 24570        4        3   0.708400256
## 22840        4        3   0.708364652
## 26814        4        3   0.708364334
## 22293        4        3   0.708362523
## 24778        4        3   0.708336252
## 24027        4        3   0.708303084
## 22834        4        3   0.708267364
## 25058        4        3   0.708253426
## 22317        4        3   0.708205007
## 22760        4        3   0.708161035
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## 26812        4        3   0.708154753
## 23255        4        3   0.708059366
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## 24245        4        3   0.707898592
## 23253        4        3   0.707886015
```

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## 22953      4       3   0.707663010
## 24419      4       3   0.707618238
## 26152      4       3   0.707606683
## 24810      4       3   0.707598284
## 21996      4       3   0.707590675
## 23099      4       3   0.707563941
## 24194      4       3   0.707520285
## 24701      4       3   0.707508343
## 22121      4       3   0.707507078
## 23437      4       3   0.707506256
## 23216      4       3   0.707500855
## 26110      4       3   0.707493967
## 24546      4       3   0.707468303
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## 25528      4       3   0.707416040
## 24368      4       3   0.707397332
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## 24293      4       3   0.707358661
## 26478      4       3   0.707313195
## 24193      4       3   0.707308272
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## 24288      4       3   0.707304995
## 24615      4       3   0.707280353
## 24887      4       3   0.707272345
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## 23883      4       3   0.707261735
## 24415      4       3   0.707229627
## 22626      4       3   0.707229049
## 24052      4       3   0.707218039
## 23537      4       3   0.707216752
## 22717      4       3   0.707211001
## 22909      4       3   0.707197548
## 24939      4       3   0.707190998
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## 24186      4       3   0.707169333
## 22167      4       3   0.707098347
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## 23353      4       3   0.707030789
## 26183      4       3   0.707026530
## 25769      4       3   0.707019580
## 23838      4       3   0.706994872
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## 22150      4       3   0.706969793
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```

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## 23870        4        3   0.706694235
## 23292        4        3   0.706652083
## 23414        4        3   0.706645471
## 23432        4        3   0.706584840
## 23080        4        3   0.706556842
## 24657        4        3   0.706547891
## 22713        4        3   0.706539726
## 24603        4        3   0.706527017
## 24153        4        3   0.706525427
## 23679        4        3   0.706510925
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## 24420        4        3   0.706480785
## 23101        4        3   0.706466984
## 23727        4        3   0.706463862
## 24274        4        3   0.706421117
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## 23852        4        3   0.706346280
## 25523        4        3   0.706345524
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## 23517        4        3   0.706293987
## 23684        4        3   0.706289800
## 24532        4        3   0.706288691
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## 24402        4        3   0.706254960
## 24425        4        3   0.706246992
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## 23540        4        3   0.706204696
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## 25115        4        3   0.706187362
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## 23775        4        3   0.706183779
## 23891        4        3   0.706182365
## 23857        4        3   0.706179795
## 24141        4        3   0.706156241
## 22299        4        3   0.706141934
## 24663        4        3   0.706120038
## 22563        4        3   0.706106687
## 23439        4        3   0.706094415
## 25094        4        3   0.706090346
## 24679        4        3   0.706069300
```

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## 23003      4       3    0.706067404
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## 24300      4       3    0.706018582
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## 24607      4       3    0.706008123
## 23853      4       3    0.705998863
## 24772      4       3    0.705988148
## 23594      4       3    0.705958835
## 23412      4       3    0.705929240
## 25101      4       3    0.705920644
## 25517      4       3    0.705910449
## 23717      4       3    0.705908654
## 25272      4       3    0.705899782
## 24285      4       3    0.705892512
## 23914      4       3    0.705870978
## 22306      4       3    0.705820905
## 24501      4       3    0.705799724
## 24256      4       3    0.705793346
## 23048      4       3    0.705790887
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## 24150      4       3    0.705744701
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## 24093      4       3    0.705678888
## 25239      4       3    0.705676642
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## 24382      4       3    0.705637239
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## 24279      4       3    0.705601667
## 24095      4       3    0.705574725
## 24522      4       3    0.705554307
## 25705      4       3    0.705553466
## 22250      4       3    0.705511762
## 22120      4       3    0.705500094
## 22402      4       3    0.705429462
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## 24169      4       3    0.705406827
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## 22162      4       3    0.705370709
## 23707      4       3    0.705353735
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## 24623      4       3    0.705345305
## 24218      4       3    0.705339233
## 23534      4       3    0.705331407
## 24418      4       3    0.705292247
## 24364      4       3    0.705284775
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## 24531      4       3    0.705198866
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```

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## 23504      4      3   0.705189097
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## 23821      4      3   0.705071073
## 26658      4      3   0.705067530
## 24928      4      3   0.705049920
## 25726      4      3   0.705036902
## 23944      4      3   0.705016150
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## 23991      4      3   0.704986783
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## 26179      4      3   0.704961564
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## 24070      4      3   0.704036293
## 23837      4      3   0.704015141
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## 25276      4      3   0.703870737
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```

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## 24621      4      3    0.703738173
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```

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## 24295         4         3   0.702765843
## 22903         4         3   0.702722215
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```

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## 24691         4           3   0.701523738
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## 24891         4           3   0.701498783
## 23175         4           3   0.701442858
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## 25472         4           3   0.701265342
## 23824         4           3   0.701250415
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## 23614         4           3   0.700964096
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## 26538         4           3   0.700910794
## 24690         4           3   0.700887260
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## 23825         4           3   0.700792527
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## 23881         4           3   0.700718369
## 25391         4           3   0.700669873
## 24790         4           3   0.700667211
```

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## 23251        4        3   0.700558707
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## 25390        4        3   0.699641651
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## 25199       4        3   0.699322814
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## 25238       4        3   0.698983665
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## 25864       4        3   0.698463981
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## 25635       4        3   0.698294099
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```

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## 24406          4          3   0.696844470
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## 24282          4          3   0.696756592
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## 25661          4          3   0.696735528
## 26407          4          3   0.696727181
## 26294          4          3   0.696722056
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## 22632          4          3   0.696542971
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## 24774          4          3   0.696532081
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## 25399          4          3   0.696525842
## 23648          4          3   0.696445438
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## 25530          4          3   0.696412159
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```

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## 23258          4          3   0.696262764
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## 24408          4          3   0.696138306
## 24437          4          3   0.696078537
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## 24459          4          3   0.695694050
## 22711          4          3   0.695641317
## 22847          4          3   0.695573699
## 21743          4          3   0.695544043
## 24945          4          3   0.695537736
## 26094          4          3   0.695486391
## 24538          4          3   0.695435837
## 22774          4          3   0.695409416
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## 24848          4          3   0.695358433
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## 25634          4          3   0.695324908
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## 24955          4          3   0.695228630
## 24177          4          3   0.695224966
## 25008          4          3   0.695206255
## 22465          4          3   0.695189810
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## 26324          4          3   0.695137277
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## 24430          4          3   0.695073295
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```

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## 24327        4        3  0.694924348
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## 24898        4        3  0.694042665
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```

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## 26326      4        3   0.693826580
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```

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```

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## 22955    4       3   0.690698725
## 25729    4       3   0.690694219
## 24960    4       3   0.690663009
## 25483    4       3   0.690629336
## 23165    4       3   0.690615646
## 24739    4       3   0.690612138
## 22096    4       3   0.690609361
## 22141    4       3   0.690554488
## 24906    4       3   0.690499940
## 25487    4       3   0.690489612
## 22662    4       3   0.690450997
## 26141    4       3   0.690449349
```

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## 24938      4      3    0.690441981
## 26557      4      3    0.690406630
## 23152      4      3    0.690404176
## 25370      4      3    0.690392821
## 24954      4      3    0.690373106
## 23214      4      3    0.690373102
## 21744      4      3    0.690354481
## 23067      4      3    0.690290133
## 23151      4      3    0.690248254
## 24952      4      3    0.690231064
## 25409      4      3    0.690221633
## 21914      4      3    0.690211094
## 23900      4      3    0.690186314
## 23405      4      3    0.690180833
## 21898      4      3    0.690093183
## 23785      4      3    0.690082958
## 24205      4      3    0.690078945
## 24775      4      3    0.690078265
## 22228      4      3    0.690077339
## 21890      4      3    0.690074250
## 23159      4      3    0.690069445
## 22505      4      3    0.689992532
## 23740      4      3    0.689969082
## 25610      4      3    0.689937178
## 23357      4      3    0.689929564
## 25524      4      3    0.689918520
## 25490      4      3    0.689906267
## 24743      4      3    0.689851737
## 24872      4      3    0.689847167
## 25533      4      3    0.689829739
## 22308      4      3    0.689801791
## 23688      4      3    0.689731504
## 23156      4      3    0.689696286
## 24803      4      3    0.689685478
## 26719      4      3    0.689650235
## 24192      4      3    0.689648677
## 24710      4      3    0.689530720
## 26539      4      3    0.689514238
## 25640      4      3    0.689504323
## 24347      4      3    0.689474582
## 26554      4      3    0.689470872
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## 24846      4      3    0.689454200
## 22546      4      3    0.689442043
## 22092      4      3    0.689441182
## 22222      4      3    0.689441182
## 24164      4      3    0.689437102
## 24373      4      3    0.689396606
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## 22176      4      3    0.689361761
## 22357      4      3    0.689358632
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## 23640      4      3    0.689347557
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```

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## 24840          4          3   0.689284072
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## 22224          4          3   0.689271329
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## 22178          4          3   0.689244812
## 26095          4          3   0.689232299
## 24097          4          3   0.689226227
## 21774          4          3   0.689215940
## 24092          4          3   0.689176127
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## 21941          4          3   0.689095367
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## 24682          4          3   0.689064723
## 24647          4          3   0.689028376
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## 25639          4          3   0.688872980
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## 23309          4          3   0.688813887
## 24590          4          3   0.688781407
## 21805          4          3   0.688775522
## 24805          4          3   0.688726677
## 25393          4          3   0.688712086
## 24875          4          3   0.688691418
## 24654          4          3   0.688682953
## 26815          4          3   0.688676811
## 23831          4          3   0.688671669
## 26716          4          3   0.688654503
## 24374          4          3   0.688599534
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## 23902          4          3   0.688547511
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## 24990          4          3   0.688381854
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## 23173          4          3   0.688340415
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## 22404          4          3   0.688123289
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```

