## IMT 573: Problem Set 2 - Working with Data

## LEE CHEN HSIN

Due: Tuesday, October 20, 2021 by 10am PT

## **Collaborators:**

**Instructions:** Before beginning this assignment, please ensure you have access to R and RStudio.

- 1. Download the problemset2.Rmd file from Canvas. Open problemset2.Rmd in RStudio and supply your solutions to the assignment by editing problemset2.Rmd.
- 2. Replace the "Insert Your Name Here" text in the author: field with your own full name. Any collaborators must be listed on the top of your assignment.
- 3. Be sure to include well-documented (e.g. commented) code chucks, figures, and clearly written text chunk explanations as necessary. Any figures should be clearly labeled and appropriately referenced within the text. Be sure that each visualization adds value to your written explanation; avoid redundancy—you do not need four different visualizations of the same pattern.
- 4. All materials and resources that you use (with the exception of lecture slides) must be appropriately referenced within your assignment. In particular, note that Stack Overflow is licenses as Creative Commons (CC-BY-SA). This means you have to attribute any code you refer from SO.
- 5. Partial credit will be awarded for each question for which a serious attempt at finding an answer has been shown. But please **DO NOT** submit pages and pages of hard-to-read code and attempts that is impossible to grade. That is, avoid redundancy. Remember that one of the key goals of a data scientist is to produce coherent reports that others can easily follow. Students are *strongly* encouraged to attempt each question and to document their reasoning process even if they cannot find the correct answer. If you would like to include R code to show this process, but it does not run without errors you can do so with the eval=FALSE option as follows:

```
a + b # these object dont' exist
# if you run this on its own it with give an error
```

- 6. When you have completed the assignment and have **checked** that your code both runs in the Console and knits correctly when you click **Knit PDF**, rename the knitted PDF file to ps2\_ourLastName\_YourFirstName.pdf, and submit the PDF file on Canvas.
- 7. Collaboration is often fun and useful, but each student must turn in an individual write-up in their own words as well as code/work that is their own. Regardless of whether you work with others, what you turn in must be your own work; this includes code and interpretation of results. The names of all collaborators must be listed on each assignment. Do not copy-and-paste from other students' responses or code.

**Setup** In this problem set you will need, at minimum, the following R packages.

# Load standard libraries
library(tidyverse)
library(nycflights13)

**Problem 1: Describing the NYC Flights Data** In this problem set we will continue to use the data on all flights that departed NYC (i.e. JFK, LGA or EWR) in 2013. Recall, you can find this data in the nycflights13 R package. Load the data in R and ensure you know the variables in the data. Keep the documentation of the dataset (e.g. the help file) nearby.

In Problem Set 1 you started to explore this data. Now we will perform a more thorough description and summarization of the data, making use of our new data manipulation skills to answer a specific set of questions. When answering these questions be sure to include the code you used in computing empirical responses, this code should include code comments. Your response should also be accompanied by a written explanation, code alone is not a sufficient response.

- (a) Describe and Summarize Answer the following quustions in order to describe and summarize the flights data.
  - 1. How many flights out of NYC are there in the data?
  - 2. How many NYC airports are included in this data? Which airports are these?
  - 3. Into how many airports did the airlines fly from NYC in 2013?
  - 4. How many flights were there from NYC to Seattle (airport code SEA)?
  - 5. Were the any flights from NYC to Spokane (GAG)?
  - 6. What about missing destination codes? Are there any destinations that do not look like valid airport codes (i.e. three-letter-all-upper case)?

```
count(flights)
## # A tibble: 1 x 1
##
##
      <int>
## 1 336776
unique(flights$origin)
## [1] "EWR" "LGA" "JFK"
length(unique(flights$origin))
## [1] 3
unique(flights$dest)
     [1] "IAH" "MIA" "BQN" "ATL" "ORD" "FLL" "IAD" "MCO" "PBI" "TPA" "LAX" "SFO"
##
    [13] "DFW" "BOS" "LAS" "MSP" "DTW" "RSW" "SJU" "PHX" "BWI" "CLT" "BUF" "DEN"
##
    [25] "SNA" "MSY" "SLC" "XNA" "MKE" "SEA" "ROC" "SYR" "SRQ" "RDU" "CMH" "JAX"
##
##
    [37] "CHS" "MEM" "PIT" "SAN" "DCA" "CLE" "STL" "MYR" "JAC" "MDW" "HNL" "BNA"
    [49] "AUS" "BTV" "PHL" "STT" "EGE" "AVL" "PWM" "IND" "SAV" "CAK" "HOU" "LGB"
##
    [61] "DAY" "ALB" "BDL" "MHT" "MSN" "GSO" "CVG" "BUR" "RIC" "GSP" "GRR" "MCI"
##
    [73] "ORF" "SAT" "SDF" "PDX" "SJC" "OMA" "CRW" "OAK" "SMF" "TUL" "TYS" "OKC"
##
    [85] "PVD" "DSM" "PSE" "BHM" "CAE" "HDN" "BZN" "MTJ" "EYW" "PSP" "ACK" "BGR"
##
   [97] "ABQ" "ILM" "MVY" "SBN" "LEX" "CHO" "TVC" "ANC" "LGA"
length(unique(flights$dest))
## [1] 105
flights %>%
filter(dest=='SEA')
```

```
## # A tibble: 3,923 x 19
       day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##
  year month
##
  <int> <int> <int>
          <int>
             <int>
                    <dbl>
 1 2013
##
           724
                 725
                     -1
                        1020
                              1030
      1
        1
##
  2013
      1
        1
           743
                 730
                     13
                        1059
                              1056
##
 3 2013
           857
                 851
                     6
                              1222
        1
                        1157
      1
 4 2013
      1
        1
          1418
                1419
                     -1
                        1726
                              1732
 5 2013
##
      1
        1
          1421
                1355
                     26
                        1735
                              1709
##
 6 2013
      1
        1
          1730
                1729
                     1
                        2039
                              2058
##
 7 2013
                     -7
      1
        1
          1808
                1815
                        2111
                              2130
 8 2013
        1
          1824
                1830
                     -6
                        2203
                              2205
      1
##
 9 2013
          1826
                1830
                     -4
                        2154
                              2207
      1
        1
## 10 2013
        1
          1952
                1930
                     22
                        2257
                              2251
      1
## # ... with 3,913 more rows, and 11 more variables: arr_delay <dbl>,
  carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
## #
  air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flights %>%
filter(dest=='GAG')
## # A tibble: 0 x 19
## # ... with 19 variables: year <int>, month <int>, day <int>, dep_time <int>,
  sched_dep_time <int>, dep_delay <dbl>, arr_time <int>,
## #
  sched_arr_time <int>, arr_delay <dbl>, carrier <chr>, flight <int>,
## #
  tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
  hour <dbl>, minute <dbl>, time_hour <dttm>
grepl("^[[:upper:]]{3}$", c(flights$dest))
##
  ##
##
  ##
  ##
##
  ##
  ##
##
  ##
  ##
  ##
##
  ##
  ##
  ##
  ##
##
  ##
  ##
  ##
  ##
  ##
  ##
  ##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

## ##

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
```

```
[39397]
```

```
[88537]
##
```

```
[99457]
[99569]
[99779]
[99877]
[ reached getOption("max.print") -- omitted 236777 entries ]
```

Hint: check the function grep1 to do regular expression matching. You may use "^[[:upper:]]{3}\$" for a regular expression that matches three upper case letters. See an example below:

```
grepl("^[[:upper:]]{3}$", c("12AB", "SEA", "ABCD", "ATL"))
```

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

(b) Reflect and Question Comment on the questions (and answers) so far. Were you able to answer all of these questions? Are all questions well defined? Is the data good enough to answer all these?

```
#Yes, I am able to answer all of these questions by using dplyr.
#Data are good enough to answer all these questions above.
```

**Problem 2: NYC Flight Delays** Flights are often delayed. Let's look closer at this topic using the NYC Flight dataset. Answer the following questions about flight delays using the dplyr data manipulation verbs we talked about in class.

- (a) Typical Delays What is the typical delay of flights in this data?
- (b) Defining Flight Delays What definition of flight delay did you use to answer part (a)? Did you do any specific exploration and description of this variable prior to using it? If no, please do so now. Is there any missing data? Are there any implausible or invalid entries?
- (c) Delays by Destination Now compute flight delay by destinations. Which ones are the worst three destinations from NYC if you don't like flight delays? Be sure to justify your delay variable choice.
- (d) Delays by time of day We'd like to know how much do delays depend on the time of day. Are there more delays in the mornings? Late night when all the daily delays may accumulate? Create a visualization (graph or table) to illustrate your findings.
- (e) Reflect and Challenge Your Results After completing the exploratory analyses from Problem 2, do you have any concerns about these questions and your findings? How well defined were the questions? If you feel a question is not defined well enough, re-formulate it in a more specific way so you can actually answer this question. And state clearly what is your more precise question.

  Can you formulate any additional questions regarding flight delays?

```
flights %>%
  group_by(origin,dest) %>%
  summarise(typicaldelay=mean(arr_delay)) %>%
  arrange('origin','dest',-typicaldelay)
```

## `summarise()` has grouped output by 'origin'. You can override using the `.groups` argument.

```
## # A tibble: 224 x 3
## # Groups:
                origin [3]
      origin dest typicaldelay
##
##
      <chr>
              <chr>>
                            <dbl>
##
    1 LGA
              CAE
                            19.7
##
    2 LGA
              SBN
                            14.5
##
    3 JFK
              JAC
                            11
                             6.35
##
    4 LGA
              EYW
                             4.38
##
    5 JFK
              ABQ
##
    6 EWR
              ANC
                            -2.5
##
    7 LGA
                            -3
              MYR
                            -5
##
    8 JFK
              MEM
    9 EWR
              SBN
                            -5.5
##
## 10 JFK
              HNL
                            -6.92
## # ... with 214 more rows
```

#Typical day of flights in the data means the average delay\_time in this data

#My definition of typical delay of flight is to explore the different routes of flight and find their a #origin and dest

