

# Data Transformation

Miguel Fudolig

## 1 Data Frames

### 1.1 Data Frames

Data frames are the two-dimensional version of a list. They are far and away the most useful storage structure for data analysis.

#### Tip

You can think of a data frame as R's equivalent to the Excel spreadsheet because it stores data in a similar format.

You can create a data frame using the `data.frame()` function.

```
ex_dataframe <- data.frame(ID = c(1,2), Animal=c("dog","cat"))
ex_dataframe
```

	ID	Animal
1	1	dog
2	2	cat

### 1.2 Data Frame Properties

#### 1.2.1 Column Names

You can access the names of a data frame using the snippet `names([DATA FRAME NAME])`

```
names(ex_dataframe)
```

```
[1] "ID"      "Animal"
```

### 1.2.2 Details

You can determine the type of vectors for each column using the snippet `str([DATA FRAME NAME])`.

```
str(ex_dataframe)
```

```
'data.frame':  2 obs. of  2 variables:
 $ ID      : num  1 2
 $ Animal: chr  "dog" "cat"
```

### 1.2.3 Column Vectors

You can call a single column using the `$` argument in the following format: `DATAFRAME_NAME$COLUMN_NAME`

```
ex_dataframe$ID
```

```
[1] 1 2
```

```
ex_dataframe$Animal
```

```
[1] "dog" "cat"
```

```
ex_dataframe$ID * 5
```

```
[1]  5 10
```

### 1.2.4 Dimensions

The dimensions of the data frame can be calculated using the snippet: `dim([INSERT DATA FRAME NAME HERE])` command.

```
dim(ex_dataframe)
```

```
[1] 2 2
```

## 2 Importing Data

### 2.1 Importing Data

Data can be imported from external files, URLs, or from existing R packages.

#### Note

R can input a wide variety of data files with the help of some packages. Some commonly used data file extensions are `.csv` (most recommended), `.xlsx`, `.sav`, `.sas7bdat`, `.xml`, etc.

We will focus on importing CSVs or existing data from packages in this workshop.

### 2.2 Importing CSV files

The function `read.csv()` imports CSV files into R.

```
case_information<- read.csv("Case_Information.csv")
```

```
View(case_information)
```

①

① `View()` displays the data in a more interactive setting on R Studio.

### 2.3 Importing Data Frames from packages

Some packages have pre-loaded data sets. For example, the package `nycflights13` has multiple data sets such as `flights`. This dataset contains all 336,776 flights that departed from New York City in 2013. These could be accessed after installing the package.

#### 2.3.1 Method 1

We can access any function/file in a package using the `::` argument. For example, if we want to access `flights` in the `nycflights13` package without loading the package, we can use the following syntax:

```
nycflights13::flights
```

```
# A tibble: 336,776 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     1     1     517           515           2     830           819
2  2013     1     1     533           529           4     850           830
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     1     1     554           558          -4     740           728
7  2013     1     1     555           600          -5     913           854
8  2013     1     1     557           600          -3     709           723
9  2013     1     1     557           600          -3     838           846
10 2013     1     1     558           600          -2     753           745
# i 336,766 more rows
# i 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 <dtm>
```

### 2.3.2 Method 2

We can load `nycflights13` first, which gives us access to the `flights` data set.

```
library(nycflights13)
flights
```

```
# A tibble: 336,776 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     1     1     517           515           2     830           819
2  2013     1     1     533           529           4     850           830
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     1     1     554           558          -4     740           728
7  2013     1     1     555           600          -5     913           854
8  2013     1     1     557           600          -3     709           723
9  2013     1     1     557           600          -3     838           846
10 2013     1     1     558           600          -2     753           745
# i 336,766 more rows
# i 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 <dtm>
```

### Warning

Sometimes, two packages share the same names for functions with different purposes, leading to an event called *aliasing*. To avoid confusion, more experienced programmers use the `::` argument. For basic users, Method 2 should suffice.

## 3 dplyr

### 3.1 dplyr

The `dplyr` package, which is included in the `tidyverse`, includes functions that can greatly help you with data manipulation. In this package, you can operate on data rows, data columns, groups, or entire data frames.

To use `dplyr`, we need to import the `tidyverse` package.