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## 24695     4      3   0.688040145
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## 25411     4      3   0.687882455
## 22496     4      3   0.687876103
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## 24958     4      3   0.687750703
## 25598     4      3   0.687741533
## 21913     4      3   0.687734010
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## 24994     4      3   0.687637378
## 24728     4      3   0.687630249
## 23153     4      3   0.687615277
## 25641     4      3   0.687603582
## 24961     4      3   0.687602257
## 24381     4      3   0.687580159
## 26117     4      3   0.687534967
## 24992     4      3   0.687524804
## 26254     4      3   0.687517134
## 24242     4      3   0.687497639
## 25605     4      3   0.687419198
## 24991     4      3   0.687353366
## 26555     4      3   0.687353366
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## 25406     4      3   0.687312105
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## 24857     4      3   0.687108703
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## 24795     4      3   0.687041201
## 24886     4      3   0.687023415
## 24580     4      3   0.687011893
## 24957     4      3   0.686901435
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## 24598     4      3   0.686815153
## 24664     4      3   0.686753942
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## 25282     4      3   0.686655765
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## 24562     4      3   0.686591169
## 22109     4      3   0.686584511
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## 25283     4      3   0.686457956
## 25746     4      3   0.686453899
```

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## 25525       4       3   0.686452247
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## 22615       4       3   0.686423312
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## 22301       4       3   0.686407751
## 24797       4       3   0.686310755
## 23154       4       3   0.686258081
## 24804       4       3   0.686252941
## 24762       4       3   0.686126035
## 22493       4       3   0.686109220
## 22737       4       3   0.686062234
## 25157       4       3   0.686051876
## 23408       4       3   0.686026255
## 26320       4       3   0.686024796
## 22007       4       3   0.686020586
## 22358       4       3   0.686014902
## 22163       4       3   0.685991691
## 26816       4       3   0.685972892
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## 24871       4       3   0.685851480
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## 22273       4       3   0.685755687
## 24807       4       3   0.685676955
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## 24355       4       3   0.685617177
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## 24703       4       3   0.685539073
## 25401       4       3   0.685539012
## 26003       4       3   0.685535038
## 21909       4       3   0.685512798
## 22248       4       3   0.685481251
## 26559       4       3   0.685414468
## 21864       4       3   0.685404016
## 21804       4       3   0.685387435
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## 23593       4       3   0.685331624
## 24008       4       3   0.685319918
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## 23966       4       3   0.685288855
## 23917       4       3   0.685254744
## 23541       4       3   0.685171579
## 21784       4       3   0.685160777
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```

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## 22911      4         3   0.684890565
## 21726      4         3   0.684830852
## 25489      4         3   0.684768811
## 23916      4         3   0.684719751
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## 25015      4         3   0.684646491
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## 23372      4         3   0.684519229
## 24103      4         3   0.684494075
## 25623      4         3   0.684461916
## 25018      4         3   0.684445866
## 25607      4         3   0.684438175
## 24248      4         3   0.684408723
## 24930      4         3   0.684393802
## 25131      4         3   0.684376575
## 23559      4         3   0.684376227
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## 24879      4         3   0.684327378
## 26653      4         3   0.684320858
## 24249      4         3   0.684312382
## 25752      4         3   0.684299881
## 23641      4         3   0.684281508
## 24882      4         3   0.684263872
## 26514      4         3   0.684254420
## 25231      4         3   0.684244650
## 24719      4         3   0.684244205
## 25621      4         3   0.684218167
## 25631      4         3   0.684172800
## 22110      4         3   0.684161123
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## 21731      4         3   0.684147364
## 24989      4         3   0.684133108
## 24877      4         3   0.684124290
## 26372      4         3   0.684124290
## 24782      4         3   0.684123652
## 25281      4         3   0.684117714
## 24758      4         3   0.684086977
## 24884      4         3   0.684085130
## 22083      4         3   0.684059524
## 26517      4         3   0.684051639
## 24706      4         3   0.683989667
## 21719      4         3   0.683961086
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## 22025      4         3   0.683915863
## 22897      4         3   0.683896357
## 23557      4         3   0.683894646
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```

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## 25670          4          3    0.683861295
## 25802          4          3    0.683790965
## 24126          4          3    0.683765263
## 24179          4          3    0.683743492
## 21679          4          3    0.683725451
## 25031          4          3    0.683619676
## 24685          4          3    0.683616205
## 26109          4          3    0.683609148
## 25212          4          3    0.683598612
## 25486          4          3    0.683566363
## 21860          4          3    0.683532800
## 22476          4          3    0.683524933
## 25129          4          3    0.683520504
## 22269          4          3    0.683414659
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## 22421          4          3    0.683360086
## 23878          4          3    0.683355581
## 24726          4          3    0.683351950
## 24865          4          3    0.683334616
## 26140          4          3    0.683286687
## 25122          4          3    0.683078630
## 24820          4          3    0.683037218
## 26371          4          3    0.683033207
## 24216          4          3    0.683023784
## 24399          4          3    0.683010794
## 24351          4          3    0.683008891
## 25004          4          3    0.682992747
## 24372          4          3    0.682989361
## 25166          4          3    0.682947921
## 24921          4          3    0.682945813
## 26813          4          3    0.682915107
## 25627          4          3    0.682835488
## 25189          4          3    0.682815871
## 25112          4          3    0.682793702
## 25210          4          3    0.682729273
## 26162          4          3    0.682724227
## 25028          4          3    0.682694106
## 21849          4          3    0.682675760
## 22118          4          3    0.682650458
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## 25110          4          3    0.682601564
## 24620          4          3    0.682557166
## 24949          4          3    0.682528011
## 21749          4          3    0.682473362
## 22703          4          3    0.682466629
## 25184          4          3    0.682374215
## 25033          4          3    0.682361864
## 24858          4          3    0.682358739
## 24999          4          3    0.682265841
## 26718          4          3    0.682244979
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```

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## 21678        4        3   0.682198737
## 24465        4        3   0.682159014
## 24856        4        3   0.682159014
## 24784        4        3   0.682082060
## 24185        4        3   0.682050978
## 22991        4        3   0.682006832
## 22161        4        3   0.681990543
## 22160        4        3   0.681956534
## 22905        4        3   0.681855166
## 21762        4        3   0.681807741
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## 26477        4        3   0.681710139
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## 23213        4        3   0.681622383
## 22133        4        3   0.681620311
## 22226        4        3   0.681618810
## 23169        4        3   0.681616593
## 22074        4        3   0.681598964
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## 22869        4        3   0.681528883
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## 24885        4        3   0.681473663
## 22706        4        3   0.681460174
## 24796        4        3   0.681457330
## 26604        4        3   0.681442905
## 24732        4        3   0.681384007
## 21781        4        3   0.681372290
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## 25117        4        3   0.681327520
## 26185        4        3   0.681254285
## 25394        4        3   0.681251611
## 22719        4        3   0.681246174
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## 25021        4        3   0.680945854
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```

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## 25124      4       3   0.680926577
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```

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## 24908          4          3   0.679481099
## 25054          4          3   0.679481099
## 25011          4          3   0.679426878
## 25646          4          3   0.679419717
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## 23231          4          3   0.679173963
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## 21725          4          3   0.678698615
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```

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## 24709        4        3   0.677646676
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## 24985        4        3   0.677619011
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## 24829        4        3   0.677506894
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## 24818        4        3   0.677448001
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## 21723        4        3   0.677199010
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```

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## 23139       4       3   0.677111951
## 23112       4       3   0.677072666
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## 26280       4       3   0.676972658
## 23142       4       3   0.676969755
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## 25192       4       3   0.675851726
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```

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```

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## 25285       4        3   0.673544918
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## 26685      4      3   0.672617688
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## 25851      4      3   0.671291035
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## 25846      4      3   0.671211963
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## 23143          4          3  0.670743676
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## 26440          4          3  0.670244168
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## 24859          4          3  0.670056077
## 24683          4          3  0.670045267
## 25204          4          3  0.670011214
## 26225          4          3  0.669946838
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## 25714          4          3  0.669352062
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## 21862     4     3  0.667640931
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```

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```

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## 22347     4     3    0.663508787
## 26811     4     3    0.663503405
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## 22747     4     3    0.663462381
## 25145     4     3    0.663439299
## 26270     4     3    0.663423456
## 25005     4     3    0.663414368
## 25198     4     3    0.663413230
## 25500     4     3    0.663378822
## 24922     4     3    0.663358047
## 21926     4     3    0.663277131
## 24816     4     3    0.663225153
## 24821     4     3    0.663221000
## 25020     4     3    0.663218014
## 22650     4     3    0.663155084
## 22297     4     3    0.663116413
## 21633     4     3    0.663103975
## 21939     4     3    0.663066329
```

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## 23017     4     3  0.662916954
## 24219     4     3  0.662906678
## 22772     4     3  0.662901207
## 25160     4     3  0.662896446
## 22466     4     3  0.662896417
## 25602     4     3  0.662845404
## 26089     4     3  0.662828497
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## 22434     4     3  0.662805165
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## 22059     4     3  0.662681169
## 25812     4     3  0.662637073
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## 26820     4     3  0.662555813
## 22365     4     3  0.662509113
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## 25597     4     3  0.661979838
## 26144     4     3  0.661978609
## 26357     4     3  0.661915229
## 21765     4     3  0.661897106
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## 25309     4     3  0.661788880
## 23203     4     3  0.661756003
## 25253     4     3  0.661746459
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## 25270     4     3  0.661675061
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## 25582     4     3  0.661602457
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## 25216     4     3  0.661467264
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```

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## 24817         4         3   0.661240052
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## 24965         4         3   0.661173175
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## 25587         4         3   0.660817200
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## 26191         4         3   0.660790297
## 21578         4         3   0.660751732
## 26803         4         3   0.660733846
## 26805         4         3   0.660726069
## 26292         4         3   0.660714824
## 25923         4         3   0.660710312
## 22168         4         3   0.660688280
## 25114         4         3   0.660683883
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## 21503         4         3   0.660534758
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## 21665         4         3   0.660462406
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## 25397         4         3   0.659845907
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```

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## 25687        4        3   0.659774353
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## 23643        4        3   0.659147739
## 21796        4        3   0.659145540
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## 25894        4        3   0.658995164
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## 25899        4        3   0.658941952
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## 25896        4        3   0.658737122
## 25882        4        3   0.658664426
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## 26381        4        3   0.658373057
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## 25194        4        3   0.658149707
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## 22267        4        3   0.658061820
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## 21671        4        3   0.657825197
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```

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## 22948         4          3    0.657766395
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## 25826         4          3    0.657702882
## 25504         4          3    0.657684866
## 25992         4          3    0.657672183
## 26084         4          3    0.657654094
## 25378         4          3    0.657649732
## 22947         4          3    0.657641926
## 26072         4          3    0.657624023
## 25505         4          3    0.657576024
## 26073         4          3    0.657574842
## 26758         4          3    0.657567618
## 25816         4          3    0.657565138
## 25419         4          3    0.657495754
## 25315         4          3    0.657481430
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## 25584         4          3    0.657363869
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## 25674         4          3    0.657310748
## 26431         4          3    0.657303147
## 25396         4          3    0.657289500
## 25710         4          3    0.657269245
## 25644         4          3    0.657263963
## 25152         4          3    0.657263199
## 26074         4          3    0.657201718
## 25346         4          3    0.657148431
## 26229         4          3    0.657034411
## 25342         4          3    0.656944448
## 22071         4          3    0.656944301
## 24788         4          3    0.656919147
## 25556         4          3    0.656816937
## 26157         4          3    0.656636466
## 26759         4          3    0.656632461
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## 26243         4          3    0.656550730
## 25013         4          3    0.656533966
## 25418         4          3    0.656385449
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## 21516         4          3    0.656332545
## 21772         4          3    0.656327724
## 25715         4          3    0.656265425
## 26098         4          3    0.656259392
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## 26064         4          3    0.656255384
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```

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## 21669      4      3   0.656071714
## 21522      4      3   0.656060266
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## 26103      4      3   0.656026473
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## 26361      4      3   0.655979813
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## 26764      4      3   0.655965858
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## 24947      4      3   0.655397369
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## 25032      4      3   0.655299188
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## 26163      4      3   0.655276573
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## 26808      4      3   0.654304054
## 21527      4      3   0.654289353
## 21802      4      3   0.654250847
## 25254      4      3   0.654241722
## 22169      4      3   0.654225335
## 25336      4      3   0.654211025
```

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## 22949      4      3   0.654107036
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## 22762      4      3   0.654024289
## 21799      4      3   0.654011946
## 21462      4      3   0.653994362
## 25915      4      3   0.653968098
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## 25596      4      3   0.653908118
## 26525      4      3   0.653903948
## 25931      4      3   0.653842473
## 25809      4      3   0.653793996
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## 26083      4      3   0.653775175
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## 22773      4      3   0.653700323
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## 25590      4      3   0.653543711
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## 26079      4      3   0.653074624
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## 26078      4      3   0.652779285
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## 21838      4      3   0.652712869
## 25559      4      3   0.652704566
## 25822      4      3   0.652688789
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```

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## 25671      4        3    0.652454197
## 26216      4        3    0.652445403
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## 26101      4        3    0.652289892
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## 21507      4        3    0.651207715
## 26142      4        3    0.651203865
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## 25777      4        3    0.651015235
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```

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## 25002      4      3   0.650928072
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## 26448      4      3   0.650652546
## 22645      4      3   0.650602406
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```

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## 22902          4          3   0.648861401
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## 26548          4          3   0.648470582
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## 25805          4          3   0.648405962
## 22069          4          3   0.648363663
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```

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## 25927        4        3   0.646892631
## 25583        4        3   0.646856426
## 25653        4        3   0.646827194
## 26149        4        3   0.646804971
## 25648        4        3   0.646735161
## 26199        4        3   0.646702400
## 25973        4        3   0.646701367
## 26494        4        3   0.646649516
## 21836        4        3   0.646622986
## 21451        4        3   0.646560786
## 24724        4        3   0.646476955
## 21452        4        3   0.646434983
## 21618        4        3   0.646361130
## 25989        4        3   0.646274382
## 21619        4        3   0.646255193
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## 25417        4        3   0.646181838
## 26564        4        3   0.646096550
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## 21340        4        3   0.645975420
## 26428        4        3   0.645869712
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## 26425        4        3   0.645590377
## 26424        4        3   0.645552159
## 25338        4        3   0.645463787
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## 21342        4        3   0.645150751
## 25778        4        3   0.645077459
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## 21747        4        3   0.645054427
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## 25856        4        3   0.644918516
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## 22937        4        3   0.644751613
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## 25679        4        3   0.644699297
## 25585        4        3   0.644665288
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## 22489        4        3   0.644551393
## 22942        4        3   0.644434150
## 26201        4        3   0.644419483
```

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## 21842        4        3    0.644230662
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## 22106        4        3    0.643999303
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## 22292        4        3    0.643896574
## 26589        4        3    0.643855746
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## 21450        4        3    0.643782152
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## 22154        4        3    0.643279052
## 25612        4        3    0.643265730
## 25720        4        3    0.643260705
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## 25109        4        3    0.643147008
## 21291        4        3    0.643146107
## 25978        4        3    0.643125317
## 22885        4        3    0.643084343
## 26205        4        3    0.643011270
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## 26264        4        3    0.642907166
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## 25830        4        3    0.642810189
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## 22015        4        3    0.642648311
## 22490        4        3    0.642626247
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## 25215        4        3    0.642164096
## 22495        4        3    0.642091123
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## 22360        4        3    0.641467651
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```

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## 21258      4        3    0.641281809
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## 22946      4        3    0.641216925
## 25759      4        3    0.641213796
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## 21412      4        3    0.641195638
## 21666      4        3    0.641182755
## 25663      4        3    0.641173755
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## 21337      4        3    0.641158860
## 25758      4        3    0.641147131
## 24325      4        3    0.641145734
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## 26745      4        3    0.641112875
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## 22890      4        3    0.639014261
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## 21846      4        3    0.638875911
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```

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## 26221      4        3   0.638125378
## 25739      4        3   0.638106259
## 23134      4        3   0.638075047
## 25609      4        3   0.637990977
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## 26760      4        3   0.637725019
## 21529      4        3   0.637708849
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## 26400      4        3   0.637706873
## 25369      4        3   0.637700609
## 25591      4        3   0.637632435
## 21455      4        3   0.637605162
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## 25654      4        3   0.635372631
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```