#Yes, there are some missing data and invalid entries in the dataset
is.na(flights\$arr\_delay)

```
[1] FALSE FA
##
                                                                                                                       [13] FALSE FALSE
##
##
                                                                                                                       [25] FALSE F
                                                                                                                       [37] FALSE F
##
                                                                                                                    [49] FALSE F
##
                                                                                                                    [61] FALSE F
##
##
                                                                                                                    [73] FALSE F
                                                                                                                    [85] FALSE F
##
                                                                                                                    [97] FALSE F
##
##
                                                                                                    [109] FALSE FALSE
                                                                                                 [121] FALSE FALSE
##
##
                                                                                                 [133] FALSE 
                                                                                                 [145] FALSE 
##
                                                                                                 [157] FALSE 
##
##
                                                                                                 [169] FALSE 
                                                                                                 [181] FALSE 
##
##
                                                                                                 [193] FALSE 
##
                                                                                                 [205] FALSE 
                                                                                                 [217] FALSE 
##
                                                                                                 [229] FALSE 
##
                                                                                                 [241] FALSE 
                                                                                                 [253] FALSE 
##
##
                                                                                                 [265] FALSE 
                                                                                                 [277] FALSE 
##
                                                                                                 [289] FALSE 
##
                                                                                                 [301] FALSE FALSE
##
##
                                                                                                 [313] FALSE 
##
                                                                                                 [325] FALSE 
##
                                                                                                 [337] FALSE FALSE
                                                                                                 [349] FALSE 
##
##
                                                                                                 [361] FALSE 
##
                                                                                                 [373] FALSE FALSE
                                                                                                 [385] FALSE FALSE
##
                                                                                                 [397] FALSE 
##
                                                                                                 [409] FALSE 
##
                                                                                                 [421] FALSE FALSE
##
                                                                                                 [433] FALSE 
##
##
                                                                                                 [445] FALSE 
##
                                                                                                 [457] FALSE 
                                                                                                    [469] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE
##
                                                                                                 [481] FALSE 
##
                                                                                                 [493] FALSE 
##
                                                                                                 [505] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
##
                                                                                                    [517] FALSE FALSE
                                                                                                 [529] FALSE 
##
##
                                                                                                 [541] FALSE FALSE
                                                                                                    [553] FALSE FALSE
##
                                                                                                 [565] FALSE 
##
##
                                                                                                 [577] FALSE FALSE
##
                                                                                                 [589] FALSE FALSE
```

```
##
                                                                                        [601] FALSE FALSE
##
                                                                                     [613] FALSE FALSE FALSE TRUE FALSE F
                                                                                     [625] FALSE 
##
                                                                                     [637] FALSE 
##
##
                                                                                     [649] FALSE 
                                                                                     [661] FALSE 
##
                                                                                     [673] FALSE FALSE
                                                                                     [685] FALSE 
##
##
                                                                                        [697] FALSE FALSE
##
                                                                                     [709] FALSE 
                                                                                     [721] FALSE 
                                                                                     [733] FALSE TRUE FALSE F
##
                                                                                     [745] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
##
                                                                                     [757] FALSE FALSE
##
##
                                                                                     [769] FALSE 
##
                                                                                     [781] FALSE 
##
                                                                                     [793] FALSE 
                                                                                        [805] FALSE 
##
                                                                                     [817] FALSE 
##
                                                                                     [829] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
##
##
                                                                                     [841] TRUE TRUE FALSE FA
                                                                                        [853] FALSE FALSE
##
                                                                                     [865] FALSE 
##
                                                                                     [877] FALSE FALSE
##
                                                                                     [889] FALSE 
##
                                                                                        [901] FALSE FALSE
##
                                                                                     [913] FALSE 
                                                                                     [925] FALSE 
##
                                                                                     [937] FALSE 
##
                                                                                     [949] FALSE 
                                                                                     [961] FALSE 
##
##
                                                                                     [973] FALSE FALSE
                                                                                     [985] FALSE 
##
                                                                                     [997] FALSE FALSE
##
                                                                       [1009] FALSE FALSE
##
                                                                     [1021] FALSE FALSE
##
                                                                     [1033] FALSE FALSE
##
                                                                     [1045] FALSE FALSE
                                                                     [1057] FALSE FALSE
                                                                     [1069] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
                                                                     [1081] FALSE FALSE
##
                                                                     [1093] FALSE FALSE
                                                                     [1105] FALSE FALSE
                                                                  [1117] FALSE FALSE
##
                                                                     [1129] FALSE FALSE
                                                                     [1141] FALSE FALSE
##
                                                                     [1153] FALSE FALSE
##
                                                                     [1165] FALSE FALSE
##
                                                                     [1177] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
                                                                     [1189] FALSE FALSE
##
                                                                     [1201] FALSE FALSE
##
                                                                  [1213] FALSE FALSE
                                                                  [1225] FALSE FALSE
                                                                  [1237] FALSE FALSE
```

```
[1249] FALSE FALSE
                                          [1261] FALSE FALSE
##
                                          [1273] FALSE FALSE
                                          [1285] FALSE FALSE
                                          [1297] FALSE FALSE
                                          [1309] FALSE FALSE
##
                                          [1321] FALSE FALSE
                                          [1333] FALSE FALSE
##
##
                                          [1345] FALSE FALSE
                                          [1357] FALSE FALSE
##
                                          [1369] FALSE FALSE
                                          [1381] FALSE FALSE
##
                                          [1393] FALSE FALSE
                                          [1405] FALSE FALSE
##
                                          [1417] FALSE FALSE
##
                                          [1429] FALSE FALSE
                                          [1441] FALSE FALSE
##
                                          [1453] FALSE FALSE
                                          [1465] FALSE FALSE
##
                                          [1477] FALSE FALSE
##
                                          [1489] FALSE FALSE
                                          [1501] FALSE FALSE
                                          [1513] FALSE FALSE
##
                                          [1525] FALSE FALSE
                                          [1537] FALSE FALSE
##
                                          [1549] FALSE FALSE
##
                                          [1561] FALSE FALSE
                                          [1573] FALSE FALSE
                                          [1585] FALSE FALSE
                                          [1597] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE
                                          [1609] FALSE FALSE
##
##
                                          [1621] FALSE FALSE
                                          [1633] FALSE FALSE
##
                                          [1645] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
##
                                          [1657] FALSE FALSE
##
                                          [1669] FALSE FALSE
##
                                          [1681] FALSE FALSE
##
                                          [1693] FALSE FALSE
                                          [1705] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
                                          [1717] FALSE FALSE
##
                                          [1729] FALSE FALSE
                                          [1741] FALSE FALSE
##
                                          [1753] FALSE FALSE
                                          [1765] FALSE FALSE
##
                                          [1777] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
                                          [1789] FALSE FALSE
##
                                          [1801] FALSE FALSE
##
                                          [1813] FALSE FALSE
##
                                          [1825] FALSE FALSE
                                          [1837] FALSE FALSE
##
                                          [1849] FALSE FALSE
##
                                          [1861] FALSE FALSE
                                          [1873] FALSE FALSE
                                          [1885] FALSE FALSE
```

```
[1897] FALSE FALSE
                                            [1909] FALSE FALSE
##
                                            [1921] FALSE FALSE
                                            [1933] FALSE FALSE
                                            [1945] FALSE FALSE
                                            [1957] FALSE FALSE
##
                                            [1969] FALSE FALSE
                                            [1981] FALSE FALSE
##
##
                                            [1993] FALSE FALSE
                                            [2005] FALSE FALSE
##
                                            [2017] FALSE FALSE
                                            [2029] FALSE FALSE
##
                                            [2041] FALSE FALSE
                                            [2053] FALSE FALSE
                                            [2065] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
##
                                            [2077] FALSE FALSE
                                            [2089] FALSE FALSE
##
                                            [2101] FALSE FALSE
                                            [2113] FALSE FALSE
##
                                            [2125] FALSE FALSE
##
                                            [2137] FALSE FALSE
                                            [2149] FALSE FALSE
                                            [2161] FALSE FALSE
##
                                            [2173] FALSE FALSE
                                            [2185] FALSE FALSE
##
                                            [2197] FALSE FALSE
##
                                            [2209] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
                                            [2221] FALSE FALSE
                                            [2233] FALSE FALSE
                                            [2245] FALSE FALSE
                                            [2257] FALSE FALSE
##
##
                                            [2269] FALSE FALSE
                                            [2281] FALSE FALSE
##
                                            [2293] FALSE FALSE
##
                                            [2305] FALSE FALSE
##
                                            [2317] FALSE FALSE
##
##
                                            [2329] FALSE FALSE
##
                                            [2341] FALSE FALSE
                                            [2353] FALSE FALSE
##
##
                                            [2365] FALSE FALSE
                                            [2377] FALSE FALSE
                                            [2389] FALSE FALSE
##
                                            [2401] FALSE FALSE
                                            [2413] FALSE FALSE
##
                                            [2425] FALSE FALSE
                                            [2437] FALSE FALSE
##
                                            [2449] FALSE FALSE
##
                                            [2461] FALSE FALSE
##
                                            [2473] FALSE FALSE
                                            [2485] FALSE FALSE
##
                                            [2497] FALSE FALSE
##
                                            [2509] FALSE FALSE
                                            [2521] FALSE FALSE
                                            [2533] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
[2545] FALSE FALSE
##
                                                 [2557] FALSE FALSE
                                                 [2569] FALSE FALSE
                                                 [2581] FALSE FALSE
##
                                                 [2593] FALSE FALSE
                                                 [2605] FALSE FALSE
##
                                                 [2617] FALSE FALSE
                                                 [2629] FALSE FALSE
##
##
                                                 [2641] FALSE FALSE
                                                 [2653] FALSE FALSE
##
                                                 [2665] FALSE FALSE
                                                 [2677] FALSE FALSE
##
                                                 [2701] FALSE FALSE
                                                 [2713] FALSE FALSE
##
                                                 [2725] FALSE FALSE
                                                 [2737] FALSE FALSE
##
                                                 [2749] FALSE FALSE
                                                [2761] FALSE FALSE
##
                                                 [2773] FALSE FALSE
##
                                                 [2785] FALSE FALSE
                                                 [2797] FALSE FALSE
                                                 [2809] FALSE FALSE
##
                                                 [2821] FALSE FALSE
                                                 [2833] FALSE FALSE
##
                                                 [2845] FALSE FALSE
##
                                                 [2857] FALSE FALSE
                                                 [2869] FALSE FALSE
                                                 [2881] FALSE FALSE
                                                 [2893] FALSE FALSE
                                                 [2905] FALSE FALSE
##
##
                                                 [2917] FALSE FALSE
                                                 [2929] FALSE FALSE
##
                                                 [2941] FALSE FALSE
##
                                                 [2953] FALSE FALSE
##
                                                 [2965] FALSE FALSE
##
                                                 [2977] FALSE FALSE
##
                                                 [2989] FALSE FALSE
                                                 [3001] FALSE FALSE
##
                                                 [3013] FALSE FALSE
##
                                                 [3025] FALSE FALSE
##
                                                 [3037] FALSE FALSE
                                                 [3049] FALSE FALSE
                                                 [3061] FALSE FALSE
##
                                                 [3073] FALSE FALSE
                                                 [3085] FALSE FALSE
##
                                                 [3097] FALSE FALSE
##
                                                 [3109] FALSE FALSE
                                                 [3121] FALSE FALSE
                                                 [3133] FALSE FALSE
##
                                                 [3145] FALSE FALSE
##
                                                 [3157] FALSE FALSE
                                                 [3169] FALSE FALSE
                                                 [3181] FALSE FALSE
```

```
[3193] FALSE FALSE
                                               [3205] FALSE FALSE
##
                                               [3217] FALSE FALSE
                                               [3229] FALSE FALSE
##
                                               [3241] FALSE FALSE
                                               [3253] FALSE FALSE
##
                                               [3265] FALSE FALSE
                                               [3277] FALSE FALSE
##
##
                                               [3289] FALSE FALSE
                                               [3301] FALSE FALSE
##
                                               [3313] FALSE FALSE
                                               [3325] FALSE FALSE TRUE FALSE 
##
                                               [3337] FALSE FALSE
                                               [3349] FALSE FALSE
##
                                               [3361] FALSE FALSE
##
                                               [3373] FALSE FALSE
                                               [3385] FALSE FALSE
##
##
                                               [3397] FALSE FALSE
                                               [3409] FALSE FALSE
##
                                               [3421] FALSE FALSE
##
                                               [3433] FALSE FALSE
                                               [3445] FALSE FALSE
                                               [3457] FALSE FALSE
##
                                               [3469] FALSE FALSE
                                               [3481] FALSE FALSE
##
                                               [3493] FALSE FALSE
##
                                               [3505] FALSE FALSE
                                               [3517] FALSE FALSE
                                               [3529] FALSE FALSE
                                               [3541] FALSE FALSE
                                               [3553] FALSE FALSE
##
##
                                               [3565] FALSE FALSE
                                               [3577] FALSE FALSE
##
                                               [3589] FALSE FALSE
##
                                               [3601] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
##
                                                                                                                              TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
                                               Г36137
##
                                               [3625] FALSE FALSE
##
                                               [3637] FALSE FALSE
                                               [3649] FALSE FALSE
##
                                               [3661] FALSE FALSE
##
                                               [3673] FALSE FALSE
                                               [3685] FALSE FALSE
##
                                               [3697] FALSE FALSE
                                               [3709] FALSE FALSE
##
                                               [3721] FALSE FALSE
                                               [3733] FALSE FALSE
##
                                               [3745] FALSE FALSE
##
                                               [3757] FALSE FALSE
##
                                               [3769] FALSE FALSE
                                               [3781] FALSE FALSE
##
                                               [3793] FALSE FALSE
##
                                               [3805] FALSE FALSE
                                               [3817] FALSE FALSE
                                               [3829] FALSE FALSE
```

```
[3841] FALSE FALSE
                                               [3853] FALSE FALSE
##
##
                                               [3865] FALSE FALSE
                                               [3877] FALSE FALSE
##
                                               [3889] FALSE FALSE
                                               [3901] FALSE FALSE
##
                                               [3913] FALSE FALSE
                                               [3925] FALSE FALSE
##
##
                                               [3937] FALSE FALSE
                                               [3949] FALSE FALSE
##
                                               [3961] FALSE FALSE
                                               [3973] FALSE FALSE
##
                                               [3985] FALSE FALSE
                                               [3997] FALSE FALSE
                                               [4009] FALSE FALSE
##
                                               [4021] FALSE FALSE
                                               [4033] FALSE FALSE
##
                                               [4045] FALSE FALSE
                                               [4057] FALSE FALSE
##
                                               [4069] FALSE FALSE
##
                                               [4081] FALSE FALSE
                                               [4093] FALSE FALSE
                                               [4105] FALSE FALSE
##
                                               [4117] FALSE FALSE
                                               [4129] FALSE FALSE
##
                                               [4141] FALSE FALSE
##
                                               [4153] FALSE FALSE
                                               [4165] FALSE FALSE
                                              [4177] FALSE FALSE
                                               [4189] FALSE FALSE
                                               [4201] FALSE FALSE
##
##
                                               [4213] FALSE FALSE
                                               [4225] FALSE FALSE
                                              [4237] FALSE FALSE
##
                                               [4249] FALSE FALSE
                                               [4261] FALSE FALSE
##
                                               [4273] FALSE FALSE
##
                                               [4285] FALSE FALSE
                                               [4297] FALSE FALSE
                                               [4309] FALSE FALSE
##
                                               [4321] FALSE FALSE
##
                                               [4333] TRUE TRUE FALSE F
                                               [4345] FALSE FALSE
                                               [4357] FALSE FALSE
##
                                               [4369] FALSE FALSE
                                               [4381] FALSE FALSE
##
                                               [4393] FALSE FALSE
##
                                               [4405] FALSE FALSE
##
                                               [4417] FALSE FALSE
                                               [4429] FALSE FALSE
##
                                               [4441] FALSE FALSE
##
                                              [4453] FALSE FALSE
                                              [4465] FALSE FALSE
                                               [4477] FALSE FALSE
```

```
[4489] FALSE FALSE
                                                 [4501] FALSE FALSE
##
                                                 [4513] FALSE FALSE
                                                 [4525] FALSE FALSE
##
                                                 [4537] FALSE FALSE
                                                 [4549] FALSE FALSE
##
                                                 [4561] FALSE FALSE
                                                 [4573] FALSE FALSE
##
                                                 [4585] FALSE FALSE
                                                 [4597] FALSE FALSE
##
                                                 [4609] FALSE FALSE
                                                 [4621] FALSE FALSE
##
                                                 [4633] FALSE FALSE
                                                [4645] FALSE FALSE
                                                 [4657] FALSE FALSE
##
                                                 [4669] FALSE FALSE
                                                 [4681] FALSE FALSE
##
                                                 [4693] FALSE FALSE
                                                 [4705] FALSE FALSE
##
                                                 [4717] FALSE FALSE
##
                                                 [4729] FALSE FALSE
                                                 [4741] FALSE FALSE
                                                 [4753] FALSE FALSE
##
                                                 [4765] FALSE FALSE
                                                 [4777] FALSE FALSE
##
                                                 [4789] FALSE FALSE
##
                                                 [4801] FALSE FALSE
                                                 [4813] FALSE FALSE
                                                [4825] FALSE FALSE
                                                 [4837] FALSE FALSE
                                                 [4849] FALSE FALSE
##
##
                                                 [4861] FALSE FALSE
                                                 [4873] FALSE FALSE
                                                 [4885] FALSE FALSE
##
                                                 [4897] FALSE FALSE
                                                 [4909] FALSE FALSE
##
                                                 [4921] FALSE FALSE
##
                                                 [4933] FALSE FALSE
                                                 [4945] FALSE FALSE
                                                 [4957] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
                                                 [4969] FALSE FALSE
##
                                                 [4981] FALSE FALSE
                                                 [4993] FALSE FALSE
                                                 [5005] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
##
                                                 [5017] FALSE FALSE
                                                 [5029] FALSE FALSE
##
                                                 [5041] FALSE FALSE
##
                                                 [5053] FALSE FALSE
                                                 [5065] FALSE FALSE
                                                 [5077] FALSE FALSE
##
                                                 [5089] FALSE FALSE
##
                                                 [5101] FALSE FALSE
                                                 [5113] FALSE FALSE
                                                 [5125] FALSE FALSE
```

```
[5137] FALSE FALSE
                                                 [5149] FALSE FALSE
##
                                                 [5161] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
                                                 [5173] FALSE FALSE
                                                 [5185] FALSE FALSE
                                                 [5197] FALSE FALSE
##
                                                 [5209] FALSE FALSE
                                                 [5221] FALSE FALSE
##
##
                                                 [5233] FALSE FALSE
                                                 [5245] FALSE FALSE
##
                                                 [5257] FALSE FALSE
                                                 [5269] FALSE FALSE
##
                                                 [5281] FALSE FALSE
                                                 [5293] FALSE FALSE
                                                 [5305] FALSE FALSE
##
                                                 [5317] FALSE FALSE
                                                 [5329] FALSE FALSE
##
                                                 [5341] FALSE FALSE
##
                                                 [5353] FALSE FALSE
##
                                                 [5365] FALSE FALSE
##
##
                                                 [5377] FALSE FALSE
                                                 [5389] FALSE FALSE
                                                 [5401] FALSE FALSE
##
                                                 [5413] FALSE FALSE
                                                 [5425] FALSE FALSE
##
                                                 [5437] FALSE FALSE
##
                                                 [5449] FALSE FALSE
                                                 [5461] FALSE FALSE
                                                 [5473] FALSE FALSE
                                                 [5485] FALSE FALSE
                                                 [5497] FALSE FALSE
##
##
                                                 [5509] FALSE FALSE
                                                 [5521] FALSE FALSE
##
                                                 [5533] FALSE FALSE
##
                                                 [5545] FALSE FALSE
##
                                                 [5557] FALSE FALSE
##
##
                                                 [5569] FALSE FALSE
##
                                                 [5581] FALSE FALSE
                                                 [5593] FALSE FALSE
##
                                                 [5605] FALSE FALSE
##
                                                 [5617] FALSE FALSE
                                                 [5629] FALSE FALSE
##
                                                 [5641] FALSE FALSE
                                                 [5653] FALSE FALSE
##
                                                 [5665] FALSE FALSE
                                                 [5677] FALSE FALSE
##
                                                 [5689] FALSE FALSE
##
                                                 [5701] FALSE FALSE
##
                                                 [5713] FALSE FALSE
                                                 [5725] FALSE FALSE
##
                                                 [5737] FALSE FALSE
##
                                                 [5749] FALSE FALSE
##
                                                 [5761] FALSE FALSE
                                                 [5773] FALSE FALSE
```

```
[5785] FALSE FALSE
                                               [5797] FALSE FALSE
##
                                               [5809] FALSE FALSE
                                               [5821] FALSE FALSE
##
                                               [5833] FALSE FALSE
                                               [5845] FALSE FALSE
##
                                               [5857] FALSE FALSE
                                               [5869] FALSE FALSE
##
##
                                                 [5881] FALSE FALSE
                                               [5893] FALSE FALSE
##
                                               [5905] FALSE FALSE
                                               [5917] FALSE FALSE
##
                                               [5929] FALSE FALSE
                                               [5941] FALSE FALSE
                                               [5953] FALSE FALSE
##
                                               [5965] FALSE FALSE
                                               [5977] FALSE FALSE
##
                                               [5989] FALSE FALSE
                                               [6001] FALSE FALSE
##
                                               [6013] FALSE FALSE
##
                                               [6025] FALSE FALSE
                                               [6037] FALSE FALSE
                                               [6049] FALSE FALSE
##
                                                 [6061] FALSE FALSE
##
                                               [6073] FALSE FALSE
##
                                               [6085] FALSE FALSE
##
                                                                                                                                TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
                                               [6097]
                                               [6109] FALSE FALSE
                                               [6121] FALSE FALSE
                                               [6133] FALSE FALSE
                                               [6145] FALSE FALSE
##
##
                                               [6157] FALSE FALSE
                                               [6169] FALSE FALSE
##
                                               [6181] FALSE FALSE
##
                                               [6193] FALSE FALSE
##
                                               [6205] FALSE FALSE
##
                                               [6217] FALSE FALSE
##
                                               [6229] FALSE FALSE
                                               [6241] FALSE FALSE
                                               [6253] FALSE FALSE
##
                                               [6265] FALSE FALSE
##
                                               [6277] FALSE FALSE
                                               [6289] FALSE FALSE
                                               [6301] FALSE FALSE
##
                                               [6313] FALSE FALSE
                                               [6325] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE
##
                                               [6337] FALSE FALSE
##
                                               [6349] FALSE FALSE
##
                                               [6361] FALSE FALSE
                                               [6373] FALSE FALSE
##
                                               [6385] FALSE FALSE
##
                                               [6397] FALSE FALSE
                                               [6409] FALSE FALSE
                                               [6421] FALSE FALSE
```

```
[6433] FALSE FALSE
                                            [6445] FALSE FALSE
##
                                            [6457] FALSE FALSE
                                            [6469] FALSE FALSE
##
                                            [6481] FALSE FALSE
                                            [6493] FALSE FALSE
##
                                            [6505] FALSE FALSE
                                            [6517] FALSE FALSE
##
##
                                             [6529] FALSE FALSE
                                            [6541] FALSE FALSE
##
                                            [6553] FALSE FALSE
                                            [6565] FALSE FALSE
##
                                            [6577] FALSE FALSE
                                            [6589] FALSE FALSE
                                            [6601] FALSE FALSE
##
                                            [6613] FALSE FALSE
                                            [6625] FALSE FALSE
##
                                            [6637] FALSE FALSE
##
                                            [6649] FALSE FALSE
##
                                            [6661] FALSE FALSE
##
##
                                            [6673] FALSE FALSE
                                                                                                              TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
                                            [6697] FALSE FALSE
##
                                             [6709] FALSE FALSE
##
                                            [6721] FALSE FALSE
##
                                            [6733] FALSE FALSE
##
                                            [6745] FALSE FALSE
                                            [6757] FALSE FALSE
                                            [6769] FALSE FALSE
                                            [6781] FALSE FALSE
                                            [6793] FALSE FALSE
##
##
                                            [6805] FALSE FALSE
                                            [6817] FALSE FALSE
##
                                            [6829] FALSE FALSE
##
                                            [6841] FALSE FALSE
##
                                            [6853] FALSE FALSE
##
##
                                            [6865] FALSE FALSE
##
                                            [6877] FALSE FALSE
                                            [6889] FALSE FALSE
##
                                            [6901] FALSE FALSE
##
                                            [6913] FALSE FALSE
                                            [6925] FALSE FALSE
##
                                            [6937] FALSE FALSE
                                            [6949] FALSE FALSE
##
                                            [6961] FALSE FALSE
                                            [6973] FALSE FALSE
##
                                            [6985] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
##
                                            [6997] TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
                                            [7009] FALSE FALSE
                                            [7021] FALSE FALSE
##
                                            [7033] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE
##
                                            [7045] FALSE FALSE
                                            [7057] FALSE FALSE
                                            [7069] FALSE FALSE
```

```
[7081] FALSE FALSE
##
                                              [7093] FALSE FALSE
                                              [7105] FALSE FALSE
                                              [7117] FALSE FALSE
                                              [7129] FALSE FALSE
                                              [7141] FALSE FALSE
##
                                              [7153] FALSE FALSE
                                              [7165] FALSE FALSE
##
                                              [7177] FALSE FALSE
                                              [7189] FALSE FALSE
##
                                              [7201] FALSE FALSE
                                              [7213] FALSE FALSE
##
                                              [7225] FALSE FALSE
                                              [7237] FALSE FALSE
                                              [7249] FALSE FALSE
##
                                              [7261] FALSE FALSE
                                              [7273] FALSE FALSE
##
##
                                              [7285] FALSE FALSE
                                              [7297] FALSE FALSE
##
                                              [7309] FALSE FALSE
##
                                              [7321] FALSE FALSE
                                              [7333] FALSE FALSE
                                              [7345] FALSE FALSE
##
                                              [7357] FALSE FALSE
                                              [7369] FALSE FALSE
##
                                              [7381] FALSE FALSE
##
                                              [7393] FALSE FALSE
                                              [7405] FALSE FALSE
                                              [7417] FALSE FALSE
                                              [7429] FALSE FALSE
                                              [7441] FALSE FALSE
##
##
                                              [7453] FALSE FALSE
                                              [7465] FALSE FALSE
                                              [7477] FALSE FALSE
##
                                              [7489] FALSE FALSE
##
                                              [7501] FALSE FALSE
##
                                              [7513] FALSE FALSE
##
                                              [7525] FALSE FALSE
                                              [7537] FALSE FALSE
                                              [7549] FALSE FALSE
##
                                              [7561] FALSE FALSE
                                              [7573] FALSE FALSE
##
                                              [7585] FALSE FALSE
                                              [7597] FALSE FALSE
##
                                              [7609] FALSE FALSE
                                              [7621] FALSE FALSE
##
                                              [7633] FALSE FALSE
##
                                              [7645] FALSE FALSE
##
                                              [7657] FALSE FALSE
                                              [7669] FALSE FALSE
##
                                              [7681] FALSE FALSE
##
                                              [7693] FALSE FALSE
                                              [7705] FALSE FALSE
                                              [7717] FALSE FALSE
```

```
[7729] FALSE FALSE
                                             [7741] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
##
                                             [7753] FALSE FALSE
                                             [7765] FALSE FALSE
##
                                             [7777] FALSE FALSE
                                             [7789] FALSE FALSE
##
                                             [7801] FALSE FALSE
                                             [7813] FALSE FALSE
##
##
                                             [7825] FALSE FALSE
                                             [7837] FALSE FALSE
##
                                             [7849] FALSE FALSE
                                             [7861] FALSE FALSE
##
                                             [7873] FALSE FALSE
                                             [7885] FALSE FALSE
##
                                                                                                                                TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
##
                                             [7909] FALSE FALSE
                                             [7921] FALSE FALSE
##
                                             [7933] FALSE FALSE
                                             [7945] FALSE FALSE
##
                                             [7957] FALSE FALSE
##
                                             [7969] FALSE FALSE
                                             [7981] FALSE FALSE
                                             [7993] FALSE FALSE
##
                                             [8005] FALSE FALSE
                                             [8017] FALSE FALSE
##
                                             [8029] FALSE FALSE
##
                                             [8041] FALSE FALSE
                                             [8053] FALSE FALSE
                                             [8065] FALSE FALSE
                                             [8077] FALSE FALSE
                                             [8089] FALSE FALSE
##
##
                                             [8101] FALSE FALSE
                                             [8113] FALSE FALSE
##
                                             [8125] FALSE FALSE
##
                                             [8137] FALSE FALSE
##
                                             [8149] FALSE FALSE
##
                                             [8161] FALSE FALSE
##
                                             [8173] FALSE FALSE
                                             [8185] FALSE FALSE
                                             [8197] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
                                             [8209] FALSE FALSE
                                             [8221] FALSE FALSE
##
                                             [8233] FALSE FALSE
                                             [8245] FALSE FALSE
##
                                             [8257] FALSE FALSE
                                             [8269] FALSE FALSE
##
                                               [8281] FALSE FALSE
##
                                             [8293] FALSE FALSE
##
                                             [8305] FALSE FALSE
                                             [8317] FALSE FALSE
##
                                             [8329] FALSE FALSE
##
                                             [8341] FALSE FALSE
##
##
                                             [8353] FALSE FALSE
                                             [8365] FALSE FALSE
```

```
[8377] FALSE FALSE
                                           [8389] FALSE FALSE
##
                                           [8401] FALSE FALSE
                                           [8413] FALSE FALSE
##
                                           [8425] FALSE FALSE
                                           [8437] FALSE FALSE
##
                                           [8449] FALSE FALSE