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.2      v tibble     3.3.0
v lubridate  1.9.4      v tidyr      1.3.1
v purrr      1.1.0
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

## 4 Row Operations

### 4.1 Rows

Some of the most important `dplyr` functions that involve rows are the following: `filter()`, `arrange()`, and `distinct()`.

## 4.2 filter()

`filter()` allows you to keep rows based on the values of the columns. The syntax of `filter()` follows the format:

```
filter(DATAFRAME_NAME, BOOLEAN_CONDITION)
```

## 4.3 Boolean Operators

Boolean operations, are a system of logic that result in a `TRUE` or `FALSE` outcome. These operations combine operators like `AND (&)`, `OR (|)`, and `NOT (!)` to combine or modify search terms, expressions, or values, resulting in a true or false outcome.

### 4.3.1 Commonly used operators

Other commonly used operators include:

- The equality boolean operator `==`,
- The inequalities `<` `>` `<=` `>=`,
- The function `between()` in `dplyr`,
- `%in%`, which tests whether a particular value is in a vector,
- `grep` which looks for a pattern within character vectors.

### 4.3.2 Examples

```
x <- 1
y <- 2

x < y
```

```
[1] TRUE
```

```
x > y
```

```
[1] FALSE
```

```
x == y
```

```
[1] FALSE
```

```
cats <- c("Alice","Bob")  
"Alice" %in% cats
```

```
[1] TRUE
```

```
grepl("Al",cats)
```

```
[1] TRUE FALSE
```

## 4.4 Filtering Rows

We can filter rows of interest using one or a combination of boolean operations. Let's examine the `flights` data set.

### 4.4.1 Example 1

Suppose we want to find the flights that departed more than 120 minutes (two hours) late:

```
library(nycflights13)  
names(flights)
```

```
[1] "year"          "month"          "day"            "dep_time"  
[5] "sched_dep_time" "dep_delay"      "arr_time"       "sched_arr_time"  
[9] "arr_delay"      "carrier"        "flight"         "tailnum"  
[13] "origin"         "dest"           "air_time"       "distance"  
[17] "hour"           "minute"         "time_hour"
```

```
filter(flights, dep_delay > 120)
```

```
# A tibble: 9,723 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	1	1	848	1835	853	1001	1950
2	2013	1	1	957	733	144	1056	853
3	2013	1	1	1114	900	134	1447	1222
4	2013	1	1	1540	1338	122	2020	1825

```

5 2013      1      1      1815              1325      290      2120              1542
6 2013      1      1      1842              1422      260      1958              1535
7 2013      1      1      1856              1645      131      2212              2005
8 2013      1      1      1934              1725      129      2126              1855
9 2013      1      1      1938              1703      155      2109              1823
10 2013     1      1      1942              1705      157      2124              1830
# i 9,713 more rows
# i 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 <dtm>

```

#### 4.4.2 Example 2

Suppose we want to examine the flights by carrier AA (American Airlines).

```
filter(flights, carrier=="AA")
```

```

# A tibble: 32,729 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     1     1     542           540         2      923           850
2  2013     1     1     558           600        -2      753           745
3  2013     1     1     559           600        -1      941           910
4  2013     1     1     606           610        -4      858           910
5  2013     1     1     623           610        13      920           915
6  2013     1     1     628           630        -2     1137          1140
7  2013     1     1     629           630        -1      824           810
8  2013     1     1     635           635         0     1028           940
9  2013     1     1     656           700        -4      854           850
10 2013     1     1     656           659        -3      949           959
# i 32,719 more rows
# i 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 <dtm>

```

#### 4.4.3 Example 3

Suppose we want to examine the flights by carrier AA (American Airlines) and are delayed by more than 120 minutes.