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## 21683         4         3   0.635171977
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## 26546         4         3   0.633889909
## 26435         4         3   0.633837238
## 21995         4         3   0.633491943
## 25359         4         3   0.633248951
## 25593         4         3   0.633204680
## 21167         4         3   0.633177570
## 25742         4         3   0.633098978
## 21266         4         3   0.633073813
## 22733         4         3   0.633050077
## 21714         4         3   0.632985040
## 21584         4         3   0.632816124
## 21502         4         3   0.632813659
## 25737         4         3   0.632785393
## 21736         4         3   0.632740448
## 22361         4         3   0.632628098
## 21521         4         3   0.632319963
## 22883         4         3   0.632258823
## 22481         4         3   0.632114355
## 21907         4         3   0.631679284
## 23586         4         3   0.631458808
## 21682         4         3   0.631118875
## 22779         4         3   0.631004062
## 21170         4         3   0.630796877
## 26398         4         3   0.630738872
## 21893         4         3   0.630718911
## 22797         4         3   0.630623046
## 22892         4         3   0.630556969
## 21384         4         3   0.630460804
## 21383         4         3   0.630430159
## 22363         4         3   0.630352653
## 22291         4         3   0.630325438
## 21526         4         3   0.630230693
## 26297         4         3   0.630220076
## 25589         4         3   0.630153377
## 21904         4         3   0.630118318
## 21336         4         3   0.630056980
## 22139         4         3   0.629932933
## 21537         4         3   0.629870383
## 21311         4         3   0.629744521
## 22939         4         3   0.629744342
## 21840         4         3   0.629716215
## 22936         4         3   0.629637459
## 21586         4         3   0.629606148
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## 21094      4        3   0.628303184
## 21218      4        3   0.628252428
## 21276      4        3   0.628149809
## 22922      4        3   0.628018467
## 23019      4        3   0.628013361
## 21675      4        3   0.627979438
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## 22066      4        3   0.627929812
## 21416      4        3   0.627920102
## 21288      4        3   0.627896007
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## 22920      4        3   0.627640588
## 21314      4        3   0.627621841
## 26082      4        3   0.627461840
## 21315      4        3   0.627404097
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## 21905      4        3   0.626448642
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## 22884      4        3   0.626028452
## 21147      4        3   0.626021099
## 21316      4        3   0.625938946
## 22938      4        3   0.625926385
## 22408      4        3   0.625925506
## 22479      4        3   0.625883101
## 21112      4        3   0.625864075
## 21290      4        3   0.625857421
## 21286      4        3   0.625704793
## 21763      4        3   0.625236222
## 22247      4        3   0.625217371
## 22921      4        3   0.625043826
## 21582      4        3   0.624975985
## 22266      4        3   0.624939365
## 22246      4        3   0.624797140
## 25898      4        3   0.624726718
## 21236      4        3   0.624485652
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## 21248      4        3   0.624291530
## 21532      4        3   0.624254320
## 21734      4        3   0.623916976
## 22879      4        3   0.622533132
## 21216      4        3   0.622399502
```

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## 22881        4        3   0.622323002
## 22917        4        3   0.622290616
## 23020        4        3   0.622156754
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## 22924        4        3   0.621896003
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## 22925        4        3   0.621412760
## 21318        4        3   0.621412004
## 21722        4        3   0.621286782
## 21769        4        3   0.621276657
## 22130        4        3   0.621225967
## 22702        4        3   0.621190767
## 22705        4        3   0.620860552
## 23130        4        3   0.620745845
## 21896        4        3   0.620552225
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## 22919        4        3   0.619588695
## 21437        4        3   0.619451419
## 22916        4        3   0.619450221
## 22918        4        3   0.619412178
## 21214        4        3   0.619338761
## 22060        4        3   0.619316725
## 21149        4        3   0.619232331
## 21443        4        3   0.619207309
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## 21677        4        3   0.618983886
## 21676        4        3   0.618688903
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## 22926        4        3   0.618033867
## 22487        4        3   0.617926920
## 21317        4        3   0.617911507
## 21630        4        3   0.617827688
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## 21574        4        3   0.617417139
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## 22023        4        3   0.617124962
## 21585        4        3   0.617083996
## 21289        4        3   0.617021824
## 26617        4        3   0.616865179
## 21439        4        3   0.616657872
## 21696        4        3   0.616429519
## 26619        4        3   0.616422888
## 21069        4        3   0.616144794
## 22732        4        3   0.615959239
## 21292        4        3   0.615945864
## 23467        4        3   0.615729610
## 21839        4        3   0.615546205
## 26158        4        3   0.615399337
```

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## 21418      4      3   0.615042065
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## 23807      4      3   0.614888611
## 23651      4      3   0.614882512
## 22915      4      3   0.614664775
## 21255      4      3   0.614035070
## 21338      4      3   0.613681889
## 21789      4      3   0.613318028
## 21611      4      3   0.613104462
## 21438      4      3   0.613011853
## 21610      4      3   0.612945433
## 21464      4      3   0.612925002
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## 21786      4      3   0.612762349
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## 22809      4      3   0.609617922
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## 21235      4      3   0.609218493
## 21720      4      3   0.608874040
## 21217      4      3   0.608861688
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```

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## 21445       4        3   0.607163061
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## 21275       4        3   0.605048200
## 21271       4        3   0.605002077
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## 22970       4        3   0.600940253
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## 21095       4        3   0.600457783
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## 21406       4        3   0.600334887
## 20962       4        3   0.600155103
## 21116       4        3   0.600075469
## 20940       4        3   0.599998284
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```

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## 22020          4          3   0.599639802
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## 22927          4          3   0.599525218
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## 21692          4          3   0.599462961
## 21303          4          3   0.599381493
## 24474          4          3   0.599269029
## 20939          4          3   0.599239310
## 20755          4          3   0.599160384
## 21634          4          3   0.599116341
## 21698          4          3   0.599057969
## 22597          4          3   0.598582476
## 21179          4          3   0.598542565
## 20979          4          3   0.598507438
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## 21312          4          3   0.597550215
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## 21198          4          3   0.597138385
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## 21635          4          3   0.596666228
## 21900          4          3   0.595987009
## 21436          4          3   0.595944141
## 20969          4          3   0.595761049
## 21421          4          3   0.595591776
## 24480          4          3   0.595392558
## 22485          4          3   0.595310029
## 21453          4          3   0.595287085
## 21621          4          3   0.595211700
## 22590          4          3   0.595175310
## 21644          4          3   0.595133543
## 22598          4          3   0.595068199
## 20938          4          3   0.594995799
## 21405          4          3   0.594408241
## 21844          4          3   0.594391475
## 21056          4          3   0.594338267
## 21626          4          3   0.594143319
## 21310          4          3   0.594100134
## 22442          4          3   0.594089774
## 20953          4          3   0.593985291
## 22441          4          3   0.593666740
## 22080          4          3   0.593596285
## 21408          4          3   0.593543618
## 20955          4          3   0.593526731
## 24482          4          3   0.593175248
## 21538          4          3   0.593097674
## 21596          4          3   0.593067095
## 21540          4          3   0.592988369
```

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## 22599      4        3   0.592965311
## 22593      4        3   0.592889154
## 20961      4        3   0.591583495
## 22796      4        3   0.591200650
## 22912      4        3   0.591155633
## 21287      4        3   0.590781374
## 21448      4        3   0.590683955
## 26689      4        3   0.590472757
## 23999      4        3   0.590457482
## 24477      4        3   0.590432090
## 21417      4        3   0.590377078
## 21126      4        3   0.590301190
## 22602      4        3   0.590284407
## 22751      4        3   0.590267967
## 21354      4        3   0.590194804
## 21124      4        3   0.590177927
## 24000      4        3   0.590119563
## 21043      4        3   0.590117218
## 21202      4        3   0.589188096
## 22519      4        3   0.588984946
## 21120      4        3   0.588972338
## 22179      4        3   0.588891439
## 20796      4        3   0.588781132
## 21265      4        3   0.588633254
## 21232      4        3   0.588579316
## 21454      4        3   0.588526726
## 21297      4        3   0.588295776
## 22517      4        3   0.588263518
## 20725      4        3   0.588161083
## 26615      4        3   0.588111959
## 21299      4        3   0.587925165
## 21121      4        3   0.587859074
## 20937      4        3   0.587313724
## 21125      4        3   0.587284266
## 22594      4        3   0.587233152
## 23808      4        3   0.586603485
## 21178      4        3   0.586567015
## 21442      4        3   0.586355116
## 21955      4        3   0.586352933
## 20957      4        3   0.586231126
## 20956      4        3   0.586187695
## 22520      4        3   0.586025178
## 21358      4        3   0.586023720
## 21113      4        3   0.585342931
## 22024      4        3   0.585245235
## 20973      4        3   0.584807593
## 21237      4        3   0.584768399
## 22518      4        3   0.584738632
## 22585      4        3   0.584655088
## 22516      4        3   0.584646882
## 22808      4        3   0.584615399
## 22524      4        3   0.584574108
## 21119      4        3   0.584439637
## 20726      4        3   0.584167064
```

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## 22595        4        3   0.583937179
## 21212        4        3   0.583714008
## 21302        4        3   0.583613432
## 21319        4        3   0.583091063
## 22414        4        3   0.582501107
## 24471        4        3   0.582495730
## 20754        4        3   0.582355727
## 22521        4        3   0.582022991
## 20960        4        3   0.581829328
## 22605        4        3   0.581763300
## 21234        4        3   0.581688552
## 22021        4        3   0.581552187
## 21624        4        3   0.581445553
## 22971        4        3   0.581436308
## 21614        4        3   0.581356839
## 21695        4        3   0.581312237
## 21616        4        3   0.581262223
## 21181        4        3   0.581245714
## 22969        4        3   0.581241783
## 22600        4        3   0.579783683
## 20713        4        3   0.579552244
## 24469        4        3   0.579471863
## 21089        4        3   0.579421031
## 20759        4        3   0.579377652
## 22459        4        3   0.577818651
## 23470        4        3   0.577802593
## 20635        4        3   0.577764319
## 21225        4        3   0.577756232
## 20617        4        3   0.577583287
## 20756        4        3   0.577224081
## 22454        4        3   0.577219360
## 22457        4        3   0.577121719
## 21528        4        3   0.577079437
## 20702        4        3   0.577016502
## 20778        4        3   0.576960660
## 21694        4        3   0.576889866
## 21306        4        3   0.576839608
## 21057        4        3   0.576714750
## 24470        4        3   0.576558379
## 20968        4        3   0.576547723
## 21233        4        3   0.576454197
## 24472        4        3   0.576353626
## 24491        4        3   0.576254829
## 22460        4        3   0.576105801
## 21064        4        3   0.576046152
## 24479        4        3   0.576045596
## 22453        4        3   0.576017931
## 24476        4        3   0.575858627
## 21328        4        3   0.575833463
## 21313        4        3   0.575735748
## 21150        4        3   0.575664464
## 21330        4        3   0.575619473
## 22596        4        3   0.575504376
## 21629        4        3   0.575489739
```

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## 22484      4      3   0.575292234
## 20703      4      3   0.575250702
## 22458      4      3   0.575212826
## 24489      4      3   0.575165252
## 23460      4      3   0.575096904
## 22462      4      3   0.574924111
## 21101      4      3   0.574881403
## 21100      4      3   0.574842181
## 20636      4      3   0.574773042
## 20626      4      3   0.574690397
## 21407      4      3   0.574262328
## 24468      4      3   0.573425734
## 21598      4      3   0.573353268
## 21118      4      3   0.573324396
## 21203      4      3   0.573324271
## 21052      4      3   0.573040173
## 20933      4      3   0.572994945
## 22461      4      3   0.572963811
## 21756      4      3   0.572929773
## 20971      4      3   0.572825131
## 22456      4      3   0.572719820
## 21404      4      3   0.571989415
## 21357      4      3   0.571840525
## 20771      4      3   0.571644298
## 21262      4      3   0.571612365
## 23804      4      3   0.571594775
## 20976      4      3   0.571448200
## 20775      4      3   0.571408325
## 21092      4      3   0.571370225
## 21684      4      3   0.571135463
## 21693      4      3   0.571120950
## 24467      4      3   0.569365997
## 22523      4      3   0.569358729
## 20752      4      3   0.569266372
## 21307      4      3   0.568964032
## 26612      4      3   0.568765290
## 21065      4      3   0.568642337
## 23845      4      3   0.568526286
## 20628      4      3   0.568376533
## 20972      4      3   0.568333380
## 21329      4      3   0.568213567
## 20616      4      3   0.568107357
## 22515      4      3   0.567701454
## 21123      4      3   0.566764843
## 21622      4      3   0.566526791
## 21539      4      3   0.566513122
## 21447      4      3   0.566411384
## 22603      4      3   0.566329444
## 23806      4      3   0.565909311
## 26662      4      3   0.565886488
## 21224      4      3   0.565693322
## 20970      4      3   0.565682340
## 20705      4      3   0.565607297
## 20893      4      3   0.565599843
```

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## 20699          4          3   0.565507608
## 22449          4          3   0.565495992
## 23190          4          3   0.565394880
## 20551          4          3   0.565353628
## 20654          4          3   0.565323176
## 21295          4          3   0.565266529
## 20615          4          3   0.565229686
## 21954          4          3   0.565177805
## 24484          4          3   0.565170935
## 20700          4          3   0.565135762
## 22514          4          3   0.565132175
## 22914          4          3   0.565110992
## 21134          4          3   0.565052702
## 22488          4          3   0.564961681
## 21449          4          3   0.564952749
## 20967          4          3   0.564838015
## 21327          4          3   0.564710256
## 21222          4          3   0.564596097
## 22455          4          3   0.564592239
## 26499          4          3   0.563909920
## 21096          4          3   0.562943117
## 21098          4          3   0.562861439
## 21051          4          3   0.562693035
## 21326          4          3   0.562315717
## 21223          4          3   0.561920162
## 20931          4          3   0.561827996
## 20975          4          3   0.561677899
## 20564          4          3   0.561598890
## 21099          4          3   0.561430625
## 24473          4          3   0.561338308
## 20687          4          3   0.561217107
## 22592          4          3   0.561172971
## 21145          4          3   0.561162450
## 22756          4          3   0.561084766
## 21949          4          3   0.561038442
## 21097          4          3   0.561016839
## 21597          4          3   0.560915905
## 22447          4          3   0.560891709
## 21142          4          3   0.560800930
## 21054          4          3   0.560706434
## 21164          4          3   0.559457185
## 20894          4          3   0.558642020
## 24486          4          3   0.558004291
## 20704          4          3   0.557983549
## 20627          4          3   0.557962997
## 24490          4          3   0.557958125
## 21950          4          3   0.557794705
## 22451          4          3   0.557696692
## 21122          4          3   0.557248479
## 20912          4          3   0.556681504
## 23189          4          3   0.556408841
## 22601          4          3   0.556171339
## 21177          4          3   0.555946269
## 20552          4          3   0.555862384
```