                                           [8461] FALSE FALSE
##
##
                                             [8473] FALSE FALSE
                                           [8485] FALSE FALSE
##
                                           [8497] FALSE FALSE
                                           [8509] FALSE FALSE
##
                                           [8521] FALSE FALSE
                                           [8533] FALSE FALSE
                                           [8545] FALSE FALSE
##
                                           [8557] FALSE FALSE
                                           [8569] FALSE FALSE
##
##
                                           [8581] FALSE FALSE
                                           [8593] FALSE FALSE
##
##
                                           [8605] FALSE FALSE
##
                                           [8617] FALSE FALSE
                                           [8629] FALSE FALSE
                                           [8641] FALSE FALSE
##
                                             [8653] FALSE FALSE
##
                                           [8665] FALSE FALSE
##
                                           [8677] FALSE FALSE
##
                                           [8689] FALSE FALSE
                                           [8701] FALSE FALSE
                                           [8713] FALSE FALSE
                                           [8725] FALSE FALSE
                                           [8737] FALSE FALSE
##
##
                                           [8749] FALSE FALSE
                                           [8761] FALSE FALSE
##
                                           [8773] FALSE FALSE
##
                                           [8785] FALSE FALSE
##
                                           [8797] FALSE FALSE
##
##
                                           [8809] FALSE FALSE
##
                                           [8821] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
                                           [8833] FALSE FALSE
##
                                           [8845] FALSE FALSE
##
                                           [8857] FALSE FALSE
                                           [8869] FALSE FALSE
##
                                           [8881] FALSE FALSE
                                           [8893] FALSE FALSE
##
                                           [8905] FALSE FALSE
                                           [8917] FALSE FALSE
##
                                             [8929] FALSE FALSE
##
                                           [8941] FALSE FALSE
##
                                           [8953] FALSE FALSE
                                           [8965] FALSE FALSE
##
                                           [8977] FALSE FALSE
##
                                           [8989] FALSE FALSE
                                           [9001] FALSE FALSE
                                           [9013] FALSE FALSE
```

```
[9025] FALSE FALSE
                                               [9037] FALSE FALSE
##
                                               [9049] FALSE FALSE
                                               [9061] FALSE FALSE
##
                                               [9073] FALSE FALSE
                                               [9085] FALSE FALSE
##
                                               [9097] FALSE FALSE
                                               [9109] FALSE FALSE
##
##
                                               [9121] FALSE FALSE
                                               [9133] FALSE FALSE
##
                                               [9145] FALSE FALSE
                                               [9157] FALSE FALSE
##
                                               [9169] FALSE FALSE
                                               [9181] FALSE FALSE
                                               [9193] FALSE FALSE
##
                                               [9205] FALSE FALSE
                                               [9217] FALSE FALSE
##
                                               [9229] FALSE FALSE
                                               [9241] FALSE FALSE
##
                                               [9253] FALSE FALSE
##
                                               [9265] FALSE FALSE
                                               [9277] FALSE FALSE
                                               [9289] FALSE FALSE
##
                                               [9301] FALSE FALSE
                                               [9313] FALSE FALSE
##
                                               [9325] FALSE FALSE
##
                                               [9337] FALSE FALSE
                                               [9349] FALSE FALSE
                                               [9361] FALSE FALSE
                                               [9373] FALSE FALSE
                                               [9385] FALSE FALSE
##
##
                                               [9397] FALSE FALSE
                                               [9409] FALSE FALSE
##
                                               [9421] FALSE FALSE
##
                                               [9433] FALSE FALSE
##
                                               [9445] FALSE FALSE
##
                                               [9457] FALSE FALSE
##
                                               [9469] FALSE FALSE
                                               [9481] FALSE FALSE
##
                                               [9493] FALSE FALSE
##
                                               [9505] FALSE FALSE
##
                                               [9517] FALSE FALSE
                                               [9529] FALSE FALSE
                                               [9541] FALSE FALSE
##
                                               [9553] FALSE FALSE
                                               [9565] FALSE FALSE
##
                                               [9577] FALSE FALSE
##
                                               [9589] FALSE FALSE
##
                                               [9601] FALSE FALSE
                                               [9613] FALSE FALSE
##
                                               [9625] FALSE FALSE
##
                                               [9637] FALSE FALSE
                                               [9649] FALSE FALSE
                                               [9661] FALSE FALSE
```

```
[9673] FALSE FALSE
##
                                       [9685] FALSE FALSE
                                       [9697] FALSE FALSE
                                       [9709] FALSE FALSE
##
                                       [9721] FALSE FALSE
                                       [9733] FALSE FALSE
##
                                       [9745] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE
                                       [9757] TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
##
##
                                       [9769] FALSE FALSE
                                       [9781] FALSE FALSE
##
                                       [9793] FALSE FALSE
                                       [9805] FALSE FALSE
##
                                       [9817] FALSE FALSE
                                       [9829] FALSE FALSE
                                       [9841] FALSE FALSE
##
                                       [9853] FALSE FALSE
                                       [9865] FALSE FALSE
##
                                       [9877] FALSE FALSE
##
                                       [9889] FALSE FALSE
                                       [9901] FALSE FALSE
##
##
                                       [9913] FALSE FALSE
                                       [9925] FALSE FALSE
                                       [9937] FALSE FALSE
##
                                       [9949] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE
                                       [9961] FALSE FALSE
##
                                      [9973] FALSE FALSE
##
                                      [9985] FALSE FALSE
                                    [9997] FALSE FALSE
## [10009] FALSE FALSE
## [10021] FALSE F
## [10033] FALSE F
## [10045] FALSE TRUE
## [10057] FALSE FALSE
## [10069] FALSE FALSE
## [10081] FALSE F
## [10093] FALSE FALSE
## [10105] FALSE FALSE
## [10117] FALSE FALSE
## [10129] FALSE FALSE
## [10141] FALSE FALSE
## [10153] FALSE FALSE
## [10165] FALSE FALSE
## [10177] TRUE FALSE FA
## [10189] FALSE FALSE
## [10201] FALSE FALSE
## [10213] FALSE FALSE
## [10225] FALSE F
## [10237] FALSE FALSE
## [10249] FALSE FALSE
## [10261] FALSE FALSE
## [10273] FALSE FALSE
## [10285] FALSE FALSE
## [10297] FALSE FALSE
## [10309] FALSE FALSE
```

```
## [10321] FALSE FALSE
## [10333] FALSE FALSE
## [10345] FALSE FALSE
## [10357] FALSE F
## [10369] FALSE FALSE
## [10381] FALSE F
## [10393] FALSE FALSE
## [10405] FALSE F
## [10417] FALSE FALSE
## [10429] FALSE F
## [10441] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [10453] FALSE FALSE
## [10465] FALSE F
## [10477] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [10489] FALSE FALSE
## [10501] FALSE FALSE
## [10513] FALSE FALSE
## [10525] FALSE F
## [10537] FALSE FALSE
## [10549] FALSE FALSE
## [10561] FALSE FALSE
## [10573] FALSE FALSE
## [10585] FALSE F
## [10597] FALSE F
## [10609] FALSE FALSE
## [10621] FALSE FALSE
## [10633] FALSE FALSE
## [10645] FALSE FALSE
## [10657] FALSE FALSE
## [10669] FALSE F
## [10681] FALSE FALSE
## [10693] FALSE FALSE
## [10705] FALSE FALSE
## [10717] FALSE FALSE
## [10729] FALSE F
## [10741] FALSE FALSE
## [10753] FALSE FALSE
## [10765] FALSE FALSE
## [10777] FALSE FALSE
## [10789] FALSE F
## [10801] FALSE FALSE
## [10813] FALSE FALSE
## [10825] FALSE FALSE
## [10837] FALSE FALSE
## [10849] FALSE FALSE
## [10861] FALSE FALSE
## [10873] FALSE F
## [10885] FALSE FALSE
## [10897] FALSE FALSE
## [10909] FALSE FALSE
## [10921] FALSE FALSE
## [10933] FALSE FALSE
## [10945] FALSE FALSE
## [10957] FALSE FALSE
```

```
## [10969] FALSE FALSE
## [10981] FALSE FALSE
## [10993] FALSE FALSE
## [11005] FALSE F
## [11017] FALSE FALSE
## [11029] FALSE F
## [11041] FALSE FALSE
## [11053] FALSE F
## [11065] FALSE FALSE
## [11077] FALSE FALSE
## [11089] FALSE FALSE
## [11101] FALSE F
## [11113] FALSE FALSE
## [11125] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [11137] FALSE FALSE
## [11149] FALSE FALSE
## [11161] FALSE FALSE
## [11173] FALSE FALSE
## [11185] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [11197] FALSE FALSE
## [11209] FALSE FALSE
## [11221] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [11233] FALSE FALSE
## [11245] FALSE TRUE FALSE FA
## [11257] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
## [11281] FALSE FALSE
## [11293] FALSE FALSE
## [11305] FALSE FALSE
## [11317] FALSE F
## [11329] FALSE F
## [11341] FALSE FALSE
## [11353] FALSE FALSE
## [11365] FALSE FALSE
## [11377] FALSE FALSE
## [11389] FALSE FALSE
## [11401] FALSE FALSE
## [11413] FALSE FALSE
## [11425] FALSE FALSE
## [11437] FALSE FALSE
## [11449] FALSE FALSE
## [11461] FALSE FALSE
## [11473] FALSE FALSE
## [11485] FALSE FALSE
## [11497] FALSE FALSE
## [11509] FALSE FALSE
## [11521] FALSE F
## [11533] FALSE FALSE
## [11545] FALSE FALSE
## [11557] FALSE FALSE
## [11569] FALSE FALSE
## [11581] FALSE FALSE
## [11593] FALSE FALSE
## [11605] FALSE FALSE
```

```
## [11617] FALSE FALSE
## [11629] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [11641] FALSE FALSE
## [11653] FALSE F
## [11665] FALSE FALSE
## [11677] FALSE F
## [11689] FALSE FALSE
## [11701] FALSE FALSE
## [11713] FALSE FALSE
## [11725] FALSE FALSE
## [11737] FALSE F
## [11749] FALSE FALSE
## [11761] FALSE F
## [11773] FALSE FALSE
## [11785] FALSE FALSE
## [11797] FALSE FALSE
## [11809] FALSE FALSE
## [11821] FALSE F
## [11833] FALSE FALSE
## [11845] FALSE FALSE
## [11857] FALSE FALSE
## [11869] FALSE FALSE
## [11881] FALSE FALSE
## [11893] FALSE FALSE
## [11905] FALSE FALSE
## [11917] FALSE FALSE
## [11929] FALSE F
## [11941] FALSE FALSE
## [11953] FALSE FALSE
## [11965] FALSE F
## [11977] FALSE F
## [11989] FALSE FALSE
## [12001] FALSE FALSE
## [12013] FALSE FALSE
## [12025] FALSE F
## [12037] FALSE FALSE
## [12049] FALSE FALSE
## [12061] FALSE FALSE
## [12073] FALSE FALSE
## [12085] FALSE F
## [12097] FALSE F
## [12109] FALSE FALSE
## [12121] FALSE FALSE
## [12133] FALSE FALSE
## [12145] FALSE FALSE
## [12157] FALSE FALSE
## [12169] FALSE F
## [12181] FALSE FALSE
## [12193] FALSE FALSE
## [12205] FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [12217] FALSE FALSE
## [12229] FALSE FALSE
## [12241] FALSE FALSE
## [12253] FALSE FALSE
```

```
## [12265] FALSE FALSE
## [12277] FALSE FALSE
## [12289] FALSE FALSE
## [12301] FALSE F
## [12313] FALSE FALSE
## [12325] FALSE F
## [12337] FALSE FALSE
## [12349] FALSE FALSE
## [12361] FALSE FALSE
## [12373] FALSE FALSE
## [12385] FALSE FALSE
## [12397] FALSE FALSE
## [12409] FALSE F
## [12421] FALSE FALSE
## [12433] FALSE FALSE
## [12445] FALSE FALSE
## [12457] FALSE FALSE
## [12469] FALSE F
## [12481] FALSE FALSE
## [12493] FALSE FALSE
## [12505] FALSE FALSE
## [12517] FALSE FALSE
## [12529] FALSE F
## [12541] FALSE FALSE
## [12553] FALSE FALSE
## [12565] FALSE FALSE
## [12577] FALSE FALSE
## [12589] FALSE FALSE
## [12601] FALSE FALSE
## [12613] FALSE F
## [12625] FALSE F
## [12637] FALSE FALSE
## [12649] FALSE FALSE
## [12661] FALSE FALSE
## [12673] FALSE F
## [12685] FALSE FALSE
## [12697] FALSE FALSE
## [12709] FALSE FALSE
## [12721] FALSE FALSE
## [12733] FALSE FALSE
## [12745] FALSE FALSE
## [12757] FALSE FALSE
## [12769] FALSE FALSE
## [12781] FALSE FALSE
## [12793] FALSE FALSE
## [12805] FALSE F
## [12817] FALSE F
## [12829] FALSE FALSE
## [12841] FALSE FALSE
## [12853] FALSE FALSE
## [12865] FALSE F
## [12877] FALSE FALSE
## [12889] FALSE FALSE
## [12901] FALSE FALSE
```

```
## [12913] FALSE FALSE
## [12925] FALSE FALSE
## [12937] FALSE FALSE
## [12949] FALSE F
## [12961] FALSE FALSE
## [12973] FALSE F
## [12985] FALSE FALSE
## [12997] FALSE FALSE
## [13009] FALSE FALSE
## [13021] FALSE FALSE
## [13033] FALSE FALSE
## [13045] FALSE FALSE
## [13057] FALSE F
## [13069] FALSE FALSE
## [13081] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [13105] FALSE FALSE
## [13117] FALSE FALSE
## [13129] FALSE FALSE
## [13141] FALSE FALSE
## [13153] FALSE FALSE
## [13165] FALSE FALSE
## [13177] FALSE FALSE
## [13189] FALSE FALSE
## [13201] FALSE FALSE
## [13213] FALSE FALSE
## [13225] FALSE FALSE
## [13237] FALSE FALSE
## [13249] FALSE FALSE
## [13261] FALSE F
## [13273] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [13285] FALSE FALSE
## [13297] FALSE FALSE
## [13309] FALSE FALSE
## [13321] FALSE F
## [13333] FALSE FALSE
## [13345] FALSE FALSE
## [13357] FALSE FALSE
## [13369] FALSE FALSE
## [13381] FALSE FALSE
## [13393] FALSE FALSE
## [13405] FALSE FALSE
## [13417] FALSE FALSE
## [13429] FALSE FALSE
## [13441] FALSE FALSE
## [13453] FALSE FALSE
## [13465] FALSE F
## [13477] FALSE FALSE
## [13489] FALSE FALSE
## [13501] FALSE FALSE
## [13513] FALSE FALSE
## [13525] FALSE FALSE
## [13537] FALSE FALSE
## [13549] FALSE FALSE
```

```
## [13561] FALSE FALSE
## [13573] FALSE FALSE
## [13585] FALSE FALSE
## [13597] FALSE FALSE
## [13609] FALSE FALSE
## [13621] FALSE F
## [13633] FALSE FALSE
## [13645] FALSE FALSE
## [13657] FALSE FALSE
## [13669] FALSE FALSE
## [13681] FALSE FALSE
## [13693] FALSE F
## [13705] FALSE F
## [13717] FALSE FALSE
## [13729] FALSE FALSE
## [13741] FALSE FALSE
## [13753] FALSE FALSE
## [13765] FALSE F
## [13777] FALSE FALSE
## [13789] FALSE FALSE
## [13801] FALSE FALSE
## [13813] FALSE FALSE
## [13825] FALSE F
## [13837] FALSE FALSE
## [13849] FALSE FALSE
## [13861] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [13873] FALSE FALSE
## [13885] FALSE FALSE
## [13897] FALSE FALSE
## [13909] FALSE F
## [13921] FALSE F
## [13933] FALSE FALSE
## [13945] FALSE FALSE
## [13957] FALSE
                                                                                  TRUE TRUE TRUE TRUE TRUE TRUE
## [13969] TRUE TRUE
                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE
## [13981]
                                                        ## [14005] FALSE FALSE
## [14017] FALSE FALSE
## [14029] FALSE F
## [14041] FALSE FALSE
## [14053] FALSE FALSE
## [14065] FALSE FALSE
## [14077] FALSE FALSE
## [14089] FALSE FALSE
## [14101] FALSE FALSE
## [14113] FALSE F
## [14125] FALSE FALSE
## [14137] FALSE FALSE
## [14149] FALSE FALSE
## [14161] FALSE FALSE
## [14173] FALSE FALSE
## [14185] FALSE FALSE
## [14197] FALSE FALSE
```

```
## [14209] FALSE FALSE
## [14221] FALSE FALSE
## [14233] FALSE FALSE
## [14245] FALSE F
## [14257] FALSE FALSE
## [14269] FALSE F
## [14281] FALSE FALSE
## [14293] FALSE FALSE
## [14305] FALSE FALSE
## [14317] FALSE FALSE
## [14329] FALSE FALSE
## [14341] FALSE FALSE
## [14353] FALSE F
## [14365] FALSE FALSE
## [14377] FALSE FALSE
## [14389] FALSE FALSE
## [14401] FALSE FALSE
## [14413] FALSE F
## [14425] FALSE FALSE
## [14437] FALSE FALSE
## [14449] FALSE FALSE
## [14461] FALSE FALSE
## [14473] FALSE FALSE
## [14485] FALSE FALSE
## [14497] FALSE FALSE
## [14509] FALSE FALSE
## [14521] FALSE FALSE
## [14533] FALSE FALSE
## [14545] FALSE F
## [14557] FALSE F
## [14569] FALSE F
## [14581] FALSE FALSE
## [14593] FALSE FALSE
## [14605] FALSE FALSE
## [14617] FALSE F
## [14629] FALSE FALSE
## [14641] FALSE FALSE
## [14653] FALSE FALSE
## [14665] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [14677] FALSE F
## [14689] FALSE FALSE
## [14701] FALSE FALSE
## [14713] FALSE FALSE
## [14725] FALSE FALSE
## [14737] FALSE FALSE
## [14749] FALSE FALSE
## [14761] FALSE F
## [14773] FALSE FALSE
## [14785] FALSE FALSE
## [14797] FALSE FALSE
## [14809] FALSE FALSE
## [14821] FALSE FALSE
## [14833] FALSE FALSE
## [14845] FALSE TRUE
```

```
## [14857] FALSE FALSE
## [14869] FALSE FALSE
## [14881] FALSE FALSE
## [14893] FALSE FALSE
## [14905] FALSE FALSE
## [14929] TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [14941] FALSE FALSE
## [14953] FALSE FALSE
## [14965] FALSE FALSE
## [14977] FALSE FALSE
## [14989] FALSE FALSE
## [15001] FALSE F
## [15013] FALSE FALSE
## [15025] FALSE FALSE
## [15037] FALSE FALSE
## [15049] FALSE FALSE
## [15061] FALSE F
## [15073] FALSE FALSE
## [15085] FALSE FALSE
## [15097] FALSE FALSE
## [15109] FALSE FALSE
## [15121] FALSE FALSE
## [15133] FALSE FALSE
## [15145] FALSE FALSE
## [15157] FALSE FALSE
## [15169] FALSE FALSE
## [15181] FALSE FALSE
## [15193] FALSE FALSE
## [15205] FALSE F
## [15217] FALSE F
## [15229] FALSE FALSE
## [15241] FALSE FALSE
## [15253] FALSE FALSE
## [15265] FALSE F
## [15277] FALSE FALSE
## [15289] FALSE FALSE
## [15301] FALSE FALSE
## [15313] FALSE FALSE
## [15325] FALSE F
## [15337] FALSE FALSE
## [15349] FALSE FALSE
## [15361] FALSE FALSE
## [15373] FALSE FALSE
## [15385] FALSE FALSE
## [15397] FALSE FALSE
## [15409] FALSE F
## [15421] FALSE FALSE
## [15433] FALSE FALSE
## [15445] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [15457] FALSE FALSE
## [15469] FALSE FALSE
## [15481] FALSE FALSE
## [15493] FALSE FALSE
```

```
## [15505] FALSE FALSE
## [15517] FALSE FALSE
## [15529] FALSE FALSE
## [15541] FALSE FALSE
## [15553] FALSE FALSE
## [15565] FALSE F
## [15577] FALSE FALSE
## [15589] FALSE F
## [15601] TRUE FALSE FA
## [15613] FALSE FALSE
## [15625] TRUE FALSE FA
## [15637] FALSE F
## [15649] FALSE F
## [15661] FALSE F
## [15673] FALSE FALSE
## [15685] FALSE FALSE
## [15697] FALSE FALSE
## [15709] FALSE F
## [15721] FALSE FALSE
## [15733] FALSE FALSE
## [15745] FALSE FALSE
## [15757] FALSE FALSE
## [15769] FALSE FALSE
## [15781] FALSE F
## [15793] FALSE FALSE
## [15805] FALSE FALSE
## [15817] FALSE FALSE
## [15829] FALSE FALSE
## [15853] TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [15865] FALSE F
## [15877] FALSE FALSE
## [15889] FALSE FALSE
## [15901] FALSE FALSE
## [15913] FALSE F
## [15925] FALSE FALSE
## [15937] FALSE FALSE
## [15949] FALSE FALSE
## [15961] FALSE FALSE
## [15973] FALSE FALSE
## [15985] FALSE FALSE
## [15997] FALSE FALSE
## [16009] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [16021] FALSE FALSE
## [16033] FALSE FALSE
## [16045] FALSE FALSE
## [16057] FALSE F
## [16069] FALSE F
## [16081] FALSE FALSE
## [16093] FALSE FALSE
## [16105] FALSE FALSE
## [16117] FALSE FALSE
## [16129] FALSE FALSE
## [16141] FALSE FALSE
```

```
## [16153] FALSE FALSE
## [16165] FALSE FALSE
## [16177] FALSE FALSE
## [16189] FALSE F
## [16201] FALSE FALSE
## [16213] FALSE F
## [16225] FALSE F
## [16237] FALSE F
## [16249] FALSE FALSE
## [16261] FALSE FALSE
## [16273] FALSE FALSE
## [16285] FALSE F
## [16297] FALSE F
## [16309] FALSE F
## [16321] FALSE FALSE
## [16333] FALSE FALSE
## [16345] FALSE FALSE
## [16357] FALSE F
## [16369] FALSE FALSE
## [16381] FALSE FALSE
## [16393] FALSE FALSE
## [16405] FALSE FALSE
## [16417] FALSE F
## [16429] FALSE F
## [16441] FALSE FALSE
## [16453] FALSE FALSE
## [16465] FALSE FALSE
## [16477] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [16489] FALSE FALSE
## [16501] FALSE F
## [16513] FALSE FALSE
## [16525] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [16537] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [16549] FALSE FALSE
## [16561] FALSE F
## [16573] FALSE FALSE
## [16585] FALSE FALSE
## [16597] FALSE FALSE
## [16609] FALSE FALSE
## [16621] FALSE F
## [16633] FALSE FALSE
## [16645] FALSE FALSE
## [16657] FALSE FALSE
## [16669] FALSE FALSE
## [16681] FALSE FALSE
## [16693] FALSE FALSE
## [16705] FALSE F
## [16717] FALSE FALSE
## [16729] FALSE FALSE
## [16741] FALSE FALSE
## [16753] FALSE FALSE
## [16765] FALSE FALSE
## [16777] FALSE FALSE
## [16789] FALSE FALSE
```

```
## [16801] FALSE FALSE
## [16813] FALSE FALSE
## [16825] FALSE FALSE
## [16837] FALSE FALSE
## [16849] FALSE FALSE
## [16861] FALSE F
## [16873] FALSE FALSE
## [16885] FALSE FALSE
## [16897] FALSE FALSE
## [16909] FALSE FALSE
## [16921] FALSE FALSE
## [16933] FALSE FALSE
## [16945] FALSE F
## [16957] FALSE F
## [16969] FALSE FALSE
## [16981] FALSE FALSE
## [16993] FALSE FALSE
## [17005] FALSE F
## [17017] FALSE FALSE
## [17029] FALSE FALSE
## [17041] FALSE FALSE
## [17053] FALSE FALSE
## [17065] FALSE F
## [17077] FALSE FALSE
## [17089] FALSE FALSE
## [17101] FALSE FALSE
## [17113] FALSE FALSE
## [17125] FALSE FALSE
## [17137] FALSE FALSE
## [17149] FALSE F
## [17161] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [17173] FALSE FALSE
## [17185] FALSE FALSE
## [17197] FALSE FALSE
## [17209] FALSE F
## [17221] FALSE FALSE
## [17233] FALSE FALSE
## [17245] FALSE FALSE
## [17257] FALSE FALSE
## [17269] FALSE F
## [17281] FALSE FALSE
## [17293] FALSE FALSE
## [17305] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE FALSE
## [17317] FALSE FALSE
## [17329] FALSE FALSE
## [17341] FALSE FALSE
## [17353] FALSE F
## [17365] FALSE FALSE
## [17377] FALSE FALSE
## [17389] FALSE FALSE
## [17401] FALSE FALSE
## [17413] FALSE FALSE
## [17425] FALSE FALSE
## [17437] FALSE FALSE
```

```
## [17449] FALSE FALSE
## [17461] FALSE FALSE
## [17473] FALSE FALSE
## [17485] FALSE F
## [17497] FALSE FALSE
## [17509] FALSE F
## [17521] FALSE FALSE
## [17533] FALSE F
## [17545] FALSE FALSE
## [17557] FALSE FALSE
## [17569] FALSE FALSE
## [17581] FALSE F
## [17593] FALSE F
## [17605] FALSE F
## [17617] FALSE FALSE
## [17629] FALSE F
## [17641] FALSE FALSE
## [17653] FALSE F
## [17665] FALSE FALSE
## [17677] FALSE FALSE
## [17689] FALSE FALSE
## [17701] FALSE FALSE
## [17713] FALSE FALSE
## [17725] FALSE FALSE
## [17737] FALSE FALSE
## [17749] FALSE FALSE
## [17761] FALSE FALSE
## [17773] FALSE FALSE
## [17785] FALSE FALSE
## [17797] FALSE F
## [17809] FALSE FALSE
## [17821] FALSE FALSE
## [17833] FALSE FALSE
## [17845] FALSE FALSE
## [17857] FALSE F
## [17869] FALSE FALSE
## [17881] FALSE FALSE
## [17893] FALSE FALSE
## [17905] FALSE FALSE
## [17917] FALSE FALSE
## [17929] FALSE FALSE
## [17941] FALSE F
## [17953] FALSE FALSE
## [17965] FALSE FALSE
## [17977] FALSE FALSE
## [17989] FALSE FALSE
## [18001] FALSE F
## [18013] FALSE F
## [18025] FALSE FALSE
## [18037] FALSE FALSE
## [18049] FALSE FALSE
## [18061] FALSE FALSE
## [18073] FALSE FALSE
## [18085] FALSE FALSE
```

```
## [18097] FALSE FALSE
## [18109] FALSE FALSE
## [18121] FALSE FALSE
## [18133] FALSE FALSE
## [18145] TRUE FALSE FA
## [18157] FALSE F
## [18169] FALSE FALSE
## [18181] FALSE F
## [18193] FALSE FALSE
## [18205] FALSE F
## [18229] FALSE FALSE
## [18241] FALSE F
## [18253] FALSE FALSE
## [18265] FALSE F
## [18277] FALSE FALSE
## [18289] FALSE FALSE
## [18301] FALSE F
## [18313] FALSE FALSE
## [18325] FALSE FALSE
## [18337] FALSE FALSE
## [18349] FALSE FALSE
## [18361] FALSE FALSE
## [18373] FALSE FALSE
## [18385] FALSE FALSE
## [18397] FALSE FALSE
## [18409] FALSE FALSE
## [18421] FALSE FALSE
## [18433] FALSE FALSE
## [18445] FALSE F
## [18457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [18469] FALSE FALSE
## [18481] FALSE FALSE
## [18493] FALSE FALSE
## [18505] FALSE F
## [18517] FALSE FALSE
## [18529] FALSE FALSE
## [18541] FALSE FALSE
## [18553] FALSE FALSE
## [18565] FALSE F
## [18577] FALSE FALSE
## [18589] FALSE FALSE
## [18601] FALSE FALSE
## [18613] FALSE FALSE
## [18625] FALSE FALSE
## [18637] FALSE FALSE
## [18649] FALSE F
## [18661] FALSE FALSE
## [18673] FALSE FALSE
## [18685] FALSE FALSE
## [18697] FALSE FALSE
## [18709] FALSE FALSE
## [18721] FALSE FALSE
## [18733] FALSE FALSE
```

```
## [18745] FALSE FALSE
## [18757] FALSE FALSE
## [18769] FALSE FALSE
## [18781] FALSE FALSE
## [18793] FALSE FALSE
## [18805] FALSE F
## [18817] FALSE FALSE
## [18829] FALSE FALSE
## [18841] FALSE FALSE
## [18853] FALSE FALSE
## [18865] FALSE FALSE
## [18877] FALSE FALSE
## [18889] FALSE F
## [18901] FALSE FALSE
## [18913] FALSE FALSE
## [18925] FALSE F
## [18937] FALSE FALSE
## [18949] FALSE F
## [18961] FALSE FALSE
## [18973] FALSE FALSE
## [18985] FALSE FALSE
## [18997] FALSE FALSE
## [19009] FALSE F
## [19021] FALSE FALSE
## [19033] FALSE FALSE
## [19045] FALSE FALSE
## [19057] FALSE FALSE
## [19069] FALSE FALSE
## [19081] FALSE FALSE
## [19093] FALSE F
## [19105] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
## [19117] FALSE FALSE
## [19129] FALSE FALSE
## [19141] FALSE FALSE
## [19153] FALSE F
## [19165] FALSE FALSE
## [19177] FALSE FALSE
## [19189] FALSE FALSE
## [19201] FALSE FALSE
## [19213] FALSE FALSE
## [19225] FALSE FALSE
## [19237] FALSE FALSE
## [19249] FALSE FALSE
## [19261] FALSE F
## [19273] FALSE FALSE
## [19285] FALSE F
## [19297] FALSE F
## [19309] FALSE FALSE
## [19321] FALSE FALSE
## [19333] FALSE FALSE
## [19345] FALSE FALSE
## [19357] FALSE FALSE
## [19369] FALSE FALSE
## [19381] FALSE FALSE
```

```
## [19393] FALSE FALSE
## [19405] FALSE FALSE
## [19417] FALSE FALSE
## [19429] FALSE F
## [19441] FALSE FALSE
## [19453] FALSE F
## [19465] FALSE F
## [19477] FALSE FALSE
## [19489] FALSE FALSE
## [19501] FALSE FALSE
## [19513] FALSE FALSE
## [19525] FALSE FALSE
## [19537] FALSE F
## [19549] FALSE FALSE
## [19561] FALSE FALSE
## [19573] FALSE FALSE
## [19585] FALSE FALSE
## [19597] FALSE F
## [19609] FALSE FALSE
## [19621] FALSE FALSE
## [19633] FALSE FALSE
## [19645] FALSE FALSE
## [19657] FALSE F
## [19669] FALSE F
## [19681] FALSE FALSE
## [19693] FALSE FALSE
## [19705] FALSE FALSE
## [19717] FALSE FALSE
## [19729] FALSE FALSE
## [19741] FALSE F
## [19753] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [19765] FALSE FALSE
## [19777] FALSE FALSE
## [19789] FALSE FALSE
## [19801] FALSE F
## [19813] FALSE FALSE
## [19825] FALSE FALSE
## [19837] FALSE FALSE
## [19849] FALSE FALSE
## [19861] FALSE FALSE
## [19873] FALSE FALSE
## [19885] FALSE FALSE
## [19897] FALSE FALSE
## [19909] FALSE FALSE
## [19921] FALSE FALSE
## [19933] FALSE FALSE
## [19945] FALSE F
## [19957] FALSE FALSE
## [19969] FALSE FALSE
## [19981] FALSE FALSE
## [19993] FALSE FALSE
## [20017] FALSE FALSE
## [20029] FALSE FALSE
```

```
## [20041] FALSE FALSE
## [20053] FALSE FALSE
## [20065] FALSE FALSE
## [20077] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [20089] FALSE FALSE
## [20101] FALSE F
## [20113] FALSE FALSE
## [20125] FALSE F
## [20137] FALSE FALSE
## [20149] FALSE F
## [20161] FALSE F
## [20173] FALSE F
## [20185] FALSE FALSE FALSE TRUE FALSE FA
## [20197] FALSE FALSE
## [20209] FALSE F
## [20221] FALSE F
## [20233] FALSE F
## [20245] FALSE F
## [20257] FALSE FALSE
## [20269] FALSE FALSE
## [20281] FALSE FALSE
## [20293] FALSE FALSE
## [20305] FALSE F
## [20317] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [20329] FALSE FALSE
## [20341] FALSE FALSE
## [20353] FALSE FALSE
## [20365] FALSE F
## [20377] FALSE FALSE
## [20389] FALSE F
## [20401] FALSE F
## [20413] FALSE FALSE
## [20425] FALSE F
## [20437] FALSE F
## [20449] FALSE F
## [20461] FALSE FALSE
## [20473] FALSE FALSE
## [20485] FALSE FALSE
## [20497] FALSE FALSE
## [20509] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [20521] FALSE FALSE
## [20533] FALSE FALSE
## [20545] FALSE FALSE
## [20557] FALSE F
## [20569] FALSE F
## [20581] FALSE F
## [20593] FALSE F
## [20605] FALSE FALSE
## [20617] FALSE FALSE
## [20629] FALSE F
## [20641] FALSE F
## [20653] FALSE FALSE
## [20665] FALSE FALSE
## [20677] FALSE FALSE
```

```
## [20689] FALSE FALSE
## [20701] FALSE FALSE
## [20713] FALSE FALSE
## [20725] FALSE F
## [20737] FALSE FALSE
## [20749] FALSE F
## [20761] FALSE F
## [20773] FALSE FALSE
## [20785] FALSE FALSE
## [20797] FALSE F
## [20809] FALSE F
## [20821] FALSE F
## [20833] FALSE F
## [20845] FALSE FALSE
## [20857] FALSE F
## [20869] FALSE F
## [20881] FALSE F
## [20893] FALSE F
## [20905] FALSE FALSE
## [20917] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
## [20941] FALSE FALSE
## [20953] FALSE F
## [20965] FALSE F
## [20977] FALSE FALSE
## [20989] FALSE FALSE
## [21001] FALSE FALSE
## [21013] FALSE FALSE
## [21025] FALSE F
## [21037] FALSE F
## [21049] FALSE F
## [21061] FALSE FALSE
## [21073] FALSE FALSE
## [21085] FALSE F
## [21097] FALSE F
## [21109] FALSE FALSE
## [21121] FALSE FALSE
## [21133] FALSE FALSE
## [21145] FALSE FALSE
## [21157] FALSE F
## [21169] FALSE FALSE
## [21181] FALSE F
## [21193] FALSE FALSE
## [21205] FALSE F
## [21217] FALSE FALSE
## [21229] FALSE FALSE
## [21241] FALSE F
## [21253] FALSE FALSE
## [21265] FALSE FALSE
## [21277] FALSE FALSE
## [21289] FALSE FALSE
## [21301] FALSE FALSE
## [21313] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [21325] FALSE F
```

```
## [21337] FALSE FALSE
## [21349] FALSE FALSE
## [21361] FALSE FALSE
## [21373] FALSE F
## [21385] FALSE FALSE
## [21397] FALSE F
## [21409] FALSE F
## [21421] FALSE F
## [21433] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [21445] FALSE F
## [21457] FALSE F
## [21469] FALSE FALSE
## [21481] FALSE F
## [21493] FALSE FALSE
## [21505] FALSE F
## [21517] FALSE FALSE
## [21529] FALSE F
## [21541] FALSE F
## [21553] FALSE FALSE
## [21565] FALSE FALSE
## [21577] FALSE FALSE
## [21589] FALSE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [21601] FALSE F
## [21613] FALSE F
## [21625] FALSE FALSE
## [21637] FALSE F
## [21649] FALSE F
## [21661] FALSE F
## [21673] FALSE FALSE
## [21685] FALSE F
## [21697] FALSE F
## [21709] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE
## [21721] FALSE FALSE
## [21733] FALSE FALSE
## [21745] FALSE F
## [21757] FALSE FALSE
## [21769] FALSE FALSE
## [21781] FALSE FALSE
## [21793] FALSE FALSE
## [21805] FALSE F
## [21817] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [21841]
                                                                                                                 TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [21853]
## [21865] FALSE F
## [21877] FALSE FALSE
## [21889] FALSE F
## [21901] FALSE FALSE
## [21913] FALSE FALSE
## [21925] FALSE F
## [21937] FALSE FALSE
## [21949] FALSE FALSE
## [21961] FALSE FALSE
## [21973] FALSE FALSE
```

```
## [21985] FALSE FALSE
## [21997] FALSE FALSE
## [22009] FALSE FALSE
## [22021] FALSE F
## [22033] FALSE FALSE
## [22045] FALSE F
## [22057] FALSE F
## [22069] FALSE F
## [22081] FALSE FALSE
## [22093] FALSE F
## [22105] FALSE F
## [22117] FALSE FALSE
## [22129] FALSE F
## [22141] FALSE FALSE
## [22153] FALSE FALSE
## [22165] FALSE F
## [22177] FALSE FALSE
## [22189] FALSE F
## [22201] FALSE FALSE
## [22213] FALSE FALSE
## [22225] FALSE FALSE
## [22237] FALSE FALSE
## [22249] FALSE F
## [22261] FALSE FALSE
## [22273] FALSE FALSE
## [22285] FALSE FALSE
## [22297] FALSE F
## [22309] FALSE FALSE
## [22321] FALSE F
## [22333] FALSE F
## [22345] FALSE F
## [22357] FALSE FALSE
## [22369] FALSE FALSE
## [22381] FALSE F
## [22393] FALSE F
## [22405] FALSE F
## [22417] FALSE FALSE
## [22429] FALSE FALSE
## [22441] FALSE FALSE
## [22453] FALSE F
## [22465] FALSE F
## [22477] FALSE FALSE
## [22489] FALSE FALSE
## [22501] FALSE F
## [22513] FALSE FALSE
## [22525] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE
## [22537] TRUE TRUE TRUE TRUE FALSE FALSE
## [22549] FALSE FALSE
## [22561] FALSE FALSE
## [22573] FALSE F
## [22585] FALSE F
## [22597] FALSE FALSE
## [22609] FALSE FALSE
## [22621] FALSE FALSE
```

```
## [22633] FALSE FALSE
## [22645] FALSE FALSE
## [22657] FALSE FALSE
## [22669] FALSE F
## [22681] FALSE FALSE
## [22693] FALSE F
## [22705] FALSE F
## [22717] FALSE FALSE
## [22729] FALSE FALSE
## [22741] FALSE FALSE
## [22753] FALSE F
## [22765] FALSE F
## [22777] FALSE F
## [22789] FALSE FALSE
## [22801] FALSE F
## [22813] FALSE F
## [22825] FALSE F
## [22837] FALSE F
## [22849] FALSE FALSE
## [22861] FALSE FALSE
## [22873] FALSE FALSE
## [22885] FALSE FALSE
## [22897] FALSE FALSE
## [22909] FALSE F
## [22921] FALSE FALSE
## [22933] FALSE FALSE
## [22945] FALSE F
## [22957] FALSE F
## [22969] FALSE F
## [22981] FALSE F
## [22993] FALSE F
## [23005] FALSE FALSE
## [23017] FALSE FALSE
## [23029] FALSE F
## [23041] FALSE F
## [23053] FALSE FALSE
## [23065] FALSE FALSE
## [23077] FALSE FALSE
## [23089] FALSE FALSE
## [23101] FALSE F
## [23113] FALSE FALSE
## [23125] FALSE FALSE
## [23137] FALSE FALSE
## [23149] FALSE FALSE
## [23161] FALSE FALSE
## [23173] FALSE FALSE
## [23185] FALSE F
## [23197] FALSE FALSE
## [23209] FALSE FALSE
## [23221] FALSE FALSE
## [23233] FALSE FALSE
## [23245] FALSE FALSE
## [23257] FALSE FALSE
## [23269] FALSE FALSE
```

```
## [23281] FALSE FALSE
## [23293] FALSE FALSE
## [23305] FALSE FALSE
## [23317] FALSE F
## [23329] FALSE FALSE
## [23341] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE
## [23365] FALSE FALSE
## [23377] FALSE FALSE
## [23389] FALSE FALSE
## [23401] FALSE FALSE
## [23413] FALSE FALSE
## [23425] FALSE F
## [23437] FALSE FALSE
## [23449] FALSE FALSE
## [23461] FALSE FALSE
## [23473] FALSE FALSE
## [23485] FALSE F
## [23497] FALSE FALSE
## [23509] FALSE FALSE
## [23521] FALSE FALSE
## [23533] FALSE FALSE
## [23545] FALSE F
## [23557] FALSE FALSE
## [23569] FALSE FALSE
## [23581] FALSE F
## [23593] FALSE FALSE
## [23605] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [23617] FALSE FALSE
## [23629] FALSE F
## [23641] FALSE F
## [23653] FALSE FALSE
## [23665] FALSE F
## [23677] FALSE FALSE
## [23689] FALSE F
## [23701] FALSE FALSE
## [23713] FALSE FALSE
## [23725] FALSE FALSE
## [23737] FALSE FALSE
## [23749] FALSE F
## [23761] FALSE FALSE
## [23773] FALSE FALSE
## [23785] FALSE FALSE
## [23797] FALSE FALSE
## [23809] FALSE FALSE
## [23821] FALSE FALSE
## [23833] FALSE F
## [23845] FALSE FALSE
## [23857] FALSE FALSE
## [23869] FALSE FALSE
## [23881] FALSE FALSE
## [23893] FALSE FALSE
## [23905] FALSE FALSE
## [23917] FALSE FALSE
```

```
## [23929] FALSE FALSE
## [23941] FALSE FALSE
## [23953] FALSE FALSE
## [23965] FALSE F
## [23977] FALSE FALSE
## [23989] FALSE F
## [24001] FALSE FALSE
## [24013] FALSE FALSE
## [24025] FALSE FALSE
## [24037] FALSE FALSE
## [24049] FALSE F
## [24061] FALSE F
## [24073] FALSE F
## [24085] FALSE FALSE
## [24097] FALSE F
## [24109] FALSE FALSE
## [24121] FALSE FALSE
## [24133] FALSE F
## [24145] FALSE FALSE
## [24157] FALSE FALSE
## [24169] FALSE FALSE
## [24181] FALSE FALSE
## [24193] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [24205] FALSE F
## [24217] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [24241] TRUE TRUE
                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
                                                                                       TRUE
                                                                                                                               TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                           TRUE TRUE TRUE TRUE
## [24253]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                       TRUE
                                                                                                                               TRUE
                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [24265]
## [24277]
                                                                                ## [24289] FALSE FALSE
## [24301] FALSE FALSE
## [24313] FALSE FALSE
## [24325] FALSE F
## [24337] FALSE F
## [24349] FALSE FALSE
## [24361] FALSE FALSE
## [24373] FALSE FALSE
## [24385] FALSE FALSE
## [24397] FALSE F
## [24409] FALSE FALSE
## [24421] FALSE FALSE
## [24433] FALSE FALSE
## [24445] FALSE FALSE
## [24457] FALSE F
## [24469] FALSE FALSE
## [24481] FALSE F
## [24493] FALSE FALSE
## [24505] FALSE FALSE
## [24517] FALSE FALSE
## [24529] FALSE F
## [24541] FALSE FALSE
## [24553] FALSE FALSE
## [24565] FALSE F
```

```
## [24577] FALSE FALSE
## [24589] FALSE FALSE
## [24601] FALSE FALSE
## [24613] FALSE F
## [24625] FALSE FALSE
## [24637] FALSE F
## [24649] FALSE F
## [24661] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE
## [24673] FALSE FALSE
## [24685] FALSE F
## [24697] FALSE F
## [24709] FALSE FALSE
## [24721] FALSE F
## [24733] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [24745] FALSE F
## [24757] FALSE F
## [24769] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [24781] FALSE F
## [24793] FALSE F
## [24805] FALSE FALSE
## [24817] FALSE FALSE
## [24829] FALSE FALSE
## [24841] FALSE F
## [24853] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [24865] FALSE F
## [24877] FALSE FALSE
## [24889] FALSE F
## [24901] FALSE F
## [24913] FALSE FALSE
## [24925] FALSE F
## [24937] FALSE F
## [24949] FALSE FALSE
## [24961] FALSE F
## [24973] FALSE FALSE
## [24985] FALSE F
## [24997] FALSE FALSE
## [25009] FALSE FALSE
## [25021] FALSE FALSE
## [25033] FALSE FALSE
## [25045] FALSE F
## [25057] FALSE FALSE
## [25069] FALSE FALSE
## [25081] FALSE FALSE
## [25093] FALSE F
## [25105] FALSE F
## [25117] FALSE FALSE
## [25129] FALSE F
## [25141] FALSE FALSE
## [25153] FALSE F
## [25177] FALSE FALSE
## [25189] FALSE FALSE
## [25201] FALSE FALSE
## [25213] FALSE FALSE
```

```
## [25225] FALSE FALSE
## [25237] FALSE FALSE
## [25249] FALSE FALSE
## [25261] FALSE F
## [25273] FALSE FALSE
## [25285] FALSE F
## [25297] FALSE F
## [25309] FALSE F
## [25321] FALSE FALSE
## [25333] FALSE FALSE
## [25345] FALSE F
## [25357] FALSE FALSE
## [25369] FALSE F
## [25381] FALSE FALSE
## [25393] FALSE FALSE
## [25405] FALSE FALSE
## [25417] FALSE FALSE
## [25429] FALSE F
## [25441] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [25453] FALSE FALSE
## [25465] FALSE FALSE
## [25477] FALSE FALSE
## [25489] FALSE F
## [25501] FALSE F
## [25513] FALSE FALSE
## [25525] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [25537] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [25549] FALSE F
## [25561] FALSE F
## [25573] FALSE F
## [25585] FALSE F
## [25597] FALSE FALSE
## [25609] FALSE F
## [25621] FALSE F
## [25633] FALSE F
## [25645] FALSE FALSE
## [25657] FALSE FALSE
## [25669] FALSE FALSE
## [25681] FALSE FALSE
## [25693] FALSE F
## [25705] FALSE FALSE
## [25717] FALSE FALSE
## [25729] FALSE FALSE
## [25741] FALSE FALSE
## [25753] FALSE FALSE
## [25765] FALSE F
## [25777] FALSE F
## [25789] FALSE F
## [25801] FALSE FALSE
## [25813] FALSE F
## [25825] FALSE F
## [25837] FALSE FALSE
## [25849] FALSE FALSE
## [25861] FALSE FALSE
```

```
## [25873] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [25885] FALSE FALSE
## [25897] FALSE FALSE
## [25909] FALSE F
## [25921] FALSE FALSE
## [25933] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [25945] FALSE F
## [25957] FALSE FALSE
## [25969] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
                                                                                                                                                TRUE
                                                                                                                                                                                       TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [25981]
                                                                         TRUE
                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
## [25993]
                                                                         TRUE
                                                                                                               TRUE
                                                                                                                                                      TRUE
                                                                                                                                                                                            TRUE TRUE TRUE TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE TRUE
                                                                                                                                                      TRUE
                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                        TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
## [26005]
                                                                          TRUE
                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE TRUE
                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                   TRUE
## [26017]
                                                                          TRUE
                                                                                                               TRUE
                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE TRUE
## [26029]
                                                                         TRUE
                                                                                                               TRUE
                                                                                                                                                      TRUE
                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                      TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE TRUE
## [26041]
                                                                          TRUE
                                                                                                                 TRUE
                                                                                                                                                       TRUE
                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE TRUE
## [26053]
                                                                           TRUE
                                                                                                                 TRUE
                                                                                                                                                       TRUE
                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRUE
                [26065]
                                                                         TRUE
                                                                                                         TRUE
                                                                                                                                                  TRUE
                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                    TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [26077] FALSE FALSE
## [26089] FALSE FALSE
## [26101] FALSE FALSE
## [26113] FALSE FALSE
## [26125] FALSE FALSE
## [26137] FALSE F
## [26149] FALSE F
## [26161] FALSE FALSE
## [26173] FALSE FALSE
## [26185] FALSE F
## [26197] FALSE FALSE
## [26209] FALSE F
## [26221] FALSE F
## [26233] FALSE F
## [26245] FALSE FALSE
## [26257] FALSE F
## [26269] FALSE F
## [26281] FALSE FALSE
## [26293] FALSE FALSE
## [26305] FALSE FALSE
## [26317] FALSE FALSE
## [26329] FALSE FALSE
## [26341] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [26353] FALSE FALSE
## [26365] FALSE FALSE
## [26377] FALSE FALSE
## [26389] FALSE FALSE
## [26401] FALSE FALSE
## [26413] FALSE FALSE
## [26425] FALSE F
## [26437] FALSE FALSE
## [26449] FALSE FALSE
## [26461] FALSE F
## [26473] FALSE FALSE
## [26485] FALSE FALSE
## [26497] FALSE FALSE
## [26509] FALSE FALSE
```

```
## [26521] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [26533] FALSE FALSE
## [26545] FALSE FALSE
## [26557] FALSE F
## [26569] FALSE FALSE
## [26581] FALSE F
## [26593] FALSE F
## [26605] FALSE FALSE
## [26617] FALSE FALSE
## [26629] FALSE F
## [26641] FALSE F
## [26653] FALSE F
## [26665] FALSE F
## [26677] FALSE FALSE
## [26689] FALSE F
## [26701] FALSE FALSE
## [26713] FALSE F
## [26725] FALSE F
## [26737] FALSE FALSE
## [26749] FALSE FALSE
## [26761] FALSE FALSE
## [26773] FALSE FALSE
## [26785] FALSE F
## [26797] FALSE F
## [26809] FALSE FALSE
## [26821] FALSE F
## [26833] FALSE FALSE
## [26845] FALSE F
## [26857] FALSE FALSE
## [26869] FALSE F
## [26881] FALSE F
## [26893] FALSE FALSE
## [26905] FALSE F
TRUE
                                                                                                                                                                                                                                                                                                                                                                                                      TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [26929]
                                                                                                           TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
## [26941]
                                                                                                             TRUE TRUE
                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                     ## [26953]
                                                                                                             TRUE
                                                                                                                                                                TRUE
                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [26965]
                                                                                                              TRUE
                                                                                                                                                                 TRUE
                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                                                                      TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [26977]
                                                                                                              TRUE
                                                                                                                                                                       TRUE
                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [26989]
                                                                                                             TRUE TRUE
                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                    TRUE TRUE
## [27001] TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [27013] FALSE FALSE
## [27025] FALSE FALSE
## [27037] FALSE FALSE
## [27049] FALSE FALSE
## [27061] FALSE F
## [27073] FALSE F
## [27085] FALSE FALSE
## [27097] FALSE FALSE
## [27109] FALSE FALSE
## [27121] FALSE FALSE
## [27133] FALSE FALSE
## [27145] FALSE FALSE
## [27157] FALSE FALSE
```

```
## [27169] FALSE FALSE
## [27181] FALSE FALSE
## [27193] FALSE FALSE
## [27205] FALSE F
## [27217] FALSE FALSE
## [27229] FALSE F
## [27241] FALSE FALSE
## [27253] FALSE F
## [27265] FALSE FALSE
## [27277] FALSE FALSE
## [27289] FALSE F
## [27301] FALSE FALSE
## [27313] FALSE F
## [27325] FALSE FALSE
## [27337] FALSE FALSE
## [27349] FALSE FALSE
## [27361] FALSE FALSE
## [27373] FALSE F
## [27385] FALSE FALSE
## [27397] FALSE FALSE
## [27409] FALSE FALSE
## [27421] FALSE FALSE
## [27433] FALSE F
## [27445] FALSE F
## [27457] FALSE FALSE
## [27469] FALSE FALSE
## [27481] FALSE FALSE
## [27493] FALSE FALSE
## [27505] FALSE F
## [27517] FALSE F
## [27529] FALSE F
## [27541] FALSE FALSE
## [27553] FALSE FALSE
## [27565] FALSE F
## [27577] FALSE F
## [27589] FALSE FALSE
## [27601] FALSE FALSE
## [27613] FALSE FALSE
## [27625] FALSE FALSE
## [27637] FALSE F
## [27649] FALSE FALSE
## [27661] FALSE FALSE
## [27673] FALSE FALSE
## [27685] FALSE F
## [27697] FALSE F
## [27709] FALSE FALSE
## [27721] FALSE F
## [27733] FALSE FALSE
## [27745] FALSE FALSE
## [27757] FALSE FALSE
## [27769] FALSE FALSE
## [27781] FALSE FALSE
## [27793] FALSE FALSE
## [27805] FALSE FALSE
```

```
## [27817] FALSE FALSE
## [27829] FALSE FALSE
## [27841] FALSE FALSE
## [27853] FALSE F
## [27865] FALSE FALSE
## [27877] FALSE F
## [27889] FALSE F
## [27901] FALSE FALSE
## [27913] FALSE FALSE
## [27925] FALSE F
## [27937] FALSE FALSE
## [27949] FALSE FALSE
## [27961] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [27973] FALSE FALSE
## [27985] FALSE F
## [27997] FALSE FALSE
## [28009] FALSE F
## [28021] FALSE F
## [28033] FALSE FALSE
## [28045] FALSE FALSE
## [28057] FALSE FALSE
## [28069] FALSE FALSE
## [28081] FALSE F
## [28093] FALSE F
## [28105] FALSE FALSE
## [28117] FALSE FALSE
## [28129] FALSE F
## [28141] FALSE FALSE
## [28153] FALSE FALSE
## [28165] FALSE F
## [28177] FALSE F
## [28189] FALSE FALSE
## [28201] FALSE F
## [28213] FALSE FALSE
## [28225] FALSE F
## [28237] FALSE FALSE
## [28249] FALSE FALSE
## [28261] FALSE FALSE
## [28273] FALSE FALSE
## [28285] FALSE F
## [28297] FALSE FALSE
## [28309] FALSE F
## [28321] FALSE FALSE
## [28333] FALSE FALSE
## [28345] FALSE F
## [28357] FALSE FALSE
## [28369] FALSE F
## [28381] FALSE FALSE
## [28393] FALSE FALSE
## [28405] FALSE F
## [28417] FALSE FALSE
## [28429] FALSE FALSE
## [28441] FALSE FALSE
## [28453] FALSE FALSE
```

```
## [28465] FALSE FALSE
## [28477] FALSE FALSE
## [28489] FALSE FALSE
## [28501] FALSE F
## [28513] FALSE FALSE
## [28525] FALSE F
## [28537] FALSE F
## [28549] FALSE F
## [28561] FALSE FALSE
## [28573] FALSE FALSE
## [28585] FALSE F
## [28597] FALSE F
## [28609] FALSE F
## [28621] FALSE FALSE
## [28633] FALSE FALSE
## [28645] FALSE F
## [28657] FALSE F
## [28669] FALSE F
## [28681] FALSE FALSE
## [28693] FALSE FALSE
## [28705] FALSE FALSE
## [28717] FALSE FALSE
## [28729] FALSE F
## [28741] FALSE F
## [28753] FALSE FALSE
## [28765] FALSE F
## [28777] FALSE FALSE
## [28789] FALSE FALSE
## [28801] FALSE F
## [28813] FALSE F
## [28825] FALSE F
## [28837] FALSE FALSE
## [28849] FALSE F
## [28861] FALSE F
## [28873] FALSE F
## [28885] FALSE FALSE
## [28897] FALSE FALSE
## [28909] FALSE FALSE
## [28921] FALSE FALSE
## [28933] FALSE F
## [28945] FALSE FALSE
## [28957] FALSE FALSE
## [28969] FALSE FALSE
## [28981] FALSE F
## [28993] FALSE FALSE
## [29005] FALSE F
## [29017] FALSE F
## [29029] FALSE F
## [29041] FALSE FALSE
## [29053] FALSE F
## [29065] FALSE F
## [29077] FALSE FALSE
## [29089] FALSE FALSE
## [29101] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
## [29113] FALSE FALSE
## [29125] FALSE F
## [29137] FALSE FALSE
## [29149] FALSE F
## [29161] FALSE FALSE
## [29173] FALSE F
## [29185] FALSE F
## [29197] FALSE FALSE
## [29209] FALSE FALSE
## [29221] FALSE F
## [29233] FALSE F
## [29245] FALSE F
## [29257] FALSE F
## [29269] FALSE FALSE
## [29281] FALSE F
## [29293] FALSE F
## [29305] FALSE F
## [29317] FALSE F
## [29329] FALSE FALSE
## [29341] FALSE FALSE
## [29353] FALSE FALSE
## [29365] FALSE FALSE
## [29377] FALSE F
## [29389] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [29401] FALSE FALSE
## [29413] FALSE FALSE
## [29425] FALSE F
## [29437] FALSE F
## [29449] FALSE F
## [29461] FALSE F
## [29473] FALSE F
## [29485] FALSE FALSE
## [29497] FALSE FALSE
## [29509] FALSE F
## [29521] FALSE F
## [29533] FALSE FALSE
## [29545] FALSE FALSE
## [29557] FALSE FALSE
## [29569] FALSE FALSE
## [29581] FALSE F
## [29593] FALSE FALSE
## [29605] FALSE FALSE
## [29617] FALSE FALSE
## [29629] FALSE F
## [29641] FALSE F
## [29653] FALSE F
## [29665] FALSE F
## [29677] FALSE FALSE
## [29689] FALSE FALSE
## [29701] FALSE FALSE
## [29713] FALSE F
## [29725] FALSE FALSE
## [29737] FALSE FALSE
## [29749] FALSE FALSE
```