```
filter(flights, carrier=="AA" & dep_delay > 120)
```

```
# A tibble: 720 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	1	1	1856	1645	131	2212	2005
2	2013	1	1	2205	1720	285	46	2040
3	2013	1	2	1607	1030	337	2003	1355
4	2013	1	2	1751	1450	181	2041	1755
5	2013	1	3	854	630	144	1057	810
6	2013	1	3	909	700	129	1103	850
7	2013	1	3	1758	1550	128	2240	2050
8	2013	1	3	1821	1530	171	2131	1910
9	2013	1	4	1305	1030	155	1452	1210
10	2013	1	4	1917	1700	137	2135	1950

```
# i 710 more rows
```

```
# i 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 <dtm>
```

#### 4.4.4 Example 4

Suppose we want to examine the flights by carrier AA (American Airlines) OR flights that took off from the JFK airport.

```
filter(flights, carrier=="AA" | origin=="JFK")
```

```
# A tibble: 130,225 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	1	1	542	540	2	923	850
2	2013	1	1	544	545	-1	1004	1022
3	2013	1	1	557	600	-3	838	846
4	2013	1	1	558	600	-2	753	745
5	2013	1	1	558	600	-2	849	851
6	2013	1	1	558	600	-2	853	856
7	2013	1	1	558	600	-2	924	917
8	2013	1	1	559	600	-1	941	910
9	2013	1	1	559	559	0	702	706
10	2013	1	1	606	610	-4	858	910

```
# i 130,215 more rows
# i 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 <dtm>
```

## 4.5 Exercise

Perform the following filters on the `case_information` data set.

### 4.5.1 Exercise 1

Create a data set “older” defined by all the cases aged 60 and above ( $\geq 60$ ).

### 4.5.2 Answer 1

```
older <- filter(case_information, age >= 60)
head(older)
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C387710	60	60 to 64	Female	2020-02-05	2020-01-31	<NA>
2	C498051	62	60 to 64	Male	2020-03-06	<NA>	2020-03-11
3	C557002	86	80+	Male	2020-03-08	<NA>	2020-03-14
4	C261144	68	65 to 69	Female	2020-03-09	<NA>	<NA>
5	C348794	70	70 to 74	Male	2020-03-09	<NA>	<NA>
6	C787672	72	70 to 74	Male	2020-03-09	2020-03-27	<NA>

  

	status	date_announced_as_removed	province	muni_city
1	Recovered	2020-02-05	Bohol	Panglao
2	Died	2020-03-12	Rizal	Cainta
3	Died	2020-03-15	Metropolitan Manila	Marikina
4	Recovered	2020-03-21	Metropolitan Manila	San Juan
5	Recovered	2020-03-21	Metropolitan Manila	San Juan
6	Recovered	2020-03-28	Metropolitan Manila	San Juan

  

	health_status	home_quarantined	date_of_onset_of_symptoms	pregnant
1	Recovered	No	2020-01-21	<NA>
2	Died	No	2020-02-25	<NA>
3	Died	No	2020-03-01	<NA>
4	Recovered	Yes	2020-03-02	<NA>
5	Recovered	Yes	2020-03-01	<NA>
6	Recovered	Yes	2020-03-07	<NA>

  

	region
1	
2	
3	
4	
5	
6	

```

1 Central Visayas (Region VII)
2     CALABARZON (Region IV-A)
3     Metropolitan Manila
4     Metropolitan Manila
5     Metropolitan Manila
6     Metropolitan Manila

```

### 4.5.3 Exercise 2

Create a data set “young\_males” defined by all the male cases aged 40 and below ( $\leq 40$ )

### 4.5.4 Answer 2

```
young_males <- filter(case_information, age <=40 & sex == "Male" )
```

## 4.6 arrange()

`arrange()` changes the order of the rows based on the value of the columns.

#### Tip

`arrange()` by default arranges in increasing order. The `desc()` can be used to arrange in descending order.

## 4.7 Sorting Rows

### 4.7.1 Example 1

We can get a sorted data frame based on month, day, and departure time in the data set `flights`, which we can assign as a separate variable.

```
head(arrange(flights,month,day,dep_time))
```

```

# A tibble: 6 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     1     1     517           515             2     830           819
2  2013     1     1     533           529             4     850           830

```

```

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      1      1      554          558         -4      740          728
# i 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 <dtm>

```

```

sorted_flights <- arrange(flights, month, day, dep_time)
head(sorted_flights)

```

```

# A tibble: 6 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     1     1     517           515           2     830           819
2 2013     1     1     533           529           4     850           830
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     1     1     554           558          -4     740           728
# i 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 <dtm>

```

## 4.7.2 Example 2

We can also sort different columns in different orders (ascending/descending)

```

latebirds <- arrange(flights, carrier, desc(dep_delay))
head(latebirds)