```
## 21952        4        3    0.555824079
## 21072        4        3    0.555663474
## 22525        4        3    0.555657160
## 21305        4        3    0.555552279
## 20767        4        3    0.554163273
## 22127        4        3    0.553685875
## 23459        4        3    0.553621015
## 21060        4        3    0.553406262
## 22076        4        3    0.552845113
## 20941        4        3    0.552804930
## 21210        4        3    0.552788520
## 23492        4        3    0.552715679
## 20982        4        3    0.552679589
## 21713        4        3    0.552646590
## 21231        4        3    0.552598511
## 22337        4        3    0.552508442
## 22336        4        3    0.552426646
## 20610        4        3    0.552310917
## 26842        4        3    0.551740373
## 20696        4        3    0.551551251
## 26608        4        3    0.551461064
## 26609        4        3    0.551421464
## 21090        4        3    0.550823157
## 26614        4        3    0.550799520
## 21304        4        3    0.550676280
## 21953        4        3    0.550652399
## 21136        4        3    0.550549467
## 21196        4        3    0.550206746
## 20934        4        3    0.550201829
## 22331        4        3    0.550143281
## 20902        4        3    0.550135279
## 21160        4        3    0.550084693
## 20711        4        3    0.550020603
## 20596        4        3    0.550006767
## 21162        4        3    0.549999525
## 22450        4        3    0.549895958
## 21325        4        3    0.549880358
## 24487        4        3    0.549614506
## 22448        4        3    0.549545769
## 21753        4        3    0.549514790
## 26766        4        3    0.549192607
## 21688        4        3    0.548798154
## 26496        4        3    0.548770561
## 22334        4        3    0.548685359
## 22335        4        3    0.548685359
## 22037        4        3    0.548502207
## 23493        4        3    0.548492614
## 21139        4        3    0.548464376
## 20678        4        3    0.548296601
## 20942        4        3    0.546241984
## 20519        4        3    0.546161400
## 21165        4        3    0.546132211
## 20901        4        3    0.546072275
## 21166        4        3    0.546039159
```

```
## 20766       4        3   0.545882790
## 22446       4        3   0.545864911
## 21754       4        3   0.545844685
## 20553       4        3   0.545760465
## 21691       4        3   0.545665051
## 20974       4        3   0.545265413
## 20947       4        3   0.545242792
## 21298       4        3   0.545228280
## 21061       4        3   0.545186415
## 21066       4        3   0.544870574
## 22452       4        3   0.544432091
## 21063       4        3   0.544408175
## 20935       4        3   0.544368821
## 20776       4        3   0.544303822
## 20701       4        3   0.544087730
## 20465       4        3   0.543700631
## 21140       4        3   0.543654705
## 21689       4        3   0.543419351
## 20531       4        3   0.542059090
## 21071       4        3   0.541724512
## 21755       4        3   0.541640294
## 20550       4        3   0.541560140
## 20943       4        3   0.541487993
## 23584       4        3   0.540151093
## 20623       4        3   0.540056914
## 20676       4        3   0.540052034
## 21152       4        3   0.539965622
## 21091       4        3   0.539893234
## 22522       4        3   0.539776866
## 20709       4        3   0.539751273
## 20518       4        3   0.539631505
## 21155       4        3   0.539602510
## 22378       4        3   0.539536853
## 20932       4        3   0.539399735
## 20690       4        3   0.539354200
## 21506       4        3   0.539325965
## 22321       4        3   0.539287466
## 20936       4        3   0.539207601
## 21301       4        3   0.539016366
## 26544       4        3   0.538746399
## 21157       4        3   0.538618457
## 21171       4        3   0.538173780
## 22324       4        3   0.538172583
## 22211       4        3   0.538151744
## 20677       4        3   0.537608880
## 20697       4        3   0.537608880
## 22807       4        3   0.537489756
## 20719       4        3   0.537413476
## 20706       4        3   0.537275614
## 20546       4        3   0.537255610
## 21159       4        3   0.537165668
## 20698       4        3   0.537146992
## 20625       4        3   0.537082921
## 20764       4        3   0.537073002
```

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## 22210     4     3   0.536977602
## 20394     4     3   0.536952011
## 20545     4     3   0.536923420
## 22320     4     3   0.536914815
## 21146     4     3   0.536896023
## 21710     4     3   0.536885910
## 26497     4     3   0.536875598
## 21687     4     3   0.536789229
## 20710     4     3   0.536733662
## 26751     4     3   0.536670073
## 22377     4     3   0.535587556
## 22322     4     3   0.535240684
## 22326     4     3   0.535059014
## 21153     4     3   0.534945635
## 20762     4     3   0.534844113
## 21083     4     3   0.534306705
## 24488     4     3   0.534172502
## 24485     4     3   0.534078088
## 21296     4     3   0.534006673
## 24483     4     3   0.533961035
## 21197     4     3   0.533878358
## 21690     4     3   0.533713307
## 21324     4     3   0.533564284
## 20765     4     3   0.533545663
## 21505     4     3   0.533463647
## 21600     4     3   0.533361221
## 20695     4     3   0.533335820
## 22330     4     3   0.533218522
## 20674     4     3   0.532950354
## 20494     4     3   0.532896811
## 26498     4     3   0.532592061
## 21323     4     3   0.532577429
## 20718     4     3   0.532478562
## 22445     4     3   0.532453491
## 21082     4     3   0.532398528
## 22806     4     3   0.532295544
## 20717     4     3   0.532082036
## 26416     4     3   0.530837423
## 20590     4     3   0.530693899
## 26541     4     3   0.530571813
## 20526     4     3   0.530427572
## 20637     4     3   0.530418470
## 20532     4     3   0.529733214
## 20693     4     3   0.529425824
## 22329     4     3   0.529410807
## 26562     4     3   0.529200704
## 22333     4     3   0.528995371
## 21712     4     3   0.527810645
## 20530     4     3   0.527522224
## 26500     4     3   0.527458802
## 21172     4     3   0.525677757
## 26829     4     3   0.525667499
## 20707     4     3   0.525564588
## 21211     4     3   0.525564588
```

```
## 20493         4         3   0.525549803
## 21137         4         3   0.525359402
## 26830         4         3   0.525352326
## 20458         4         3   0.525319802
## 26828         4         3   0.525319802
## 21194         4         3   0.525310542
## 22206         4         3   0.525257268
## 20724         4         3   0.525227180
## 26840         4         3   0.524982914
## 20437         4         3   0.524815752
## 22332         4         3   0.524670968
## 20622         4         3   0.524506349
## 20460         4         3   0.524418837
## 20436         4         3   0.524384577
## 20524         4         3   0.524068943
## 21322         4         3   0.523970113
## 26415         4         3   0.523939604
## 20536         4         3   0.523879253
## 22207         4         3   0.523865312
## 23273         4         3   0.523853601
## 20591         4         3   0.523545858
## 20475         4         3   0.523259991
## 21947         4         3   0.523197591
## 20490         4         3   0.523129637
## 22208         4         3   0.522861983
## 20476         4         3   0.522791961
## 22201         4         3   0.522707079
## 26839         4         3   0.522533723
## 26613         4         3   0.522200971
## 21209         4         3   0.522166699
## 22180         4         3   0.522077070
## 20554         4         3   0.522013050
## 21352         4         3   0.521784393
## 20770         4         3   0.521756242
## 21945         4         3   0.521662095
## 20491         4         3   0.521596838
## 22989         4         3   0.521573110
## 26827         4         3   0.521149703
## 20478         4         3   0.521015821
## 22203         4         3   0.520973567
## 22591         4         3   0.520591039
## 21948         4         3   0.520494515
## 21221         4         3   0.520265475
## 22328         4         3   0.519706973
## 26831         4         3   0.519472645
## 26835         4         3   0.518606234
## 26832         4         3   0.518502871
## 20981         4         3   0.518380739
## 20753         4         3   0.516967607
## 26826         4         3   0.516714290
## 20592         4         3   0.516633440
## 22444         4         3   0.516578721
## 21709         4         3   0.516395176
## 21161         4         3   0.516335828
```

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## 20425         4         3   0.516263608
## 26834         4         3   0.516098228
## 20708         4         3   0.515902183
## 20395         4         3   0.515836823
## 20689         4         3   0.515576973
## 21195         4         3   0.514882257
## 20712         4         3   0.514678306
## 20492         4         3   0.513875367
## 20457         4         3   0.513628880
## 26841         4         3   0.513599179
## 20451         4         3   0.513116363
## 20593         4         3   0.513075760
## 20389         4         3   0.511709218
## 21156         4         3   0.511507485
## 20446         4         3   0.511254482
## 20556         4         3   0.511036125
## 22193         4         3   0.510908526
## 20723         4         3   0.510875558
## 20646         4         3   0.510757432
## 20388         4         3   0.510757314
## 26789         4         3   0.510648220
## 21599         4         3   0.510508014
## 20312         4         3   0.510355260
## 26791         4         3   0.509792596
## 26561         4         3   0.509632889
## 20692         4         3   0.509594461
## 22397         4         3   0.509586447
## 22327         4         3   0.509508115
## 21300         4         3   0.509496534
## 20489         4         3   0.509478879
## 26788         4         3   0.509442798
## 26783         4         3   0.509411408
## 26784         4         3   0.509411408
## 23585         4         3   0.509360036
## 20694         4         3   0.509344817
## 20544         4         3   0.509227477
## 20387         4         3   0.508483139
## 20595         4         3   0.508461873
## 20487         4         3   0.508433086
## 26414         4         3   0.508295450
## 26794         4         3   0.508030957
## 26797         4         3   0.507897829
## 20313         4         3   0.507862870
## 22396         4         3   0.506910768
## 20501         4         3   0.506797771
## 20688         4         3   0.506703410
## 26795         4         3   0.506595724
## 20459         4         3   0.506327823
## 23039         4         3   0.506261892
## 20691         4         3   0.506234016
## 26799         4         3   0.506221982
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## 20515         4         3   0.505737599
## 21088         4         3   0.505703341
```

```
## 20477      4        3   0.505681996
## 20430      4        3   0.504898213
## 20966      4        3   0.504579989
## 20488      4        3   0.504404232
## 21086      4        3   0.504092786
## 20763      4        3   0.504038594
## 20555      4        3   0.504033810
## 21651      4        3   0.504027481
## 26796      4        3   0.503893317
## 26800      4        3   0.503865883
## 20464      4        3   0.503849954
## 21308      4        3   0.502421973
## 20597      4        3   0.502200215
## 21943      4        3   0.502188984
## 21154      4        3   0.501969412
## 26485      4        3   0.501962585
## 20403      4        3   0.501929731
## 20769      4        3   0.501857561
## 21158      4        3   0.501852466
## 20513      4        3   0.501610904
## 20525      4        3   0.501533326
## 22642      4        3   0.498924560
## 20311      4        3   0.498893492
## 22195      4        3   0.498676708
## 20334      4        3   0.498611733
## 26781      4        3   0.498514492
## 21163      4        3   0.498427851
## 20447      4        3   0.498371420
## 26786      4        3   0.498352236
## 22209      4        3   0.497661823
## 20405      4        3   0.497585758
## 22205      4        3   0.497232727
## 20517      4        3   0.496733033
## 20768      4        3   0.496463065
## 20516      4        3   0.496387574
## 20401      4        3   0.495753303
## 20385      4        3   0.495643112
## 20243      4        3   0.495402983
## 24336      4        3   0.495374396
## 24335      4        3   0.495360368
## 22196      4        3   0.495344593
## 22187      4        3   0.495336117
## 20223      4        3   0.495289131
## 20400      4        3   0.495216501
## 22184      4        3   0.495116017
## 26793      4        3   0.494855314
## 21650      4        3   0.494781151
## 21660      4        3   0.494776912
## 20633      4        3   0.494694288
## 20722      4        3   0.494661887
## 20621      4        3   0.494531227
## 24339      4        3   0.494531227
## 20429      4        3   0.494400545
## 24331      4        3   0.494194224
```