```
## [29761] FALSE FALSE
## [29773] FALSE FALSE
## [29785] FALSE FALSE
## [29797] FALSE F
## [29809] FALSE FALSE
## [29821] FALSE F
## [29833] FALSE FALSE
## [29845] FALSE FALSE
## [29857] FALSE FALSE
## [29869] FALSE F
## [29881] FALSE F
## [29893] FALSE FALSE
## [29905] FALSE F
## [29917] FALSE FALSE
## [29929] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE
## [29941] FALSE F
## [29953] FALSE FALSE
## [29965] FALSE F
## [29977] FALSE FALSE
## [29989] FALSE FALSE
## [30001] FALSE FALSE
## [30013] FALSE FALSE
## [30025] FALSE F
## [30037] FALSE FALSE
## [30049] FALSE FALSE
## [30061] FALSE FALSE
## [30073] FALSE FALSE
## [30085] FALSE F
## [30097] FALSE FALSE
## [30109] FALSE F
## [30121] FALSE FALSE
## [30133] FALSE FALSE
## [30145] FALSE FALSE
## [30157] FALSE FALSE
## [30169] FALSE F
## [30181] FALSE FALSE
## [30193] FALSE FALSE
## [30205] FALSE FALSE
## [30217] FALSE FALSE
## [30229] FALSE F
## [30241] FALSE FALSE
## [30253] FALSE FALSE
## [30265] FALSE FALSE
## [30277] FALSE FALSE
## [30289] FALSE FALSE
## [30301] FALSE FALSE
## [30313] FALSE F
## [30325] FALSE FALSE
## [30337] FALSE FALSE
## [30349] FALSE FALSE
## [30361] FALSE FALSE
## [30373] FALSE FALSE
## [30385] FALSE FALSE
## [30397] FALSE FALSE
```

```
## [30409] FALSE FALSE
## [30421] FALSE FALSE
## [30433] FALSE FALSE
## [30445] FALSE F
## [30457] FALSE FALSE
## [30469] FALSE F
## [30481] FALSE F
## [30493] FALSE F
## [30505] FALSE FALSE
## [30517] FALSE FALSE
## [30529] FALSE FALSE
## [30541] FALSE FALSE
## [30553] FALSE F
## [30565] FALSE F
## [30577] FALSE FALSE
## [30589] FALSE FALSE
## [30601] FALSE FALSE
## [30613] FALSE F
## [30625] FALSE FALSE
## [30637] FALSE FALSE
## [30649] FALSE FALSE
## [30661] FALSE FALSE
## [30673] FALSE F
## [30685] FALSE F
## [30697] FALSE FALSE
## [30709] FALSE F
## [30721] FALSE FALSE
## [30733] FALSE FALSE
## [30745] FALSE FALSE
## [30757] FALSE F
## [30769] FALSE FALSE
## [30781] FALSE FALSE
## [30793] FALSE FALSE
## [30805] FALSE FALSE
## [30817] FALSE F
## [30829] FALSE FALSE
## [30841] FALSE FALSE
## [30853] FALSE FALSE
## [30865] FALSE FALSE
## [30877] FALSE F
## [30889] FALSE FALSE
## [30901] FALSE F
## [30913] FALSE FALSE
## [30925] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE
## [30937] FALSE FALSE
## [30949] FALSE FALSE
## [30961] FALSE F
## [30973] FALSE F
## [30985] FALSE FALSE
## [30997] FALSE FALSE
## [31009] FALSE FALSE
## [31021] FALSE FALSE
## [31033] FALSE FALSE
## [31045] FALSE FALSE
```

```
## [31057] FALSE FALSE
## [31069] FALSE FALSE
## [31081] FALSE FALSE
## [31093] FALSE F
## [31105] FALSE FALSE
## [31117] FALSE F
## [31129] FALSE FALSE
## [31141] FALSE FALSE
## [31153] FALSE FALSE
## [31165] FALSE FALSE
## [31177] FALSE FALSE
## [31189] FALSE FALSE
## [31201] FALSE F
## [31213] FALSE F
## [31225] FALSE FALSE
## [31237] FALSE FALSE
## [31249] FALSE FALSE
## [31261] FALSE F
## [31273] FALSE FALSE
## [31285] FALSE FALSE
## [31297] FALSE FALSE
## [31309] FALSE FALSE
## [31321] FALSE F
## [31333] FALSE FALSE
## [31345] FALSE FALSE
## [31357] FALSE FALSE
## [31369] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [31381] FALSE FALSE
## [31393] FALSE FALSE
## [31405] FALSE F
## [31417] FALSE FALSE
## [31429] FALSE FALSE
## [31441] FALSE FALSE
## [31453] FALSE FALSE
## [31465] FALSE F
## [31477] FALSE FALSE
## [31489] FALSE FALSE
## [31501] FALSE FALSE
## [31513] FALSE FALSE
## [31525] FALSE F
## [31537] FALSE FALSE
## [31549] FALSE FALSE
## [31561] FALSE FALSE
## [31573] FALSE FALSE
## [31585] FALSE FALSE
## [31597] FALSE FALSE
## [31609] FALSE F
## [31621] FALSE FALSE
## [31633] FALSE FALSE
## [31645] FALSE F
## [31657] FALSE FALSE
## [31669] FALSE FALSE
## [31681] FALSE FALSE
## [31693] FALSE FALSE
```

```
## [31705] FALSE FALSE
## [31717] FALSE FALSE
## [31729] FALSE FALSE
## [31741] FALSE FALSE
## [31753] FALSE FALSE
## [31765] FALSE F
## [31777] FALSE FALSE
## [31789] FALSE FALSE
## [31801] FALSE FALSE
## [31813] FALSE FALSE
## [31825] FALSE FALSE
## [31837] FALSE FALSE
## [31849] FALSE F
## [31861] FALSE FALSE
## [31873] FALSE FALSE
## [31885] FALSE FALSE
## [31897] FALSE FALSE
## [31909] FALSE F
## [31921] FALSE FALSE
## [31933] FALSE FALSE
## [31945] FALSE FALSE
## [31957] FALSE FALSE
## [31969] FALSE F
## [31981] FALSE F
## [31993] FALSE FALSE
## [32005] FALSE FALSE
## [32017] FALSE FALSE
## [32029] FALSE FALSE
## [32041] FALSE FALSE
## [32053] FALSE F
## [32065] FALSE F
## [32077] FALSE FALSE
## [32089] FALSE FALSE
## [32101] FALSE FALSE
## [32113] FALSE F
## [32125] FALSE FALSE
## [32137] FALSE FALSE
## [32149] FALSE FALSE
## [32161] FALSE FALSE
## [32173] FALSE FALSE
## [32185] FALSE FALSE
## [32197] FALSE FALSE
## [32209] FALSE FALSE
## [32221] FALSE FALSE
## [32233] FALSE FALSE
## [32245] FALSE FALSE
## [32257] FALSE F
## [32269] FALSE FALSE
## [32281] FALSE FALSE
## [32293] FALSE FALSE
## [32305] FALSE FALSE
## [32317] FALSE FALSE
## [32329] FALSE FALSE
## [32341] FALSE FALSE
```

```
## [32353] FALSE FALSE
## [32365] FALSE FALSE
## [32377] FALSE FALSE
## [32389] FALSE F
## [32401] FALSE FALSE
## [32413] FALSE F
## [32425] FALSE F
## [32437] FALSE FALSE
## [32449] FALSE FALSE
## [32461] FALSE FALSE
## [32473] FALSE FALSE
## [32485] FALSE FALSE
## [32497] FALSE F
## [32509] FALSE FALSE
## [32521] FALSE FALSE
## [32533] FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [32545] FALSE FALSE
## [32557] FALSE F
## [32569] FALSE FALSE
## [32581] FALSE FALSE
## [32593] FALSE FALSE
## [32605] FALSE FALSE
## [32617] FALSE F
## [32629] FALSE F
## [32641] FALSE FALSE
## [32653] FALSE FALSE
## [32665] FALSE FALSE
## [32677] FALSE FALSE
## [32689] FALSE FALSE
## [32701] FALSE F
## [32713] FALSE FALSE
## [32725] FALSE FALSE
## [32737] FALSE FALSE
## [32749] FALSE FALSE
## [32761] FALSE F
## [32773] FALSE FALSE
## [32785] FALSE FALSE
## [32797] FALSE FALSE
## [32809] FALSE FALSE
## [32821] FALSE F
## [32833] FALSE FALSE
## [32845] FALSE FALSE
## [32857] FALSE FALSE
## [32869] FALSE FALSE
## [32881] FALSE FALSE
## [32893] FALSE FALSE
## [32905] FALSE F
## [32917] FALSE FALSE
## [32929] FALSE FALSE
## [32941] FALSE FALSE
## [32953] FALSE FALSE
## [32965] FALSE FALSE
## [32977] FALSE FALSE
## [32989] FALSE FALSE
```

```
## [33001] FALSE FALSE
## [33013] FALSE FALSE
## [33025] FALSE FALSE
## [33037] FALSE F
## [33049] FALSE FALSE
## [33061] FALSE F
## [33073] FALSE FALSE
## [33085] FALSE FALSE
## [33097] FALSE FALSE
## [33109] FALSE FALSE
## [33121] FALSE FALSE
## [33133] FALSE FALSE
## [33145] FALSE F
## [33157] FALSE FALSE
## [33169] FALSE FALSE
## [33181] FALSE FALSE
## [33193] FALSE FALSE
## [33205] FALSE F
## [33217] FALSE FALSE
## [33229] FALSE FALSE
## [33241] FALSE FALSE
## [33253] FALSE FALSE
## [33265] FALSE F
## [33277] FALSE FALSE
## [33289] FALSE FALSE
## [33301] FALSE FALSE
## [33313] FALSE FALSE
## [33325] FALSE FALSE
## [33337] FALSE FALSE
## [33349] FALSE F
## [33361] FALSE FALSE
## [33373] FALSE FALSE
## [33385] FALSE FALSE
## [33397] FALSE FALSE
## [33409] FALSE F
## [33421] FALSE FALSE
## [33433] FALSE FALSE
## [33445] FALSE FALSE
## [33457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [33469]
                                              ## [33481]
## [33493]
                                               TRUE TRUE
                                                                                             TRUE
                                                                                                                       TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
                                                                                                                        TRUE
                                                                                                                                                TRUE
                                                                                                                                                                        TRUE TRUE TRUE TRUE
## [33505]
                                               TRUE TRUE
                                                                                               TRUE
                                                                                                                                                                                                                                                                         TRUE TRUE TRUE
                                               TRUE
                                                                     TRUE
                                                                                               TRUE
                                                                                                                        TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [33517]
                                                                                             TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [33529]
                                               TRUE
                                                                   TRUE
## [33541] FALSE FALSE
## [33553] FALSE FALSE
## [33565] FALSE FALSE
## [33577] FALSE FALSE
## [33589] FALSE FALSE
## [33601] FALSE FALSE
## [33613] FALSE FALSE
## [33625] FALSE FALSE
## [33637] FALSE FALSE
```

```
## [33649] FALSE FALSE
## [33661] FALSE FALSE
## [33673] FALSE FALSE
## [33685] FALSE F
## [33697] FALSE FALSE
## [33709] FALSE F
## [33721] FALSE FALSE
## [33733] FALSE FALSE
## [33745] FALSE FALSE
## [33757] FALSE FALSE
## [33769] FALSE FALSE
## [33781] FALSE FALSE
## [33793] FALSE F
## [33805] FALSE FALSE
## [33817] FALSE FALSE
## [33829] FALSE FALSE
## [33841] FALSE FALSE
## [33853] FALSE F
## [33865] FALSE FALSE
## [33877] FALSE FALSE
## [33889] FALSE FALSE
## [33901] FALSE FALSE
## [33913] FALSE FALSE
## [33925] FALSE F
## [33937] FALSE FALSE
## [33949] FALSE FALSE
## [33961] FALSE FALSE
## [33973] FALSE FALSE
## [33985] FALSE FALSE
## [33997] FALSE F
## [34009] FALSE FALSE
## [34021] FALSE FALSE
## [34033] FALSE FALSE
## [34045] FALSE FALSE
## [34057] FALSE F
## [34069] FALSE FALSE
## [34081] FALSE FALSE
## [34093] FALSE FALSE
## [34105] FALSE FALSE
## [34117] FALSE FALSE
## [34129] FALSE FALSE
## [34141] FALSE FALSE
## [34153] FALSE FALSE
## [34165] FALSE FALSE
## [34177] FALSE FALSE
## [34189] FALSE FALSE
## [34201] FALSE F
## [34213] FALSE FALSE
## [34225] FALSE FALSE
## [34237] FALSE FALSE
## [34249] FALSE FALSE
## [34261] FALSE FALSE
## [34273] FALSE FALSE
## [34285] FALSE FALSE
```

```
## [34297] FALSE FALSE
## [34309] FALSE FALSE
## [34321] FALSE FALSE
## [34333] FALSE FALSE
## [34345] FALSE FALSE
## [34357] FALSE F
## [34369] FALSE F
## [34381] FALSE FALSE
## [34393] FALSE FALSE
## [34405] FALSE FALSE
## [34417] FALSE FALSE
## [34429] FALSE FALSE
## [34441] FALSE F
## [34453] FALSE FALSE
## [34465] FALSE FALSE
## [34477] FALSE FALSE
## [34489] FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [34501] FALSE F
## [34513] FALSE FALSE
## [34525] FALSE FALSE
## [34537] FALSE FALSE
## [34549] FALSE FALSE
## [34561] FALSE F
## [34573] FALSE FALSE
## [34585] FALSE FALSE
## [34597] FALSE FALSE
## [34609] FALSE FALSE
## [34621] FALSE FALSE
## [34633] FALSE FALSE
## [34645] FALSE F
## [34657] FALSE F
## [34669] FALSE FALSE
## [34681] FALSE FALSE
## [34693] FALSE FALSE
## [34705] FALSE F
## [34717] FALSE FALSE
## [34729] FALSE FALSE
## [34741] FALSE FALSE
## [34753] FALSE FALSE
## [34765] FALSE F
## [34777] FALSE FALSE
## [34789] FALSE FALSE
## [34801] FALSE FALSE
## [34813] FALSE FALSE
## [34825] FALSE FALSE
## [34837] FALSE FALSE
## [34849] FALSE F
## [34861] FALSE FALSE
## [34873] FALSE FALSE
## [34885] FALSE FALSE
## [34897] FALSE FALSE
## [34909] FALSE FALSE
## [34921] FALSE FALSE
## [34933] FALSE FALSE
```

```
## [34945] FALSE FALSE
## [34957] FALSE FALSE
## [34969] FALSE FALSE
## [34981] FALSE FALSE
## [34993] FALSE FALSE
## [35005] FALSE F
## [35017] FALSE FALSE
## [35029] FALSE F
## [35041] FALSE FALSE
## [35053] FALSE FALSE
## [35065] FALSE F
## [35077] FALSE F
## [35089] FALSE F
## [35101] FALSE FALSE
## [35113] FALSE FALSE
## [35125] FALSE FALSE
## [35137] FALSE FALSE
## [35149] FALSE F
## [35161] FALSE FALSE
## [35173] FALSE FALSE
## [35185] FALSE FALSE
## [35197] FALSE FALSE
## [35209] FALSE F
## [35221] FALSE FALSE
## [35233] FALSE FALSE
## [35245] FALSE FALSE
## [35257] FALSE FALSE
## [35269] FALSE FALSE
## [35281] FALSE FALSE
## [35293] FALSE F
## [35305] FALSE FALSE
## [35317] FALSE FALSE
## [35329] FALSE FALSE
## [35341] FALSE FALSE
## [35353] FALSE F
## [35365] FALSE FALSE
## [35377] FALSE FALSE
## [35389] FALSE FALSE
## [35401] FALSE FALSE
## [35413] FALSE FALSE
## [35425] FALSE FALSE
## [35437] FALSE FALSE
## [35449] FALSE FALSE
## [35473] FALSE FALSE
## [35485] FALSE FALSE
## [35497] FALSE F
## [35509] FALSE FALSE
## [35521] FALSE FALSE
## [35533] FALSE FALSE
## [35545] FALSE FALSE
## [35557] FALSE FALSE
## [35569] FALSE FALSE
## [35581] FALSE FALSE
```

```
## [35593] FALSE FALSE
## [35605] FALSE FALSE
## [35617] FALSE FALSE
## [35629] FALSE F
## [35641] FALSE FALSE
## [35653] FALSE F
## [35665] FALSE F
## [35677] FALSE F
## [35689] FALSE FALSE
## [35701] FALSE FALSE
## [35713] FALSE FALSE
## [35725] FALSE F
## [35737] FALSE F
## [35749] FALSE FALSE
## [35761] FALSE FALSE
## [35773] FALSE FALSE
## [35785] FALSE FALSE
## [35797] FALSE F
## [35809] FALSE FALSE
## [35821] FALSE FALSE
## [35833] FALSE FALSE
## [35845] FALSE FALSE
## [35857] FALSE F
## [35869] FALSE F
## [35881] FALSE FALSE
## [35893] FALSE FALSE
## [35905] FALSE FALSE
## [35917] FALSE FALSE
## [35929] FALSE FALSE
## [35941] FALSE F
## [35953] FALSE FALSE
## [35965] FALSE FALSE
## [35977] FALSE FALSE
## [35989] FALSE FALSE
## [36001] FALSE F
## [36013] FALSE FALSE
## [36025] FALSE FALSE
## [36037] FALSE FALSE
## [36049] FALSE FALSE
## [36061] FALSE F
## [36073] FALSE FALSE
## [36085] FALSE FALSE
## [36097] FALSE FALSE
## [36109] FALSE FALSE
## [36121] FALSE FALSE
## [36133] FALSE FALSE
## [36145] FALSE F
## [36157] FALSE F
## [36169] FALSE FALSE
## [36181] FALSE FALSE
## [36193] FALSE FALSE
## [36205] FALSE FALSE
## [36217] FALSE FALSE
## [36229] FALSE FALSE
```

```
## [36241] FALSE FALSE
## [36253] FALSE FALSE
## [36265] FALSE FALSE
## [36277] FALSE F
## [36289] FALSE FALSE
## [36301] FALSE F
## [36313] FALSE F
## [36325] FALSE F
## [36337] FALSE FALSE
## [36349] FALSE FALSE
## [36361] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [36373] FALSE FALSE
## [36385] FALSE F
## [36397] FALSE FALSE
## [36409] FALSE FALSE
## [36421] FALSE FALSE
## [36433] FALSE FALSE
## [36469] FALSE FALSE
## [36481] FALSE FALSE
## [36493] FALSE FALSE
## [36505] FALSE F
## [36517] FALSE FALSE
## [36529] FALSE FALSE
## [36541] FALSE FALSE
## [36553] FALSE FALSE
## [36565] FALSE FALSE
## [36577] FALSE FALSE
## [36589] FALSE F
## [36601] FALSE FALSE
## [36613] FALSE FALSE
## [36625] FALSE FALSE
## [36637] FALSE FALSE
## [36649] FALSE F
## [36661] FALSE FALSE
## [36673] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [36685] FALSE FALSE
## [36697] FALSE FALSE
## [36709] FALSE F
## [36721] FALSE FALSE
## [36733] FALSE FALSE
## [36745] FALSE FALSE
## [36757] FALSE FALSE
## [36769] FALSE FALSE
## [36781] FALSE FALSE
## [36793] FALSE F
## [36805] FALSE F
## [36817] FALSE FALSE
## [36829] FALSE FALSE
## [36841] FALSE FALSE
## [36853] FALSE FALSE
## [36865] FALSE FALSE
## [36877] FALSE FALSE
```

```
## [36889] FALSE FALSE
## [36901] FALSE FALSE
## [36913] FALSE FALSE
## [36925] FALSE F
## [36937] FALSE FALSE
## [36949] FALSE F
## [36961] FALSE FALSE
## [36973] FALSE FALSE
## [36985] FALSE FALSE
## [36997] FALSE FALSE
## [37009] FALSE FALSE
## [37021] FALSE FALSE
## [37033] FALSE F
## [37045] FALSE FALSE
## [37057] FALSE FALSE
## [37069] FALSE FALSE
## [37081] FALSE FALSE
## [37093] FALSE F
## [37105] FALSE FALSE
## [37117] FALSE FALSE
## [37129] FALSE FALSE
## [37141] FALSE FALSE
## [37153] FALSE FALSE
## [37165] FALSE FALSE
## [37177] FALSE FALSE
## [37189] FALSE FALSE
## [37201] FALSE FALSE
## [37213] FALSE FALSE
## [37225] FALSE FALSE
## [37237] FALSE F
## [37249] FALSE FALSE
## [37261] FALSE FALSE
## [37273] FALSE FALSE
## [37285] FALSE FALSE
## [37297] FALSE F
## [37309] FALSE FALSE
## [37321] FALSE FALSE
## [37333] FALSE FALSE
## [37345] FALSE FALSE
## [37357] FALSE FALSE
## [37369] FALSE FALSE
## [37381] FALSE FALSE
## [37393] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
## [37405]
                                        TRUE
                                                                                                           TRUE TRUE TRUE
                                                                                                                                                                          TRUE TRUE TRUE TRUE
## [37417]
                                          TRUE
                                                             TRUE
                                                                                                                                                                                                                                                                     TRUE
                                                                                                            TRUE
## [37429]
                                          TRUE
                                                                TRUE
                                                                                      TRUE
                                                                                                                                  TRUE
                                                                                                                                                        TRUE
                                                                                                                                                                             TRUE
                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                       TRUE TRUE
                                                                                                                                                                                                   TRUE TRUE TRUE TRUE
## [37441]
                                          TRUE
                                                               TRUE
                                                                                      TRUE
                                                                                                           TRUE
                                                                                                                                 TRUE
                                      TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [37453]
## [37465] FALSE FALSE
## [37477] FALSE FALSE
## [37489] FALSE FALSE
## [37501] FALSE FALSE
## [37513] FALSE FALSE
## [37525] FALSE FALSE
```

```
## [37537] FALSE FALSE
## [37549] FALSE TRUE
## [37561] FALSE FALSE
## [37573] FALSE F
## [37585] FALSE FALSE
## [37597] FALSE F
## [37609] FALSE F
## [37621] FALSE F
## [37633] FALSE FALSE
## [37645] FALSE FALSE
## [37657] FALSE FALSE
## [37669] FALSE FALSE
## [37681] FALSE F
## [37693] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [37705] FALSE FALSE
## [37717] FALSE FALSE
## [37729] FALSE FALSE
## [37741] FALSE F
## [37753] FALSE FALSE
## [37765] FALSE FALSE
## [37777] FALSE FALSE
## [37789] FALSE FALSE
## [37801] FALSE FALSE
## [37813] FALSE FALSE
## [37825] FALSE FALSE
## [37837] FALSE FALSE
## [37849] FALSE FALSE
## [37861] FALSE FALSE
## [37873] FALSE FALSE
## [37885] FALSE F
## [37897] FALSE FALSE
## [37909] FALSE FALSE
## [37921] FALSE FALSE
## [37933] FALSE FALSE
## [37945] FALSE F
## [37957] FALSE FALSE
## [37969] FALSE FALSE
## [37981] FALSE FALSE
## [37993] FALSE FALSE
## [38005] FALSE F
## [38017] FALSE FALSE
## [38029] FALSE F
## [38041] FALSE FALSE
## [38053] FALSE FALSE
## [38065] FALSE F
## [38077] FALSE FALSE
## [38089] FALSE F
## [38101] FALSE F
## [38113] FALSE FALSE
## [38125] FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [38137] FALSE FALSE
## [38149] FALSE FALSE
## [38161] FALSE FALSE
## [38173] FALSE FALSE
```

```
## [38185] FALSE FALSE
## [38197] FALSE FALSE
## [38209] FALSE FALSE
## [38221] FALSE F
## [38233] FALSE FALSE
## [38245] FALSE F
## [38257] FALSE FALSE
## [38269] FALSE F
## [38281] FALSE FALSE
## [38293] FALSE FALSE
## [38305] FALSE FALSE
## [38317] FALSE FALSE
## [38329] FALSE F
## [38341] FALSE FALSE
## [38353] FALSE FALSE
## [38365] FALSE FALSE
## [38377] FALSE FALSE
## [38389] FALSE F
## [38401] FALSE FALSE
## [38413] FALSE FALSE
## [38425] FALSE FALSE
## [38437] FALSE FALSE
## [38449] FALSE F
## [38461] FALSE FALSE
## [38473] FALSE FALSE
## [38485] FALSE FALSE
## [38497] FALSE FALSE
## [38509] FALSE FALSE
## [38521] FALSE FALSE
## [38533] FALSE F
## [38545] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [38557] FALSE FALSE
## [38569] FALSE FALSE
## [38581] FALSE FALSE
## [38593] FALSE F
## [38605] FALSE FALSE
## [38617] FALSE FALSE
## [38629] FALSE FALSE
## [38641] FALSE FALSE
## [38653] FALSE F
## [38665] FALSE FALSE
## [38677] FALSE FALSE
## [38689] FALSE FALSE
## [38701] FALSE FALSE
## [38713] FALSE FALSE
## [38725] FALSE FALSE
## [38737] FALSE F
## [38749] FALSE FALSE
## [38761] FALSE FALSE
## [38773] FALSE FALSE
## [38785] FALSE FALSE
## [38797] FALSE FALSE
## [38809] FALSE FALSE
## [38821] FALSE FALSE
```

```
## [38833] FALSE FALSE
## [38845] FALSE FALSE
## [38857] FALSE FALSE
## [38869] FALSE F
## [38881] FALSE FALSE
## [38893] FALSE F
## [38905] FALSE F
## [38917] FALSE FALSE
## [38929] FALSE FALSE
## [38941] FALSE FALSE
## [38953] FALSE FALSE
## [38965] FALSE FALSE
## [38977] FALSE F
## [38989] FALSE FALSE
## [39001] FALSE FALSE
## [39013] FALSE FALSE
## [39025] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE
## [39037] FALSE F
## [39049] FALSE FALSE
## [39061] FALSE FALSE
## [39073] FALSE FALSE
## [39085] FALSE FALSE
## [39097] FALSE F
## [39109] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [39121] FALSE FALSE
## [39133] FALSE FALSE
## [39145] FALSE FALSE
## [39157] FALSE FALSE
## [39169] FALSE FALSE
## [39181] FALSE F
## [39193] FALSE FALSE
## [39205] FALSE FALSE
## [39217] FALSE FALSE
## [39229] FALSE F
## [39241] FALSE F
## [39253] FALSE FALSE
## [39265] FALSE FALSE
## [39277] FALSE FALSE
## [39289] FALSE FALSE
## [39301] FALSE F
## [39313] FALSE FALSE
## [39325] FALSE FALSE
## [39337] FALSE FALSE
## [39349] FALSE FALSE
## [39361] FALSE FALSE
## [39373] FALSE FALSE
## [39385] FALSE F
## [39397] FALSE FALSE
## [39409] FALSE FALSE
## [39421] FALSE FALSE
## [39433] FALSE FALSE
## [39445] FALSE FALSE
## [39457] FALSE FALSE
## [39469] FALSE FALSE
```

```
## [39481] FALSE FALSE
## [39493] FALSE FALSE
## [39505] FALSE FALSE
## [39517] FALSE F
## [39529] FALSE FALSE
## [39541] FALSE F
## [39553] FALSE F
## [39565] FALSE F
## [39577] FALSE FALSE
## [39589] FALSE FALSE
## [39601] FALSE FALSE
## [39613] FALSE FALSE
## [39625] FALSE F
## [39637] FALSE FALSE
## [39649] FALSE FALSE
## [39661] FALSE FALSE
## [39673] FALSE F
## [39685] FALSE F
## [39697] FALSE FALSE
## [39709] FALSE FALSE
## [39721] FALSE FALSE
## [39733] FALSE FALSE
## [39745] FALSE F
## [39757] FALSE F
## [39769] FALSE FALSE
## [39781] FALSE FALSE
## [39793] FALSE FALSE
## [39805] FALSE F
## [39817] FALSE FALSE
## [39829] FALSE F
## [39841] FALSE FALSE
## [39853] FALSE FALSE
## [39865] FALSE FALSE
## [39877] FALSE FALSE
## [39889] FALSE F
## [39901] FALSE FALSE
## [39913] FALSE FALSE
## [39925] FALSE FALSE
## [39937] FALSE FALSE
## [39949] FALSE F
## [39961] FALSE FALSE
## [39973] FALSE FALSE
## [39985] FALSE FALSE
## [39997] FALSE FALSE
## [40009] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [40021] FALSE FALSE
## [40033] FALSE F
## [40045] FALSE FALSE
## [40057] FALSE FALSE
## [40069] FALSE F
## [40081] FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [40093] FALSE FALSE
## [40105] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [40117] FALSE FALSE
```

```
## [40129] FALSE FALSE
## [40141] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [40153] FALSE FALSE
## [40165] FALSE F
## [40177] FALSE FALSE
## [40189] FALSE F
## [40201] FALSE F
## [40213] FALSE F
## [40225] FALSE FALSE
## [40237] FALSE FALSE
## [40249] FALSE F
## [40261] FALSE F
## [40273] FALSE F
## [40285] FALSE FALSE
## [40297] FALSE FALSE
## [40309] FALSE FALSE
## [40321] FALSE F
## [40333] FALSE F
## [40345] FALSE FALSE
## [40357] FALSE FALSE
## [40369] FALSE FALSE
## [40381] FALSE FALSE
## [40393] FALSE FALSE
## [40405] FALSE F
## [40417] FALSE FALSE
## [40429] FALSE FALSE
## [40441] FALSE FALSE
## [40453] FALSE FALSE
## [40465] FALSE F
## [40477] FALSE F
## [40489] FALSE F
## [40501] FALSE FALSE
## [40513] FALSE FALSE
## [40525] FALSE F
## [40537] FALSE F
## [40549] FALSE FALSE
## [40561] FALSE FALSE
## [40573] FALSE FALSE
## [40585] FALSE FALSE
## [40597] FALSE F
## [40609] FALSE FALSE
## [40621] FALSE FALSE
## [40633] FALSE FALSE
## [40645] FALSE F
## [40657] FALSE FALSE
## [40669] FALSE FALSE
## [40681] FALSE F
## [40693] FALSE FALSE
## [40705] FALSE FALSE
## [40717] FALSE FALSE
## [40729] FALSE FALSE
## [40741] FALSE FALSE
## [40753] FALSE FALSE
## [40765] FALSE FALSE
```

```
## [40777] FALSE FALSE
## [40789] FALSE FALSE
## [40801] FALSE FALSE
## [40813] FALSE F
## [40825] FALSE FALSE
## [40837] FALSE F
## [40849] FALSE F
## [40861] FALSE FALSE
## [40873] FALSE FALSE
## [4085] FALSE FA
## [40897] FALSE F
## [40909] FALSE FALSE
## [40921] FALSE F
## [40933] FALSE FALSE
## [40945] FALSE F
## [40957] FALSE FALSE
## [40969] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [40981] TRUE TRUE TRUE FALSE FALS
## [40993] FALSE FALSE
## [41005] FALSE FALSE
## [41017] FALSE FALSE
## [41029] FALSE FALSE
## [41041] FALSE FALSE
## [41053] FALSE FALSE
## [41065] FALSE FALSE
## [41077] FALSE FALSE
## [41089] FALSE FALSE
## [41101] FALSE FALSE
## [41113] FALSE FALSE
## [41125] FALSE F
## [41137] FALSE F
## [41149] FALSE FALSE
## [41161] FALSE FALSE
## [41173] FALSE FALSE
## [41185] FALSE F
## [41197] FALSE FALSE
## [41209] FALSE FALSE
## [41221] FALSE FALSE
## [41233] FALSE FALSE
## [41245] FALSE F
## [41257] FALSE FALSE
## [41269] FALSE FALSE
## [41281] FALSE FALSE
## [41293] FALSE FALSE
## [41305] FALSE FALSE
## [41317] FALSE FALSE
## [41329] FALSE F
## [41341] FALSE FALSE
## [41353] FALSE FALSE
## [41365] FALSE FALSE
## [41377] FALSE FALSE
## [41389] FALSE FALSE
## [41401] FALSE FALSE
## [41413] FALSE FALSE
```

```
## [41425] FALSE FALSE
## [41437] FALSE FALSE
## [41449] FALSE FALSE
## [41461] FALSE F
## [41473] FALSE FALSE
## [41485] FALSE F
## [41497] FALSE FALSE
## [41509] FALSE F
## [41521] FALSE FALSE
## [41533] FALSE FALSE
## [41545] FALSE F
## [41557] FALSE FALSE
## [41569] FALSE F
## [41581] FALSE FALSE
## [41593] FALSE FALSE
## [41605] FALSE F
## [41617] FALSE FALSE
## [41629] FALSE F
## [41641] FALSE FALSE
## [41653] FALSE FALSE
## [41665] FALSE FALSE
## [41677] FALSE FALSE
## [41689] FALSE F
## [41701] FALSE FALSE
## [41713] FALSE FALSE
## [41725] FALSE F
## [41737] FALSE FALSE
## [41749] FALSE FALSE
## [41761] FALSE FALSE
## [41773] FALSE F
## [41785] FALSE F
## [41797] FALSE FALSE
## [41809] FALSE FALSE
## [41821] FALSE FALSE
## [41833] FALSE F
## [41845] FALSE FALSE
## [41857] FALSE FALSE
## [41869] FALSE FALSE
## [41881] FALSE FALSE
## [41893] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [41905] FALSE FALSE
## [41917] FALSE FALSE
## [41929] FALSE FALSE
## [41941] FALSE FALSE
## [41953] FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [41965] FALSE F
## [41977] FALSE F
## [41989] FALSE F
## [42001] FALSE FALSE
## [42013] FALSE FALSE
## [42025] FALSE F
## [42037] FALSE FALSE
## [42049] FALSE FALSE
## [42061] FALSE FALSE
```

```
## [42073] FALSE FALSE
## [42085] FALSE FALSE
## [42097] FALSE FALSE
## [42109] FALSE F
## [42121] FALSE FALSE
## [42133] FALSE F
## [42145] FALSE F
## [42157] FALSE FALSE
## [42169] FALSE FALSE
## [42181] FALSE FALSE
## [42193] FALSE F
## [42205] FALSE F
## [42217] FALSE F
## [42229] FALSE FALSE
## [42241] FALSE FALSE
## [42253] FALSE FALSE
## [42265] FALSE F
## [42277] FALSE F
## [42289] FALSE FALSE
## [42301] FALSE FALSE
## [42313] FALSE FALSE
## [42325] FALSE FALSE
## [42337] FALSE F
## [42349] FALSE F
## [42361] FALSE FALSE
## [42373] FALSE FALSE
## [42385] FALSE F
## [42397] FALSE F
## [42409] FALSE F
## [42421] FALSE F
## [42433] FALSE F
## [42445] FALSE FALSE
## [42457] FALSE F
## [42469] FALSE F
## [42481] FALSE F
## [42493] FALSE FALSE
## [42505] FALSE FALSE
## [42517] FALSE FALSE
## [42529] FALSE FALSE
## [42541] FALSE F
## [42553] FALSE FALSE
## [42565] FALSE FALSE
## [42577] FALSE FALSE
## [42589] FALSE F
## [42601] FALSE FALSE
## [42613] FALSE F
## [42625] FALSE F
## [42637] FALSE FALSE
## [42649] FALSE FALSE
## [42661] FALSE FALSE
## [42673] FALSE F
## [42685] FALSE FALSE
## [42697] FALSE FALSE
## [42709] FALSE FALSE
```

```
## [42721] FALSE FALSE
## [42733] FALSE FALSE
## [42745] FALSE FALSE
## [42757] FALSE F
## [42769] FALSE FALSE
## [42781] FALSE F
## [42793] FALSE FALSE
## [42805] FALSE FALSE
## [42817] FALSE FALSE
## [42829] FALSE F
## [42841] FALSE F
## [42853] FALSE FALSE
## [42865] FALSE F
## [42877] FALSE FALSE
## [42889] FALSE FALSE
## [42901] FALSE FALSE
## [42913] FALSE FALSE
## [42925] FALSE F
## [42937] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [42949] TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [42961] FALSE FALSE
## [42973] FALSE FALSE
## [42985] FALSE F
## [42997] FALSE F
## [43009] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [43021] FALSE FALSE
## [43033] FALSE FALSE
## [43045] FALSE FALSE
## [43057] FALSE FALSE
## [43069] FALSE F
## [43081] FALSE F
## [43093] FALSE FALSE
## [43105] FALSE FALSE
## [43117] FALSE FALSE
## [43129] FALSE F
## [43141] FALSE FALSE
## [43153] FALSE FALSE
## [43165] FALSE FALSE
## [43177] FALSE FALSE
## [43189] FALSE F
## [43201] FALSE FALSE
## [43213] FALSE FALSE
## [43225] FALSE FALSE
## [43237] FALSE FALSE
## [43249] FALSE FALSE
## [43261] FALSE FALSE
## [43273] FALSE F
## [43285] FALSE FALSE
## [43297] FALSE FALSE
## [43309] FALSE FALSE
## [43321] FALSE FALSE
## [43333] FALSE FALSE
## [43345] FALSE FALSE
## [43357] FALSE FALSE
```

```
## [43369] FALSE FALSE
## [43381] FALSE FALSE
## [43393] FALSE FALSE
## [43405] FALSE F
## [43417] FALSE FALSE
## [43429] FALSE F
## [43441] FALSE FALSE
## [43453] FALSE F
## [43465] FALSE FALSE
## [43477] FALSE FALSE
## [43489] FALSE FALSE
## [43501] FALSE F
## [43513] FALSE F
## [43525] FALSE FALSE
## [43537] FALSE FALSE
## [43549] FALSE FALSE
## [43561] FALSE FALSE
## [43573] FALSE F
## [43585] FALSE FALSE
## [43597] FALSE FALSE
## [43609] FALSE FALSE
## [43621] FALSE FALSE
## [43633] FALSE FALSE
## [43645] FALSE F
## [43657] FALSE FALSE
## [43669] FALSE F
## [43681] FALSE FALSE
## [43693] FALSE FALSE
## [43705] FALSE FALSE
## [43717] FALSE F
## [43729] FALSE F
## [43741] FALSE FALSE
## [43753] FALSE FALSE
## [43765] FALSE FALSE
## [43777] FALSE F
## [43789] FALSE FALSE
## [43801] FALSE FALSE
## [43813] FALSE FALSE
## [43825] FALSE FALSE
## [43837] FALSE F
## [43849] FALSE FALSE
## [43861] FALSE FALSE
## [43873] FALSE FALSE
## [43885] FALSE FALSE
## [43897] FALSE FALSE
## [43909] FALSE FALSE
## [43921] FALSE F
## [43933] FALSE FALSE
## [43945] TRUE FALSE FALSE
## [43957] FALSE FALSE
## [43969] FALSE F
## [43981] FALSE FALSE
## [43993] FALSE FALSE
## [44005] FALSE FALSE
```

```
## [44017] FALSE FALSE
## [44029] FALSE FALSE
## [44041] FALSE FALSE
## [44053] FALSE F
## [44065] FALSE F
## [44077] FALSE F
## [44089] FALSE FALSE
## [44101] FALSE FALSE
## [44113] FALSE FALSE
## [44125] FALSE F
## [44137] FALSE F
## [44149] FALSE FALSE
## [44161] FALSE F
## [44173] FALSE FALSE
## [44185] FALSE FALSE
## [44197] FALSE FALSE
## [44209] FALSE FALSE
## [44221] FALSE F
## [44233] FALSE FALSE
## [44245] FALSE FALSE
## [44257] FALSE FALSE
## [44269] FALSE FALSE
## [44281] FALSE F
## [44293] FALSE FALSE
## [44305] FALSE FALSE
## [44317] FALSE FALSE
## [44329] FALSE FALSE
## [44341] FALSE FALSE
## [44353] FALSE FALSE
## [44365] FALSE F
## [44377] FALSE F
## [44389] FALSE FALSE
## [44401] FALSE FALSE
## [44413] FALSE FALSE
## [44425] FALSE F
## [44437] FALSE FALSE
## [44449] FALSE FALSE
## [44461] FALSE FALSE
## [44473] FALSE FALSE
## [44485] FALSE F
## [44497] FALSE FALSE
## [44509] FALSE FALSE
## [44521] FALSE FALSE
## [44533] FALSE FALSE
## [44545] FALSE FALSE
## [44557] FALSE FALSE
## [44569] FALSE F
## [44581] FALSE FALSE
## [44593] FALSE FALSE
## [44605] FALSE F
## [44617] FALSE TRUE
## [44629] TRUE FALSE FA
## [44641] FALSE FALSE
## [44653] FALSE FALSE
```

```
## [44665] FALSE FALSE
## [44677] FALSE FALSE
## [44689] FALSE FALSE
## [44701] FALSE FALSE
## [44713] FALSE FALSE
## [44725] FALSE F
## [44737] FALSE FALSE
## [44749] FALSE F
## [44761] FALSE FALSE
## [44773] FALSE FALSE
## [44785] FALSE F
## [44797] FALSE FALSE
## [44809] FALSE F
## [44821] FALSE FALSE
## [44833] FALSE FALSE
## [44845] FALSE FALSE
## [44857] FALSE FALSE
## [44869] FALSE F
## [44881] FALSE FALSE
## [44893] FALSE FALSE
## [44905] FALSE FALSE
## [44917] FALSE FALSE
## [44929] FALSE F
## [44941] FALSE FALSE
## [44953] FALSE FALSE
## [44965] FALSE F
## [44977] FALSE FALSE
## [44989] FALSE F
## [45001] FALSE F
## [45013] FALSE F
## [45025] FALSE F
## [45037] FALSE FALSE
## [45049] FALSE F
## [45061] FALSE FALSE
## [45073] FALSE F
## [45085] FALSE FALSE
## [45097] FALSE FALSE
## [45109] FALSE FALSE
## [45121] FALSE FALSE
## [45133] FALSE FALSE
## [45145] FALSE FALSE
## [45157] FALSE FALSE
## [45169] FALSE FALSE
## [45181] FALSE FALSE
## [45193] FALSE FALSE
## [45205] FALSE FALSE
## [45217] FALSE F
## [45229] FALSE FALSE
## [45241] FALSE FALSE
## [45253] FALSE FALSE
## [45265] FALSE F
## [45277] FALSE FALSE
## [45289] FALSE FALSE
## [45301] FALSE FALSE
```

```
## [45313] FALSE FALSE
## [45325] FALSE FALSE
## [45337] FALSE FALSE
## [45349] FALSE F
## [45361] FALSE F
## [45373] FALSE F
## [45385] FALSE FALSE
## [45397] FALSE F
## [45409] FALSE FALSE
## [45421] FALSE FALSE
## [45433] FALSE F
## [45445] FALSE FALSE
## [45457] FALSE F
## [45469] FALSE FALSE
## [45481] FALSE FALSE
## [45493] FALSE FALSE
## [45505] FALSE F
## [45517] FALSE F
## [45529] FALSE FALSE
## [45541] FALSE FALSE
## [45553] FALSE FALSE
## [45565] FALSE FALSE
## [45577] FALSE F
## [45589] FALSE F
## [45601] FALSE FALSE
## [45613] FALSE F
## [45625] FALSE F
## [45637] FALSE FALSE
## [45649] FALSE FALSE
## [45661] FALSE F
## [45673] FALSE F
## [45685] FALSE FALSE
## [45697] FALSE FALSE
## [45709] FALSE FALSE
## [45721] FALSE F
## [45733] FALSE FALSE
## [45745] FALSE FALSE
## [45757] FALSE FALSE
## [45769] FALSE FALSE
## [45781] FALSE F
## [45793] FALSE FALSE
## [45805] FALSE FALSE
## [45817] FALSE FALSE
## [45829] FALSE F
## [45841] FALSE FALSE
## [45853] FALSE FALSE
## [45865] FALSE F
## [45877] FALSE F
## [45889] FALSE FALSE
## [45901] FALSE FALSE
## [45913] FALSE FALSE
## [45925] FALSE FALSE
## [45937] FALSE FALSE
## [45949] FALSE FALSE
```

```
## [45961] FALSE FALSE
## [45973] FALSE FALSE
## [45985] FALSE FALSE
## [45997] FALSE FALSE
## [46009] FALSE FALSE
## [46021] FALSE F
## [46033] FALSE FALSE
## [46045] FALSE FALSE
## [46057] FALSE FALSE
## [46069] FALSE F
## [46081] FALSE FALSE
## [46093] FALSE F
## [46105] FALSE F
## [46117] FALSE FALSE
## [46129] FALSE FALSE
## [46141] FALSE FALSE
## [46153] FALSE FALSE
## [46165] FALSE F
## [46177] FALSE FALSE
## [46189] FALSE FALSE
## [46201] FALSE FALSE
## [46213] FALSE FALSE
## [46225] FALSE F
## [46237] FALSE FALSE
## [46249] FALSE FALSE
## [46261] FALSE FALSE
## [46273] FALSE FALSE
## [46285] FALSE F
## [46297] FALSE FALSE
## [46309] FALSE F
## [46321] FALSE F
## [46333] FALSE FALSE
## [46345] FALSE F
## [46357] FALSE FALSE
## [46369] FALSE F
## [46381] FALSE FALSE
## [46393] FALSE FALSE
## [46405] FALSE FALSE
## [46417] FALSE FALSE
## [46429] FALSE F
## [46441] FALSE FALSE
## [46453] FALSE FALSE
## [46465] FALSE FALSE
## [46477] FALSE FALSE
## [46489] FALSE FALSE
## [46501] FALSE F
## [46513] FALSE F
## [46525] FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE TRUE TRUE FALSE
## [46537] FALSE FALSE
## [46549] FALSE FALSE
## [46561] FALSE FALSE
## [46573] FALSE FALSE
## [46585] FALSE FALSE
## [46597] FALSE FALSE
```

```
## [46609] FALSE FALSE
## [46621] FALSE FALSE
## [46633] FALSE FALSE
## [46645] FALSE F
## [46657] FALSE FALSE
## [46669] FALSE F
## [46681] FALSE F
## [46693] FALSE F
## [46705] FALSE FALSE
## [46717] FALSE FALSE
## [46729] FALSE F
## [46741] FALSE FALSE
## [46753] FALSE F
## [46765] FALSE FALSE
## [46777] FALSE FALSE
## [46789] FALSE FALSE
## [46801] FALSE FALSE
## [46813] FALSE F
## [46825] FALSE FALSE
## [46837] FALSE FALSE
## [46849] FALSE FALSE
## [46861] FALSE FALSE
## [46873] FALSE FALSE
## [46885] FALSE F
## [46897] FALSE FALSE
## [46909] FALSE FALSE
## [46921] FALSE F
## [46933] FALSE FALSE
## [46945] FALSE F
## [46957] FALSE F
## [46969] FALSE F
## [46981] FALSE FALSE
## [46993] FALSE FALSE
## [47005] FALSE FALSE
## [47017] FALSE F
## [47029] FALSE FALSE
## [47041] FALSE FALSE
## [47053] FALSE FALSE
## [47065] FALSE FALSE
## [47077] FALSE FALSE
## [47089] FALSE FALSE
## [47101] FALSE FALSE
## [47113] FALSE FALSE
## [47125] FALSE FALSE
## [47137] FALSE FALSE
## [47149] FALSE FALSE
## [47161] FALSE F
## [47173] FALSE F
## [47185] FALSE FALSE
## [47197] FALSE FALSE
## [47209] FALSE FALSE
## [47221] FALSE FALSE
## [47233] FALSE FALSE
## [47245] FALSE FALSE
```

```
## [47257] FALSE FALSE
## [47269] FALSE FALSE
## [47281] FALSE FALSE
## [47293] FALSE F
## [47305] FALSE FALSE
## [47317] FALSE F
## [47329] FALSE FALSE
## [47341] FALSE F
## [47353] FALSE FALSE
## [47365] FALSE FALSE
## [47377] FALSE F
## [47389] FALSE FALSE
## [47401] FALSE F
## [47413] FALSE F
## [47425] FALSE FALSE
## [47437] FALSE FALSE
## [47449] FALSE FALSE
## [47461] FALSE F
## [47473] FALSE FALSE
## [47485] FALSE FALSE
## [47497] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [47509] FALSE FALSE
## [47521] FALSE FALSE
## [47533] FALSE FALSE
## [47545] FALSE FALSE
## [47557] FALSE FALSE
## [47569] FALSE FALSE
## [47581] FALSE FALSE
## [47593] FALSE FALSE
## [47605] FALSE F
## [47617] FALSE F
## [47629] FALSE FALSE
## [47641] FALSE FALSE
## [47653] FALSE FALSE
## [47665] FALSE F
## [47677] FALSE FALSE
## [47689] FALSE FALSE
## [47701] FALSE FALSE
## [47713] FALSE FALSE
## [47725] FALSE F
## [47737] FALSE FALSE
## [47749] FALSE F
## [47761] FALSE FALSE
## [47773] FALSE FALSE
## [47785] FALSE FALSE
## [47797] FALSE FALSE
## [47809] FALSE F
## [47821] FALSE F
## [47833] FALSE FALSE
## [47845] FALSE FALSE
## [47857] FALSE FALSE
## [47869] FALSE FALSE
## [47881] FALSE FALSE
## [47893] FALSE FALSE
```

```
## [47905] FALSE FALSE
## [47917] FALSE FALSE
## [47929] FALSE FALSE
## [47941] FALSE FALSE
## [47953] FALSE FALSE
## [47965] FALSE F
## [47977] FALSE FALSE
## [47989] FALSE F
## [48001] FALSE FALSE
## [48013] FALSE FALSE
## [48025] FALSE F
## [48037] FALSE FALSE
## [48049] FALSE F
## [48061] FALSE FALSE
## [48073] FALSE FALSE
## [48085] FALSE F
## [48097] FALSE F
## [48109] FALSE F
## [48121] FALSE FALSE
## [48133] FALSE FALSE
## [48145] FALSE FALSE
## [48157] FALSE FALSE
## [48169] FALSE F
## [48181] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE
## [48193] FALSE FALSE
## [48205] FALSE FALSE
## [48217] FALSE FALSE
## [48229] FALSE F
## [48241] FALSE FALSE
## [48253] FALSE F
## [48265] FALSE F
## [48277] FALSE FALSE
## [48289] FALSE F
## [48301] FALSE FALSE
## [48313] FALSE F
## [48325] FALSE FALSE
## [48337] FALSE FALSE
## [48349] FALSE FALSE
## [48361] FALSE FALSE
## [48373] FALSE F
## [48385] FALSE FALSE
## [48397] FALSE FALSE
## [48409] FALSE FALSE
## [48421] FALSE FALSE
## [48433] FALSE FALSE
## [48445] FALSE FALSE
## [48457] FALSE F
## [48469] FALSE FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [48481] FALSE FALSE
## [48493] FALSE FALSE
## [48505] FALSE F
## [48517] FALSE FALSE
## [48529] FALSE FALSE
## [48541] FALSE FALSE
```

```
## [48553] FALSE FALSE
## [48565] FALSE FALSE
## [48577] FALSE FALSE
## [48589] FALSE F
## [48601] FALSE FALSE
## [48613] FALSE F
## [48625] FALSE F
## [48637] FALSE F
## [48649] FALSE FALSE
## [48661] FALSE FALSE
## [48673] FALSE F
## [48685] FALSE FALSE
## [48697] FALSE F
## [48709] FALSE FALSE
## [48721] FALSE FALSE
## [48733] FALSE FALSE
## [48745] FALSE FALSE
## [48757] FALSE F
## [48769] FALSE FALSE
## [48781] FALSE FALSE
## [48793] FALSE FALSE
## [48805] FALSE FALSE
## [48817] FALSE F
## [48829] FALSE F
## [48841] FALSE FALSE
## [48853] FALSE FALSE
## [48865] FALSE F
## [48877] FALSE FALSE
## [4889] FALSE FALSE
## [48901] FALSE F
## [48913] FALSE F
## [48925] FALSE FALSE
## [48937] FALSE FALSE
## [48949] FALSE FALSE
## [48961] FALSE F
## [48973] FALSE FALSE
## [48985] FALSE FALSE
## [48997] FALSE FALSE
## [49009] FALSE FALSE
## [49021] FALSE F
## [49033] FALSE FALSE
## [49045] FALSE FALSE
## [49057] FALSE FALSE
## [49069] FALSE FALSE
## [49081] FALSE FALSE
## [49093] FALSE FALSE
## [49105] FALSE F
## [49117] FALSE F
## [49129] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [49141] FALSE FALSE
## [49153] FALSE FALSE
## [49165] FALSE FALSE
## [49177] FALSE FALSE
## [49189] FALSE FALSE
```

```
## [49201] FALSE FALSE
## [49213] FALSE FALSE
## [49225] FALSE FALSE
## [49237] FALSE F
## [49249] FALSE FALSE
## [49261] FALSE F
## [49273] FALSE FALSE
## [49285] FALSE FALSE
## [49297] FALSE FALSE
## [49309] FALSE FALSE
## [49321] FALSE F
## [49333] FALSE FALSE
## [49345] FALSE F
## [49357] FALSE FALSE
## [49369] FALSE FALSE
## [49381] FALSE FALSE
## [49393] FALSE FALSE
## [49405] FALSE F
## [49417] FALSE FALSE
## [49429] FALSE FALSE
## [49441] FALSE FALSE
## [49453] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [49465] TRUE TRUE FALSE FAL
## [49477] FALSE F
## [49489] FALSE FALSE
## [49501] FALSE FALSE
## [49513] FALSE FALSE
## [49525] FALSE F
## [49537] FALSE FALSE
## [49549] FALSE F
## [49561] FALSE F
## [49573] FALSE FALSE
## [49585] FALSE FALSE
## [49597] FALSE FALSE
## [49609] FALSE F
## [49621] FALSE FALSE
## [49633] FALSE FALSE
## [49645] FALSE FALSE
## [49657] FALSE FALSE
## [49669] FALSE F
## [49681] FALSE FALSE
## [49693] FALSE FALSE
## [49705] FALSE FALSE
## [49717] FALSE FALSE
## [49729] FALSE FALSE
## [49741] FALSE FALSE
## [49753] FALSE F
## [49765] FALSE FALSE
## [49777] FALSE FALSE
## [49789] FALSE FALSE
## [49801] FALSE FALSE
## [49813] FALSE FALSE
## [49825] FALSE FALSE
## [49837] FALSE FALSE
```

```
## [49849] FALSE FALSE
## [49861] FALSE FALSE
## [49873] FALSE FALSE
## [4985] FALSE FA
## [49897] FALSE FALSE
## [49909] FALSE F
## [49921] FALSE FALSE
## [49933] FALSE F
## [49945] FALSE FALSE
## [49957] FALSE F
## [49969] FALSE F
## [49981] FALSE FALSE
## [49993] FALSE F
## [50005] FALSE FALSE
## [50017] FALSE FALSE
## [50029] FALSE FALSE
## [50041] FALSE F
## [50053] FALSE F
## [50065] FALSE F
## [50077] FALSE FALSE
## [50089] FALSE FALSE
## [50101] FALSE FALSE
## [50113] FALSE F
## [50125] FALSE F
## [50137] FALSE FALSE
## [50149] FALSE FALSE
## [50161] FALSE FALSE
## [50173] FALSE FALSE
## [50185] FALSE F
## [50197] FALSE F
## [50209] FALSE F
## [50221] FALSE FALSE
## [50233] FALSE FALSE
## [50245] FALSE F
## [50257] FALSE F
## [50269] FALSE FALSE
## [50281] FALSE FALSE
## [50293] FALSE FALSE
## [50305] FALSE FALSE
## [50317] FALSE F
## [50329] FALSE FALSE
## [50341] FALSE FALSE
## [50353] FALSE FALSE
## [50365] FALSE F
## [50377] FALSE FALSE
## [50389] FALSE FALSE
## [50401] FALSE F
## [50413] FALSE F
## [50425] FALSE FALSE
## [50437] FALSE FALSE
## [50449] FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [50461] FALSE FALSE
## [50473] FALSE FALSE
## [50485] FALSE FALSE
```

```
## [50497] FALSE F
## [50509] FALSE FALSE
## [50521] FALSE FALSE
## [50533] FALSE F
## [50545] FALSE FALSE
## [50557] FALSE F
## [50569] FALSE F
## [50581] FALSE F
## [50593] FALSE FALSE
## [50605] FALSE F
## [50617] FALSE F
## [50629] FALSE F
## [50641] FALSE F
## [50653] FALSE F
## [50665] FALSE F
## [50677] FALSE F
## [50689] FALSE F
## [50701] FALSE F
## [50713] FALSE FALSE
## [50725] FALSE FALSE
## [50737] FALSE FALSE
## [50749] FALSE FALSE
## [50761] FALSE F
## [50773] FALSE F
## [50785] FALSE FALSE
## [50797] FALSE FALSE
## [50809] FALSE F
## [50821] FALSE F
## [50833] FALSE FALSE
## [50845] FALSE F
## [50857] FALSE F
## [50869] FALSE FALSE
## [50881] FALSE F
## [50893] FALSE F
## [50905] FALSE F
## [50917] FALSE FALSE
## [50929] FALSE FALSE
## [50941] FALSE F
## [50953] FALSE F
## [50965] FALSE F
## [50977] FALSE FALSE
## [50989] FALSE F
## [51001] FALSE FALSE
## [51013] FALSE FALSE
## [51025] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [51037] FALSE FALSE
## [51049] FALSE F
## [51061] FALSE FALSE TRUE FALSE FA
## [51073] FALSE FALSE
## [51085] FALSE F
## [51097] FALSE FALSE
## [51109] FALSE FALSE
## [51121] FALSE FALSE
## [51133] FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
```

```
## [51145] FALSE FALSE
## [51157] FALSE FALSE
## [51169] FALSE FALSE
## [51181] FALSE FALSE
## [51193] FALSE FALSE
## [51205] FALSE F
## [51217] FALSE FALSE
## [51229] FALSE F
## [51241] FALSE FALSE
## [51253] FALSE FALSE
## [51265] FALSE F
## [51277] FALSE FALSE
## [51289] FALSE F
## [51301] FALSE F
## [51313] FALSE FALSE
## [51325] FALSE F
## [51337] FALSE FALSE
## [51349] FALSE F
## [51361] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [51373] FALSE FALSE
## [51385] FALSE FALSE
## [51397] FALSE FALSE
## [51409] FALSE F
## [51421] FALSE F
## [51433] FALSE FALSE
## [51445] FALSE FALSE
## [51457] FALSE FALSE
## [51469] FALSE FALSE
## [51481] FALSE FALSE
## [51493] FALSE F
## [51505] FALSE F
## [51517] FALSE FALSE
## [51529] FALSE FALSE
## [51541] FALSE FALSE
## [51553] FALSE F
## [51565] FALSE FALSE
## [51577] FALSE FALSE
## [51589] FALSE FALSE
## [51601] FALSE FALSE
## [51613] FALSE F
## [51625] FALSE FALSE
## [51637] FALSE F
## [51649] FALSE FALSE
## [51661] FALSE FALSE
## [51673] FALSE FALSE
## [51685] FALSE F
## [51697] FALSE F
## [51709] FALSE F
## [51721] FALSE FALSE
## [51733] FALSE FALSE
## [51745] FALSE FALSE
## [51757] FALSE FALSE
## [51769] FALSE FALSE
## [51781] FALSE FALSE
```

```
## [51793] FALSE FALSE
## [51805] FALSE FALSE
## [51817] FALSE FALSE
## [51829] FALSE F
## [51841] FALSE FALSE
## [51853] FALSE F
## [51865] FALSE F
## [51877] FALSE F
## [51889] FALSE FALSE
## [51901] FALSE FALSE
## [51913] FALSE FALSE
## [51925] FALSE F
## [51937] FALSE F
## [51949] FALSE FALSE
## [51961] FALSE FALSE
## [51973] FALSE FALSE
## [51985] FALSE FALSE
## [51997] FALSE F
## [52009] FALSE FALSE
## [52021] FALSE FALSE
## [52033] FALSE FALSE
## [52045] FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [52057] FALSE F
## [52069] FALSE F
## [52081] FALSE FALSE
## [52093] FALSE FALSE
## [52105] FALSE FALSE
## [52117] FALSE FALSE
## [52129] FALSE F
## [52141] FALSE F
## [52153] FALSE F
## [52165] FALSE FALSE
## [52177] FALSE FALSE
## [52189] FALSE FALSE
## [52201] FALSE F
## [52213] FALSE FALSE
## [52225] FALSE FALSE
## [52237] FALSE FALSE
## [52249] FALSE FALSE
## [52261] FALSE F
## [52273] FALSE FALSE
## [52285] FALSE FALSE
## [52297] FALSE FALSE
## [52309] FALSE F
## [52321] FALSE FALSE
## [52333] FALSE FALSE
## [52345] FALSE F
## [52357] FALSE FALSE
## [52369] FALSE FALSE
## [52381] FALSE FALSE
## [52393] FALSE FALSE
## [52405] FALSE FALSE
## [52417] FALSE FALSE
## [52429] FALSE FALSE
```

```
## [52441] FALSE FALSE
## [52453] FALSE FALSE
## [52465] FALSE FALSE
## [52477] FALSE F
## [52489] FALSE FALSE
## [52501] FALSE F
## [52513] FALSE F
## [52525] FALSE F
## [52537] FALSE FALSE
## [52549] FALSE F
## [52561] FALSE F
## [52573] FALSE F
## [52585] FALSE F
## [52597] FALSE FALSE
## [52609] FALSE F
## [52621] FALSE FALSE
## [52633] FALSE FALSE
## [52645] FALSE F
## [52657] FALSE FALSE
## [52669] FALSE FALSE
## [52681] FALSE FALSE
## [52693] FALSE FALSE
## [52705] FALSE F
## [52717] FALSE F
## [52729] FALSE FALSE
## [52741] FALSE F
## [52753] FALSE FALSE
## [52765] FALSE F
## [52777] FALSE FALSE
## [52789] FALSE F
## [52801] FALSE F
## [52813] FALSE FALSE
## [52825] FALSE F
## [52837] FALSE FALSE
## [52849] FALSE F
## [52861] FALSE FALSE
## [52873] FALSE FALSE
## [52885] FALSE F
## [52897] FALSE FALSE
## [52909] FALSE F
## [52921] FALSE FALSE
## [52933] FALSE FALSE
## [52945] FALSE F
## [52957] FALSE FALSE
## [52969] FALSE F
## [52981] FALSE FALSE
## [52993] FALSE F
## [53005] FALSE FALSE
## [53017] FALSE FALSE
## [53029] FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [53041] FALSE FALSE
## [53053] FALSE FALSE
## [53065] FALSE FALSE
## [53077] FALSE FALSE
```

```
## [53089] FALSE FALSE
## [53101] FALSE FALSE
## [53113] FALSE FALSE
## [53125] FALSE F
## [53137] FALSE FALSE
## [53149] FALSE F
## [53161] FALSE F
## [53173] FALSE F
## [53185] FALSE FALSE
## [53197] FALSE FALSE
## [53209] FALSE FALSE
## [53221] FALSE F
## [53233] FALSE F
## [53245] FALSE FALSE
## [53257] TRUE FALSE FA
## [53269] FALSE FALSE
## [53281] FALSE FALSE
## [53293] FALSE F
## [53305] FALSE FALSE
## [53317] FALSE FALSE
## [53329] FALSE FALSE
## [53341] FALSE FALSE
## [53353] FALSE F
## [53365] FALSE F
## [53377] FALSE FALSE
## [53389] FALSE FALSE
## [53401] FALSE FALSE
## [53413] FALSE FALSE
## [53425] FALSE FALSE
## [53437] FALSE F
## [53449] FALSE F
## [53461] FALSE FALSE
## [53473] FALSE FALSE
## [53485] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [53497] FALSE F
## [53509] FALSE FALSE
## [53521] FALSE FALSE
## [53533] FALSE FALSE
## [53545] FALSE FALSE
## [53557] FALSE F
## [53569] FALSE FALSE
## [53581] FALSE FALSE
## [53593] FALSE FALSE
## [53605] FALSE FALSE
## [53617] FALSE FALSE
## [53629] FALSE FALSE
## [53641] FALSE F
## [53653] FALSE FALSE
## [53665] FALSE FALSE
## [53677] FALSE FALSE
## [53689] FALSE FALSE
## [53701] FALSE FALSE
## [53713] FALSE FALSE
## [53725] FALSE FALSE
```

```
## [53737] FALSE FALSE
## [53749] FALSE FALSE
## [53761] FALSE FALSE
## [53773] FALSE F
## [53785] FALSE FALSE
## [53797] FALSE F
## [53809] FALSE F
## [53821] FALSE FALSE
## [53833] FALSE FALSE
## [53845] FALSE FALSE
## [53857] FALSE FALSE
## [53869] FALSE FALSE
## [53881] FALSE F
## [53893] FALSE FALSE
## [53905] FALSE FALSE
## [53917] FALSE FALSE
## [53929] FALSE FALSE
## [53941] FALSE F
## [53953] FALSE FALSE
## [53965] FALSE FALSE
## [53977] FALSE FALSE
## [53989] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE
## [54001] FALSE F
## [54013] FALSE F
## [54025] FALSE FALSE
## [54037] FALSE FALSE
## [54049] FALSE FALSE
## [54061] FALSE FALSE
## [54073] FALSE FALSE
## [54085] FALSE F
## [54097] FALSE F
## [54109] FALSE FALSE
## [54121] FALSE FALSE
## [54133] FALSE FALSE
## [54145] FALSE F
## [54157] FALSE FALSE
## [54169] FALSE FALSE
## [54181] FALSE FALSE
## [54193] FALSE FALSE
## [54205] FALSE F
## [54217] FALSE FALSE
## [54229] FALSE FALSE
## [54241] FALSE FALSE
## [54253] FALSE FALSE
## [54265] FALSE F
## [54277] FALSE FALSE
## [54289] FALSE F
## [54301] FALSE FALSE
## [54313] FALSE FALSE
## [54325] FALSE FALSE
## [54337] FALSE FALSE
## [54349] FALSE FALSE
## [54361] FALSE FALSE
## [54373] FALSE FALSE
```

```