```

```

# A tibble: 6 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     2    16     757           1930          747    1013          2149
2 2013     7    24    1525           815          430    1808          1030
3 2013    11    27    1503           815          408    1628           952
4 2013     2    27    1529           845          404    1639          1015
5 2013     7     7    2228          1559          389     NA           1828
6 2013     6    25    1421           805          376    1602           950
# i 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 <dtm>
```

### 4.7.3 Example 3

We can use both `filter()` and `arrange()` sequentially. Suppose we want to filter out delay times higher than 120 minutes then sort the flights in increasing order.

```
filterfirst <- filter(flights, dep_delay > 120)
arrange(filterfirst, dep_delay)
```

```
# A tibble: 9,723 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     1     1    2009             1808         121    2145             1942
2  2013     1    16    1121             920         121    1501             1245
3  2013     1    16    1419            1218         121    1623             1415
4  2013     1    16    2101            1900         121    2252             2057
5  2013     1    16    2141            1940         121     35             2249
6  2013     1    16    2256            2055         121     103             2250
7  2013     1    17     801             600         121    1002             801
8  2013     1    19    1930            1729         121    2229             2049
9  2013     1    20    2135            1934         121     33             2219
10 2013     1    22    2201            2000         121    2330             2147
# i 9,713 more rows
# i 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 <dtm>
```

## 4.8 Exercise

Use the `case_information` data set to perform the following exercises.

### 4.8.1 Exercise 1

Suppose we want to create a data set that includes cases who were female and listed as recovered and assign it to a variable named `fem_rec`.