```
## 22218         4         3   0.494119841
## 20453         4         3   0.493988237
## 20244         4         3   0.493972122
## 22191         4         3   0.493952568
## 20634         4         3   0.493906541
## 21681         4         3   0.493850320
## 20474         4         3   0.493427391
## 26837         4         3   0.493113659
## 24337         4         3   0.492738193
## 24334         4         3   0.492629630
## 20428         4         3   0.492610581
## 21520         4         3   0.492505640
## 24341         4         3   0.492285029
## 26785         4         3   0.491891975
## 21652         4         3   0.491846585
## 26413         4         3   0.491739375
## 21085         4         3   0.491388770
## 24332         4         3   0.491385063
## 20486         4         3   0.491313177
## 20648         4         3   0.491279741
## 22198         4         3   0.491228567
## 20484         4         3   0.490985995
## 20225         4         3   0.490928228
## 22325         4         3   0.490805900
## 20224         4         3   0.490787615
## 22323         4         3   0.490654454
## 21592         4         3   0.490622032
## 22185         4         3   0.490617447
## 22190         4         3   0.490120679
## 26412         4         3   0.489140806
## 20619         4         3   0.489018049
## 22186         4         3   0.488968880
## 20449         4         3   0.488667208
## 20653         4         3   0.488375328
## 20514         4         3   0.488373599
## 22204         4         3   0.488262460
## 22200         4         3   0.488186077
## 26825         4         3   0.487848134
## 26787         4         3   0.487824774
## 20607         4         3   0.487155476
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## 20624         4         3   0.486452976
## 20645         4         3   0.486287792
## 26668         4         3   0.486252901
## 20472         4         3   0.485868969
## 20620         4         3   0.485644675
## 22192         4         3   0.483400681
## 26792         4         3   0.483185975
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## 20406         4         3   0.482946485
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## 21591         4         3   0.482706930
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```

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## 22395          4          3    0.482702382
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## 26671          4          3    0.480391939
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## 20643          4          3    0.479765803
## 22181          4          3    0.479715072
## 20273          4          3    0.479447422
## 26635          4          3    0.479309246
## 20321          4          3    0.479150183
## 20452          4          3    0.479147495
## 20543          4          3    0.479147495
## 20512          4          3    0.479029671
## 24235          4          3    0.478954821
## 24237          4          3    0.478893896
## 26790          4          3    0.478855435
## 22053          4          3    0.478738869
## 20174          4          3    0.478611474
## 26637          4          3    0.478540740
## 20443          4          3    0.478522289
## 20407          4          3    0.478479545
## 21647          4          3    0.478406735
## 20470          4          3    0.478253398
## 20980          4          3    0.478199843
## 22048          4          3    0.478015285
## 22045          4          3    0.478007771
## 20631          4          3    0.477940605
## 20175          4          3    0.477883588
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## 20632          4          3    0.477847291
## 21648          4          3    0.477810145
## 22051          4          3    0.477589969
## 20442          4          3    0.477459727
## 20228          4          3    0.477446171
## 22046          4          3    0.477390522
## 20461          4          3    0.477194807
## 22202          4          3    0.477035746
## 20652          4          3    0.476756673
## 22189          4          3    0.476665630
## 24340          4          3    0.476640074
## 20965          4          3    0.476579189
## 20392          4          3    0.476512158
## 20383          4          3    0.476455477
## 26639          4          3    0.476383049
## 20270          4          3    0.476231541
## 20445          4          3    0.476189625
## 20398          4          3    0.476036416
## 22049          4          3    0.475920816
## 24338          4          3    0.475773603
## 20448          4          3    0.475678817
## 26818          4          3    0.474980704
## 20339          4          3    0.474731550
## 20471          4          3    0.474721239
## 20158          4          3    0.474601883
## 24233          4          3    0.474541277
```

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## 26824    4    3    0.474302257
## 21998    4    3    0.474253055
## 20485    4    3    0.473834409
## 20647    4    3    0.473703987
## 22197    4    3    0.473703987
## 20808    4    3    0.473012795
## 26638    4    3    0.473012708
## 20640    4    3    0.472935632
## 24333    4    3    0.472862866
## 24238    4    3    0.472739195
## 20171    4    3    0.472535109
## 21427    4    3    0.472359123
## 20173    4    3    0.472088136
## 26823    4    3    0.471846600
## 22182    4    3    0.471831262
## 26833    4    3    0.471607086
## 26667    4    3    0.471580719
## 20444    4    3    0.470626558
## 20316    4    3    0.470211324
## 20964    4    3    0.469970158
## 26391    4    3    0.469895053
## 26632    4    3    0.469821080
## 20651    4    3    0.469767625
## 20509    4    3    0.469753121
## 22054    4    3    0.469375658
## 20441    4    3    0.469226271
## 20384    4    3    0.468579984
## 22962    4    3    0.468418498
## 26798    4    3    0.468416993
## 20594    4    3    0.468372670
## 26782    4    3    0.468359979
## 20390    4    3    0.468177063
## 20386    4    3    0.468113915
## 20450    4    3    0.467684560
## 20166    4    3    0.467595057
## 24234    4    3    0.467594178
## 20473    4    3    0.467185755
## 20320    4    3    0.466523581
## 26433    4    3    0.464257352
## 20170    4    3    0.463927802
## 20963    4    3    0.463684722
## 26633    4    3    0.463684722
## 20606    4    3    0.463659073
## 20271    4    3    0.463575536
## 24236    4    3    0.463538766
## 20807    4    3    0.463489252
## 20644    4    3    0.463280282
## 22183    4    3    0.462839433
## 26670    4    3    0.462783958
## 20358    4    3    0.461969751
## 20246    4    3    0.461798953
## 20139    4    3    0.461414052
## 22040    4    3    0.461304305
```

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## 26305      4      3   0.460822624
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## 21426      4      3   0.460030979
## 26779      4      3   0.460019861
## 26838      4      3   0.460003691
## 20542      4      3   0.459611712
## 20809      4      3   0.459526509
## 26299      4      3   0.459346983
## 22041      4      3   0.458892925
## 20107      4      3   0.458827700
## 20382      4      3   0.458735820
## 22963      4      3   0.458680935
## 21649      4      3   0.458545689
## 20560      4      3   0.458529202
## 22188      4      3   0.458346181
## 22044      4      3   0.457880425
## 20360      4      3   0.457765190
## 21987      4      3   0.457736370
## 20269      4      3   0.457721503
## 20319      4      3   0.457552097
## 20108      4      3   0.457405791
## 20404      4      3   0.457355261
## 20258      4      3   0.457285556
## 20435      4      3   0.457121649
## 20105      4      3   0.457016833
## 25912      4      3   0.456401654
## 20138      4      3   0.455892439
## 21685      4      3   0.455827085
## 20396      4      3   0.455680057
## 21992      4      3   0.455285645
## 21986      4      3   0.455249777
## 20111      4      3   0.455101534
## 20559      4      3   0.453477692
## 22217      4      3   0.453436016
## 26669      4      3   0.453434271
## 21425      4      3   0.453281413
## 21351      4      3   0.453241770
## 20357      4      3   0.452687259
## 20408      4      3   0.452503571
## 20268      4      3   0.452265367
## 23272      4      3   0.452225873
## 21999      4      3   0.452209797
## 21989      4      3   0.452082604
## 20642      4      3   0.451356838
## 22052      4      3   0.451320543
## 20176      4      3   0.451266757
## 22050      4      3   0.451247397
## 20157      4      3   0.450582712
## 26600      4      3   0.450260619
## 21632      4      3   0.449914446
## 21546      4      3   0.449664518
## 20727      4      3   0.449232033
## 26610      4      3   0.448450514
## 26631      4      3   0.447704634
```

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## 20178          4          3    0.447621494
## 26601          4          3    0.447006518
## 20483          4          3    0.446813860
## 26636          4          3    0.446750235
## 20112          4          3    0.446425310
## 20110          4          3    0.446423718
## 20113          4          3    0.446291869
## 21988          4          3    0.446276525
## 20109          4          3    0.445963367
## 26780          4          3    0.445748187
## 20025          4          3    0.444000632
## 20032          4          3    0.443798100
## 22043          4          3    0.443755133
## 20294          4          3    0.443677162
## 20511          4          3    0.443568966
## 21983          4          3    0.443524704
## 20259          4          3    0.443461681
## 20557          4          3    0.443442104
## 20649          4          3    0.443371679
## 20242          4          3    0.443218592
## 20146          4          3    0.443209412
## 20028          4          3    0.443207991
## 20048          4          3    0.443117323
## 21975          4          3    0.443034004
## 26390          4          3    0.442908033
## 26580          4          3    0.442847555
## 20220          4          3    0.442564821
## 20034          4          3    0.442450363
## 20355          4          3    0.442427903
## 20026          4          3    0.442321045
## 20047          4          3    0.442227553
## 26776          4          3    0.441972427
## 21309          4          3    0.441906437
## 26836          4          3    0.441779187
## 20356          4          3    0.441409853
## 23601          4          3    0.441007457
## 21982          4          3    0.440917602
## 20063          4          3    0.440569180
## 26777          4          3    0.439926099
## 20142          4          3    0.439887196
## 20100          4          3    0.439643263
## 21993          4          3    0.439402676
## 26602          4          3    0.439363669
## 20227          4          3    0.439255818
## 26575          4          3    0.439200284
## 20354          4          3    0.439111542
## 26579          4          3    0.439104650
## 20013          4          3    0.439029934
## 26599          4          3    0.438777466
## 20892          4          3    0.438767564
## 20172          4          3    0.437724696
## 20638          4          3    0.437667134
## 21686          4          3    0.437657157
## 20179          4          3    0.437652180
```

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## 20140      4        3   0.437364755
## 26582      4        3   0.437070478
## 20031      4        3   0.437033550
## 22047      4        3   0.437021173
## 20440      4        3   0.436926328
## 20481      4        3   0.436873015
## 20168      4        3   0.436810585
## 20806      4        3   0.436705798
## 20029      4        3   0.435487949
## 20214      4        3   0.435001608
## 20256      4        3   0.434994690
## 20156      4        3   0.434909198
## 21148      4        3   0.434907415
## 21984      4        3   0.434424158
## 20035      4        3   0.434297542
## 20528      4        3   0.434161575
## 21981      4        3   0.432545099
## 20147      4        3   0.432305004
## 20099      4        3   0.432257853
## 26574      4        3   0.431948834
## 20397      4        3   0.431922232
## 26576      4        3   0.431824826
## 20145      4        3   0.431752591
## 26634      4        3   0.431622190
## 20135      4        3   0.430878704
## 22042      4        3   0.430787957
## 20215      4        3   0.430707845
## 26817      4        3   0.429887683
## 20950      4        3   0.429282068
## 26578      4        3   0.429200061
## 21991      4        3   0.426380616
## 26778      4        3   0.426213069
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## 20558      4        3   0.425948295
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## 20120      4        3   0.425056168
## 20462      4        3   0.424622697
## 26529      4        3   0.424595679
## 21561      4        3   0.424509209
## 20241      4        3   0.424452932
## 21206      4        3   0.424396813
## 20255      4        3   0.424302250
## 20254      4        3   0.424246710
## 21422      4        3   0.424228312
## 20087      4        3   0.424220163
## 26754      4        3   0.424173003
## 19917      4        3   0.424169765
## 20137      4        3   0.424166182
## 21205      4        3   0.423976259
## 20801      4        3   0.423952382
## 20253      4        3   0.423842218
## 19913      4        3   0.423830576
## 26086      4        3   0.423809415
```

```
## 20272          4          3    0.423752518
## 20291          4          3    0.423374290
## 19918          4          3    0.422910007
## 20803          4          3    0.422408168
## 20084          4          3    0.422330058
## 20023          4          3    0.422319734
## 20070          4          3    0.422245223
## 21977          4          3    0.422031340
## 20890          4          3    0.422006120
## 26753          4          3    0.421912577
## 20239          4          3    0.421859866
## 26581          4          3    0.421814439
## 20006          4          3    0.421779665
## 20888          4          3    0.421717821
## 21566          4          3    0.421486756
## 20117          4          3    0.421090227
## 19933          4          3    0.420957258
## 20216          4          3    0.420833643
## 21569          4          3    0.420820115
## 21976          4          3    0.420769196
## 21985          4          3    0.420633397
## 21990          4          3    0.420515161
## 20618          4          3    0.418762491
## 26535          4          3    0.418643345
## 20089          4          3    0.418639385
## 20092          4          3    0.418529075
## 21567          4          3    0.418368197
## 25910          4          3    0.418354107
## 25909          4          3    0.418214065
## 20292          4          3    0.418020148
## 20482          4          3    0.417990170
## 26534          4          3    0.417972006
## 20479          4          3    0.417897178
## 20257          4          3    0.417745486
## 20240          4          3    0.417695206
## 20510          4          3    0.417548609
## 20141          4          3    0.416754458
## 20144          4          3    0.416676761
## 20085          4          3    0.416582198
## 20090          4          3    0.415756808
## 26533          4          3    0.415753552
## 20343          4          3    0.415444648
## 19914          4          3    0.415379514
## 20527          4          3    0.415097239
## 20480          4          3    0.413801489
## 19932          4          3    0.413611092
## 20630          4          3    0.413599613
## 20245          4          3    0.413392507
## 26774          4          3    0.413289914
## 20061          4          3    0.413279572
## 20891          4          3    0.413208739
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## 25911          4          3    0.413038229
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```