## [54385] FALSE FALSE
## [54397] FALSE FALSE
## [54409] FALSE FALSE
## [54421] FALSE F
## [54433] FALSE FALSE
## [54445] FALSE F
## [54457] FALSE F
## [54469] FALSE F
## [54481] FALSE FALSE
## [54493] FALSE FALSE
## [54505] FALSE F
## [54517] FALSE FALSE
## [54529] FALSE F
## [54541] FALSE FALSE
## [54553] FALSE FALSE
## [54565] FALSE F
## [54577] FALSE FALSE
## [54589] FALSE F
## [54601] FALSE FALSE
## [54613] FALSE FALSE
## [54625] FALSE FALSE
## [54637] FALSE FALSE
## [54649] FALSE F
## [54661] FALSE F
## [54673] FALSE FALSE
## [54685] FALSE FALSE
## [54697] FALSE FALSE
## [54709] FALSE FALSE
## [54721] FALSE FALSE
## [54733] FALSE F
## [54745] FALSE F
## [54757] FALSE FALSE
## [54769] FALSE FALSE
## [54781] FALSE FALSE
## [54793] FALSE F
## [54805] FALSE FALSE
## [54817] FALSE FALSE
## [54829] FALSE FALSE
## [54841] FALSE FALSE
## [54853] FALSE F
## [54865] FALSE FALSE
## [54877] FALSE FALSE
## [54889] FALSE FALSE
## [54901] FALSE FALSE
## [54913] FALSE FALSE
## [54925] FALSE F
## [54937] FALSE F
## [54949] FALSE F
## [54961] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE
## [54973] FALSE FALSE
## [54985] FALSE FALSE
## [54997] FALSE FALSE
## [55009] FALSE F
## [55021] FALSE FALSE
```

```
## [55033] FALSE FALSE
## [55045] FALSE FALSE
## [55057] FALSE FALSE
## [55069] FALSE F
## [55081] FALSE FALSE
## [55093] FALSE F
## [55105] FALSE F
## [55117] FALSE F
## [55129] FALSE FALSE
## [55141] FALSE FALSE
## [55153] FALSE FALSE
## [55165] FALSE F
## [55177] FALSE F
## [55189] FALSE FALSE
## [55201] FALSE F
## [55213] FALSE FALSE
## [55225] FALSE F
## [55237] FALSE F
## [55249] FALSE FALSE
## [55261] FALSE FALSE
## [55273] FALSE FALSE
## [55285] FALSE FALSE
## [55297] FALSE F
## [55309] FALSE F
## [55321] FALSE FALSE
## [55333] FALSE FALSE
## [55345] FALSE FALSE
## [55357] FALSE FALSE
## [55369] FALSE FALSE
## [55381] FALSE F
## [55393] FALSE F
## [55405] FALSE FALSE
## [55417] FALSE FALSE
## [55429] FALSE F
## [55441] FALSE F
## [55453] FALSE FALSE
## [55465] FALSE FALSE
## [55477] FALSE FALSE
## [55489] FALSE FALSE
## [55501] FALSE F
## [55513] FALSE FALSE
## [55525] FALSE FALSE
## [55537] FALSE FALSE
## [55549] FALSE FALSE
## [55561] FALSE FALSE
## [55573] FALSE FALSE
## [55585] FALSE F
## [55597] FALSE FALSE
## [55609] FALSE FALSE
## [55621] FALSE F
## [55633] FALSE FALSE
## [55645] FALSE FALSE
## [55657] FALSE FALSE
## [55669] FALSE FALSE
```

```
## [55681] FALSE FALSE
## [55693] FALSE FALSE
## [55705] FALSE FALSE
## [55717] FALSE F
## [55729] FALSE FALSE
## [55741] FALSE F
## [55753] FALSE F
## [55765] FALSE F
## [55777] FALSE FALSE
## [55789] FALSE FALSE
## [55801] FALSE FALSE
## [55813] FALSE F
## [55825] FALSE F
## [55837] FALSE FALSE
## [55849] FALSE FALSE
## [55861] FALSE FALSE
## [55873] FALSE FALSE
## [55885] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [55897] FALSE FALSE
## [55909] FALSE FALSE
## [55921] FALSE FALSE
## [55933] FALSE FALSE
## [55945] FALSE F
## [55957] FALSE F
## [55969] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [55981] FALSE FALSE
## [55993] FALSE FALSE
## [56005] FALSE TRUE
## [56017] FALSE FALSE
## [56029] FALSE F
## [56041] FALSE F
## [56053] FALSE FALSE
## [56065] FALSE F
## [56077] FALSE F
## [56089] FALSE F
## [56101] FALSE FALSE
## [56113] FALSE FALSE
## [56125] FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [56137] FALSE FALSE
## [56149] TRUE FALSE TRUE FALSE FAL
## [56161] FALSE FALSE
## [56173] FALSE FALSE
## [56185] FALSE FALSE
## [56197] FALSE FALSE
## [56209] TRUE FALSE FA
## [56221] FALSE FALSE
## [56233] FALSE F
## [56245] FALSE FALSE
## [56257] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [56269] FALSE F
## [56281] FALSE F
## [56293] FALSE FALSE
## [56305] FALSE FALSE
## [56317] FALSE FALSE
```

```
## [56329] FALSE FALSE
## [56341] FALSE FALSE
## [56353] FALSE FALSE
## [56365] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [56377] FALSE FALSE
## [56389] FALSE F
## [56401] FALSE F
## [56413] FALSE F
## [56425] FALSE FALSE
## [56437] FALSE FALSE
## [56449] FALSE F
## [56461] FALSE F
## [56473] FALSE F
## [56485] FALSE FALSE
## [56497] FALSE FALSE
## [56509] FALSE F
## [56521] FALSE FALSE
## [56533] FALSE F
## [56545] FALSE FALSE
## [56557] FALSE FALSE
## [56569] FALSE FALSE
## [56581] FALSE FALSE
## [56593] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [56605] FALSE F
## [56617] FALSE FALSE
## [56629] FALSE FALSE
## [56641] FALSE FALSE
## [56653] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [56665] FALSE F
## [56677] FALSE F
## [56689] FALSE F
## [56701] FALSE FALSE
## [56713] FALSE FALSE
## [56725] FALSE F
## [56737] FALSE F
## [56749] FALSE FALSE
## [56761] FALSE FALSE
## [56773] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## [56785] FALSE FALSE
## [56797] FALSE FALSE
## [56809] FALSE FALSE
## [56821] FALSE FALSE
## [56833] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
                                                                                              ## [56845]
                                                                                                                                                                                                                                                      TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                            TRUE TRUE TRUE TRUE
## [56857]
                                                                                                   TRUE
                                                                                                                                                TRUE
                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE TRUE
                                                                                                                                                                                                                                                    TRUE TRUE TRUE TRUE
## [56869]
                                                                                                   TRUE TRUE
                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRUE TRUE TRUE FALSE
## [56881] FALSE F
## [56893] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE
## [56905] FALSE FALSE
## [56917] FALSE FALSE
## [56929] FALSE F
## [56941] FALSE FALSE
## [56953] FALSE F
## [56965] FALSE FALSE
```

```
## [56977] FALSE FALSE
## [56989] FALSE FALSE
## [57001] FALSE FALSE
## [57013] FALSE F
## [57025] FALSE FALSE
## [57037] FALSE F
## [57049] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [57061] FALSE F
## [57073] FALSE FALSE
## [57085] FALSE F
## [57097] FALSE F
## [57109] FALSE FALSE
## [57121] FALSE F
## [57133] FALSE F
## [57145] FALSE FALSE
## [57157] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [57169] FALSE FALSE
## [57181] FALSE F
## [57193] FALSE FALSE
## [57205] FALSE FALSE
## [57217] FALSE FALSE
## [57229] FALSE FALSE
## [57241] FALSE F
## [57253] FALSE F
## [57265] FALSE FALSE
## [57277] FALSE FALSE
## [57289] FALSE FALSE
## [57301] FALSE FALSE
## [57313] FALSE FALSE
## [57325] FALSE F
## [57337] FALSE F
## [57349] FALSE FALSE
## [57361] FALSE FALSE
## [57373] FALSE FALSE
## [57385] FALSE F
## [57397] FALSE FALSE
## [57409] FALSE FALSE
## [57421] FALSE FALSE
## [57433] FALSE FALSE
## [57445] FALSE F
## [57457] FALSE FALSE
## [57469] FALSE FALSE
## [57481] FALSE FALSE
## [57493] FALSE FALSE
## [57505] FALSE F
## [57517] FALSE FALSE
## [57529] FALSE F
## [57541] FALSE FALSE
## [57553] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [57565] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [57577] FALSE FALSE
## [57589] FALSE FALSE
## [57601] FALSE FALSE
## [57613] FALSE FALSE
```

```
## [57625] FALSE FALSE
## [57637] FALSE FALSE
## [57649] FALSE FALSE
## [57661] FALSE F
## [57673] FALSE FALSE
## [57685] FALSE F
## [57697] FALSE F
## [57709] FALSE F
## [57721] FALSE FALSE
## [57733] FALSE FALSE
## [57745] FALSE FALSE
## [57757] FALSE FALSE
## [57769] FALSE F
## [57781] FALSE FALSE
## [57793] FALSE FALSE
## [57805] FALSE F
## [57817] FALSE FALSE
## [57829] FALSE F
## [57841] FALSE FALSE
## [57853] FALSE FALSE
## [57865] FALSE FALSE
## [57877] FALSE FALSE
## [57889] FALSE F
## [57901] FALSE F
## [57913] FALSE FALSE
## [57925] FALSE FALSE
## [57937] FALSE FALSE
## [57949] FALSE FALSE
## [57961] FALSE FALSE
## [57973] FALSE F
## [57985] FALSE F
## [57997] FALSE FALSE
## [58009] FALSE FALSE
## [58021] FALSE F
## [58033] FALSE F
## [58045] FALSE FALSE
## [58057] FALSE FALSE
## [58069] FALSE FALSE
## [58081] FALSE FALSE
## [58093] FALSE F
## [58105] FALSE FALSE
## [58117] FALSE FALSE
## [58129] FALSE FALSE
## [58141] FALSE FALSE
## [58153] FALSE FALSE
## [58165] FALSE FALSE
## [58177] FALSE F
## [58189] FALSE F
## [58201] FALSE FALSE
## [58213] FALSE FALSE
## [58225] FALSE F
## [58237] FALSE FALSE
## [58249] FALSE FALSE
## [58261] FALSE FALSE
```

```
## [58273] FALSE FALSE
## [58285] FALSE FALSE
## [58297] FALSE FALSE
## [58309] FALSE F
## [58321] FALSE FALSE
## [58333] FALSE F
## [58345] FALSE F
## [58357] FALSE F
## [58369] FALSE FALSE
## [58381] FALSE FALSE
## [58393] FALSE FALSE
## [58405] FALSE F
## [58417] FALSE F
## [58429] FALSE FALSE
## [58441] FALSE FALSE
## [58453] FALSE FALSE
## [58465] FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [58477] FALSE F
## [58489] FALSE FALSE
## [58501] FALSE FALSE
## [58513] FALSE FALSE
## [58525] FALSE FALSE
## [58537] FALSE FALSE
## [58549] FALSE F
## [58561] FALSE FALSE
## [58573] FALSE F
## [58585] FALSE FALSE
## [58597] FALSE FALSE
## [58609] FALSE FALSE
## [58621] FALSE F
## [58633] FALSE F
## [58645] FALSE FALSE
## [58657] FALSE FALSE
## [58669] FALSE FALSE
## [58681] FALSE F
## [58693] FALSE FALSE
## [58705] FALSE FALSE
## [58717] FALSE FALSE
## [58729] FALSE FALSE
## [58741] FALSE F
## [58753] FALSE FALSE
## [58765] FALSE FALSE
## [58777] FALSE FALSE
## [58789] FALSE FALSE
## [58801] FALSE FALSE
## [58813] FALSE FALSE
## [58825] FALSE F
## [58837] FALSE FALSE
## [58849] FALSE FALSE
## [58861] FALSE FALSE
## [58873] FALSE FALSE
## [58885] FALSE FALSE
## [58897] FALSE FALSE
## [58909] FALSE FALSE
```

```
## [58921] FALSE FALSE
## [58933] FALSE FALSE
## [58945] FALSE FALSE
## [58957] FALSE F
## [58969] FALSE FALSE
## [58981] FALSE F
## [58993] FALSE F
## [59005] FALSE F
## [59017] FALSE FALSE
## [59029] FALSE F
## [59041] FALSE F
## [59053] FALSE FALSE
## [59065] FALSE F
## [59077] FALSE FALSE
## [59089] FALSE FALSE
## [59101] FALSE FALSE
## [59113] FALSE FALSE
## [59125] FALSE F
## [59137] FALSE FALSE
## [59149] FALSE FALSE
## [59161] FALSE FALSE
## [59173] FALSE FALSE
## [59185] FALSE F
## [59197] FALSE F
## [59209] FALSE FALSE
## [59221] FALSE FALSE
## [59233] FALSE FALSE
## [59245] FALSE F
## [59257] FALSE F
## [59269] FALSE F
## [59281] FALSE F
## [59293] FALSE FALSE
## [59305] FALSE FALSE
## [59317] FALSE FALSE
## [59329] FALSE F
## [59341] FALSE FALSE
## [59353] FALSE FALSE
## [59365] FALSE FALSE
## [59377] FALSE FALSE
## [59389] FALSE F
## [59401] FALSE FALSE
## [59413] FALSE FALSE
## [59425] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [59437] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE
## [59449] FALSE FALSE
## [59461] FALSE FALSE
## [59473] FALSE F
## [59485] FALSE FALSE
## [59497] FALSE FALSE
## [59509] FALSE FALSE
## [59521] FALSE F
## [59533] FALSE FALSE
## [59545] FALSE FALSE
## [59557] FALSE FALSE
```

```
## [59569] FALSE FALSE
## [59581] FALSE FALSE
## [59593] FALSE FALSE
## [59605] FALSE F
## [59617] FALSE FALSE
## [59629] FALSE F
## [59641] FALSE F
## [59653] FALSE F
## [59665] FALSE FALSE
## [59677] FALSE F
## [59689] FALSE F
## [59701] FALSE FALSE
## [59713] FALSE F
## [59725] FALSE FALSE
## [59737] FALSE FALSE
## [59749] FALSE F
## [59761] FALSE FALSE
## [59773] FALSE F
## [59785] FALSE FALSE
## [59797] FALSE FALSE
## [59809] FALSE FALSE
## [59821] FALSE FALSE
## [59833] FALSE F
## [59845] FALSE F
## [59857] FALSE FALSE
## [59869] FALSE FALSE
## [59881] FALSE FALSE
## [59893] FALSE FALSE
## [59905] FALSE F
## [59917] FALSE F
## [59929] FALSE F
## [59941] FALSE FALSE
## [59953] FALSE FALSE
## [59965] FALSE F
## [59977] FALSE F
## [59989] FALSE FALSE
## [60001] FALSE FALSE
## [60013] FALSE FALSE
## [60025] FALSE FALSE
## [60037] FALSE F
## [60049] FALSE FALSE
## [60061] FALSE FALSE
## [60073] FALSE FALSE
## [60085] FALSE F
## [60097] FALSE FALSE
## [60109] FALSE FALSE
## [60121] FALSE F
## [60133] FALSE FALSE
## [60145] FALSE FALSE
## [60157] FALSE FALSE
## [60169] FALSE FALSE
## [60181] FALSE FALSE
## [60193] FALSE FALSE
## [60205] FALSE FALSE
```

```
## [60217] FALSE FALSE
## [60229] FALSE FALSE
## [60241] FALSE FALSE
## [60253] FALSE F
## [60265] FALSE FALSE
## [60277] FALSE F
## [60289] FALSE F
## [60301] FALSE F
## [60313] FALSE FALSE
## [60325] FALSE F
## [60337] FALSE FALSE
## [60349] FALSE F
## [60361] FALSE F
## [60373] FALSE FALSE
## [60385] FALSE FALSE
## [60397] FALSE FALSE
## [60409] FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [60421] FALSE F
## [60433] FALSE FALSE
## [60445] FALSE FALSE
## [60457] FALSE FALSE
## [60469] FALSE FALSE
## [60481] FALSE F
## [60493] FALSE F
## [60505] FALSE FALSE
## [60517] FALSE FALSE
## [60529] FALSE FALSE
## [60541] FALSE FALSE
## [60553] FALSE F
## [60565] FALSE F
## [60577] FALSE F
## [60589] FALSE FALSE
## [60601] FALSE FALSE
## [60613] FALSE FALSE
## [60625] FALSE F
## [60637] FALSE FALSE
## [60649] FALSE FALSE
## [60661] FALSE FALSE
## [60673] FALSE FALSE
## [60685] FALSE F
## [60697] FALSE FALSE
## [60709] FALSE FALSE
## [60721] FALSE FALSE
## [60733] FALSE FALSE
## [60745] FALSE F
## [60757] FALSE FALSE
## [60769] FALSE F
## [60781] FALSE F
## [60793] FALSE FALSE
## [60805] FALSE F
## [60817] FALSE F
## [60829] FALSE FALSE
## [60841] FALSE FALSE
## [60853] FALSE FALSE
```

```
## [60865] FALSE FALSE
## [60877] FALSE FALSE
## [60889] FALSE FALSE
## [60901] FALSE F
## [60913] FALSE FALSE
## [60925] FALSE F
## [60937] FALSE F
## [60949] FALSE F
## [60961] FALSE FALSE
## [60973] FALSE FALSE
## [60985] FALSE F
## [60997] FALSE FALSE
## [61009] FALSE F
## [61021] FALSE FALSE
## [61033] FALSE FALSE
## [61045] FALSE FALSE
## [61057] FALSE FALSE
## [61069] FALSE F
## [61081] FALSE FALSE
## [61093] FALSE FALSE
## [61105] FALSE FALSE
## [61117] FALSE FALSE
## [61129] FALSE F
## [61141] FALSE FALSE
## [61153] FALSE FALSE
## [61165] FALSE F
## [61177] FALSE FALSE
## [61189] FALSE FALSE
## [61201] FALSE FALSE
## [61213] FALSE F
## [61225] FALSE F
## [61237] FALSE FALSE
## [61249] FALSE FALSE
## [61261] FALSE FALSE
## [61273] FALSE F
## [61285] FALSE FALSE
## [61297] FALSE FALSE
## [61309] FALSE FALSE
## [61321] FALSE FALSE
## [61333] FALSE FALSE
## [61345] FALSE FALSE
## [61357] FALSE FALSE
## [61369] FALSE FALSE
## [61381] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [61393] FALSE FALSE
## [61405] FALSE FALSE
## [61417] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [61429] FALSE F
## [61441] FALSE FALSE
## [61453] FALSE FALSE
## [61465] FALSE F
## [61477] FALSE FALSE
## [61489] FALSE FALSE
## [61501] FALSE FALSE
```

```
## [61513] FALSE FALSE
## [61525] FALSE FALSE
## [61537] FALSE FALSE
## [61549] FALSE F
## [61561] FALSE FALSE
## [61573] FALSE F
## [61585] FALSE F
## [61597] FALSE F
## [61609] FALSE FALSE
## [61621] FALSE FALSE
## [61633] FALSE F
## [61645] FALSE FALSE
## [61657] FALSE F
## [61669] FALSE FALSE
## [61681] FALSE FALSE
## [61693] FALSE FALSE
## [61705] FALSE FALSE
## [61717] FALSE F
## [61729] FALSE FALSE
## [61741] FALSE FALSE
## [61753] FALSE FALSE
## [61765] FALSE FALSE
## [61777] FALSE F
## [61789] FALSE FALSE
## [61801] FALSE FALSE
## [61813] FALSE FALSE
## [61825] FALSE F
## [61837] FALSE FALSE
## [61849] FALSE FALSE
## [61861] FALSE F
## [61873] FALSE F
## [61885] FALSE FALSE
## [61897] FALSE FALSE
## [61909] FALSE FALSE
## [61921] FALSE F
## [61933] FALSE FALSE
## [61945] FALSE FALSE
## [61957] FALSE FALSE
## [61969] FALSE FALSE
## [61981] FALSE FALSE
## [61993] FALSE FALSE
## [62005] FALSE FALSE
## [62017] FALSE FALSE
## [62029] FALSE FALSE
## [62041] FALSE FALSE
## [62053] FALSE FALSE
## [62065] FALSE F
## [62077] FALSE F
## [62089] FALSE FALSE
## [62101] FALSE FALSE
## [62113] FALSE FALSE
## [62125] FALSE FALSE
## [62137] FALSE FALSE
## [62149] FALSE FALSE
```

```
## [62161] FALSE FALSE
## [62173] FALSE FALSE
## [62185] FALSE FALSE
## [62197] FALSE FALSE
## [62209] FALSE FALSE
## [62221] FALSE F
## [62233] FALSE FALSE
## [62245] FALSE FALSE
## [62257] FALSE FALSE
## [62269] FALSE FALSE
## [62281] FALSE FALSE
## [62293] FALSE FALSE
## [62305] FALSE F
## [62317] FALSE FALSE
## [62329] FALSE FALSE
## [62341] FALSE F
## [62377] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [62389] FALSE FALSE
## [62401] FALSE FALSE
## [62413] FALSE FALSE
## [62425] FALSE F
## [62437] FALSE F
## [62449] FALSE FALSE
## [62461] FALSE FALSE
## [62473] FALSE FALSE
## [62485] FALSE F
## [62497] FALSE FALSE
## [62509] FALSE F
## [62521] FALSE F
## [62533] FALSE FALSE
## [62545] FALSE F
## [62557] FALSE FALSE
## [62569] FALSE F
## [62581] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [62593] FALSE FALSE
## [62605] FALSE FALSE
## [62617] FALSE FALSE
## [62629] FALSE F
## [62641] FALSE FALSE
## [62653] FALSE FALSE
## [62665] FALSE FALSE
## [62677] FALSE FALSE
## [62689] FALSE FALSE
## [62701] FALSE FALSE
## [62713] FALSE F
## [62725] FALSE FALSE
## [62737] FALSE FALSE
## [62749] FALSE FALSE
## [62761] FALSE FALSE
## [62773] FALSE FALSE
## [62785] FALSE FALSE
## [62797] FALSE FALSE
```

```
## [62809] FALSE FALSE
## [62821] FALSE FALSE
## [62833] FALSE FALSE
## [62845] FALSE F
## [62857] FALSE FALSE
## [62869] FALSE F
## [62881] FALSE F
## [62893] FALSE F
## [62905] FALSE FALSE
## [62917] FALSE FALSE
## [62929] FALSE F
## [62941] FALSE FALSE
## [62953] FALSE F
## [62965] FALSE FALSE
## [62977] FALSE FALSE
## [62989] FALSE FALSE
## [63001] FALSE FALSE
## [63013] FALSE F
## [63025] FALSE FALSE
## [63037] FALSE FALSE
## [63049] FALSE FALSE
## [63061] FALSE FALSE
## [63073] FALSE FALSE
## [63085] FALSE F
## [63097] FALSE FALSE
## [63109] FALSE FALSE
## [63121] FALSE FALSE
## [63133] FALSE FALSE
## [63145] FALSE FALSE
## [63157] FALSE F
## [63169] FALSE F
## [63181] FALSE FALSE
## [63193] FALSE FALSE
## [63205] FALSE FALSE
## [63217] FALSE F
## [63229] FALSE FALSE
## [63241] FALSE FALSE
## [63253] FALSE FALSE
## [63265] FALSE FALSE
## [63277] FALSE FALSE
## [63289] FALSE FALSE
## [63301] FALSE FALSE
## [63313] FALSE FALSE
## [63325] FALSE FALSE
## [63337] FALSE FALSE
## [63349] FALSE TRUE
## [63361] TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [63373] FALSE FALSE
## [63385] FALSE FALSE
## [63397] FALSE FALSE
## [63409] FALSE FALSE
## [63421] FALSE FALSE
## [63433] FALSE FALSE
## [63445] FALSE FALSE
```

```
## [63457] FALSE FALSE
## [63469] FALSE FALSE
## [63481] FALSE FALSE
## [63493] FALSE F
## [63505] FALSE FALSE
## [63517] FALSE F
## [63529] FALSE F
## [63541] FALSE F
## [63553] FALSE FALSE
## [63565] FALSE FALSE
## [63577] FALSE FALSE
## [63589] FALSE FALSE
## [63601] FALSE F
## [63613] FALSE FALSE
## [63625] FALSE FALSE
## [63637] FALSE FALSE
## [63649] FALSE FALSE
## [63661] FALSE F
## [63673] FALSE FALSE
## [63685] FALSE FALSE
## [63697] FALSE FALSE
## [63709] FALSE FALSE
## [63721] FALSE FALSE
## [63733] FALSE FALSE
## [63745] FALSE FALSE
## [63757] FALSE FALSE
## [63769] FALSE FALSE
## [63781] FALSE FALSE
## [63793] FALSE FALSE
## [63805] FALSE F
## [63817] FALSE F
## [63829] FALSE FALSE
## [63841] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [63853] FALSE FALSE
## [63865] FALSE F
## [63877] FALSE FALSE
## [63889] FALSE FALSE
## [63901] FALSE FALSE
## [63913] FALSE FALSE
## [63925] FALSE F
## [63937] FALSE FALSE
## [63949] FALSE FALSE
## [63961] FALSE FALSE
## [63973] FALSE FALSE
## [63985] FALSE FALSE
## [63997] FALSE FALSE
## [64009] FALSE F
## [64021] FALSE F
## [64033] FALSE FALSE
## [64045] FALSE FALSE
## [64057] FALSE FALSE
## [64069] FALSE TRUE
## [64081] FALSE FALSE
## [64093] FALSE FALSE
```

```
## [64105] FALSE FALSE
## [64117] FALSE FALSE
## [64129] FALSE FALSE
## [64141] FALSE FALSE
## [64153] FALSE FALSE
## [64165] FALSE F
## [64177] FALSE FALSE
## [64189] FALSE F
## [64201] FALSE FALSE
## [64213] FALSE FALSE
## [64225] FALSE F
## [64237] FALSE F
## [64249] FALSE F
## [64261] FALSE FALSE
## [64273] FALSE FALSE
## [64285] FALSE F
## [64297] FALSE FALSE
## [64309] FALSE F
## [64321] FALSE FALSE
## [64333] FALSE FALSE
## [64345] FALSE FALSE
## [64357] FALSE FALSE
## [64369] FALSE FALSE
## [64381] FALSE FALSE
## [64393] FALSE FALSE
## [64405] FALSE FALSE
## [64417] FALSE FALSE
## [64429] FALSE FALSE
## [64441] FALSE FALSE
## [64453] FALSE F
## [64465] FALSE F
## [64477] FALSE FALSE
## [64489] FALSE FALSE
## [64501] FALSE FALSE
## [64513] FALSE F
## [64525] FALSE FALSE
## [64537] FALSE FALSE
## [64549] FALSE FALSE
## [64561] FALSE FALSE
## [64573] FALSE FALSE
## [64585] FALSE FALSE
## [64597] FALSE FALSE
## [64609] FALSE FALSE
## [64621] FALSE FALSE
## [64633] FALSE FALSE
## [64645] FALSE FALSE
## [64657] FALSE F
## [64669] FALSE FALSE
## [64681] FALSE FALSE
## [64693] FALSE FALSE
## [64705] FALSE FALSE
## [64717] FALSE FALSE
## [64729] FALSE FALSE
## [64741] FALSE FALSE
```

```
## [64753] FALSE FALSE
## [64765] FALSE FALSE
## [64777] FALSE FALSE
## [64789] FALSE F
## [64801] FALSE FALSE
## [64813] FALSE F
## [64825] FALSE FALSE
## [64837] FALSE F
## [64849] FALSE FALSE
## [64861] FALSE FALSE
## [64873] FALSE F
## [64885] FALSE F
## [64897] FALSE F
## [64909] FALSE FALSE
## [64921] FALSE FALSE
## [64933] FALSE FALSE
## [64945] FALSE FALSE
## [64957] FALSE F
## [64969] FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [64981] FALSE FALSE
## [64993] FALSE FALSE
## [65005] FALSE FALSE
## [65017] FALSE F
## [65029] FALSE F
## [65041] FALSE FALSE
## [65053] FALSE FALSE
## [65065] FALSE FALSE
## [65077] FALSE FALSE
## [65089] FALSE FALSE
## [65101] FALSE F
## [65113] FALSE F
## [65125] FALSE FALSE
## [65137] FALSE FALSE
## [65149] FALSE FALSE
## [65161] FALSE F
## [65173] FALSE FALSE
## [65185] FALSE FALSE
## [65197] FALSE FALSE
## [65209] FALSE FALSE
## [65221] FALSE F
## [65233] FALSE FALSE
## [65245] FALSE FALSE
## [65257] FALSE FALSE
## [65269] FALSE FALSE
## [65281] FALSE FALSE
## [65293] FALSE FALSE
## [65305] FALSE F
## [65317] FALSE FALSE
## [65329] FALSE FALSE
## [65341] FALSE FALSE
## [65353] FALSE FALSE
## [65365] FALSE FALSE
## [65377] FALSE FALSE
## [65389] FALSE FALSE
```

```
## [65401] FALSE FALSE
## [65413] FALSE FALSE
## [65425] FALSE FALSE
## [65437] FALSE FALSE
## [65449] FALSE FALSE
## [65461] FALSE F
## [65473] FALSE FALSE
## [65485] FALSE F
## [65497] FALSE FALSE
## [65509] FALSE FALSE
## [65521] FALSE FALSE
## [65533] FALSE F
## [65545] FALSE F
## [65557] FALSE FALSE
## [65569] FALSE FALSE
## [65581] FALSE FALSE
## [65593] FALSE FALSE
## [65605] FALSE F
## [65617] FALSE FALSE
## [65629] FALSE FALSE
## [65641] FALSE FALSE
## [65653] FALSE FALSE
## [65665] FALSE F
## [65677] FALSE F
## [65689] FALSE FALSE
## [65701] FALSE FALSE
## [65713] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [65725] FALSE FALSE
## [65737] FALSE FALSE
## [65749] FALSE F
## [65761] FALSE F
## [65773] FALSE FALSE
## [65785] FALSE FALSE
## [65797] FALSE FALSE
## [65809] FALSE F
## [65821] FALSE FALSE
## [65833] FALSE FALSE
## [65845] FALSE FALSE
## [65857] FALSE FALSE
## [65869] FALSE F
## [65881] FALSE FALSE
## [65893] FALSE FALSE
## [65905] FALSE FALSE
## [65917] FALSE FALSE
## [65929] FALSE FALSE
## [65941] FALSE FALSE
## [65953] FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [65965] FALSE FALSE
## [65977] FALSE FALSE
## [65989] FALSE FALSE
## [66001] FALSE FALSE
## [66013] FALSE FALSE
## [66025] FALSE FALSE
## [66037] FALSE FALSE
```

```
## [66049] FALSE FALSE
## [66061] FALSE FALSE
## [66073] FALSE FALSE
## [66085] FALSE F
## [66097] FALSE FALSE
## [66109] FALSE F
## [66121] FALSE F
## [66133] FALSE F
## [66145] FALSE FALSE
## [66157] FALSE FALSE
## [66169] FALSE FALSE
## [66181] FALSE F
## [66193] FALSE F
## [66205] FALSE FALSE
## [66217] FALSE FALSE
## [66229] FALSE F
## [66241] FALSE FALSE
## [66253] FALSE F
## [66265] FALSE FALSE
## [66277] FALSE FALSE
## [66289] FALSE FALSE
## [66301] FALSE FALSE
## [66313] FALSE F
## [66325] FALSE F
## [66337] FALSE FALSE
## [66349] FALSE FALSE
## [66361] FALSE FALSE
## [66373] FALSE FALSE
## [66385] FALSE FALSE
## [66397] FALSE TRUE FALSE
## [66409] FALSE F
## [66421] FALSE FALSE
## [66433] FALSE FALSE
## [66445] FALSE F
## [66457] FALSE F
## [66469] FALSE FALSE
## [66481] FALSE FALSE
## [66493] FALSE FALSE
## [66505] FALSE FALSE
## [66517] FALSE F
## [66529] FALSE FALSE
## [66541] FALSE FALSE
## [66553] FALSE FALSE
## [66565] FALSE FALSE
## [66577] FALSE FALSE
## [66589] FALSE FALSE
                   [66601] FALSE FALS
                   [66613] FALSE FALSE
## [66625] FALSE FALSE
## [66637] FALSE FALSE
## [66649] FALSE FALSE
## [66661] FALSE FALSE
## [66673] FALSE FALSE
## [66685] FALSE FALSE
```

```
## [66697] FALSE FALSE
## [66709] FALSE FALSE
## [66721] FALSE FALSE
## [66733] FALSE FALSE
## [66745] FALSE FALSE
## [66757] FALSE F
## [66769] FALSE F
## [66781] FALSE F
## [66793] FALSE FALSE
## [66805] FALSE FALSE
## [66817] FALSE F
## [66829] FALSE FALSE
## [66841] FALSE F
## [66853] FALSE F
## [66865] FALSE F
## [66877] FALSE FALSE
## [66889] FALSE FALSE
## [66901] FALSE F
## [66913] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [66925] TRUE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [66937] FALSE FALSE
## [66949] FALSE FALSE
## [66961] FALSE F
## [66973] FALSE FALSE
## [66985] FALSE FALSE
## [66997] FALSE FALSE
## [67009] FALSE FALSE
## [67021] FALSE FALSE
## [67033] FALSE FALSE
## [67045] FALSE F
## [67057] FALSE F
## [67069] FALSE TRUE
## [67081] FALSE FALSE
## [67093] FALSE FALSE
## [67105] FALSE F
## [67117] FALSE FALSE
## [67129] FALSE FALSE
## [67141] FALSE FALSE
## [67153] FALSE FALSE
## [67165] FALSE F
## [67177] FALSE FALSE
## [67189] FALSE FALSE
## [67201] FALSE FALSE
## [67213] FALSE FALSE
## [67225] FALSE FALSE
## [67237] FALSE FALSE
## [67249] FALSE F
## [67261] FALSE F
## [67273] FALSE FALSE
## [67285] FALSE FALSE
## [67297] FALSE FALSE
## [67309] FALSE FALSE
## [67321] FALSE FALSE
## [67333] FALSE FALSE
```

```
## [67345] FALSE F
## [67357] FALSE FALSE
## [67369] FALSE FALSE
## [67381] FALSE FALSE
## [67393] FALSE FALSE
## [67405] FALSE F
## [67417] FALSE FALSE
## [67429] FALSE F
## [67441] FALSE FALSE
## [67453] FALSE FALSE
## [67465] FALSE FALSE
## [67477] FALSE F
## [67489] FALSE F
## [67501] FALSE FALSE
## [67513] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [67525] FALSE F
## [67537] FALSE FALSE
## [67549] FALSE F
## [67561] FALSE FALSE
## [67573] FALSE FALSE
## [67585] FALSE FALSE
## [67597] FALSE FALSE
## [67609] FALSE FALSE
## [67621] FALSE FALSE
## [67633] FALSE FALSE
## [67645] FALSE FALSE
## [67657] FALSE FALSE
## [67669] FALSE FALSE
## [67681] FALSE FALSE
## [67693] FALSE F
## [67705] FALSE F
## [67717] FALSE FALSE
## [67729] FALSE FALSE
## [67741] FALSE FALSE
## [67753] FALSE F
## [67765] FALSE FALSE
## [67777] FALSE FALSE
## [67789] FALSE FALSE
## [67801] FALSE FALSE
## [67813] FALSE FALSE
## [67825] FALSE FALSE
## [67837] FALSE F
## [67849] FALSE FALSE
## [67861] FALSE FALSE
## [67873] FALSE FALSE
## [67885] FALSE FALSE
## [67897] FALSE TRUE FALSE
## [67909] FALSE F
## [67921] FALSE FALSE
## [67933] FALSE FALSE
## [67945] FALSE FALSE
## [67957] FALSE FALSE
## [67969] FALSE FALSE
## [67981] FALSE FALSE
```

```
## [67993] FALSE FALSE
## [68005] FALSE FALSE
## [68017] FALSE FALSE
## [68029] FALSE F
## [68041] FALSE FALSE
## [68053] FALSE F
## [68065] FALSE F
## [68077] FALSE F
## [68089] FALSE FALSE
## [68101] FALSE FALSE
## [68113] FALSE F
## [68125] FALSE FALSE
## [68137] FALSE F
## [68149] FALSE FALSE
## [68161] FALSE FALSE
## [68173] FALSE FALSE
## [68185] FALSE FALSE
## [68197] FALSE F
## [68209] FALSE FALSE
## [68221] FALSE FALSE
## [68233] FALSE FALSE
## [68245] FALSE FALSE
## [68257] FALSE F
## [68269] FALSE F
## [68281] FALSE FALSE
## [68293] FALSE FALSE
## [68305] FALSE FALSE
## [68317] FALSE FALSE
## [68329] FALSE FALSE
## [68341] FALSE F
## [68353] FALSE F
## [68365] FALSE FALSE
## [68377] FALSE FALSE
## [68389] FALSE FALSE
## [68401] FALSE F
## [68413] FALSE FALSE
## [68425] FALSE FALSE
## [68437] FALSE FALSE
## [68449] FALSE FALSE
## [68461] FALSE F
## [68473] FALSE FALSE
## [68485] FALSE FALSE
## [68497] FALSE FALSE
## [68509] FALSE FALSE
## [68521] FALSE FALSE
## [68533] FALSE FALSE
## [68545] FALSE F
## [68557] FALSE FALSE
## [68569] FALSE FALSE
## [68581] FALSE FALSE
## [68593] FALSE FALSE
## [68605] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [68617] FALSE FALSE
## [68629] FALSE FALSE
```

```
## [68641] FALSE F
## [68653] FALSE FALSE
## [68665] FALSE FALSE
## [68677] TRUE FALSE FA
## [68689] FALSE FALSE
## [68701] FALSE F
## [68713] FALSE FALSE
## [68725] FALSE F
## [68737] FALSE FALSE
## [68749] FALSE FALSE
## [68761] FALSE F
## [68773] FALSE FALSE
## [68785] FALSE F
## [68797] FALSE FALSE
## [68809] FALSE FALSE
## [68821] FALSE FALSE
## [68833] FALSE FALSE
## [68845] FALSE F
## [68857] FALSE FALSE
## [68869] FALSE FALSE
## [68881] FALSE FALSE
## [68893] FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [68905] FALSE F
## [68917] FALSE FALSE
## [68929] FALSE FALSE
## [68941] FALSE FALSE
## [68953] FALSE FALSE
## [68965] FALSE F
## [68977] FALSE FALSE
## [68989] FALSE F
## [69001] FALSE F
## [69013] FALSE FALSE
## [69025] FALSE F
## [69037] FALSE FALSE
## [69049] FALSE F
## [69061] FALSE FALSE
## [69073] FALSE FALSE
## [69085] FALSE FALSE
## [69097] FALSE FALSE
## [69109] FALSE FALSE
## [69121] FALSE FALSE
## [69133] FALSE FALSE
## [69145] FALSE FALSE
## [69157] FALSE FALSE
## [69169] FALSE FALSE
## [69181] FALSE FALSE
## [69193] FALSE F
## [69205] FALSE F
## [69217] FALSE FALSE
## [69229] FALSE FALSE
## [69241] FALSE FALSE
## [69253] FALSE FALSE
## [69265] FALSE FALSE
## [69277] FALSE FALSE
```

```
## [69289] FALSE F
## [69301] FALSE FALSE
## [69313] FALSE FALSE
## [69325] FALSE F
## [69337] FALSE FALSE
## [69349] FALSE F
## [69361] FALSE F
## [69373] FALSE F
## [69385] FALSE FALSE
## [69397] FALSE FALSE
## [69409] FALSE FALSE
## [69421] FALSE FALSE
## [69433] FALSE F
## [69445] FALSE F
## [69457] FALSE FALSE
## [69469] FALSE FALSE
## [69481] FALSE FALSE
## [69493] FALSE F
## [69505] FALSE FALSE
## [69517] FALSE FALSE
## [69529] FALSE FALSE
## [69541] FALSE FALSE
## [69553] FALSE F
## [69565] FALSE F
## [69577] FALSE FALSE
## [69589] FALSE FALSE
## [69601] FALSE FALSE
## [69613] FALSE FALSE
## [69625] FALSE F
## [69637] FALSE F
## [69649] FALSE F
## [69661] FALSE FALSE
## [69673] FALSE FALSE
## [69685] FALSE F
## [69697] FALSE F
## [69709] FALSE FALSE
## [69721] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [69733] FALSE FALSE
## [69745] FALSE FALSE
## [69757] FALSE FALSE
## [69769] FALSE FALSE
## [69781] FALSE F
## [69793] FALSE FALSE
## [69805] FALSE FALSE
## [69817] FALSE FALSE
## [69829] FALSE FALSE
## [69841] FALSE F
## [69853] FALSE F
## [69865] FALSE FALSE
## [69877] FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [69889] FALSE FALSE
## [69901] FALSE FALSE
## [69913] FALSE FALSE
## [69925] FALSE FALSE
```

```
## [69937] FALSE FALSE
## [69949] FALSE FALSE
## [69961] FALSE FALSE
## [69973] FALSE F
## [69985] FALSE FALSE
## [69997] FALSE F
## [70009] FALSE F
## [70021] FALSE F
## [70033] FALSE FALSE
## [70045] FALSE FALSE
## [70057] FALSE FALSE
## [70069] FALSE FALSE
## [70081] FALSE F
## [70093] FALSE F
## [70105] FALSE FALSE
## [70117] FALSE FALSE
## [70129] FALSE FALSE
## [70141] FALSE F
## [70153] FALSE FALSE
## [70165] FALSE FALSE
## [70177] FALSE FALSE
## [70189] FALSE FALSE
## [70201] FALSE F
## [70213] FALSE FALSE
## [70225] FALSE FALSE
## [70237] FALSE FALSE
## [70249] FALSE FALSE
## [70261] FALSE FALSE
## [70273] FALSE FALSE
## [70285] FALSE F
## [70297] FALSE FALSE
## [70309] FALSE FALSE
## [70321] FALSE FALSE
## [70333] FALSE FALSE
## [70345] FALSE F
## [70357] FALSE FALSE
## [70369] FALSE FALSE
## [70381] FALSE FALSE
## [70393] FALSE FALSE
## [70405] FALSE F
## [70417] FALSE FALSE
## [70429] FALSE F
## [70441] FALSE FALSE
## [70453] FALSE FALSE
## [70465] FALSE F
## [70477] FALSE FALSE
## [70489] FALSE F
## [70501] FALSE F
## [70513] FALSE FALSE
## [70525] FALSE F
## [70537] FALSE FALSE
## [70549] FALSE FALSE
## [70561] FALSE FALSE
## [70573] FALSE FALSE
```

```
## [70585] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE
## [70597] FALSE FALSE
## [70609] FALSE FALSE
## [70621] FALSE F
## [70633] FALSE FALSE
## [70645] FALSE F
## [70657] FALSE F
## [70669] FALSE F
## [70681] FALSE FALSE
## [70693] FALSE FALSE
## [70705] FALSE FALSE
## [70717] FALSE FALSE
## [70729] FALSE F
## [70741] FALSE F
## [70753] FALSE FALSE
## [70765] FALSE FALSE
## [70777] FALSE FALSE
## [70789] FALSE F
## [70801] FALSE FALSE
## [70813] FALSE F
## [70825] FALSE FALSE
## [70837] FALSE FALSE
## [70849] FALSE TRUE
## [70861] FALSE TRUE FALSE FA
## [70873] TRUE FALSE FA
## [70885] FALSE F
## [70897] FALSE FALSE
## [70909] FALSE FALSE
## [70921] FALSE FALSE
## [70933] FALSE F
## [70945] FALSE F
## [70957] FALSE FALSE
## [70969] FALSE FALSE
## [70981] FALSE FALSE
## [70993] FALSE F
## [71005] FALSE FALSE
## [71017] FALSE FALSE
## [71029] FALSE FALSE
## [71041] FALSE FALSE
## [71053] FALSE F
## [71065] FALSE FALSE
## [71077] FALSE F
## [71089] FALSE FALSE
## [71101] FALSE FALSE
## [71113] FALSE FALSE
## [71125] FALSE FALSE
## [71137] FALSE F
## [71149] FALSE F
## [71161] FALSE FALSE
## [71173] FALSE FALSE
## [71185] FALSE FALSE
## [71197] FALSE FALSE
## [71209] FALSE FALSE
## [71221] FALSE FALSE
```

```
## [71233] FALSE F
## [71245] FALSE FALSE
## [71257] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [71269] FALSE F
## [71281] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [71293] FALSE F
## [71305] FALSE F
## [71317] FALSE F
## [71329] FALSE FALSE
## [71341] FALSE FALSE
## [71353] FALSE F
## [71365] FALSE FALSE
## [71377] FALSE F
## [71389] FALSE F
## [71401] FALSE FALSE
## [71413] FALSE FALSE
## [71425] FALSE F
## [71437] FALSE F
## [71449] FALSE FALSE
## [71461] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [71485] TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [71497] FALSE F
## [71509] FALSE F
## [71521] FALSE FALSE
## [71533] FALSE FALSE
## [71545] FALSE F
## [71557] FALSE FALSE
## [71569] FALSE FALSE
## [71581] FALSE F
## [71593] FALSE F
## [71605] FALSE FALSE
## [71617] TRUE FALSE FA
## [71629] FALSE F
## [71641] FALSE F
## [71653] FALSE FALSE
## [71665] FALSE FALSE
## [71677] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [71689] FALSE FALSE
## [71701] FALSE F
## [71713] FALSE FALSE
## [71725] FALSE F
## [71737] FALSE FALSE
## [71749] FALSE FALSE
## [71761] FALSE FALSE
## [71773] FALSE FALSE
## [71785] FALSE F
## [71797] FALSE F
## [71809] FALSE FALSE
## [71821] FALSE FALSE
## [71833] FALSE FALSE
## [71845] FALSE FALSE
## [71857] FALSE FALSE
## [71869] FALSE FALSE
```

```
## [71881] FALSE FALSE
## [71893] FALSE FALSE
## [71905] FALSE FALSE
## [71917] FALSE FALSE
## [71929] TRUE FALSE FA
## [71941] FALSE F
## [71953] FALSE FALSE
## [71965] FALSE F
## [71977] FALSE FALSE
## [71989] FALSE FALSE
## [72001] FALSE F
## [72013] FALSE F
## [72025] FALSE F
## [72037] FALSE FALSE
## [72049] FALSE F
## [72061] FALSE F
## [72073] FALSE FALSE
## [72085] FALSE F
## [72097] FALSE FALSE
## [72109] FALSE FALSE
## [72121] FALSE FALSE
## [72133] FALSE FALSE
## [72145] FALSE F
## [72157] FALSE F
## [72169] FALSE FALSE
## [72181] FALSE FALSE
## [72193] FALSE FALSE
## [72205] FALSE F
## [72217] FALSE FALSE
## [72229] FALSE F
## [72241] FALSE FALSE
## [72253] FALSE FALSE
## [72265] FALSE F
## [72277] FALSE F
## [72289] FALSE F
## [72301] FALSE FALSE
## [72313] FALSE FALSE
## [72325] FALSE FALSE
## [72337] FALSE FALSE
## [72349] FALSE F
## [72361] FALSE FALSE
## [72373] FALSE FALSE
## [72385] FALSE FALSE
## [72397] FALSE FALSE
## [72409] FALSE F
## [72421] FALSE FALSE
## [72433] FALSE F
## [72445] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [72469] TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [72481] FALSE FALSE
## [72493] FALSE FALSE
## [72505] FALSE FALSE
## [72517] FALSE FALSE
```

```
## [72529] FALSE FALSE
## [72541] FALSE FALSE
## [72553] FALSE FALSE
## [72565] FALSE F
## [72577] FALSE FALSE
## [72589] FALSE F
## [72601] FALSE F
## [72613] FALSE F
## [72625] FALSE FALSE
## [72637] FALSE FALSE
## [72649] FALSE F
## [72661] FALSE F
## [72673] FALSE F
## [72685] FALSE FALSE
## [72697] FALSE FALSE
## [72709] FALSE FALSE
## [72721] FALSE FALSE
## [72733] FALSE F
## [72745] FALSE FALSE
## [72757] FALSE FALSE
## [72769] FALSE FALSE
## [72781] FALSE FALSE
## [72793] FALSE F
## [72805] FALSE F
## [72817] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [72829] FALSE FALSE
## [72841] FALSE FALSE
## [72853] FALSE FALSE
## [72865] FALSE F
## [72877] FALSE F
## [72889] FALSE FALSE
## [72901] FALSE FALSE
## [72913] FALSE FALSE
## [72925] FALSE F
## [72937] FALSE F
## [72949] FALSE FALSE
## [72961] FALSE FALSE
## [72973] FALSE FALSE
## [72985] FALSE FALSE
## [72997] FALSE F
## [73009] FALSE FALSE
## [73021] FALSE FALSE
## [73033] FALSE FALSE
## [73045] FALSE FALSE
## [73057] FALSE FALSE
## [73069] FALSE FALSE
## [73081] FALSE F
## [73093] FALSE F
## [73105] FALSE FALSE
## [73117] FALSE FALSE
## [73129] FALSE FALSE
## [73141] FALSE FALSE
## [73153] FALSE FALSE
## [73165] FALSE FALSE
```

```
## [73177] FALSE FALSE
## [73189] FALSE FALSE
## [73201] FALSE FALSE
## [73213] FALSE F
## [73225] FALSE FALSE
## [73237] FALSE F
## [73249] FALSE F
## [73261] FALSE F
## [73273] FALSE FALSE
## [73285] FALSE FALSE
## [73297] FALSE F
## [73309] FALSE F
## [73321] FALSE F
## [73333] FALSE FALSE
## [73345] FALSE FALSE
## [73357] FALSE FALSE
## [73369] FALSE FALSE
## [73381] FALSE F
## [73393] FALSE FALSE
## [73405] FALSE FALSE
## [73417] FALSE F
## [73429] FALSE FALSE
## [73441] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [73453] FALSE F
## [73465] FALSE FALSE
## [73477] FALSE FALSE
## [73489] FALSE FALSE
## [73501] FALSE FALSE
## [73513] FALSE FALSE
## [73525] FALSE F
## [73537] FALSE F
## [73549] FALSE FALSE
## [73561] FALSE FALSE
## [73573] FALSE FALSE
## [73585] FALSE F
## [73597] FALSE FALSE
## [73609] FALSE FALSE
## [73621] FALSE FALSE
## [73633] FALSE FALSE
## [73645] FALSE F
## [73657] FALSE FALSE
## [73669] FALSE FALSE
## [73681] FALSE FALSE
## [73693] FALSE FALSE
## [73705] FALSE FALSE
## [73717] FALSE F
## [73729] FALSE F
## [73741] FALSE FALSE
## [73753] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [73765] FALSE FALSE
## [73777] FALSE FALSE
## [73789] FALSE FALSE
## [73801] FALSE FALSE
## [73813] FALSE FALSE
```

```
## [73825] FALSE FALSE
## [73837] FALSE FALSE
## [73849] FALSE FALSE
## [73861] FALSE F
## [73873] FALSE FALSE
## [73885] FALSE F
## [73897] FALSE F
## [73909] FALSE F
## [73921] FALSE FALSE
## [73933] FALSE FALSE
## [73945] FALSE FALSE
## [73957] FALSE FALSE
## [73969] FALSE F
## [73981] FALSE F
## [73993] FALSE FALSE
## [74005] FALSE F
## [74017] FALSE FALSE
## [74029] FALSE F
## [74041] FALSE FALSE
## [74053] FALSE FALSE
## [74065] FALSE FALSE
## [74077] FALSE FALSE
## [74089] FALSE F
## [74101] FALSE FALSE
## [74113] FALSE FALSE
## [74125] FALSE FALSE
## [74137] FALSE FALSE
## [74149] FALSE FALSE
## [74161] FALSE FALSE
## [74173] FALSE F
## [74185] FALSE FALSE
## [74197] FALSE FALSE
## [74209] FALSE FALSE
## [74221] FALSE FALSE
## [74233] FALSE F
## [74245] FALSE FALSE
## [74257] FALSE FALSE
## [74269] FALSE FALSE
## [74281] FALSE FALSE
## [74293] FALSE F
## [74305] FALSE FALSE
## [74317] FALSE F
## [74329] FALSE FALSE
## [74341] FALSE FALSE
## [74353] FALSE FALSE
## [74365] FALSE FALSE
## [74377] FALSE F
## [74389] FALSE F
## [74401] FALSE FALSE
## [74413] FALSE FALSE
## [74425] TRUE FALSE FA
## [74437] FALSE FALSE
## [74449] FALSE FALSE
## [74461] FALSE FALSE
```

```
## [74473] FALSE FALSE
## [74485] FALSE FALSE
## [74497] FALSE FALSE
## [74509] FALSE F
## [74521] FALSE FALSE
## [74533] FALSE F
## [74545] FALSE F
## [74557] FALSE F
## [74569] FALSE FALSE
## [74581] FALSE FALSE
## [74593] FALSE FALSE
## [74605] FALSE F
## [74617] FALSE F
## [74629] FALSE F
## [74641] FALSE FALSE
## [74653] FALSE FALSE
## [74665] FALSE FALSE
## [74677] FALSE F
## [74689] FALSE FALSE
## [74701] FALSE FALSE
## [74713] FALSE FALSE
## [74725] FALSE FALSE
## [74737] FALSE FALSE
## [74749] TRUE FALSE FA
## [74761] FALSE FALSE
## [74773] FALSE FALSE
## [74785] FALSE FALSE
## [74797] FALSE FALSE
## [74809] FALSE FALSE
## [74821] FALSE F
## [74833] FALSE FALSE
## [74845] FALSE FALSE
## [74857] FALSE FALSE
## [74869] FALSE FALSE
## [74881] FALSE F
## [74893] FALSE FALSE
## [74905] FALSE FALSE
## [74917] FALSE FALSE
## [74929] FALSE FALSE
## [74941] FALSE F
## [74953] FALSE FALSE
## [74965] FALSE F
## [74977] FALSE FALSE
## [74989] FALSE FALSE
## [75001] FALSE FALSE
## [75013] FALSE FALSE
## [75025] FALSE F
## [75037] FALSE F
## [75049] FALSE FALSE
## [75061] FALSE FALSE
## [75073] FALSE FALSE
## [75085] FALSE FALSE
## [75097] FALSE FALSE
## [75109] FALSE FALSE
```

```
## [75121] FALSE FALSE
## [75133] FALSE FALSE
## [75145] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [75157] FALSE F
## [75169] FALSE FALSE
## [75181] FALSE F
## [75193] FALSE FALSE
## [75205] FALSE F
## [75217] FALSE FALSE
## [75229] FALSE FALSE
## [75241] FALSE FALSE
## [75253] FALSE FALSE
## [75265] FALSE F
## [75277] FALSE F
## [75289] FALSE FALSE
## [75301] FALSE FALSE
## [75313] FALSE FALSE
## [75325] FALSE F
## [75337] FALSE FALSE
## [75349] FALSE FALSE
## [75361] FALSE FALSE
## [75373] FALSE FALSE
## [75385] FALSE F
## [75397] FALSE F
## [75409] FALSE FALSE
## [75421] FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [75433] FALSE FALSE
## [75445] FALSE FALSE
## [75457] FALSE FALSE
## [75469] FALSE F
## [75481] FALSE F
## [75493] FALSE FALSE
## [75505] FALSE FALSE
## [75517] FALSE FALSE
## [75529] FALSE F
## [75541] FALSE FALSE
## [75553] FALSE FALSE
## [75565] FALSE FALSE
## [75577] FALSE FALSE
## [75589] FALSE F
## [75601] FALSE FALSE
## [75613] FALSE F
## [75625] FALSE FALSE
## [75637] FALSE FALSE
## [75649] FALSE FALSE
## [75661] FALSE FALSE
## [75673] FALSE F
## [75685] FALSE F
## [75697] FALSE FALSE
## [75709] FALSE FALSE
## [75721] FALSE FALSE
## [75733] FALSE FALSE
## [75745] FALSE FALSE
## [75757] FALSE FALSE
```

```
## [75769] FALSE FALSE
## [75781] FALSE FALSE
## [75793] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [75805] FALSE F
## [75817] FALSE FALSE
## [75829] FALSE F
## [75841] FALSE F
## [75853] FALSE F
## [75865] FALSE FALSE
## [75877] FALSE FALSE
## [75889] FALSE FALSE
## [75901] FALSE FALSE
## [75913] FALSE F
## [75925] FALSE F
## [75937] FALSE FALSE
## [75949] FALSE FALSE
## [75961] FALSE FALSE
## [75973] FALSE F
## [75985] FALSE FALSE
## [75997] FALSE FALSE
## [76009] FALSE FALSE
## [76021] FALSE FALSE
## [76033] FALSE FALSE
## [76045] FALSE F
## [76057] FALSE FALSE
## [76069] FALSE FALSE
## [76081] FALSE FALSE
## [76093] FALSE F
## [76105] FALSE FALSE
## [76117] FALSE F
## [76129] FALSE F
## [76141] FALSE FALSE
## [76153] FALSE FALSE
## [76165] FALSE FALSE
## [76177] FALSE F
## [76189] FALSE FALSE
## [76201] FALSE FALSE
## [76213] FALSE FALSE
## [76225] FALSE FALSE
## [76237] FALSE F
## [76249] FALSE FALSE
## [76261] FALSE F
## [76273] FALSE FALSE
## [76285] FALSE F
## [76297] FALSE F
## [76309] FALSE F
## [76321] FALSE F
## [76333] FALSE F
## [76345] FALSE FALSE
## [76357] FALSE FALSE
## [76369] FALSE FALSE
## [76381] FALSE FALSE
## [76393] FALSE FALSE
## [76405] FALSE FALSE
```

```
## [76417] FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [76429] FALSE FALSE
## [76441] FALSE FALSE
## [76453] FALSE F
## [76465] FALSE FALSE
## [76477] FALSE F
## [76489] FALSE F
## [76501] FALSE F
## [76513] FALSE FALSE
## [76525] FALSE F
## [76537] FALSE FALSE
## [76549] FALSE FALSE
## [76561] FALSE F
## [76573] FALSE F
## [76585] FALSE F
## [76597] FALSE FALSE
## [76609] FALSE FALSE
## [76621] FALSE F
## [76633] FALSE FALSE
## [76645] FALSE FALSE
## [76657] FALSE FALSE
## [76669] FALSE FALSE
## [76681] FALSE F
## [76693] FALSE F
## [76705] FALSE FALSE
## [76717] FALSE FALSE
## [76729] FALSE FALSE
## [76741] FALSE TRUE
## [76753] FALSE FALSE
## [76765] FALSE F
## [76777] FALSE F
## [76789] FALSE FALSE
## [76801] FALSE FALSE
## [76813] FALSE FALSE
## [76825] FALSE F
## [76837] FALSE FALSE
## [76849] FALSE FALSE
## [76861] FALSE FALSE
## [76873] FALSE FALSE
## [76885] FALSE F
## [76897] FALSE FALSE
## [76909] FALSE F
## [76921] FALSE FALSE
## [76933] FALSE FALSE
## [76945] FALSE F
## [76957] FALSE FALSE
## [76969] FALSE F
## [76981] FALSE F
## [76993] FALSE FALSE
## [77005] FALSE F
## [77017] FALSE FALSE
## [77029] FALSE FALSE
## [77041] FALSE FALSE
## [77053] FALSE FALSE
```

```
## [77065] FALSE FALSE
## [77077] FALSE FALSE
## [77089] FALSE FALSE
## [77101] FALSE F
## [77113] FALSE FALSE
## [77125] FALSE F
## [77137] FALSE FALSE
## [77149] FALSE F
## [77161] FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE
## [77173] FALSE FALSE
## [77185] FALSE FALSE
## [77197] FALSE FALSE
## [77209] FALSE F
## [77221] FALSE F
## [77233] FALSE FALSE
## [77245] FALSE F
## [77257] FALSE FALSE
## [77269] FALSE F
## [77281] FALSE FALSE
## [77293] FALSE FALSE
## [77305] FALSE FALSE
## [77317] FALSE FALSE
## [77329] FALSE F
## [77341] FALSE F
## [77353] FALSE FALSE
## [77365] FALSE FALSE
## [77377] FALSE FALSE
## [77389] FALSE FALSE
## [77401] FALSE FALSE
## [77413] FALSE F
## [77425] FALSE F
## [77437] FALSE FALSE
## [77449] FALSE FALSE
## [77461] FALSE FALSE
## [77473] FALSE F
## [77485] FALSE FALSE
## [77497] FALSE FALSE
## [77509] FALSE FALSE
## [77521] FALSE FALSE
## [77533] FALSE F
## [77545] FALSE FALSE
## [77557] FALSE F
## [77569] FALSE FALSE
## [77581] FALSE FALSE
## [77593] FALSE FALSE
## [77605] FALSE F
## [77617] FALSE F
## [77629] FALSE F
## [77641] FALSE FALSE
## [77653] FALSE FALSE
## [77665] FALSE F
## [77677] FALSE FALSE
## [77689] FALSE FALSE
## [77701] FALSE FALSE
```

```
## [77713] FALSE FALSE
## [77725] FALSE FALSE
## [77737] FALSE FALSE
## [77749] FALSE F
## [77761] FALSE FALSE
## [77773] FALSE F
## [77785] FALSE FALSE
## [77797] FALSE F
## [77809] FALSE FALSE
## [77821] FALSE FALSE
## [77833] FALSE FALSE
## [77845] FALSE FALSE
## [77857] FALSE F
## [77869] FALSE F
## [77881] FALSE FALSE
## [77893] FALSE FALSE
## [77905] FALSE F
## [77917] FALSE F
## [77929] FALSE FALSE
## [77941] FALSE FALSE
## [77953] FALSE FALSE
## [77965] FALSE FALSE
## [77977] FALSE FALSE
## [77989] FALSE F
## [78001] FALSE FALSE
## [78013] FALSE FALSE
## [78025] FALSE F
## [78037] FALSE FALSE
## [78049] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [78061] TRUE TRUE TRUE FALSE FALS
## [78073] FALSE FALSE
## [78085] FALSE FALSE
## [78097] FALSE FALSE
## [78109] FALSE FALSE
## [78121] FALSE F
## [78133] FALSE FALSE
## [78145] FALSE FALSE
## [78157] FALSE FALSE
## [78169] FALSE FALSE
## [78181] FALSE F
## [78193] FALSE FALSE
## [78205] FALSE F
## [78217] FALSE F
## [78229] FALSE FALSE
## [78241] FALSE FALSE
## [78253] FALSE FALSE
## [78265] FALSE F
## [78277] FALSE F
## [78289] FALSE FALSE
## [78301] FALSE FALSE
## [78313] FALSE FALSE
## [78325] FALSE FALSE
## [78337] FALSE FALSE
## [78349] FALSE FALSE
```

```
## [78361] FALSE FALSE
## [78373] FALSE FALSE
## [78385] FALSE FALSE
## [78397] FALSE F
## [78409] FALSE FALSE
## [78421] FALSE F
## [78433] FALSE F
## [78445] FALSE F
## [78457] FALSE FALSE
## [78469] FALSE FALSE
## [78481] FALSE FALSE
## [78493] FALSE F
## [78505] FALSE F
## [78517] FALSE F
## [78529] FALSE FALSE
## [78541] FALSE FALSE
## [78553] FALSE FALSE
## [78565] FALSE F
## [78577] FALSE FALSE
## [78589] FALSE FALSE
## [78601] FALSE FALSE
## [78613] FALSE FALSE
## [78625] FALSE F
## [78637] FALSE F
## [78649] FALSE FALSE
## [78661] FALSE FALSE
## [78673] FALSE FALSE
## [78685] FALSE FALSE
## [78697] FALSE FALSE
## [78709] FALSE F
## [78721] FALSE FALSE
## [78733] FALSE FALSE
## [78745] FALSE FALSE
## [78757] FALSE FALSE
## [78769] FALSE F
## [78781] FALSE FALSE
## [78793] FALSE FALSE
## [78805] FALSE FALSE
## [78817] FALSE FALSE
## [78829] FALSE F
## [78841] FALSE FALSE
## [78853] FALSE F
## [78865] FALSE FALSE
## [78877] FALSE FALSE
## [78889] FALSE FALSE
## [78901] FALSE FALSE
## [78913] FALSE F
## [78925] FALSE F
## [78937] FALSE FALSE
## [78949] FALSE FALSE
## [78961] FALSE FALSE
## [78973] FALSE FALSE
## [78985] FALSE FALSE
## [78997] FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE
```

```
## [79009] FALSE FALSE
## [79021] FALSE FALSE
## [79033] FALSE FALSE
## [79045] FALSE F
## [79057] FALSE FALSE
## [79069] FALSE F
## [79081] FALSE F
## [79093] FALSE FALSE
## [79105] FALSE FALSE
## [79117] FALSE FALSE
## [79129] FALSE FALSE
## [79141] FALSE F
## [79153] FALSE F
## [79165] FALSE FALSE
## [79177] FALSE FALSE
## [79189] FALSE FALSE
## [79201] FALSE F
## [79213] FALSE F
## [79225] FALSE FALSE
## [79237] FALSE FALSE
## [79249] FALSE FALSE
## [79261] FALSE FALSE
## [79273] FALSE F
## [79285] FALSE F
## [79297] FALSE FALSE
## [79309] FALSE FALSE
## [79321] FALSE FALSE
## [79333] FALSE FALSE
## [79345] FALSE FALSE
## [79357] FALSE F
## [79369] FALSE FALSE
## [79381] FALSE FALSE
## [79393] FALSE FALSE
## [79405] FALSE FALSE
## [79417] FALSE F
## [79429] FALSE FALSE
## [79441] FALSE FALSE
## [79453] FALSE FALSE
## [79465] FALSE FALSE
## [79477] FALSE F
## [79489] FALSE FALSE
## [79501] FALSE FALSE
## [79513] FALSE FALSE
## [79525] FALSE F
## [79537] FALSE FALSE
## [79549] FALSE FALSE
## [79561] FALSE F
## [79573] FALSE FALSE
## [79585] FALSE FALSE
## [79597] FALSE FALSE
## [79609] FALSE FALSE
## [79621] FALSE FALSE
## [79633] FALSE FALSE
## [79645] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
## [79657] FALSE FALSE
## [79669] FALSE FALSE
## [79681] FALSE FALSE
## [79693] FALSE F
## [79705] FALSE FALSE
## [79717] FALSE F
## [79729] FALSE F
## [79741] FALSE FALSE
## [79753] FALSE FALSE
## [79765] FALSE F
## [79777] FALSE FALSE
## [79789] FALSE FALSE
## [79801] FALSE F
## [79813] FALSE FALSE
## [79825] FALSE FALSE
## [79837] FALSE FALSE
## [79849] FALSE FALSE
## [79861] FALSE F
## [79873] FALSE FALSE
## [79885] FALSE FALSE
## [79897] FALSE FALSE
## [79909] FALSE FALSE
## [79921] FALSE F
## [79933] FALSE FALSE
## [79945] FALSE FALSE
## [79957] FALSE FALSE
## [79969] FALSE F
## [79981] FALSE FALSE
## [79993] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [80005] FALSE F
## [80017] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [80029] FALSE FALSE
## [80041] FALSE F
## [80053] FALSE FALSE
## [80065] FALSE F
## [80077] FALSE FALSE
## [80089] FALSE FALSE
## [80101] FALSE FALSE
## [80113] FALSE FALSE
## [80125] FALSE F
## [80137] FALSE FALSE
## [80149] FALSE FALSE
## [80161] FALSE FALSE
## [80173] FALSE FALSE
## [80185] FALSE FALSE
## [80197] FALSE FALSE
## [80209] FALSE FALSE TRUE FALSE FA
## [80221] FALSE FALSE
## [80233] FALSE FALSE
## [80245] FALSE F
## [80257] FALSE F
## [80269] FALSE FALSE
## [80281] FALSE FALSE
## [80293] FALSE FALSE
```

```
## [80305] FALSE FALSE
## [80317] FALSE FALSE
## [80329] FALSE FALSE
## [80341] FALSE F
## [80353] FALSE FALSE
## [80365] FALSE F
## [80377] FALSE F
## [80389] FALSE F
## [80401] FALSE FALSE
## [80413] FALSE FALSE
## [80425] FALSE F
## [80437] FALSE F
## [80449] FALSE F
## [80461] FALSE FALSE
## [80473] FALSE FALSE
## [80485] FALSE F
## [80497] FALSE F
## [80509] FALSE F
## [80521] FALSE FALSE
## [80533] FALSE FALSE
## [80545] FALSE FALSE
## [80557] FALSE FALSE
## [80569] FALSE F
## [80581] FALSE F
## [80593] FALSE FALSE
## [80605] FALSE F
## [80617] FALSE F
## [80629] FALSE F
## [80641] FALSE F
## [80653] FALSE F
## [80665] FALSE F
## [80677] FALSE FALSE
## [80689] FALSE F
## [80701] FALSE FALSE
## [80713] FALSE F
## [80725] FALSE FALSE
## [80737] FALSE FALSE
## [80749] FALSE FALSE
## [80761] FALSE FALSE
## [80773] FALSE F
## [80785] FALSE FALSE
## [80797] FALSE FALSE
## [80809] FALSE FALSE
## [80821] FALSE F
## [80833] FALSE FALSE
## [80845] FALSE F
## [80857] FALSE F
## [80869] FALSE F
## [80881] FALSE FALSE
## [80893] FALSE FALSE
## [80905] FALSE F
## [80917] FALSE FALSE
## [80929] FALSE FALSE
## [80941] FALSE FALSE
```

```
## [80953] FALSE FALSE
## [80965] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [81013] FALSE FALSE
## [81025] FALSE F
## [81037] FALSE FALSE
## [81049] FALSE FALSE
## [81061] FALSE FALSE
## [81073] FALSE FALSE
## [81085] FALSE F
## [81097] FALSE F
## [81109] FALSE FALSE
## [81121] FALSE FALSE
## [81133] FALSE FALSE
## [81145] FALSE FALSE
## [81157] FALSE F
## [81169] FALSE FALSE
## [81181] FALSE FALSE
## [81193] FALSE FALSE
## [81205] FALSE FALSE
## [81217] FALSE F
## [81229] FALSE F
## [81241] FALSE FALSE
## [81253] FALSE FALSE
## [81265] FALSE F
## [81277] FALSE FALSE
## [81289] FALSE FALSE
## [81301] FALSE F
## [81313] FALSE F
## [81325] FALSE FALSE
## [81337] FALSE FALSE
## [81349] FALSE FALSE
## [81361] FALSE F
## [81373] FALSE FALSE
## [81385] FALSE FALSE
## [81397] FALSE FALSE
## [81409] FALSE FALSE
## [81421] FALSE F
## [81433] FALSE FALSE
## [81445] FALSE FALSE
## [81457] FALSE FALSE
## [81469] FALSE F
## [81481] FALSE FALSE
## [81493] FALSE FALSE
## [81505] FALSE F
## [81517] FALSE FALSE
## [81529] FALSE FALSE
## [81541] FALSE FALSE
## [81553] FALSE FALSE
## [81565] FALSE FALSE
## [81577] FALSE FALSE
## [81589] FALSE FALSE
```