#### 4.8.2 Answer 1

```
fem_rec <-filter(case_information,sex=="Female" & status=="Recovered")
fem_rec
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C404174	38	35 to 39	Female	2020-01-30	<NA>	<NA>
2	C387710	60	60 to 64	Female	2020-02-05	2020-01-31	<NA>
3	C261144	68	65 to 69	Female	2020-03-09	<NA>	<NA>
4	C325527	59	55 to 59	Female	2020-03-09	2020-04-06	<NA>
5	C777589	31	30 to 34	Female	2020-03-09	2020-03-24	<NA>
6	C817111	47	45 to 49	Female	2020-03-09	2020-03-26	<NA>
7	C985840	51	50 to 54	Female	2020-03-09	<NA>	<NA>
8	C501602	29	25 to 29	Female	2020-03-10	2020-03-24	<NA>
9	C767909	70	70 to 74	Female	2020-03-10	<NA>	<NA>
10	C870329	43	40 to 44	Female	2020-03-10	2020-04-01	<NA>
11	C393029	67	65 to 69	Female	2020-03-11	<NA>	<NA>
12	C807159	76	75 to 79	Female	2020-03-11	<NA>	<NA>
13	C817385	70	70 to 74	Female	2020-03-11	<NA>	<NA>
14	C130666	60	60 to 64	Female	2020-03-13	<NA>	<NA>
15	C606394	70	70 to 74	Female	2020-03-13	<NA>	<NA>
16	C975309	46	45 to 49	Female	2020-03-13	2020-03-30	<NA>
17	C277750	58	55 to 59	Female	2020-03-14	2020-04-05	<NA>
18	C349589	66	65 to 69	Female	2020-03-14	2020-03-10	<NA>
19	C485873	24	20 to 24	Female	2020-03-14	2020-04-03	<NA>
20	C514585	28	25 to 29	Female	2020-03-14	<NA>	<NA>
21	C515578	26	25 to 29	Female	2020-03-14	2020-04-05	<NA>
22	C537086	64	60 to 64	Female	2020-03-14	2020-03-24	<NA>
23	C619851	64	60 to 64	Female	2020-03-14	<NA>	<NA>
24	C681361	28	25 to 29	Female	2020-03-14	<NA>	<NA>
25	C720393	28	25 to 29	Female	2020-03-14	<NA>	<NA>
26	C807911	77	75 to 79	Female	2020-03-14	<NA>	<NA>
27	C120448	45	45 to 49	Female	2020-03-15	<NA>	<NA>
28	C142155	47	45 to 49	Female	2020-03-15	2020-03-22	<NA>
29	C219159	32	30 to 34	Female	2020-03-15	2020-04-04	<NA>
30	C282744	30	30 to 34	Female	2020-03-15	<NA>	<NA>
31	C426596	47	45 to 49	Female	2020-03-15	<NA>	<NA>
32	C473368	22	20 to 24	Female	2020-03-15	2020-03-23	<NA>
33	C629613	30	30 to 34	Female	2020-03-15	<NA>	<NA>
34	C636165	25	25 to 29	Female	2020-03-15	2020-04-14	<NA>
35	C732779	28	25 to 29	Female	2020-03-15	<NA>	<NA>
36	C921385	29	25 to 29	Female	2020-03-15	<NA>	<NA>

37	C993875	13	10 to 14	Female	2020-03-15	<NA>	<NA>
38	C211998	70	70 to 74	Female	2020-03-17	2020-03-24	<NA>
39	C241579	28	25 to 29	Female	2020-03-17	2020-04-27	<NA>
40	C304273	58	55 to 59	Female	2020-03-17	<NA>	<NA>
41	C343398	58	55 to 59	Female	2020-03-17	2020-04-02	<NA>
42	C344610	33	30 to 34	Female	2020-03-17	<NA>	<NA>
43	C387498	74	70 to 74	Female	2020-03-17	2020-03-23	<NA>
44	C449148	28	25 to 29	Female	2020-03-17	<NA>	<NA>
45	C480877	29	25 to 29	Female	2020-03-17	2020-04-04	<NA>
46	C540661	78	75 to 79	Female	2020-03-17	<NA>	<NA>
47	C569725	28	25 to 29	Female	2020-03-17	<NA>	<NA>
48	C634425	40	40 to 44	Female	2020-03-17	<NA>	<NA>
49	C684749	74	70 to 74	Female	2020-03-17	<NA>	<NA>
50	C709746	66	65 to 69	Female	2020-03-17	2020-03-28	<NA>
51	C722712	51	50 to 54	Female	2020-03-17	2020-04-07	<NA>
52	C922848	82	80+	Female	2020-03-17	<NA>	<NA>
53	C975646	56	55 to 59	Female	2020-03-17	<NA>	<NA>
54	C166070	86	80+	Female	2020-03-18	2020-03-30	<NA>
55	C230883	37	35 to 39	Female	2020-03-18	<NA>	<NA>
56	C438539	42	40 to 44	Female	2020-03-18	2020-04-18	<NA>
57	C864380	70	70 to 74	Female	2020-03-18	<NA>	<NA>
58	C911472	42	40 to 44	Female	2020-03-18	2020-04-22	<NA>
59	C181210	74	70 to 74	Female	2020-03-19	<NA>	<NA>
60	C293715	60	60 to 64	Female	2020-03-19	<NA>	<NA>
61	C300421	32	30 to 34	Female	2020-03-19	<NA>	<NA>
62	C575823	35	35 to 39	Female	2020-03-19	<NA>	<NA>
63	C104303	49	45 to 49	Female	2020-03-20	2020-04-09	<NA>