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## 20143      4      3   0.412425254
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## 20344      4      3   0.410554951
## 21565      4      3   0.410456495
## 20093      4      3   0.410409120
## 20549      4      3   0.409859215
## 20169      4      3   0.409792501
## 20352      4      3   0.409790884
## 20104      4      3   0.409750590
## 20069      4      3   0.409219365
## 20804      4      3   0.408944083
## 20650      4      3   0.408600026
## 20033      4      3   0.408580902
## 20805      4      3   0.408577626
## 26577      4      3   0.408098559
## 20293      4      3   0.407447963
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## 20024      4      3   0.406986141
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## 20351      4      3   0.406443621
## 21559      4      3   0.405912435
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## 26740      4      3   0.404332161
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## 20798      4      3   0.403874832
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## 21701      4      3   0.403630470
## 26733      4      3   0.403589262
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## 26742      4      3   0.403507072
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## 21378      4      3   0.403031802
## 20027      4      3   0.403011434
## 21379      4      3   0.402970511
## 20177      4      3   0.402951228
## 23763      4      3   0.402905489
## 20463      4      3   0.402735906
## 20030      4      3   0.402622509
## 26741      4      3   0.402617374
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## 21074      4      3   0.402257199
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```

```
## 19915        4        3    0.402030442
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## 19732        4        3    0.400201032
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## 26532        4        3    0.399146952
## 21075        4        3    0.399135501
## 19909        4        3    0.399094506
## 26693        4        3    0.398804336
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## 20540        4        3    0.390219366
## 21380        4        3    0.389976500
## 21381        4        3    0.389864997
## 19734        4        3    0.389547033
## 22611        4        3    0.389417908
## 26531        4        3    0.389387895
## 20295        4        3    0.387653546
## 20728        4        3    0.387514244
## 21377        4        3    0.386693363
## 20285        4        3    0.386668601
## 20275        4        3    0.386484544
## 20045        4        3    0.386412200
## 26755        4        3    0.385615610
## 20053        4        3    0.385402633
## 21461        4        3    0.385253145
## 19910        4        3    0.384905969
## 19916        4        3    0.384708277
## 20290        4        3    0.384505754
## 19947        4        3    0.383835828
## 26691        4        3    0.383757081
## 19948        4        3    0.383705020
## 21192        4        3    0.383639915
## 20236        4        3    0.383542423
## 20094        4        3    0.383420873
## 21556        4        3    0.383369707
## 20424        4        3    0.383328781
## 20129        4        3    0.383288679
## 19745        4        3    0.383243159
```

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## 19965    4        3   0.383189102
## 22469    4        3   0.383161548
## 24231    4        3   0.383153999
## 24344    4        3   0.383088382
## 19897    4        3   0.383038833
## 20044    4        3   0.383000555
## 20800    4        3   0.382990834
## 19740    4        3   0.382819368
## 20055    4        3   0.382711042
## 19767    4        3   0.382382630
## 19748    4        3   0.382240290
## 22375    4        3   0.382239725
## 20416    4        3   0.381905816
## 20003    4        3   0.381719142
## 19765    4        3   0.381207253
## 20340    4        3   0.381145750
## 24174    4        3   0.381131676
## 20041    4        3   0.380601179
## 19751    4        3   0.380075130
## 20289    4        3   0.380062174
## 19744    4        3   0.379985214
## 20001    4        3   0.379825789
## 25903    4        3   0.379759190
## 21558    4        3   0.379082823
## 26690    4        3   0.378165963
## 19749    4        3   0.377862851
## 21554    4        3   0.377805649
## 21555    4        3   0.377303546
## 19766    4        3   0.376827857
## 24227    4        3   0.376127991
## 21553    4        3   0.375864300
## 20130    4        3   0.375778172
## 21038    4        3   0.375774405
## 19727    4        3   0.375768065
## 20082    4        3   0.375656007
## 21036    4        3   0.375577370
## 20167    4        3   0.375416033
## 19682    4        3   0.375019754
## 21544    4        3   0.374771333
## 26730    4        3   0.374693981
## 25906    4        3   0.374611917
## 20341    4        3   0.374602401
## 26692    4        3   0.374391173
## 20235    4        3   0.373309656
## 20267    4        3   0.372858563
## 19743    4        3   0.372358472
## 26738    4        3   0.371268549
## 20046    4        3   0.370916876
## 24173    4        3   0.370603259
## 25581    4        3   0.370442011
## 19911    4        3   0.370251730
## 19726    4        3   0.370209641
## 19768    4        3   0.370064838
## 19912    4        3   0.369644239
```

```
## 19728      4       3   0.369252198
## 20303      4       3   0.368862761
## 20342      4       3   0.367039925
## 26728      4       3   0.366964486
## 20414      4       3   0.366624252
## 26731      4       3   0.366589255
## 20799      4       3   0.366538423
## 19752      4       3   0.366519691
## 21879      4       3   0.366403046
## 20042      4       3   0.365885658
## 26509      4       3   0.365743514
## 19733      4       3   0.363413065
## 20350      4       3   0.363392186
## 21501      4       3   0.362214402
## 19891      4       3   0.361513750
## 21550      4       3   0.361388496
## 19686      4       3   0.361347001
## 20409      4       3   0.361339503
## 19735      4       3   0.361215061
## 19597      4       3   0.361039499
## 19964      4       3   0.361003963
## 23270      4       3   0.361001204
## 19763      4       3   0.360971360
## 21711      4       3   0.360796583
## 21552      4       3   0.360756632
## 20233      4       3   0.360661414
## 24004      4       3   0.360386982
## 24005      4       3   0.360296399
## 21034      4       3   0.360179094
## 19736      4       3   0.359684472
## 20095      4       3   0.359554223
## 23736      4       3   0.359228442
## 19944      4       3   0.359029073
## 20086      4       3   0.358908629
## 20043      4       3   0.358612112
## 19747      4       3   0.358415128
## 19887      4       3   0.358380070
## 19931      4       3   0.358014795
## 20411      4       3   0.358003058
## 19890      4       3   0.357988623
## 23271      4       3   0.357357267
## 19889      4       3   0.356194567
## 19696      4       3   0.355871829
## 24232      4       3   0.355655813
## 20302      4       3   0.355651985
## 20415      4       3   0.355632701
## 19945      4       3   0.355037698
## 19998      4       3   0.354442408
## 21510      4       3   0.354403825
## 21557      4       3   0.354360809
## 20068      4       3   0.354116186
## 20231      4       3   0.353816632
## 19762      4       3   0.352860082
## 19714      4       3   0.352347022
```

```
## 21230      4      3   0.351609611
## 24228      4      3   0.351374707
## 25908      4      3   0.351206779
## 20417      4      3   0.350872557
## 20887      4      3   0.350360064
## 19715      4      3   0.350247555
## 21193      4      3   0.350201509
## 25580      4      3   0.348666393
## 21035      4      3   0.348323424
## 19737      4      3   0.347579212
## 20038      4      3   0.347567660
## 20040      4      3   0.347384054
## 24229      4      3   0.346903932
## 20096      4      3   0.346730183
## 19742      4      3   0.346633863
## 20539      4      3   0.345887416
## 19741      4      3   0.345737912
## 21562      4      3   0.345709867
## 25579      4      3   0.345690012
## 19719      4      3   0.345569615
## 19895      4      3   0.345370621
## 19946      4      3   0.344353087
## 19746      4      3   0.341104385
## 20413      4      3   0.341001169
## 19724      4      3   0.340866194
## 19731      4      3   0.340752340
## 20221      4      3   0.338423579
## 19922      4      3   0.338338580
## 19788      4      3   0.338163929
## 20065      4      3   0.338128872
## 19632      4      3   0.338094365
## 26665      4      3   0.338054520
## 19930      4      3   0.337952338
## 20349      4      3   0.337934428
## 19886      4      3   0.337934362
## 21494      4      3   0.337906461
## 19942      4      3   0.337804347
## 21386      4      3   0.337612853
## 19902      4      3   0.337582237
## 19997      4      3   0.337321677
## 20222      4      3   0.337310671
## 19717      4      3   0.337223050
## 22374      4      3   0.337211226
## 19739      4      3   0.337198074
## 19723      4      3   0.337150877
## 23267      4      3   0.337085271
## 20883      4      3   0.337073268
## 19941      4      3   0.337060989
## 19675      4      3   0.337043355
## 19888      4      3   0.337032971
## 19612      4      3   0.336962297
## 19697      4      3   0.336952789
## 19885      4      3   0.336888835
## 20423      4      3   0.336852794
```