```
## [81601] FALSE FALSE
## [81613] FALSE FALSE
## [81625] FALSE FALSE
## [81637] FALSE F
## [81649] FALSE FALSE
## [81661] FALSE F
## [81673] FALSE FALSE
## [81685] FALSE FALSE
## [81697] FALSE FALSE
## [81709] FALSE FALSE
## [81721] FALSE F
## [81733] FALSE FALSE
## [81745] FALSE F
## [81757] FALSE FALSE
## [81769] FALSE FALSE
## [81781] FALSE FALSE
## [81793] FALSE FALSE
## [81805] FALSE F
## [81817] FALSE FALSE
## [81829] FALSE FALSE
## [81841] FALSE FALSE
## [81853] FALSE FALSE
## [81865] FALSE F
## [81877] FALSE F
## [81889] FALSE FALSE
## [81901] FALSE FALSE
## [81913] FALSE FALSE
## [81925] FALSE F
## [81937] FALSE FALSE
## [81949] FALSE F
## [81961] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [81973] FALSE FALSE
## [81985] FALSE FALSE
## [81997] FALSE FALSE
## [82009] FALSE F
## [82021] FALSE FALSE
## [82033] FALSE FALSE
## [82045] FALSE FALSE
## [82057] FALSE FALSE
## [82069] FALSE TRUE FALSE FA
## [82081] FALSE FALSE
## [82093] FALSE FALSE
## [82105] FALSE FALSE
## [82117] FALSE FALSE
## [82129] FALSE FALSE
## [82141] FALSE FALSE
## [82153] FALSE F
## [82165] FALSE FALSE
## [82177] FALSE FALSE
## [82189] FALSE FALSE
## [82201] FALSE F
## [82213] FALSE FALSE
## [82225] FALSE FALSE
## [82237] FALSE FALSE
```

```
## [82249] FALSE FALSE
## [82261] FALSE FALSE
## [82273] FALSE FALSE
## [82285] FALSE F
## [82297] FALSE FALSE
## [82309] FALSE F
## [82321] FALSE F
## [82333] FALSE FALSE
## [82345] FALSE FALSE
## [82357] FALSE FALSE
## [82369] FALSE FALSE
## [82381] FALSE FALSE
## [82393] FALSE F
## [82405] FALSE FALSE
## [82417] FALSE FALSE
## [82429] FALSE F
## [82441] FALSE FALSE
## [82453] FALSE F
## [82465] FALSE FALSE
## [82477] FALSE FALSE
## [82489] FALSE FALSE
## [82501] FALSE FALSE
## [82513] FALSE F
## [82525] FALSE F
## [82537] FALSE FALSE
## [82549] FALSE FALSE
## [82561] FALSE FALSE
## [82573] FALSE FALSE
## [82585] FALSE FALSE
## [82597] FALSE F
## [82609] FALSE F
## [82621] FALSE FALSE
## [82633] FALSE FALSE
## [82645] FALSE F
## [82657] FALSE F
## [82669] FALSE FALSE
## [82681] FALSE FALSE
## [82693] FALSE FALSE
## [82705] FALSE FALSE
## [82717] FALSE F
## [82729] FALSE FALSE
## [82741] FALSE FALSE
## [82753] FALSE FALSE
## [82765] FALSE FALSE
## [82777] FALSE FALSE
## [82789] FALSE FALSE
## [82801] FALSE F
## [82813] FALSE FALSE
## [82825] FALSE FALSE
## [82837] FALSE FALSE
## [82849] FALSE FALSE
## [82861] FALSE FALSE
## [82873] FALSE FALSE
## [82885] FALSE FALSE
```

```
## [82897] FALSE FALSE
## [82909] FALSE FALSE
## [82921] FALSE FALSE
## [82933] FALSE F
## [82945] FALSE FALSE
## [82957] FALSE F
## [82969] FALSE F
## [82981] FALSE FALSE
## [82993] FALSE FALSE
## [83005] FALSE FALSE
## [83017] FALSE FALSE
## [83029] FALSE FALSE
## [83041] FALSE F
## [83053] FALSE FALSE
## [83065] FALSE F
## [83077] FALSE FALSE
## [83089] FALSE FALSE
## [83101] FALSE F
## [83113] FALSE FALSE
## [83125] FALSE FALSE
## [83137] FALSE FALSE
## [83149] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [83161] TRUE FALSE FA
## [83173] FALSE FALSE
## [83185] FALSE FALSE
## [83197] FALSE FALSE
## [83209] FALSE FALSE
## [83221] FALSE FALSE
## [83233] FALSE FALSE
## [83245] FALSE F
## [83257] FALSE F
## [83269] FALSE FALSE
## [83281] FALSE FALSE
## [83293] FALSE FALSE
## [83305] FALSE F
## [83317] FALSE FALSE
## [83329] FALSE FALSE
## [83341] FALSE FALSE
## [83353] FALSE FALSE
## [83365] FALSE F
## [83377] FALSE FALSE
## [83389] FALSE FALSE
## [83401] FALSE FALSE
## [83413] FALSE FALSE
## [83425] FALSE FALSE
## [83437] FALSE FALSE
## [83449] FALSE F
## [83461] FALSE FALSE
## [83473] FALSE FALSE
## [83485] FALSE FALSE
## [83497] FALSE FALSE
## [83509] FALSE FALSE
## [83521] FALSE FALSE
## [83533] FALSE FALSE
```

```
## [83545] FALSE FALSE
## [83557] FALSE FALSE
## [83569] FALSE FALSE
## [83581] FALSE FALSE
## [83593] FALSE FALSE
## [83605] FALSE F
## [83617] FALSE F
## [83629] FALSE FALSE
## [83641] FALSE FALSE
## [83653] FALSE FALSE
## [83665] FALSE FALSE
## [83677] FALSE FALSE
## [83689] FALSE F
## [83701] FALSE FALSE
## [83713] FALSE FALSE
## [83725] FALSE FALSE
## [83737] FALSE FALSE
## [83749] FALSE F
## [83761] FALSE FALSE
## [83773] FALSE FALSE
## [83785] FALSE FALSE
## [83797] FALSE FALSE
## [83809] FALSE F
## [83821] FALSE FALSE
## [83833] FALSE FALSE
## [83845] FALSE FALSE
## [83857] FALSE FALSE
## [83869] FALSE FALSE
## [83881] FALSE FALSE
## [83893] FALSE F
## [83905] FALSE F
## [83917] FALSE FALSE
## [83929] FALSE FALSE
## [83941] FALSE FALSE
## [83953] FALSE F
## [83965] FALSE FALSE
## [83977] FALSE FALSE
## [83989] FALSE FALSE
## [84001] FALSE FALSE
## [84013] FALSE F
## [84025] FALSE FALSE
## [84037] FALSE FALSE
## [84049] FALSE F
## [84061] FALSE F
## [84073] FALSE FALSE
## [84085] FALSE FALSE
## [84097] FALSE F
## [84109] FALSE FALSE
## [84121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE
## [84133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [84145] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [84157] FALSE FALSE
## [84169] FALSE FALSE
## [84181] FALSE FALSE
```

```
## [84193] FALSE FALSE
## [84205] FALSE FALSE
## [84217] FALSE FALSE
## [84229] FALSE F
## [84241] FALSE TRUE
## [84253] FALSE F
## [84265] FALSE F
## [84277] FALSE F
## [84289] FALSE FALSE
## [84301] FALSE FALSE
## [84313] FALSE F
## [84325] TRUE FALSE FA
## [84337] FALSE F
## [84349] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [84361] FALSE FALSE
## [84373] FALSE FALSE
## [84385] FALSE FALSE
## [84397] FALSE F
## [84409] FALSE FALSE
## [84421] FALSE FALSE
## [84433] FALSE FALSE
## [84445] FALSE FALSE
## [84457] FALSE F
## [84469] FALSE F
## [84481] FALSE FALSE
## [84493] FALSE FALSE
## [84505] FALSE F
## [84517] FALSE FALSE
## [84529] FALSE FALSE
## [84541] FALSE F
## [84553] FALSE F
## [84565] FALSE FALSE
## [84577] FALSE FALSE
## [84589] FALSE FALSE
## [84601] FALSE F
## [84613] FALSE FALSE
## [84625] FALSE FALSE
## [84637] FALSE FALSE
## [84649] FALSE FALSE
## [84661] FALSE F
## [84673] FALSE FALSE
## [84685] FALSE FALSE
## [84697] FALSE FALSE
## [84709] FALSE FALSE
## [84721] FALSE FALSE
## [84733] FALSE FALSE
## [84745] FALSE F
## [84757] FALSE FALSE
## [84769] FALSE FALSE
## [84781] FALSE FALSE
## [84793] FALSE FALSE
## [84805] FALSE FALSE
## [84817] FALSE FALSE
## [84829] FALSE FALSE
```

```
## [84841] FALSE FALSE
## [84853] FALSE FALSE
## [84865] FALSE FALSE
## [84877] FALSE F
## [84889] FALSE FALSE
## [84901] FALSE F
## [84913] FALSE FALSE
## [84925] FALSE FALSE
## [84937] FALSE FALSE
## [84949] FALSE F
## [84961] FALSE FALSE
## [84973] FALSE FALSE
## [84985] FALSE F
## [84997] FALSE FALSE
## [85009] FALSE F
## [85021] FALSE FALSE
## [85033] FALSE FALSE
## [85045] FALSE F
## [85057] FALSE FALSE
## [85069] FALSE FALSE
## [85081] FALSE FALSE
## [85093] FALSE FALSE
## [85105] FALSE F
## [85117] FALSE FALSE
## [85129] FALSE FALSE
## [85141] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE
## [85153] FALSE FALSE
## [85165] FALSE FALSE
## [85177] FALSE FALSE
## [85189] FALSE F
## [85201] FALSE F
## [85213] FALSE FALSE
## [85225] FALSE FALSE
## [85237] FALSE FALSE
## [85249] FALSE F
## [85261] FALSE FALSE
## [85273] FALSE FALSE
## [85285] FALSE FALSE
## [85297] FALSE F
## [85309] FALSE F
## [85321] FALSE FALSE
## [85333] FALSE FALSE
## [85345] FALSE FALSE
## [85357] FALSE FALSE
## [85369] FALSE FALSE
## [85381] FALSE FALSE
## [85393] FALSE F
## [85405] FALSE FALSE
## [85417] FALSE FALSE
## [85429] FALSE TRUE
## [85441] FALSE FALSE
## [85453] FALSE FALSE
## [85465] FALSE FALSE
## [85477] FALSE F
```

```
## [85489] FALSE FALSE
## [85501] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [85513] FALSE FALSE
## [85525] FALSE F
## [85537] FALSE FALSE
## [85549] FALSE F
## [85561] FALSE F
## [85573] FALSE FALSE
## [85585] FALSE FALSE
## [85597] FALSE FALSE
## [85609] FALSE F
## [85621] FALSE FALSE
## [85633] FALSE F
## [85645] FALSE FALSE
## [85657] FALSE FALSE
## [85669] FALSE FALSE
## [85681] FALSE FALSE
## [85693] FALSE F
## [85705] FALSE FALSE
## [85717] FALSE FALSE
## [85729] FALSE FALSE
## [85741] FALSE FALSE
## [85753] FALSE F
## [85765] FALSE F
## [85777] FALSE FALSE
## [85789] FALSE FALSE
## [85801] FALSE FALSE
## [85813] FALSE FALSE
## [85825] FALSE F
## [85837] FALSE F
## [85849] FALSE F
                         [85861] FALSE FALS
## [85873] FALSE FALSE
## [85885] FALSE FALSE
## [85897] FALSE F
## [85909] FALSE FALSE
## [85921] FALSE FALSE
## [85933] FALSE FALSE
## [85945] FALSE FALSE
## [85957] FALSE F
## [85969] FALSE FALSE
## [85981] FALSE FALSE
## [85993] FALSE FALSE
## [86005] FALSE F
## [86017] FALSE F
## [86029] FALSE F
## [86041] FALSE F
## [86053] FALSE FALSE
## [86065] FALSE FALSE
## [86077] FALSE F
## [86089] FALSE FALSE
## [86101] FALSE FALSE
## [86113] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE
## [86125] TRUE FALSE FA
```

```
## [86137] FALSE FALSE
## [86149] FALSE FALSE
## [86161] FALSE FALSE
## [86173] FALSE FALSE
## [86185] FALSE FALSE
## [86197] FALSE F
## [86209] FALSE F
## [86221] FALSE F
## [86233] FALSE FALSE
## [86245] FALSE F
## [86257] FALSE F
## [86269] FALSE F
## [86281] FALSE F
## [86293] FALSE FALSE
## [86305] FALSE FALSE
## [86317] FALSE FALSE
## [86329] FALSE F
## [86341] FALSE F
## [86353] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [86365] FALSE FALSE
## [86377] FALSE FALSE
## [86389] FALSE FALSE
## [86401] FALSE F
## [86413] FALSE F
## [86425] FALSE FALSE
## [86437] FALSE F
## [86449] FALSE F
## [86461] FALSE F
## [86473] FALSE FALSE
## [86485] FALSE F
## [86497] FALSE F
## [86509] FALSE FALSE
## [86521] FALSE F
## [86533] FALSE FALSE
## [86545] FALSE F
## [86557] FALSE FALSE
## [86569] FALSE FALSE
## [86581] FALSE FALSE
## [86593] FALSE F
## [86605] FALSE F
## [86617] FALSE FALSE
## [86629] FALSE FALSE
## [86641] FALSE FALSE
## [86653] FALSE FALSE
## [86665] FALSE F
## [86677] FALSE FALSE
## [86689] FALSE F
## [86701] FALSE FALSE
## [86713] FALSE FALSE
## [86725] FALSE F
## [86737] FALSE FALSE
## [86749] FALSE F
## [86761] FALSE F
## [86773] FALSE FALSE
```

```
## [86785] FALSE FALSE
## [86797] FALSE FALSE
## [86809] FALSE FALSE
## [86821] FALSE F
## [86833] FALSE FALSE
## [86845] FALSE F
## [86857] FALSE F
## [86869] FALSE F
## [86881] FALSE FALSE
## [86893] FALSE FALSE
## [86905] FALSE F
## [86917] FALSE FALSE
## [86929] FALSE F
## [86941] FALSE F
## [86953] FALSE FALSE
## [86965] FALSE FALSE
## [86977] FALSE FALSE
## [86989] FALSE F
## [87001] FALSE FALSE
## [87013] FALSE FALSE
## [87025] FALSE FALSE
## [87037] FALSE FALSE
## [87049] FALSE F
## [87061] FALSE FALSE
## [87085] FALSE FALSE
## [87097] FALSE FALSE
## [87109] FALSE FALSE
## [87121] FALSE FALSE
## [87133] FALSE F
## [87145] FALSE F
## [87157] FALSE FALSE
## [87169] FALSE FALSE
## [87181] FALSE FALSE
## [87193] FALSE F
## [87205] FALSE FALSE
## [87217] FALSE FALSE
## [87229] FALSE FALSE
## [87241] FALSE FALSE
## [87253] FALSE TRUE FALSE FA
## [87265] FALSE FALSE
## [87277] FALSE FALSE
## [87289] FALSE FALSE
## [87301] FALSE FALSE
## [87313] FALSE FALSE
## [87325] FALSE FALSE
## [87337] FALSE F
## [87349] FALSE F
## [87361] FALSE FALSE
## [87373] FALSE FALSE
## [87385] FALSE FALSE
## [87397] FALSE FALSE
## [87409] FALSE FALSE
## [87421] FALSE FALSE
```

```
## [87433] FALSE FALSE
## [87445] FALSE FALSE
## [87457] FALSE FALSE
## [87469] FALSE F
## [87481] FALSE FALSE
## [87493] FALSE FALSE
## [87505] FALSE F
## [87517] FALSE FALSE
         [87529] FALSE FALSE
         [87541] FALSE FALSE
## [87553] FALSE F
## [87565] FALSE FALSE
## [87577] FALSE FALSE
## [87589] FALSE FALSE
## [87601] FALSE FALSE
## [87613] FALSE FALSE
         [87625] FALSE FALSE
         [87637] FALSE FALSE
## [87649] FALSE FALSE
## [87661] FALSE FALSE
## [87673] FALSE FALSE
## [87685] FALSE FALSE
## [87697] FALSE F
         [87709] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [87721] FALSE FALSE
         [87733] FALSE FALSE
## [87745] FALSE FALSE
## [87757] FALSE FALSE
## [87769] FALSE FALSE
## [87781] FALSE F
## [87793] FALSE FALSE
         [87805] FALSE FALS
         [87817] FALSE FALSE
## [87829] FALSE FALSE
## [87841] FALSE FALSE
## [87853] FALSE FALSE
## [87865] FALSE FALSE
## [87877] FALSE FALSE
          [87889] FALSE FALSE FALSE FALSE FALSE TRUE
                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                TRUE
         [87901]
                                            TRUE
                                                               TRUE
                                                                                      TRUE
                                                                                                            TRUE
                                                                                                                                 TRUE
                                                                                                                                                         TRUE TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                TRUE
          [87913]
                                                                  TRUE
                                                                                        TRUE
                                                                                                               TRUE
                                                                                                                                      TRUE
                                                                                                                                                            TRUE
                                                                                                                                                                                 TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
                                            TRUE
## [87925]
                                            TRUE
                                                                TRUE
                                                                                        TRUE
                                                                                                               TRUE
                                                                                                                                      TRUE
                                                                                                                                                            TRUE
                                                                                                                                                                                  TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                            TRUE TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
## [87937]
                                            TRUE
                                                                  TRUE
                                                                                        TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
## [87949]
                                            TRUE
                                                                  TRUE
                                                                                        TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                            TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
                                                                                                                                                                                  TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
         [87961]
                                            TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
                                                                                                                TRUE
                                                                                                                                                                                                                                                       TRUE
## [87973]
                                             TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                TRUE
           [87985]
                                             TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                   TRUE
          [87997]
                                                                  TRUE
                                                                                         TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                            TRUE
                                                                                                                                                                                  TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
                                            TRUE
          [88009]
                                            TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE TRUE
           [88021]
                                             TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                             TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                    TRUE
## [88033]
                                            TRUE
                                                                  TRUE
                                                                                         TRUE
                                                                                                                TRUE
                                                                                                                                      TRUE
                                                                                                                                                            TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                             TRUE
## [88045]
                                            TRUE
                                                               TRUE
                                                                                      TRUE
                                                                                                              TRUE TRUE
                                                                                                                                                         TRUE TRUE TRUE FALSE FALSE FALSE
## [88057] FALSE FALSE
## [88069] FALSE FALSE
```

```
## [88081] FALSE FALSE
## [88093] FALSE FALSE
## [88105] FALSE FALSE
## [88117] FALSE F
## [88129] FALSE FALSE
## [88141] FALSE F
## [88153] FALSE FALSE
## [88165] FALSE F
## [88177] FALSE FALSE
## [88189] FALSE FALSE
## [88201] FALSE F
## [88213] FALSE FALSE
## [88225] FALSE F
## [88237] FALSE FALSE
## [88249] FALSE F
## [88261] FALSE F
## [88273] FALSE FALSE
## [88285] FALSE F
## [88297] FALSE FALSE
## [88309] FALSE FALSE
## [88321] FALSE FALSE
## [88333] FALSE FALSE
## [88345] FALSE F
## [88357] FALSE F
## [88369] FALSE FALSE
## [88381] FALSE FALSE
## [88393] FALSE FALSE
## [88405] FALSE F
## [88417] FALSE FALSE
## [88429] FALSE F
## [88441] FALSE F
## [88453] FALSE FALSE
## [88465] FALSE F
## [88477] FALSE FALSE
## [88489] FALSE F
## [88501] FALSE FALSE
## [88513] FALSE FALSE
## [88525] FALSE FALSE
## [88537] FALSE FALSE
## [88549] FALSE F
## [88561] FALSE FALSE
## [88573] FALSE FALSE
## [88585] FALSE FALSE
## [88597] FALSE FALSE
## [88609] FALSE FALSE
## [88621] FALSE FALSE
## [88633] FALSE F
## [88645] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [88657] FALSE FALSE
## [88669] FALSE FALSE
## [88681] FALSE TRUE
## [88693] FALSE FALSE
## [88705] FALSE FALSE
## [88717] FALSE FALSE
```

```
## [88729] FALSE FALSE
## [88741] FALSE FALSE
## [88753] FALSE FALSE
## [88765] FALSE F
## [88777] FALSE FALSE
## [88789] FALSE F
## [88801] FALSE F
## [88813] FALSE FALSE
## [88825] FALSE FALSE
## [88837] FALSE FALSE
## [88849] FALSE F
## [88861] FALSE FALSE
## [88873] FALSE F
## [88885] FALSE FALSE
## [88897] FALSE FALSE
## [88909] FALSE FALSE
                    [88921] FALSE FALSE
## [88933] FALSE FALSE
## [88945] FALSE FALSE
## [88969]
                                                                                            TRUE TRUE TRUE
                                                                                                                                                                                                                                              TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [88981]
                                                                                            TRUE
                                                                                                                                        TRUE
                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                 TRUE TRUE TRUE TRUE TRUE TRUE
## [88993]
                                                                                               TRUE TRUE
                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRUE TRUE
                                                                                               TRUE TRUE
                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE TRUE TRUE TRUE TRUE TRUE TRUE
                    [89005]
## [89017] TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
## [89029] FALSE FALSE
## [89041] FALSE F
## [89053] FALSE FALSE
## [89065] FALSE F
## [89077] FALSE F
## [89089] FALSE F
## [89101] FALSE TRUE
## [89113] FALSE FALSE
## [89125] FALSE F
## [89137] FALSE FALSE
## [89149] FALSE FALSE
## [89161] FALSE FALSE
## [89173] FALSE FALSE
## [89185] FALSE FALSE
## [89197] FALSE F
## [89209] FALSE FALSE
## [89221] FALSE FALSE
## [89233] FALSE FALSE
## [89245] FALSE F
## [89257] FALSE F
## [89269] FALSE F
## [89281] FALSE TRUE FALSE FA
## [89293] FALSE FALSE
## [89305] FALSE FALSE
## [89317] FALSE FALSE
## [89329] FALSE FALSE
## [89341] FALSE F
## [89353] FALSE FALSE
## [89365] FALSE FALSE
```

```
## [89377] FALSE FALSE
## [89389] FALSE FALSE
## [89401] FALSE F
## [89413] FALSE F
## [89425] FALSE FALSE
## [89437] FALSE F
## [89449] FALSE F
## [89461] FALSE F
## [89473] FALSE FALSE
## [89485] FALSE F
## [89497] FALSE F
## [89509] FALSE FALSE
## [89521] FALSE F
## [89533] FALSE FALSE
## [89545] FALSE F
## [89557] FALSE FALSE
## [89569] FALSE FALSE
## [89581] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE
## [89593] FALSE FALSE
## [89605] FALSE FALSE
## [89617] FALSE FALSE
## [89629] FALSE FALSE
## [89641] FALSE F
## [89653] FALSE F
## [89665] FALSE FALSE
## [89677] FALSE F
## [89689] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [89713]
## [89725] FALSE F
## [89737] FALSE FALSE
## [89749] FALSE FALSE
## [89761] FALSE FALSE
## [89773] FALSE FALSE
## [89785] FALSE F
## [89797] FALSE FALSE
## [89809] FALSE FALSE
## [89821] FALSE FALSE
## [89833] FALSE FALSE
## [89845] FALSE F
## [89857] FALSE FALSE
## [89869] FALSE FALSE
## [89881] FALSE FALSE
## [89893] FALSE FALSE
## [89905] FALSE F
## [89917] FALSE FALSE
## [89929] FALSE F
## [89941] FALSE FALSE
## [89953] FALSE FALSE
## [89965] FALSE F
## [89977] FALSE FALSE
## [89989] FALSE FALSE
## [90001] FALSE FALSE
## [90013] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
## [90025] FALSE FALSE
## [90037] FALSE FALSE
## [90049] FALSE FALSE
## [90061] FALSE F
## [90073] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [90085] FALSE F
## [90097] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [90109] FALSE FALSE
## [90121] FALSE F
## [90133] FALSE FALSE
## [90145] FALSE F
## [90157] FALSE F
## [90169] TRUE FALSE FA
## [90181] FALSE FALSE
## [90193] FALSE FALSE
## [90205] FALSE F
## [90217] FALSE FALSE
## [90229] FALSE FALSE
## [90241] FALSE FALSE
## [90253] FALSE FALSE
## [90265] FALSE FALSE
## [90277] FALSE FALSE
## [90289] FALSE F
## [90301] FALSE F
## [90313] FALSE FALSE
## [90325] FALSE F
## [90337] FALSE FALSE
## [90349] FALSE FALSE
## [90361] FALSE FALSE
## [90373] FALSE F
## [90385] FALSE F
## [90397] FALSE FALSE
## [90409] FALSE F
## [90421] FALSE TRUE FALSE
## [90433] FALSE FALSE
## [90445] FALSE FALSE
## [90457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE
## [90469] FALSE FALSE
## [90481] FALSE FALSE
## [90493] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE FALSE
## [90505] FALSE FALSE
## [90517] FALSE FALSE
                                                                                        ## [90529]
## [90541]
                                                                                         TRUE
                                                                                                                                 TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                      TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRUE TRUE
                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TRUE
## [90553]
                                                                                          TRUE
                                                                                                                                        TRUE
                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRUE
## [90565]
                                                                                           TRUE
                                                                                                                                        TRUE
                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                    [90577]
                                                                                          TRUE
                                                                                                                                     TRUE
                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                   [90589] FALSE FALSE
## [90601] FALSE FALSE
## [90613] FALSE FALSE
## [90625] FALSE F
## [90637] TRUE FALSE FA
## [90649] FALSE FALSE
## [90661] FALSE FALSE
```

```
## [90673] FALSE FALSE
## [90685] FALSE FALSE
## [90697] FALSE FALSE
## [90709] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [90721] FALSE FALSE
## [90733] FALSE F
## [90745] FALSE F
## [90757] FALSE F
## [90769] FALSE FALSE
## [90781] FALSE FALSE
## [90793] FALSE F
## [90805] FALSE F
## [90817] FALSE F
## [90829] FALSE F
## [90841] FALSE FALSE
## [90853] FALSE FALSE
## [90865] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [90877] FALSE F
## [90889] FALSE FALSE
## [90901] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [90913] FALSE FALSE
## [90925] FALSE FALSE
## [90937] FALSE F
## [90949] FALSE F
## [90961] FALSE FALSE
## [90973] FALSE FALSE
## [90985] FALSE FALSE
## [90997] FALSE FALSE
## [91009] FALSE FALSE
## [91021] FALSE F
## [91033] FALSE F
## [91045] FALSE FALSE
## [91057] FALSE FALSE
## [91069] FALSE FALSE
## [91081] FALSE F
## [91093] FALSE FALSE
## [91105] FALSE FALSE
## [91117] FALSE FALSE
## [91129] FALSE FALSE
## [91141] FALSE FALSE
## [91153] FALSE FALSE
## [91165] FALSE F
## [91177] FALSE FALSE
## [91189] FALSE FALSE
## [91201] FALSE FALSE
## [91213] FALSE FALSE
## [91225] FALSE F
## [91237] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [91249] FALSE FALSE
## [91261] FALSE FALSE
## [91273] FALSE FALSE
## [91285] FALSE FALSE
## [91297] FALSE FALSE
## [91309] FALSE FALSE
```

```
## [91321] FALSE FALSE
## [91333] FALSE FALSE
## [91345] FALSE FALSE
## [91357] FALSE F
## [91369] FALSE FALSE
## [91381] FALSE F
## [91393] FALSE F
## [91405] FALSE F
## [91417] FALSE FALSE
## [91429] FALSE FALSE
## [91441] FALSE F
## [91453] FALSE FALSE
## [91465] FALSE F
## [91477] FALSE FALSE
## [91489] FALSE FALSE TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
## [91501]
                                                                               TRUE TRUE TRUE
                                                                                                                                                                                                                                 TRUE TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
## [91513]
                                                                                        TRUE
                                                                                                                                TRUE
                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                TRUE TRUE
                                                                                                                                                                                                                                                                                                                      TRUE TRUE TRUE TRUE TRUE TRUE TRUE
                                                                                                                                                                                                                              TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [91525]
                                                                                       TRUE
                                                                                                                                 TRUE TRUE
## [91549] TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [91561] FALSE FALSE
## [91573] FALSE FALSE
## [91585] FALSE F
## [91597] FALSE F
## [91609] FALSE FALSE
## [91621] FALSE F
## [91633] FALSE FALSE
## [91645] FALSE FALSE
## [91657] FALSE F
## [91669] FALSE F
## [91681] FALSE F
## [91693] FALSE FALSE
## [91705] FALSE FALSE
## [91717] FALSE FALSE
## [91729] FALSE F
## [91741] FALSE FALSE
## [91753] FALSE FALSE
## [91765] FALSE FALSE
## [91777] FALSE FALSE
## [91789] FALSE FALSE
## [91801] FALSE FALSE
## [91813] FALSE FALSE
## [91825] FALSE FALSE
## [91837] FALSE FALSE
## [91849] FALSE F
## [91861] FALSE FALSE
## [91873] FALSE F
## [91885] FALSE FALSE
## [91897] FALSE FALSE
## [91909] FALSE FALSE
## [91921] FALSE FALSE
## [91933] FALSE FALSE
## [91945] FALSE FALSE
## [91957] FALSE FALSE
```

```
## [91969] FALSE FALSE
## [91981] FALSE FALSE
## [91993] FALSE FALSE
## [92005] FALSE F
## [92017] FALSE FALSE
## [92029] FALSE FALSE
## [92041] FALSE F
## [92053] FALSE FALSE
           [92065] FALSE FALS
           [92077] FALSE FALS
           [92089] FALSE FALSE
## [92101] FALSE FALSE
## [92113] FALSE FALSE
## [92125] FALSE FALSE
## [92137] FALSE FALSE
## [92149] FALSE FALSE
           [92161] FALSE FALSE
## [92173] FALSE FALSE
## [92185] FALSE FALSE
## [92197] FALSE FALSE
## [92209] FALSE FALSE
## [92221] FALSE FALSE
## [92233] FALSE F
## [92245] FALSE F
## [92257] FALSE FALSE
           [92269] FALSE FALSE
## [92281] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                     TRUE
                                                                                                                               TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                           TRUE
## [92293]
                                                  TRUE
                                                                            TRUE
                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                          TRUE
## [92305]
                                                  TRUE
                                                                            TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                              TRUE
           [92317]
                                                   TRUE
                                                                            TRUE
                                                                                                       TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
## [92329]
                                                   TRUE
                                                                             TRUE
                                                                                                       TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
            [92341]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
           [92353]
                                                   TRUE
                                                                            TRUE
                                                                                                       TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                              TRUE
## [92365]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE TRUE
## [92377]
                                                   TRUE
                                                                            TRUE
                                                                                                       TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
## [92389]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                               TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                              TRUE
## [92401]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
## [92413]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
            [92425]
                                                   TRUE
                                                                            TRUE
                                                                                                       TRUE
                                                                                                                                 TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                               TRUE
           [92437]
                                                   TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE
                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                           TRUE
           [92449]
                                                   TRUE
                                                                            TRUE
                                                                                                                                                                                                                                                                                                                    TRUE TRUE
## [92461]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                    TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE TRUE
## [92473]
                                                   TRUE
                                                                            TRUE
                                                                                                      TRUE
                                                                                                                                TRUE
                                                                                                                                                          TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                    TRUE TRUE
           [92485]
                                                  TRUE
                                                                            TRUE
                                                                                                     TRUE
                                                                                                                               TRUE
                                                                                                                                                         TRUE
                                                                                                                                                                                   TRUE
                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                TRUE FALSE FALSE FALSE
## [92497] FALSE FALSE
## [92509] FALSE FALSE
            [92521] FALSE FALSE
           [92533] FALSE FALSE
## [92545] FALSE FALSE
## [92557] FALSE FALSE
## [92569] FALSE F
## [92581] FALSE FALSE
## [92593] FALSE FALSE
## [92605] FALSE FALSE
```

```
## [92617] FALSE FALSE
## [92629] FALSE FALSE
## [92641] FALSE FALSE
## [92653] FALSE F
## [92665] FALSE FALSE
## [92677] FALSE F
## [92689] FALSE F
## [92701] FALSE FALSE
## [92713] FALSE FALSE
## [92725] FALSE F
## [92737] FALSE F
## [92749] FALSE F
## [92761] FALSE F
## [92773] FALSE F
## [92785] FALSE FALSE
## [92797] FALSE FALSE
## [92809] FALSE FALSE
## [92821] FALSE F
## [92833] FALSE FALSE
## [92845] FALSE FALSE
## [92857] FALSE FALSE
## [92869] FALSE FALSE
## [92881] FALSE F
## [92893] FALSE F
## [92905] FALSE FALSE
## [92917] FALSE FALSE
## [92929] FALSE FALSE
## [92941] FALSE FALSE
## [92953] FALSE FALSE
## [92965] FALSE F
## [92977] FALSE F
## [92989] FALSE FALSE
## [93001] FALSE FALSE
## [93013] FALSE FALSE
## [93025] FALSE F
## [93037] FALSE FALSE
## [93049] FALSE FALSE
## [93061] FALSE FALSE
## [93073] FALSE FALSE
## [93085] FALSE F
## [93097] FALSE FALSE
## [93109] FALSE FALSE
## [93121] FALSE FALSE
## [93133] FALSE FALSE
## [93145] FALSE F
## [93157] FALSE FALSE
## [93169] FALSE F
## [93181] FALSE FALSE
## [93193] FALSE FALSE
## [93205] FALSE FALSE
## [93217] FALSE FALSE
## [93229] FALSE FALSE
## [93241] FALSE FALSE
## [93253] FALSE FALSE
```

```
## [93265] FALSE FALSE
## [93277] FALSE FALSE
## [93289] FALSE FALSE
## [93301] FALSE F
## [93313] FALSE FALSE
## [93325] FALSE F
## [93337] FALSE FALSE
## [93349] FALSE F
## [93361] FALSE FALSE
## [93373] FALSE FALSE
## [93385] FALSE FALSE
## [93397] FALSE F
## [93409] FALSE F
## [93421] FALSE FALSE
## [93445] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [93457] TRUE FALSE FA
## [93469] FALSE F
## [93481] FALSE FALSE
## [93493] FALSE FALSE
## [93505] FALSE FALSE
## [93517] FALSE FALSE
## [93529] FALSE F
## [93541] FALSE F
## [93553] FALSE FALSE
## [93565] FALSE FALSE
## [93577] FALSE FALSE
## [93589] FALSE FALSE
## [93601] FALSE FALSE
## [93613] FALSE F
## [93625] FALSE F
## [93637] FALSE FALSE
## [93649] FALSE FALSE
## [93661] FALSE FALSE
## [93673] FALSE F
## [93685] FALSE FALSE
## [93697] FALSE FALSE
## [93709] FALSE FALSE
## [93721] FALSE FALSE
## [93733] FALSE FALSE
## [93745] FALSE FALSE
## [93757] FALSE FALSE
## [93769] FALSE FALSE
## [93781] FALSE FALSE
## [93793] FALSE FALSE
## [93805] FALSE FALSE
## [93817] FALSE F
## [93829] FALSE FALSE
## [93841] FALSE FALSE
## [93853] FALSE FALSE
## [93865] FALSE FALSE
## [93877] FALSE FALSE
## [93889] FALSE FALSE
## [93901] FALSE FALSE
```

```
## [93913] FALSE FALSE
## [93925] FALSE FALSE
## [93937] FALSE FALSE
## [93949] FALSE F
## [93961] FALSE FALSE
## [93973] FALSE F
## [93985] FALSE F
## [93997] FALSE FALSE
## [94009] FALSE FALSE
## [94021] FALSE FALSE
## [94033] FALSE F
## [94045] FALSE F
## [94057] FALSE F
## [94069] FALSE FALSE
## [94081] FALSE FALSE
## [94093] FALSE FALSE
## [94105] FALSE FALSE
## [94117] FALSE F
## [94129] FALSE FALSE
## [94141] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [94153] FALSE FALSE
## [94165] FALSE FALSE
## [94177] FALSE FALSE
## [94189] FALSE F
## [94201] FALSE FALSE
## [94213] FALSE FALSE
## [94225] FALSE F
## [94237] FALSE FALSE
## [94249] FALSE FALSE
## [94261] FALSE F
## [94273] FALSE F
## [94285] FALSE FALSE
## [94297] FALSE FALSE
## [94309] FALSE FALSE
## [94321] FALSE F
## [94333] FALSE FALSE
## [94345] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE
## [94357] FALSE FALSE
## [94369] FALSE FALSE
## [94381] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [94393] FALSE FALSE
## [94405] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE
## [94417] FALSE FALSE
## [94429] FALSE FALSE
## [94441] FALSE FALSE
## [94453] FALSE FALSE
## [94465] FALSE F
## [94477] FALSE FALSE
## [94489] FALSE FALSE
## [94501] FALSE FALSE
## [94513] TRUE FALSE FA
## [94525] FALSE FALSE
## [94537] FALSE FALSE
## [94549] FALSE FALSE
```

```
## [94561] FALSE FALSE
## [94573] FALSE FALSE
## [94585] FALSE FALSE
## [94597] FALSE F
## [94609] FALSE FALSE
## [94621] FALSE F
## [94633] FALSE FALSE
## [94645] FALSE F
## [94657] FALSE FALSE
## [94669] FALSE FALSE
## [94681] FALSE F
## [94693] FALSE F
## [94705] FALSE F
## [94717] FALSE FALSE
## [94729] FALSE FALSE
## [94741] FALSE FALSE
## [94753] FALSE FALSE
## [94765] FALSE F
## [94777] FALSE FALSE
## [94789] FALSE FALSE
## [94801] FALSE FALSE
## [94813] FALSE FALSE
## [94825] FALSE F
## [94837] FALSE FALSE
## [94849] FALSE FALSE
## [94861] FALSE FALSE
## [94873] FALSE FALSE
## [94885] FALSE F
## [94897] FALSE FALSE
## [94909] FALSE F
## [94921] FALSE F
## [94933] FALSE FALSE
## [94945] FALSE FALSE
## [94957] FALSE FALSE
## [94969] FALSE F
## [94981] FALSE FALSE
## [94993] FALSE FALSE
## [95005] FALSE FALSE
## [95017] FALSE FALSE
## [95029] FALSE F
## [95041] FALSE FALSE
## [95053] FALSE FALSE
## [95065] FALSE FALSE
## [95077] FALSE FALSE
## [95089] FALSE FALSE
## [95101] FALSE FALSE
## [95113] FALSE F
## [95125] FALSE FALSE
## [95137] FALSE FALSE
## [95149] FALSE FALSE
## [95161] FALSE FALSE
## [95173] FALSE FALSE
## [95185] FALSE FALSE
## [95197] FALSE FALSE
```

```
## [95209] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [95221] FALSE FALSE
## [95233] FALSE FALSE
## [95245] FALSE F
## [95257] FALSE FALSE
## [95269] FALSE F
## [95281] FALSE F
## [95293] FALSE F
## [95305] FALSE FALSE
## [95317] FALSE FALSE
## [95329] FALSE F
## [95341] FALSE F
## [95353] FALSE F
## [95365] FALSE FALSE
## [95377] FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE
## [95389] FALSE FALSE
## [95401] FALSE FALSE
## [95413] FALSE F
## [95425] FALSE FALSE
## [95437] FALSE FALSE
## [95449] FALSE FALSE
## [95461] FALSE FALSE
## [95473] FALSE FALSE
## [95485] FALSE F
## [95497] FALSE FALSE
## [95509] FALSE FALSE
## [95521] FALSE FALSE
## [95533] FALSE FALSE
## [95545] FALSE FALSE
## [95557] FALSE F
## [95569] FALSE F
## [95581] FALSE FALSE
## [95593] FALSE FALSE
## [95605] FALSE F
## [95617] FALSE F
## [95629] FALSE FALSE
## [95641] FALSE FALSE
## [95653] FALSE FALSE
## [95665] FALSE F
## [95677] FALSE F
## [95689] FALSE FALSE
## [95701] FALSE FALSE
## [95713] FALSE FALSE
## [95725] FALSE F
## [95737] FALSE FALSE
## [95749] FALSE FALSE
## [95761] FALSE F
## [95773] FALSE F
## [95785] FALSE FALSE
## [95797] FALSE FALSE
## [95809] FALSE FALSE
## [95821] FALSE FALSE
## [95833] FALSE FALSE
## [95845] FALSE FALSE
```

```
## [95857] FALSE FALSE
                 [95869] FALSE FALS
## [95881] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [95893] FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [95905] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [95917] FALSE FALSE
## [95929] FALSE F
## [95941] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
                   [95953]
                                                                                 TRUE
                                                                                                                   TRUE
                                                                                                                                                                TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                            TRUE TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRUE
                   [95965]
                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRUE
                                                                                 TRUE
                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                  [95977]
                                                                                 TRUE
                                                                                                                           TRUE
                                                                                                                                                                    TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                 TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                 TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                  [95989]
                                                                                 TRUE
                                                                                                                           TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE TRUE
                   [96001]
                                                                                 TRUE
                                                                                                                         TRUE
                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE TRUE
                  [96013]
                                                                                 TRUE
                                                                                                                          TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE TRUE
                  [96025]
                                                                                 TRUE
                                                                                                                           TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE
                    [96037]
                                                                                  TRUE
                                                                                                                            TRUE
                                                                                                                                                                      TRUE
                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TRUE
                   [96049]
                                                                                                                          TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRUE TRUE
                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                   [96061]
                                                                                 TRUE
                                                                                                                           TRUE
                                                                                                                                                                    TRUE
                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                        TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
                                                                                 TRUE
                                                                                                                   TRUE
                                                                                                                                                                TRUE
                                                                                                                                                                                                             TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
                 [96073]
## [96085] FALSE FALSE
## [96097] FALSE FALSE
## [96109] FALSE FALSE
## [96121] FALSE F
                   [96133] FALSE FALS
                 [96145] FALSE FALS
                  [96157] FALSE FALSE
## [96169] FALSE FALSE
## [96181] FALSE FALSE
## [96193] FALSE FALSE
## [96205] FALSE F
## [96217] FALSE F
                  [96229] FALSE FALS
                 [96241] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [96253] FALSE FALSE
## [96265] FALSE FALSE
## [96277] FALSE FALSE
## [96289] FALSE FALSE
## [96301] FALSE FALSE
                   [96313] FALSE FALS
                  [96325] FALSE FALSE
                  [96337] FALSE FALS
## [96349] FALSE FALSE
## [96361] FALSE FALSE
## [96373] FALSE FALSE
## [96385] FALSE FALSE
## [96397] FALSE FALSE
                   [96409] FALSE FALS
                 [96421] FALSE FALSE
                 [96433] FALSE FALSE
## [96445] FALSE F
## [96457] FALSE F
## [96469] FALSE FALSE
## [96481] FALSE FALSE
## [96493] FALSE FALSE
```

```
## [96505] FALSE FALSE
## [96517] FALSE FALSE
## [96529] FALSE FALSE
## [96541] FALSE F
## [96553] FALSE FALSE
## [96565] FALSE F
## [96577] FALSE FALSE
## [96589] FALSE FALSE
## [96601] FALSE FALSE
                    [96613] FALSE FALSE
## [96625] TRUE FALSE FA
## [96637] FALSE F
## [96649] FALSE F
## [96661] FALSE FALSE
## [96673] FALSE FALSE
## [96685] FALSE FALSE
## [96697] FALSE F
## [96709] FALSE F
## [96721] FALSE FALSE
## [96733] FALSE FALSE
## [96745] FALSE FALSE
## [96757] FALSE FALSE
## [96769] FALSE F
## [96781] FALSE F
## [96793] FALSE FALSE
## [96805] FALSE F
## [96817] FALSE FALSE
## [96829] FALSE F
## [96841] FALSE FALSE
## [96853] FALSE F
## [96865] FALSE F
                    [96877] FALSE FALSE
## [96889] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE
                                                                                       TRUE
                                                                                                                                      ## [96901]
## [96913]
                                                                                              TRUE
                                                                                                                                             TRUE
                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE TRUE
## [96925]
                                                                                             TRUE TRUE
                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                              ## [96937]
                                                                                             TRUE TRUE
                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
## [96949]
                                                                                            ## [96961] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE
## [96973] FALSE FALSE
## [96985] FALSE FALSE
## [96997] FALSE FALSE
## [97009] FALSE FALSE
## [97021] FALSE FALSE
## [97033] FALSE FALSE
## [97045] FALSE F
## [97057] FALSE F
## [97069] FALSE F
## [97081] FALSE FALSE
## [97093] FALSE FALSE
## [97105] FALSE FALSE
## [97117] FALSE FALSE
## [97129] FALSE FALSE
## [97141] FALSE FALSE
```

```
## [97153] FALSE FALSE
## [97165] FALSE FALSE
## [97177] FALSE FALSE
## [97189] FALSE FALSE
## [97201] FALSE FALSE
## [97213] FALSE F
## [97225] FALSE F
## [97237] FALSE F
## [97249] FALSE FALSE
## [97261] FALSE FALSE
## [97273] FALSE FALSE
## [97285] FALSE F
## [97297] FALSE F
## [97309] FALSE F
## [97321] FALSE FALSE
## [97333] FALSE FALSE
## [97345] FALSE FALSE
## [97357] FALSE F
## [97369] FALSE FALSE
## [97381] FALSE FALSE
## [97393] FALSE FALSE
## [97405] FALSE FALSE
## [97417] FALSE FALSE
## [97429] FALSE F
## [97441] FALSE FALSE
## [97453] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [97465] FALSE F
## [97477] FALSE FALSE
## [97489] FALSE FALSE
## [97501] FALSE F
## [97513] FALSE FALSE
## [97525] FALSE FALSE
## [97537] FALSE FALSE
## [97549] FALSE FALSE
## [97561] FALSE F
## [97573] FALSE FALSE
## [97585] FALSE FALSE
## [97597] FALSE FALSE
## [97609] FALSE FALSE
## [97621] FALSE F
## [97633] FALSE FALSE
## [97645] FALSE F
## [97657] FALSE FALSE
## [97669] FALSE FALSE
## [97681] FALSE FALSE
## [97693] FALSE FALSE
## [97705] FALSE F
## [97717] FALSE F
## [97729] FALSE FALSE
## [97741] FALSE FALSE
## [97753] FALSE FALSE
## [97765] FALSE FALSE
## [97777] FALSE FALSE
## [97789] FALSE FALSE
```

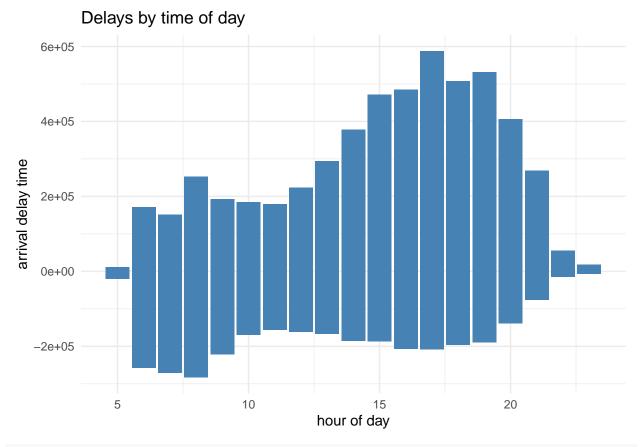
```
## [97801] FALSE FALSE
## [97813] FALSE FALSE
## [97825] FALSE FALSE
## [97837] FALSE F
## [97849] FALSE FALSE
## [97861] FALSE F
## [97873] FALSE FALSE
## [97885] FALSE FALSE
## [97897] FALSE FALSE
## [97909] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE
## [97921] TRUE FALSE FA
## [97933] FALSE FALSE
## [97945] FALSE F
## [97957] FALSE FALSE
## [97969] FALSE FALSE
## [97981] FALSE FALSE
## [97993] FALSE FALSE
## [98005] FALSE F
## [98017] FALSE F
## [98029] FALSE FALSE
## [98041] FALSE FALSE
## [98053] FALSE FALSE
## [98065] FALSE F
## [98077] FALSE F
## [98089] FALSE FALSE
## [98101] FALSE FALSE
## [98113] FALSE FALSE
## [98125] FALSE F
## [98137] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [98149] FALSE F
## [98161] FALSE FALSE
## [98173] FALSE FALSE
## [98185] FALSE FALSE
## [98197] FALSE FALSE
## [98209] FALSE F
## [98221] FALSE FALSE
## [98233] FALSE FALSE
## [98245] FALSE FALSE
## [98257] FALSE FALSE
## [98269] FALSE F
## [98281] FALSE FALSE
## [98293] FALSE FALSE
## [98305] FALSE FALSE
## [98317] FALSE FALSE
## [98329] FALSE FALSE
## [98341] FALSE FALSE
## [98353] FALSE F
## [98365] FALSE FALSE
## [98377] FALSE FALSE
## [98389] FALSE FALSE
## [98401] FALSE FALSE
## [98413] FALSE FALSE
## [98425] FALSE FALSE
## [98437] FALSE FALSE
```

```
## [98449] FALSE FALSE
## [98461] FALSE FALSE
## [98473] FALSE FALSE
## [98485] FALSE F
## [98497] FALSE FALSE
## [98509] FALSE FALSE
## [98521] FALSE F
## [98533] FALSE FALSE
                    [98545] FALSE FALS
                   [98557] FALSE FALSE
                  [98569] FALSE FALSE
## [98581] FALSE F
## [98593] FALSE FALSE
## [98605] FALSE FALSE
## [98617] FALSE FALSE
## [98629] FALSE FALSE
                    [98641] FALSE FALS
                   [98653] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [98665] FALSE FALSE
## [98677] FALSE FALSE
## [98689] FALSE FALSE
## [98701] FALSE FALSE
## [98713] FALSE F
                    [98725] FALSE FALS
                  [98737] FALSE FALSE
                   [98749] FALSE FALSE
## [98761]
                                                                                  TRUE
                                                                                                                        TRUE
                                                                                                                                                                  TRUE
                                                                                                                                                                                                             TRUE TRUE
                                                                                                                                                                                                                                                                                                  TRUE TRUE TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                           TRUE TRUE TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                    [98773]
                                                                                  TRUE
                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE
                  [98785]
                                                                                  TRUE
                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                         TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                    [98797]
                                                                                  TRUE
                                                                                                                            TRUE
                                                                                                                                                                      TRUE
                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                    [98809]
                                                                                   TRUE
                                                                                                                            TRUE
                                                                                                                                                                      TRUE
                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                              TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRUE
                     [98821]
                                                                                   TRUE
                                                                                                                            TRUE
                                                                                                                                                                      TRUE
                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRUE
                    [98833]
                                                                                   TRUE
                                                                                                                            TRUE
                                                                                                                                                                      TRUE
                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                             TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                            TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                            TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                 TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TRUE
                   [98845]
                                                                                  TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE TRUE
                     [98857]
                                                                                   TRUE
                                                                                                                            TRUE
                                                                                                                                                                     TRUE
                                                                                                                                                                                                               TRUE
                                                                                                                                                                                                                                                          TRUE
                                                                                                                                                                                                                                                                                                   TRUE
                                                                                                                                                                                                                                                                                                                                           TRUE
                                                                                                                                                                                                                                                                                                                                                                                       TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRUE
## [98869]
                                                                                 TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## [98881] FALSE FALSE
## [98893] FALSE FALSE
                   [98905] FALSE FALS
                   [98917] FALSE FALSE
                   [98929] FALSE FALS
## [98941] FALSE FALSE
## [98953] FALSE FALSE
## [98965] FALSE F
## [98977] FALSE FALSE
## [98989] FALSE FALSE
                   [99001] FALSE FALS
                   [99013] FALSE FALSE
                  [99025] FALSE FALS
## [99037] FALSE FALSE
## [99049] FALSE F
## [99061] FALSE FALSE
## [99073] FALSE FALSE
## [99085] FALSE FALSE
```

```
## [99097] FALSE FALSE
## [99109] FALSE FALSE
## [99121] FALSE FALSE
## [99133] FALSE F
## [99145] FALSE FALSE
## [99157] FALSE F
## [99169] FALSE F
## [99181] FALSE FALSE
## [99193] FALSE FALSE
## [99205] FALSE F
## [99217] FALSE FALSE
## [99229] FALSE F
## [99241] FALSE F
## [99253] FALSE FALSE
## [99265] FALSE F
## [99277] FALSE FALSE
## [99289] FALSE FALSE
## [99301] FALSE F
## [99313] FALSE FALSE
## [99325] FALSE FALSE
## [99337] FALSE FALSE
## [99349] FALSE FALSE
## [99361] FALSE F
## [99373] FALSE FALSE
## [99385] FALSE FALSE
## [99397] FALSE FALSE
## [99409] FALSE FALSE
## [99421] FALSE F
## [99433] FALSE FALSE
## [99445] FALSE F
## [99457] FALSE F
## [99469] FALSE FALSE
## [99481] FALSE F
## [99493] FALSE FALSE
## [99505] FALSE F
## [99517] FALSE FALSE
## [99529] FALSE FALSE
## [99541] FALSE FALSE
## [99553] FALSE FALSE
## [99565] FALSE F
## [99577] FALSE FALSE
## [99589] FALSE FALSE
## [99601] FALSE FALSE
## [99613] FALSE F
## [99625] FALSE F
## [99637] FALSE FALSE
## [99649] FALSE F
## [99661] FALSE FALSE
## [99673] FALSE FALSE
## [99685] FALSE F
## [99697] FALSE F
## [99709] FALSE FALSE
## [99721] FALSE FALSE
## [99733] FALSE FALSE
```

```
## [99745] FALSE F
## [99757] FALSE FALSE
## [99769] FALSE FALSE
## [99781] FALSE F
## [99793] FALSE FALSE
## [99805] FALSE FALSE
## [99817] FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE
## [99829] FALSE FALSE
## [99841] FALSE FALSE
## [99853] FALSE FALSE
## [99865] FALSE F
## [99877] FALSE FALSE
## [99889] FALSE FALSE
## [99901] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE
## [99913] FALSE FALSE
## [99925] FALSE F
## [99937] FALSE FALSE
## [99949] FALSE FALSE
## [99961] FALSE FALSE
## [99973] FALSE FALSE
## [99985] FALSE FALSE
## [99997] FALSE FALSE FALSE
## [ reached getOption("max.print") -- omitted 236777 entries ]
sum(is.na(flights$arr_delay))
## [1] 9430
flights %>%
                group by(dest) %>%
        summarize(typicaldelay=mean(arr_delay))%>%
       arrange('dest',-typicaldelay)
## # A tibble: 105 x 2
##
                        dest typicaldelay
##
                          <chr>
                                                                                <dbl>
## 1 SBN
                                                                                    6.5
## 2 EYW
                                                                                    6.35
## 3 ABQ
                                                                                   4.38
## 4 ANC
                                                                                -2.5
## 5 LEX
                                                                            -22
## 6 ACK
                                                                               NA
## 7 ALB
                                                                               NA
## 8 ATL
                                                                                NA
## 9 AUS
                                                                                NΑ
## 10 AVL
## # ... with 95 more rows
#SBN, EYW and ABQ have the worst three destinations from NYC
ggplot(data=flights, aes(x=hour, y=arr_delay)) +
        geom_bar(stat="identity", fill="steelblue")+
       theme_minimal()+ ggtitle("Delays by time of day")+xlab("hour of day") + ylab("arrival delay time")
```