```
## 20115       4      3  0.336633814
## 20219       4      3  0.336598933
## 24230       4      3  0.336580077
## 19691       4      3  0.336564954
## 21037       4      3  0.336382087
## 19677       4      3  0.336233851
## 21151       4      3  0.336172484
## 20066       4      3  0.336046727
## 19787       4      3  0.335835510
## 19674       4      3  0.335752838
## 21350       4      3  0.335693740
## 26628       4      3  0.335666609
## 20002       4      3  0.335601888
## 22216       4      3  0.335544326
## 21431       4      3  0.335536281
## 25358       4      3  0.335089965
## 21238       4      3  0.334920970
## 26663       4      3  0.334880168
## 20230       4      3  0.334549093
## 19718       4      3  0.334512238
## 19923       4      3  0.334485103
## 19789       4      3  0.334360246
## 20229       4      3  0.334069924
## 21430       4      3  0.334010450
## 20064       4      3  0.333329465
## 21495       4      3  0.333221028
## 20183       4      3  0.333212469
## 19716       4      3  0.333141124
## 19963       4      3  0.333129652
## 20232       4      3  0.333086582
## 20116       4      3  0.333072617
## 20309       4      3  0.332741716
## 23269       4      3  0.332382553
## 20128       4      3  0.332132487
## 19676       4      3  0.332083685
## 20126       4      3  0.332050525
## 19613       4      3  0.332043778
## 21549       4      3  0.331249893
## 19940       4      3  0.331022126
## 20310       4      3  0.330948796
## 19996       4      3  0.330863816
## 23193       4      3  0.330628862
## 20039       4      3  0.330261488
## 19764       4      3  0.330181905
## 19673       4      3  0.329867735
## 26605       4      3  0.329841809
## 20234       4      3  0.329298110
## 26666       4      3  0.329170496
## 19738       4      3  0.329121267
## 20338       4      3  0.328610678
## 19614       4      3  0.328512934
## 19713       4      3  0.328170213
## 20097       4      3  0.325954091
## 20410       4      3  0.325930705
```

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## 21385        4        3    0.325895185
## 20412        4        3    0.325704556
## 21551        4        3    0.325585487
## 20218        4        3    0.324927724
## 20946        4        3    0.324652320
## 19896        4        3    0.324623672
## 23268        4        3    0.323243802
## 26664        4        3    0.322886633
## 20308        4        3    0.322667401
## 21646        4        3    0.322627182
## 25578        4        3    0.321981970
## 26629        4        3    0.321718304
## 21548        4        3    0.321492227
## 20114        4        3    0.319492177
## 19615        4        3    0.318513473
## 19616        4        3    0.318218059
## 19943        4        3    0.316287339
## 21387        4        3    0.316119108
## 21492        4        3    0.315905530
## 26727        4        3    0.315865980
## 20217        4        3    0.314865430
## 19992        4        3    0.313905576
## 21284        4        3    0.313857380
## 19993        4        3    0.313819129
## 19598        4        3    0.313784428
## 20305        4        3    0.313685528
## 19543        4        3    0.313648331
## 26356        4        3    0.313460583
## 19689        4        3    0.313272451
## 19627        4        3    0.313257626
## 19665        4        3    0.313187457
## 19939        4        3    0.313151381
## 19994        4        3    0.313026365
## 22385        4        3    0.312911726
## 19518        4        3    0.312742557
## 20265        4        3    0.312650509
## 19618        4        3    0.312410483
## 20127        4        3    0.312321887
## 26627        4        3    0.312310940
## 20884        4        3    0.312190592
## 23054        4        3    0.312164079
## 19725        4        3    0.311573470
## 25577        4        3    0.311456155
## 19617        4        3    0.311361215
## 23266        4        3    0.311259219
## 19638        4        3    0.311248281
## 22373        4        3    0.311016635
## 20422        4        3    0.310929584
## 19637        4        3    0.310568854
## 26626        4        3    0.310506241
## 20952        4        3    0.310399470
## 20885        4        3    0.308977764
## 19547        4        3    0.308769887
## 19664        4        3    0.308211102
```

```
## 21175         4         3   0.308184194
## 19554         4         3   0.308082760
## 19688         4         3   0.307657727
## 19995         4         3   0.307306129
## 19712         4         3   0.307227107
## 20125         4         3   0.307086182
## 20881         4         3   0.306991279
## 20886         4         3   0.305915753
## 20067         4         3   0.305797579
## 19666         4         3   0.304933927
## 19548         4         3   0.304891399
## 26624         4         3   0.304857952
## 20213         4         3   0.304595528
## 23841         4         3   0.304506909
## 19690         4         3   0.304506503
## 19527         4         3   0.303336920
## 20306         4         3   0.303235464
## 19599         4         3   0.302251722
## 20266         4         3   0.302179082
## 26625         4         3   0.301864239
## 22384         4         3   0.300733076
## 19662         4         3   0.299386312
## 20154         4         3   0.299364026
## 19962         4         3   0.299264139
## 21493         4         3   0.298823183
## 20882         4         3   0.298086699
## 19991         4         3   0.296391597
## 19542         4         3   0.296220188
## 21176         4         3   0.295981234
## 25357         4         3   0.295791952
## 19698         4         3   0.295068047
## 19761         4         3   0.294826002
## 19760         4         3   0.294820874
## 22612         4         3   0.292828114
## 19687         4         3   0.292638388
## 20945         4         3   0.289352136
## 19759         4         3   0.289208032
## 19628         4         3   0.288986159
## 20150         4         3   0.288123142
## 19521         4         3   0.287986964
## 20880         4         3   0.287828708
## 20149         4         3   0.287704041
## 19436         4         3   0.287672552
## 20721         4         3   0.287634833
## 25576         4         3   0.287605286
## 25658         4         3   0.287529481
## 19573         4         3   0.287512352
## 19958         4         3   0.287472815
## 20151         4         3   0.287460921
## 26621         4         3   0.287401257
## 20153         4         3   0.286940361
## 26620         4         3   0.286858174
## 19990         4         3   0.286702943
## 22002         4         3   0.286637062
```

```
## 19859     4      3    0.286589332
## 19663     4      3    0.286256504
## 19611     4      3    0.286237330
## 20720     4      3    0.286072864
## 20421     4      3    0.285638504
## 19544     4      3    0.285437148
## 19455     4      3    0.285273251
## 19520     4      3    0.285208515
## 19457     4      3    0.285124262
## 19961     4      3    0.284966487
## 20875     4      3    0.284328761
## 20301     4      3    0.284254771
## 21107     4      3    0.284140345
## 19458     4      3    0.283977330
## 20152     4      3    0.283963639
## 26592     4      3    0.283667301
## 20879     4      3    0.283558017
## 19434     4      3    0.283530251
## 20949     4      3    0.283414245
## 19456     4      3    0.282774641
## 21856     4      3    0.282493293
## 19927     4      3    0.281827081
## 20420     4      3    0.281820000
## 19928     4      3    0.281542730
## 20307     4      3    0.281187046
## 19722     4      3    0.280555839
## 19574     4      3    0.280498630
## 19929     4      3    0.280297734
## 19864     4      3    0.279882104
## 20874     4      3    0.279868263
## 19492     4      3    0.279679233
## 19858     4      3    0.279344512
## 21857     4      3    0.278446106
## 19575     4      3    0.277468825
## 20037     4      3    0.276976375
## 19938     4      3    0.276112989
## 20873     4      3    0.275963846
## 19581     4      3    0.274648961
## 26593     4      3    0.274572061
## 19924     4      3    0.273335635
## 19454     4      3    0.273224486
## 22383     4      3    0.271556666
## 26622     4      3    0.271540392
## 20148     4      3    0.271446915
## 20036     4      3    0.271293494
## 19582     4      3    0.270317450
## 20876     4      3    0.270082983
## 19437     4      3    0.269933162
## 19987     4      3    0.267095688
## 26623     4      3    0.266895657
## 20878     4      3    0.264871440
## 19926     4      3    0.264766789
## 19500     4      3    0.263762771
## 20951     4      3    0.263609350
```

```
## 19519          4          3   0.263506457
## 19502          4          3   0.263365719
## 19957          4          3   0.261608163
## 19501          4          3   0.261438906
## 19860          4          3   0.261328414
## 19365          4          3   0.261181250
## 19474          4          3   0.261135338
## 20264          4          3   0.261128685
## 25575          4          3   0.260968966
## 19986          4          3   0.260949350
## 19985          4          3   0.260940931
## 20669          4          3   0.260811663
## 26482          4          3   0.260751920
## 19756          4          3   0.260738806
## 20333          4          3   0.260697392
## 20299          4          3   0.260622974
## 19711          4          3   0.260609539
## 26596          4          3   0.260439279
## 19685          4          3   0.260425642
## 19514          4          3   0.260257245
## 20304          4          3   0.260136069
## 19956          4          3   0.260061648
## 20263          4          3   0.260033655
## 20948          4          3   0.260002775
## 25657          4          3   0.259949137
## 19656          4          3   0.259857829
## 26484          4          3   0.259839125
## 19955          4          3   0.259707080
## 19511          4          3   0.259654035
## 19541          4          3   0.259581995
## 19446          4          3   0.259563045
## 19565          4          3   0.259309957
## 24635          4          3   0.259241340
## 20668          4          3   0.259156296
## 19364          4          3   0.259130176
## 19516          4          3   0.259130176
## 20238          4          3   0.258854029
## 19622          4          3   0.258734123
## 19429          4          3   0.258572136
## 19369          4          3   0.258512406
## 20300          4          3   0.258427047
## 19453          4          3   0.257713859
## 19536          4          3   0.257376285
## 19623          4          3   0.257144864
## 19758          4          3   0.256911040
## 20670          4          3   0.256758602
## 19610          4          3   0.256462609
## 19925          4          3   0.256435501
## 19624          4          3   0.256170396
## 20667          4          3   0.256146810
## 22001          4          3   0.255771992
## 20666          4          3   0.255315447
## 26519          4          3   0.255190007
## 25983          4          3   0.255070137
```

```
## 19572        4        3   0.254229149
## 20870        4        3   0.254222419
## 20871        4        3   0.253048141
## 19609        4        3   0.252739182
## 26597        4        3   0.252292673
## 19363        4        3   0.252187210
## 19571        4        3   0.251269317
## 26187        4        3   0.250972611
## 19366        4        3   0.249673967
## 20611        4        3   0.249614502
## 19368        4        3   0.249495799
## 19721        4        3   0.248608588
## 20118        4        3   0.248390012
## 20673        4        3   0.247276446
## 21109        4        3   0.247020112
## 19331        4        3   0.246958941
## 20671        4        3   0.246142333
## 26483        4        3   0.246018727
## 21110        4        3   0.245931029
## 19526        4        3   0.244657772
## 19757        4        3   0.244400356
## 21282        4        3   0.244340203
## 20419        4        3   0.244254690
## 20672        4        3   0.244102334
## 19537        4        3   0.242907175
## 19525        4        3   0.242888385
## 19539        4        3   0.242847319
## 20872        4        3   0.242678287
## 19515        4        3   0.241673889
## 19540        4        3   0.241427353
## 19493        4        3   0.240924309
## 19960        4        3   0.240015644
## 19921        4        3   0.238440928
## 20869        4        3   0.238149429
## 20877        4        3   0.236935822
## 21105        4        3   0.236891928
## 21106        4        3   0.236814777
## 20535        4        3   0.236454868
## 19984        4        3   0.236365552
## 21283        4        3   0.233033842
## 19451        4        3   0.233031645
## 19389        4        3   0.232965811
## 19684        4        3   0.232916703
## 19538        4        3   0.232845973
## 20332        4        3   0.232821861
## 19452        4        3   0.232793200
## 19215        4        3   0.232760999
## 19205        4        3   0.232716249
## 20585        4        3   0.232693749
## 24634        4        3   0.232585776
## 20298        4        3   0.232574919
## 19213        4        3   0.232562720
## 26571        4        3   0.232326780
## 19210        4        3   0.232277817
```

```
## 19449         4         3     0.232270257
## 19556         4         3     0.232067177
## 20582         4         3     0.231858472
## 19355         4         3     0.231810759
## 26569         4         3     0.231781417
## 19954         4         3     0.231683827
## 19367         4         3     0.231671821
## 19450         4         3     0.231560383
## 19416         4         3     0.231454265
## 20583         4         3     0.231381949
## 20538         4         3     0.231181123
## 25574         4         3     0.230864553
## 19845         4         3     0.230594327
## 20296         4         3     0.230361388
## 19512         4         3     0.229805265
## 20297         4         3     0.229704501
## 19513         4         3     0.229492339
## 20588         4         3     0.229093145
## 21281         4         3     0.228231973
## 19583         4         3     0.228026899
## 24188         4         3     0.227461260
## 19216         4         3     0.226581942
## 19212         4         3     0.226541538
## 26572         4         3     0.226540851
## 20587         4         3     0.226371109
## 20201         4         3     0.226278225
## 21572         4         3     0.225912836
## 19621         4         3     0.225845411
## 26508         4         3     0.225837471
## 19626         4         3     0.225748845
## 19959         4         3     0.224691504
## 20537         4         3     0.224653627
## 19841         4         3     0.224455526
## 19842         4         3     0.223837974
## 19953         4         3     0.223685040
## 19620         4         3     0.222574803
## 20203         4         3     0.222055008
## 26567         4         3     0.221667270
## 26507         4         3     0.221461091
## 19435         4         3     0.221302006
## 26506         4         3     0.219943463
## 20202         4         3     0.219064734
## 19843         4         3     0.217663494
## 20589         4         3     0.217562876
## 26518         4         3     0.217176646
## 19636         4         3     0.214820775
## 20586         4         3     0.214755638
## 20548         4         3     0.214647046
## 19204         4         3     0.212015105
## 21867         4         3     0.211701655
## 20103         4         3     0.210343175
## 19211         4         3     0.210330829
## 20534         4         3     0.208942720
## 19683         4         3     0.208883772
```

```
## 26570       4       3   0.208787261
## 19846       4       3   0.208749643
## 19214       4       3   0.207371471
## 19625       4       3   0.207332867
## 20584       4       3   0.207171488
## 26568       4       3   0.207128706
## 20102       4       3   0.203558880
## 19362       4       3   0.203310353
## 19239       4       3   0.203235435
## 19586       4       3   0.203189071
## 19238       4       3   0.203118301
## 19469       4       3   0.203107205
## 25572       4       3   0.203107205
## 26707       4       3   0.202966159
## 19840       4       3   0.202940779
## 21485       4       3   0.202927328
## 26703       4       3   0.202869580
## 26712       4       3   0.202859676
## 19394       4       3   0.202790208
## 19468       4       3   0.202750655
## 21486       4       3   0.202726569
## 22536       4       3   0.202497698
## 19306       4       3   0.202333596
## 21490       4       3   0.202173096
## 26527       4       3   0.202157227
## 19417       4       3   0.202152929
## 19217       4       3   0.202092513
## 19729       4       3   0.201981104
## 19470       4       3   0.201542541
## 21489       4       3   0.201447280
## 19361       4       3   0.201427185
## 21104       4       3   0.201334067
## 19175       4       3   0.201250660
## 21488       4       3   0.200828294
## 20181       4       3   0.200209837
## 26711       4       3   0.200173205
## 22538       4       3   0.200000792
## 20182       4       3   0.199895840
## 26551       4       3   0.199222374
## 26550       4       3   0.199160928
## 25571       4       3   0.199003961
## 26704       4       3   0.198891228
## 22535       4       3   0.198887949
## 26709       4       3   0.198849938
## 21484       4       3   0.198803415
## 22531       4       3   0.198797711
## 19432       4       3   0.198678453
## 22533       4       3   0.198624483
## 26821       4       3   0.198495038
## 19240       4       3   0.198456567
## 20468       4       3   0.197619303
## 19448       4       3   0.197431622
## 24518       4       3   0.197421496
## 19619       4       3   0.197056244
```

```