## Warning: Removed 9430 rows containing missing values (position\_stack).



#There is much delay time in the afternoon and night

#For the definition of flight delays can be varied from different to different.
#In my statement, I calculate the mean arrival delay time as the typical delay
#time. However, there still have other definitions like using median arrival
#delay time as the typical delay time to explain the typical delay time.

## Problem 3: Let's Fly Across the Country!

- (a) Describe and Summarize Answer the following questions in order to describe and summarize the flights data, focusing on flights from New York to Portland, OR (airport code PDX).
  - 1. How many flights were there from NYC airports to Portland in 2013?
  - 2. How many airlines fly from NYC to Portland?
  - 3. Which are these airlines (find the 2-letter abbreviations)? How many times did each of these go to Portland?
  - 4. How many unique airplanes fly from NYC to PDX? Hint: airplane tail number is a unique identifier of an airplane.
  - 5. How many different airplanes arrived from each of the three NYC airports to Portland?
  - 6. What percentage of flights to Portland were delayed at departure by more than 15 minutes?
  - 7. Is one of the New York airports noticeably worse in terms of departure delays for flights to Portland, OR than others?

```
flights %>%
filter(dest=='PDX',year=='2013')
## # A tibble: 1,354 x 19
##
       year month
                    day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##
      <int> <int> <int>
                           <int>
                                           <int>
                                                     <dbl>
                                                              <int>
##
   1 2013
                      1
                            1739
                                            1740
                                                        -1
                                                                2051
                                                                               2112
                1
   2 2013
                                                         8
##
                1
                      1
                            1805
                                            1757
                                                               2117
                                                                               2119
##
  3 2013
                      1
                            2052
                                            2029
                                                        23
                                                               2349
                                                                               2350
                1
                      2
##
   4 2013
                1
                             804
                                             805
                                                        -1
                                                               1039
                                                                               1110
##
  5 2013
                1
                      2
                            1552
                                            1550
                                                         2
                                                               1853
                                                                               1922
##
  6 2013
                1
                      2
                            1727
                                            1720
                                                         7
                                                               2042
                                                                               2040
  7 2013
                      2
                                                        -2
##
                                            1740
                                                               2028
                            1738
                                                                               2112
                1
   8 2013
                      2
##
                            2024
                                            2029
                                                        -5
                                                               2314
                                                                               2350
## 9 2013
                      3
                                                        10
                            1755
                                            1745
                                                               2110
                1
                                                                               2117
## 10 2013
                1
                      3
                            1814
                                            1727
                                                        47
                                                               2108
                                                                               2049
## # ... with 1,344 more rows, and 11 more variables: arr_delay <dbl>,
       carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
       air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flights %>%
 filter(dest=='PDX',year=='2013') %>%
 distinct(carrier)
## # A tibble: 3 x 1
##
     carrier
     <chr>>
## 1 DL
## 2 UA
## 3 B6
flights %>%
  group_by(carrier)%>%
 filter(dest=='PDX')%>%
 count(carrier)
## # A tibble: 3 x 2
## # Groups:
               carrier [3]
##
     carrier
                 n
     <chr>
             <int>
## 1 B6
               325
## 2 DL
               458
## 3 UA
               571
JetBlue #DL: Delta Air Lines #UA: United Airlines
flights %>%
filter(dest=='PDX') %>%
 distinct(tailnum)
## # A tibble: 492 x 1
##
      tailnum
##
      <chr>>
##
  1 N3761R
##
   2 N39463
## 3 N536JB
## 4 N528UA
```

```
## 5 N371DA
## 6 N438UA
## 7 N3754A
## 8 N534JB
## 9 N399DA
## 10 N14219
## # ... with 482 more rows
flights %>%
  count(origin,dest,tailnum)%>%
  filter(dest=='PDX')
## # A tibble: 492 x 4
      origin dest tailnum
##
      <chr> <chr> <chr>
                            <int>
##
    1 EWR
             PDX
                   N11206
## 2 EWR
             PDX
                   N12218
##
  3 EWR
             PDX
                   N12221
  4 EWR
##
             PDX
                  N12225
                                3
##
    5 EWR
             PDX
                   N12238
                                3
##
  6 EWR
             PDX
                   N13248
  7 EWR
             PDX
##
                   N13716
## 8 EWR
             PDX
                   N13750
                                1
## 9 EWR
             PDX
                   N14214
                                1
## 10 EWR
             PDX
                   N14219
## # ... with 482 more rows
myflights<-filter(flights,!is.na(dep_delay))</pre>
myflights
## # A tibble: 328,521 x 19
       year month
                    day dep_time sched_dep_time dep_delay arr_time sched_arr_time
      <int> <int> <int>
##
                            <int>
                                           <int>
                                                     <dbl>
                                                               <int>
                                                                              <int>
   1 2013
                                                                 830
                                                                                819
##
                1
                       1
                              517
                                             515
                                                          2
##
   2 2013
                              533
                                             529
                                                          4
                                                                 850
                                                                                830
                1
                       1
   3 2013
                                                          2
##
                      1
                              542
                                             540
                                                                 923
                                                                                850
                1
   4 2013
##
                1
                       1
                             544
                                             545
                                                         -1
                                                                1004
                                                                                1022
##
  5 2013
                      1
                             554
                                             600
                                                         -6
                                                                 812
                                                                                837
                1
##
  6 2013
                                                                                728
                1
                       1
                             554
                                             558
                                                         -4
                                                                 740
   7 2013
##
                1
                       1
                             555
                                             600
                                                         -5
                                                                 913
                                                                                854
    8 2013
                                                         -3
                                                                                723
##
                1
                       1
                             557
                                             600
                                                                 709
##
    9 2013
                              557
                                             600
                                                         -3
                                                                 838
                                                                                846
                1
                       1
## 10 2013
                             558
                                             600
                                                         -2
                                                                 753
                                                                                745
## # ... with 328,511 more rows, and 11 more variables: arr_delay <dbl>,
       carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
       air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flights_num=filter(myflights, dest=='PDX'&dep_delay>0)
flights_num
## # A tibble: 681 x 19
##
                    day dep_time sched_dep_time dep_delay arr_time sched_arr_time
       year month
##
      <int> <int> <int>
                            <int>
                                           <int>
                                                      <dbl>
                                                               <int>
                                                                              <int>
##
   1 2013
                             1805
                                            1757
                                                                2117
                                                                               2119
                1
                       1
                                                         8
##
    2 2013
                1
                       1
                             2052
                                            2029
                                                         23
                                                                2349
                                                                               2350
##
  3 2013
                      2
                             1552
                                            1550
                                                          2
                                                                1853
                                                                               1922
                1
```

```
7
##
    4 2013
                 1
                             1727
                                             1720
                                                                  2042
                                                                                  2040
##
   5 2013
                       3
                             1755
                                             1745
                                                          10
                                                                  2110
                                                                                 2117
                 1
    6 2013
                             1814
##
                       3
                                             1727
                                                          47
                                                                  2108
                                                                                 2049
   7 2013
##
                       4
                             1755
                                             1730
                                                          25
                                                                  2127
                                                                                 2046
                 1
##
    8
       2013
                 1
                       4
                             2045
                                             2029
                                                          16
                                                                  2359
                                                                                  2350
##
   9 2013
                       5
                             1759
                                             1745
                                                          14
                                                                  2117
                 1
                                                                                 2117
## 10 2013
                       5
                             2038
                                             2029
                                                                                 2350
                 1
                                                                  2339
## # ... with 671 more rows, and 11 more variables: arr delay <dbl>,
       carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
       air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flights_delayed=filter(myflights,dest=='PDX' & dep_delay>15)
flights_delayed
## # A tibble: 361 x 19
##
       year month
                     day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##
      <int> <int> <int>
                            <int>
                                            <int>
                                                       <dbl>
                                                                 <int>
##
   1 2013
                 1
                       1
                             2052
                                             2029
                                                          23
                                                                  2349
                                                                                  2350
       2013
                       3
                             1814
                                             1727
                                                          47
                                                                  2108
                                                                                  2049
##
                 1
    3 2013
                                                          25
##
                       4
                             1755
                                             1730
                                                                  2127
                                                                                  2046
                 1
   4 2013
##
                 1
                       4
                             2045
                                             2029
                                                          16
                                                                  2359
                                                                                  2350
    5 2013
##
                 1
                       6
                             2149
                                             2025
                                                          84
                                                                  104
                                                                                  2342
##
    6 2013
                 1
                       9
                             1747
                                             1727
                                                          20
                                                                  2128
                                                                                  2049
##
   7 2013
                      13
                             2134
                                                          54
                                                                                 2359
                 1
                                             2040
                                                                    17
   8 2013
##
                      17
                             1756
                                             1727
                                                          29
                                                                  2122
                                                                                 2049
                 1
   9 2013
                      17
                             2108
                                                          28
                                                                    43
                                                                                 2359
##
                 1
                                             2040
## 10 2013
                      18
                             1804
                                             1745
                                                          19
                                                                  2128
                                                                                 2117
                 1
## # ... with 351 more rows, and 11 more variables: arr delay <dbl>,
       carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
       air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flight delay = (count(flights delayed)/count(flights num))*100
flight_delay
## 1 53.01028
myflights<-filter(flights,!is.na(dep delay))</pre>
myflights
## # A tibble: 328,521 x 19
##
       year month
                     day dep_time sched_dep_time dep_delay arr_time sched_arr_time
                                                       <dbl>
##
      <int> <int> <int>
                            <int>
                                            <int>
                                                                 <int>
                                                                                <int>
   1 2013
                                                                                   819
                1
                       1
                              517
                                              515
                                                           2
                                                                   830
    2 2013
##
                              533
                                              529
                                                           4
                                                                   850
                                                                                   830
                 1
                       1
##
    3 2013
                 1
                       1
                              542
                                              540
                                                           2
                                                                   923
                                                                                   850
##
   4 2013
                 1
                       1
                              544
                                              545
                                                          -1
                                                                  1004
                                                                                  1022
##
   5 2013
                 1
                       1
                              554
                                              600
                                                          -6
                                                                   812
                                                                                   837
    6 2013
                                              558
                                                                   740
                                                                                   728
##
                 1
                       1
                              554
                                                          -4
##
   7 2013
                 1
                       1
                              555
                                              600
                                                          -5
                                                                   913
                                                                                   854
    8 2013
                                                          -3
##
                 1
                       1
                              557
                                              600
                                                                   709
                                                                                   723
##
   9 2013
                 1
                       1
                              557
                                              600
                                                          -3
                                                                   838
                                                                                  846
## 10 2013
                       1
                              558
                                              600
                                                          -2
                                                                   753
                                                                                   745
## # ... with 328,511 more rows, and 11 more variables: arr_delay <dbl>,
```

carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,

```
air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dttm>
flights %>%
  group_by(origin,dest) %>%
  filter(dest=='PDX') %>%
  summarise(departuredelay=mean(dep_delay))
## `summarise()` has grouped output by 'origin'. You can override using the `.groups` argument.
## # A tibble: 2 x 3
## # Groups:
               origin [2]
##
     origin dest departuredelay
     <chr>>
                           <dbl>
##
            <chr>
## 1 EWR
            PDX
                              NA
## 2 JFK
            PDX
                              NA
flights %>%
  group_by(origin,dest) %>%
  summarise(departuredelay=mean(dep delay))
## `summarise()` has grouped output by 'origin'. You can override using the `.groups` argument.
## # A tibble: 224 x 3
## # Groups:
               origin [3]
##
      origin dest departuredelay
##
      <chr>
             <chr>
##
   1 EWR
             ALB
                             NA
##
    2 EWR
             ANC
                             12.9
   3 EWR
                             NA
##
             ATL
   4 EWR
##
             AUS
                             NΑ
##
  5 EWR
             AVL
                             NA
  6 EWR
##
             BDL
                             NΑ
  7 EWR
##
             BNA
                             NΑ
##
   8 EWR
             BOS
                             NA
## 9 EWR
             BQN
                             NΑ
## 10 EWR
             BTV
                             NA
## # ... with 214 more rows
#No, there is no the New York airports noticeably worse in terms of departure
#delays for flights to Portland than others because for the New York airports
#in terms of departure delays for Portland are usually NA.
```

(b) Reflect and Question Comment on the questions (and answers) in this analysis. Were you able to answer all of these questions? Are all questions well defined? Is the data good enough to answer all these?

```
#For the question of What percentage of flights to Portland were delayed at #departure by more than 15 minutes? This question should be well-defined what is #the total number, is it means that all flights to Portland or means that #flights to Portland were delayed at departure? It should be explained clearer.
```

## Extra Credit

Seasonal Delays Let's get back to the question of flight delays. Flight delays may be partly related to weather, as you might have experienced for yourself. We do not have weather information here but let's analyze how it is related to season. Which seasons have the worst flights delays? Why might this be the case? In your communication of your analysis use one graphical visualization and one tabular respresentation of your findings.