## 19419      4        3   0.197056186
## 19530      4        3   0.197048807
## 19587      4        3   0.195866164
## 19418      4        3   0.195839648
## 25573      4        3   0.195775194
## 21201      4        3   0.195492654
## 19635      4        3   0.193547867
## 19588      4        3   0.193216296
## 20547      4        3   0.193190330
## 20467      4        3   0.193166079
## 22537      4        3   0.193161701
## 19585      4        3   0.193060526
## 26708      4        3   0.192933055
## 19241      4        3   0.192893719
## 19844      4        3   0.192702452
## 22534      4        3   0.191640407
## 26713      4        3   0.191564304
## 19219      4        3   0.191101875
## 26706      4        3   0.190894973
## 20469      4        3   0.190807085
## 21491      4        3   0.190807085
## 22530      4        3   0.189343949
## 21487      4        3   0.188285102
## 26705      4        3   0.186975630
## 19584      4        3   0.186901794
## 19920      4        3   0.186825779
## 19395      4        3   0.186788645
## 20180      4        3   0.185807044
## 19356      4        3   0.184391595
## 26702      4        3   0.184258100
## 22532      4        3   0.183282923
## 19203      4        3   0.183224949
## 26552      4        3   0.183147202
## 19467      4        3   0.183093496
## 19237      4        3   0.182996116
## 19218      4        3   0.181684075
## 26710      4        3   0.181579792
## 26757      4        3   0.175930292
## 22610      4        3   0.172395739
## 20000      4        3   0.172331732
## 19999      4        3   0.172319137
## 20327      4        3   0.172175170
## 19206      4        3   0.172169889
## 26648      4        3   0.172154422
## 19386      4        3   0.172128707
## 22543      4        3   0.172112497
## 19393      4        3   0.172100659
## 19383      4        3   0.172093344
## 26526      4        3   0.172053579
## 19376      4        3   0.172036017
## 19430      4        3   0.172011031
## 19236      4        3   0.171992214
## 24369      4        3   0.171970470
## 19235      4        3   0.171935932
```

```
## 19460        4        3   0.171771377
## 26643        4        3   0.171753222
## 19431        4        3   0.171539937
## 19839        4        3   0.171523392
## 19358        4        3   0.171434409
## 22539        4        3   0.171434409
## 20286        4        3   0.171293879
## 19360        4        3   0.171184599
## 26644        4        3   0.171123465
## 25968        4        3   0.171064597
## 20331        4        3   0.171020725
## 19335        4        3   0.170927426
## 19385        4        3   0.170651043
## 20329        4        3   0.170571612
## 25570        4        3   0.170529271
## 26504        4        3   0.170455517
## 19552        4        3   0.170411641
## 19837        4        3   0.169660527
## 19836        4        3   0.169450329
## 19428        4        3   0.169354796
## 20287        4        3   0.168406306
## 22541        4        3   0.168383831
## 26503        4        3   0.168203135
## 19304        4        3   0.168175213
## 20797        4        3   0.168076949
## 26642        4        3   0.168014581
## 19173        4        3   0.166976568
## 26645        4        3   0.166879690
## 19354        4        3   0.166761147
## 26646        4        3   0.166730494
## 19838        4        3   0.165609717
## 20330        4        3   0.165439637
## 22540        4        3   0.165383044
## 20159        4        3   0.165348728
## 19387        4        3   0.165264096
## 19190        4        3   0.165242124
## 19377        4        3   0.165150951
## 24191        4        3   0.165017462
## 26641        4        3   0.163870385
## 20326        4        3   0.163803973
## 19384        4        3   0.163260024
## 19303        4        3   0.162038147
## 19570        4        3   0.162038147
## 19835        4        3   0.161899474
## 20101        4        3   0.161852475
## 19174        4        3   0.161660274
## 20328        4        3   0.161512253
## 19207        4        3   0.161511267
## 19315        4        3   0.159968428
## 19209        4        3   0.159948604
## 22542        4        3   0.159948131
## 19720        4        3   0.159513327
## 19375        4        3   0.159466370
## 20325        4        3   0.159430617
```

```
## 19414          4          3   0.159427336
## 25656          4          3   0.159400323
## 19988          4          3   0.159307499
## 21053          4          3   0.159282665
## 20656          4          3   0.159221184
## 19330          4          3   0.157861674
## 26647          4          3   0.157648638
## 20260          4          3   0.157203504
## 26649          4          3   0.157121846
## 19198          4          3   0.155633583
## 19179          4          3   0.155512607
## 21200          4          3   0.153198771
## 19305          4          3   0.153132523
## 19551          4          3   0.153045896
## 19445          4          3   0.152472116
## 19466          4          3   0.150861369
## 19317          4          3   0.150823074
## 19208          4          3   0.148344832
## 19359          4          3   0.148189349
## 25655          4          3   0.145739938
## 19388          4          3   0.145662338
## 26640          4          3   0.145636425
## 19316          4          3   0.145581047
## 20119          4          3   0.139667670
## 26696          4          3   0.139643247
## 19786          4          3   0.139639102
## 19545          4          3   0.139631563
## 19332          4          3   0.139579426
## 20252          4          3   0.139476688
## 21478          4          3   0.139456688
## 19248          4          3   0.139451327
## 19420          4          3   0.139387125
## 21471          4          3   0.139368847
## 19113          4          3   0.139326042
## 19226          4          3   0.139320214
## 26701          4          3   0.139181701
## 19166          4          3   0.139072010
## 19117          4          3   0.139049568
## 19112          4          3   0.138919947
## 21473          4          3   0.138902981
## 26695          4          3   0.138902981
## 23043          4          3   0.138852680
## 21199          4          3   0.138787193
## 19461          4          3   0.138730772
## 19334          4          3   0.138717847
## 19892          4          3   0.138659116
## 21475          4          3   0.138619018
## 19119          4          3   0.138572298
## 23044          4          3   0.138363779
## 19423          4          3   0.138259184
## 23045          4          3   0.138254837
## 25373          4          3   0.138250395
## 19202          4          3   0.138175056
## 25374          4          3   0.138157321
```

```
## 24370          4          3     0.138143139
## 19464          4          3     0.138102971
## 19118          4          3     0.137993583
## 19168          4          3     0.137498470
## 25348          4          3     0.137359000
## 26694          4          3     0.137329666
## 19834          4          3     0.137324949
## 19290          4          3     0.137323065
## 20900          4          3     0.137259554
## 21402          4          3     0.137242124
## 19102          4          3     0.136471905
## 21401          4          3     0.136401400
## 21477          4          3     0.136358311
## 20262          4          3     0.136350773
## 26501          4          3     0.136258258
## 23046          4          3     0.135318115
## 19550          4          3     0.135291792
## 19546          4          3     0.135279805
## 21480          4          3     0.135200954
## 19103          4          3     0.134963827
## 19424          4          3     0.134060920
## 25375          4          3     0.134044889
## 23041          4          3     0.133924410
## 20052          4          3     0.133800597
## 21481          4          3     0.133736915
## 21483          4          3     0.132594731
## 19164          4          3     0.132482069
## 19167          4          3     0.132465400
## 19291          4          3     0.132412397
## 26502          4          3     0.132405271
## 19894          4          3     0.132379170
## 26698          4          3     0.132361352
## 19463          4          3     0.132340657
## 19421          4          3     0.132283298
## 24118          4          3     0.130882983
## 19413          4          3     0.130731674
## 21479          4          3     0.130702741
## 19357          4          3     0.130699247
## 20565          4          3     0.130685513
## 19422          4          3     0.129244505
## 26700          4          3     0.129222988
## 19893          4          3     0.129216154
## 20251          4          3     0.129178925
## 26697          4          3     0.129169539
## 19289          4          3     0.129169236
## 21476          4          3     0.129117090
## 26699          4          3     0.129051508
## 19114          4          3     0.127399617
## 21474          4          3     0.127245487
## 20051          4          3     0.127224091
## 19178          4          3     0.127176016
## 19333          4          3     0.127094049
## 19465          4          3     0.125303231
## 21403          4          3     0.125141342
```

```
## 19115      4      3   0.123297206
## 19120      4      3   0.121500227
## 19165      4      3   0.121445759
## 19116      4      3   0.121426079
## 23042      4      3   0.121354188
## 21482      4      3   0.119278391
## 21472      4      3   0.115041339
## 19462      4      3   0.115015373
## 19055      4      3   0.105606585
## 21470      4      3   0.105519854
## 23040      4      3   0.105505452
## 19983      4      3   0.105468219
## 19380      4      3   0.105460132
## 20499      4      3   0.105434639
## 21373      4      3   0.105363399
## 19029      4      3   0.105235374
## 19325      4      3   0.105220895
## 19224      4      3   0.104990227
## 26458      4      3   0.104784364
## 19027      4      3   0.104694462
## 19053      4      3   0.104592734
## 19222      4      3   0.104516649
## 19459      4      3   0.104513816
## 21469      4      3   0.104464368
## 26460      4      3   0.104462396
## 19075      4      3   0.104429701
## 19982      4      3   0.104389845
## 21465      4      3   0.104345298
## 19549      4      3   0.104113890
## 19907      4      3   0.103927188
## 23844      4      3   0.103900958
## 19106      4      3   0.103893072
## 25717      4      3   0.103650532
## 21467      4      3   0.103630139
## 22799      4      3   0.103616311
## 21398      4      3   0.103576106
## 19026      4      3   0.103398217
## 19263      4      3   0.103397163
## 21400      4      3   0.103124641
## 19268      4      3   0.103110684
## 19076      4      3   0.103046871
## 21466      4      3   0.102977336
## 19039      4      3   0.102882374
## 26467      4      3   0.102780526
## 26454      4      3   0.102622262
## 21382      4      3   0.102243708
## 19108      4      3   0.102239230
## 21468      4      3   0.101933255
## 26461      4      3   0.101816622
## 20500      4      3   0.101762488
## 21399      4      3   0.101337173
## 19050      4      3   0.101328425
## 19051      4      3   0.100941386
## 21858      4      3   0.100891963
```

```
## 25213        4        3   0.100808672
## 20498        4        3   0.100685819
## 19381        4        3   0.100674267
## 20165        4        3   0.100146133
## 19382        4        3   0.099692092
## 20237        4        3   0.099645953
## 19162        4        3   0.099635475
## 19054        4        3   0.099617384
## 19095        4        3   0.098809824
## 19343        4        3   0.098439763
## 19833        4        3   0.098300776
## 26466        4        3   0.097186836
## 26455        4        3   0.097046394
## 22800        4        3   0.096120298
## 19161        4        3   0.095966321
## 26463        4        3   0.095945925
## 19052        4        3   0.095660102
## 21229        4        3   0.095562149
## 19056        4        3   0.094598046
## 19225        4        3   0.094511673
## 19634        4        3   0.094459720
## 26459        4        3   0.094443809
## 26465        4        3   0.094428357
## 19326        4        3   0.094194069
## 20261        4        3   0.092921494
## 19163        4        3   0.092916785
## 26457        4        3   0.092855070
## 26464        4        3   0.092582604
## 19223        4        3   0.091033263
## 26462        4        3   0.091012864
## 22798        4        3   0.089342807
## 19981        4        3   0.087652599
## 26675        4        3   0.069982095
## 19187        4        3   0.069942743
## 19018        4        3   0.069915669
## 19160        4        3   0.069909020
## 19426        4        3   0.069895503
## 19155        4        3   0.069877389
## 18962        4        3   0.069868705
## 19145        4        3   0.069825746
## 19017        4        3   0.069819971
## 19146        4        3   0.069791974
## 19154        4        3   0.069789859
## 26674        4        3   0.069756575
## 21049        4        3   0.069748392
## 26438        4        3   0.069679128
## 18956        4        3   0.069604153
## 19935        4        3   0.069597782
## 26419        4        3   0.069585093
## 19015        4        3   0.069584889
## 19073        4        3   0.069323930
## 21368        4        3   0.069304284
## 26436        4        3   0.069283508
## 18955        4        3   0.069190242
```

```
## 22381        4        3   0.068991589
## 19220        4        3   0.068961897
## 20160        4        3   0.068933283
## 18961        4        3   0.068885143
## 21369        4        3   0.068843530
## 18954        4        3   0.068832219
## 19221        4        3   0.068825838
## 26677        4        3   0.068810313
## 19025        4        3   0.068806673
## 19780        4        3   0.068777952
## 19937        4        3   0.068752084
## 26678        4        3   0.068746982
## 19374        4        3   0.068739961
## 19158        4        3   0.068332741
## 19147        4        3   0.068332205
## 21370        4        3   0.068321578
## 19016        4        3   0.067781679
## 19633        4        3   0.067743977
## 18943        4        3   0.067731934
## 19074        4        3   0.067694313
## 18944        4        3   0.067672179
## 26418        4        3   0.067633929
## 19192        4        3   0.067195133
## 20162        4        3   0.067162005
## 21050        4        3   0.067074819
## 25372        4        3   0.067071516
## 21371        4        3   0.067063218
## 19832        4        3   0.067037450
## 26420        4        3   0.067024933
## 21375        4        3   0.066406651
## 19427        4        3   0.066366939
## 19121        4        3   0.066341206
## 19199        4        3   0.066320168
## 19157        4        3   0.066301397
## 22379        4        3   0.066288701
## 22382        4        3   0.066262745
## 19038        4        3   0.066241347
## 26681        4        3   0.066238808
## 19188        4        3   0.066230491
## 26679        4        3   0.065520104
## 19848        4        3   0.065507299
## 19247        4        3   0.064572743
## 19200        4        3   0.064556207
## 19639        4        3   0.064544646
## 21374        4        3   0.064501202
## 19084        4        3   0.064488155
## 22380        4        3   0.063541130
## 19494        4        3   0.062669955
## 19159        4        3   0.062652366
## 21081        4        3   0.062618682
## 26673        4        3   0.062454803
## 21372        4        3   0.061556747
## 19083        4        3   0.061509382
## 19019        4        3   0.061485558
```

```
## 19324      4       3   0.061451769
## 18960      4       3   0.061445968
## 19193      4       3   0.061436530
## 19156      4       3   0.061417068
## 26672      4       3   0.061413892
## 19936      4       3   0.061360164
## 19201      4       3   0.060428101
## 26676      4       3   0.059283840
## 26437      4       3   0.059243743
## 19172      4       3   0.058136904
## 26680      4       3   0.055818245
## 20161      4       3   0.053475129
## 19672      4       3   0.032745947
## 18891      4       3   0.032717302
## 19042      4       3   0.032683383
## 19785      4       3   0.032619188
## 19670      4       3   0.032568008
## 26396      4       3   0.032564633
## 19496      4       3   0.032558882
## 24984      4       3   0.032542999
## 19251      4       3   0.032525007
## 19904      4       3   0.032497282
## 18950      4       3   0.032491658
## 26417      4       3   0.032484423
## 26395      4       3   0.032445632
## 21047      4       3   0.032443902
## 19044      4       3   0.032421012
## 18890      4       3   0.032400850
## 19681      4       3   0.032374376
## 18887      4       3   0.032373081
## 19048      4       3   0.032352475
## 26397      4       3   0.032316418
## 19679      4       3   0.032205507
## 21046      4       3   0.032201370
## 19495      4       3   0.032153965
## 19831      4       3   0.032137137
## 19779      4       3   0.032076085
## 19071      4       3   0.031934434
## 19342      4       3   0.031912178
## 19373      4       3   0.031881236
## 19020      4       3   0.031873748
## 26585      4       3   0.031869524
## 21273      4       3   0.031622833
## 19671      4       3   0.031596087
## 19021      4       3   0.031555761
## 26584      4       3   0.031539207
## 18970      4       3   0.031532914
## 19043      4       3   0.031222799
## 19497      4       3   0.031206423
## 26586      4       3   0.031205917
## 19047      4       3   0.031203913
## 19372      4       3   0.031194735
## 18980      4       3   0.031185125
## 19049      4       3   0.031173516
```

```
## 18981        4        3  0.031158582
## 19669        4        3  0.030851901
## 19032        4        3  0.030692313
## 26583        4        3  0.030679713
## 18882        4        3  0.030379703
## 19046        4        3  0.030339104
## 18881        4        3  0.030337540
## 19151        4        3  0.030333619
## 19905        4        3  0.030320388
## 19906        4        3  0.030309814
## 26536        4        3  0.030291420
## 19177        4        3  0.030225653
## 19667        4        3  0.029877450
## 19014        4        3  0.029851769
## 21048        4        3  0.029728333
## 18885        4        3  0.029361060
## 19094        4        3  0.029356788
## 19680        4        3  0.029273165
## 24983        4        3  0.029262889
## 19678        4        3  0.029261664
## 19152        4        3  0.029255212
## 18892        4        3  0.029231290
## 18979        4        3  0.028833492
## 19197        4        3  0.028759636
## 18884        4        3  0.028721329
## 21697        4        3  0.028721002
## 21080        4        3  0.028718957
## 21079        4        3  0.027706195
## 19668        4        3  0.027696660
## 18883        4        3  0.027122170
## 26537        4        3  0.027091439
## 18886        4        3  0.027064451
## 19176        4        3  0.027042294
## 19045        4        3  0.026459791
## 19153        4        3  0.021044716
## attr(,"Ordered")
## [1] TRUE
## attr(,"call")
## pam(x = df2022, k = clusters)
## attr(,"class")
## [1] "silhouette"
```