64	C409391	68	65 to 69	Female	2020-03-20	2020-04-20	<NA>
65	C982064	34	30 to 34	Female	2020-03-20	2020-04-12	<NA>
66	C132366	55	55 to 59	Female	2020-03-21	2020-04-09	<NA>
67	C149111	38	35 to 39	Female	2020-03-21	<NA>	<NA>
68	C150444	61	60 to 64	Female	2020-03-21	2020-04-06	<NA>
69	C178208	37	35 to 39	Female	2020-03-21	<NA>	<NA>
70	C183226	45	45 to 49	Female	2020-03-21	2020-03-28	<NA>
71	C185901	52	50 to 54	Female	2020-03-21	2020-04-07	<NA>
72	C210669	23	20 to 24	Female	2020-03-21	2020-04-15	<NA>
73	C269362	64	60 to 64	Female	2020-03-21	<NA>	<NA>
74	C323039	35	35 to 39	Female	2020-03-21	<NA>	<NA>
75	C355505	58	55 to 59	Female	2020-03-21	2020-04-02	<NA>
76	C410026	83	80+	Female	2020-03-21	<NA>	<NA>
77	C424972	59	55 to 59	Female	2020-03-21	<NA>	<NA>
78	C425817	41	40 to 44	Female	2020-03-21	<NA>	<NA>
79	C435274	64	60 to 64	Female	2020-03-21	2020-04-07	<NA>

80	C471822	48	45 to 49	Female	2020-03-21	<NA>	<NA>
81	C514522	24	20 to 24	Female	2020-03-21	<NA>	<NA>
82	C624796	56	55 to 59	Female	2020-03-21	2020-03-30	<NA>
83	C663375	57	55 to 59	Female	2020-03-21	<NA>	<NA>
84	C688695	32	30 to 34	Female	2020-03-21	2020-04-11	<NA>
85	C712639	33	30 to 34	Female	2020-03-21	<NA>	<NA>
86	C719189	90	80+	Female	2020-03-21	<NA>	<NA>
87	C765859	63	60 to 64	Female	2020-03-21	2020-03-29	<NA>
88	C773045	54	50 to 54	Female	2020-03-21	<NA>	<NA>
89	C789333	56	55 to 59	Female	2020-03-21	<NA>	<NA>
90	C806621	30	30 to 34	Female	2020-03-21	<NA>	<NA>
91	C839769	31	30 to 34	Female	2020-03-21	2020-04-22	<NA>
92	C922315	31	30 to 34	Female	2020-03-21	2020-03-27	<NA>
93	C197781	31	30 to 34	Female	2020-03-22	<NA>	<NA>
94	C200237	54	50 to 54	Female	2020-03-22	2020-04-13	<NA>
95	C216146	22	20 to 24	Female	2020-03-22	<NA>	<NA>
96	C237405	27	25 to 29	Female	2020-03-22	<NA>	<NA>
97	C248091	52	50 to 54	Female	2020-03-22	2020-04-02	<NA>
98	C287594	67	65 to 69	Female	2020-03-22	<NA>	<NA>
99	C294505	62	60 to 64	Female	2020-03-22	2020-04-17	<NA>
100	C321293	28	25 to 29	Female	2020-03-22	<NA>	<NA>
101	C366638	68	65 to 69	Female	2020-03-22	<NA>	<NA>
102	C488443	31	30 to 34	Female	2020-03-22	2020-04-12	<NA>
103	C528635	69	65 to 69	Female	2020-03-22	<NA>	<NA>
104	C559116	57	55 to 59	Female	2020-03-22	2020-04-02	<NA>
105	C622739	41	40 to 44	Female	2020-03-22	2020-04-20	<NA>
106	C704287	26	25 to 29	Female	2020-03-22	2020-04-22	<NA>
107	C710303	30	30 to 34	Female	2020-03-22	2020-04-23	<NA>
108	C816032	44	40 to 44	Female	2020-03-22	2020-04-07	<NA>
109	C841094	20	20 to 24	Female	2020-03-22	2020-04-12	<NA>
110	C873579	58	55 to 59	Female	2020-03-22	2020-04-19	<NA>
111	C106112	64	60 to 64	Female	2020-03-23	<NA>	<NA>
112	C124064	32	30 to 34	Female	2020-03-23	2020-04-10	<NA>
113	C197455	61	60 to 64	Female	2020-03-23	<NA>	<NA>
114	C300683	45	45 to 49	Female	2020-03-23	<NA>	<NA>
115	C325426	56	55 to 59	Female	2020-03-23	2020-04-15	<NA>
116	C359190	57	55 to 59	Female	2020-03-23	<NA>	<NA>
117	C371148	28	25 to 29	Female	2020-03-23	<NA>	<NA>
118	C510717	43	40 to 44	Female	2020-03-23	<NA>	<NA>
119	C757815	64	60 to 64	Female	2020-03-23	2020-04-15	<NA>
120	C785897	57	55 to 59	Female	2020-03-23	<NA>	<NA>
121	C808692	64	60 to 64	Female	2020-03-23	<NA>	<NA>
122	C853535	61	60 to 64	Female	2020-03-23	2020-04-02	<NA>



123	C913689	71	70 to 74	Female	2020-03-23	<NA>	<NA>
124	C919290	67	65 to 69	Female	2020-03-23	<NA>	<NA>
125	C939135	57	55 to 59	Female	2020-03-23	2020-04-09	<NA>
126	C133945	56	55 to 59	Female	2020-03-24	2020-03-31	<NA>
127	C207813	69	65 to 69	Female	2020-03-24	2020-04-30	<NA>
128	C220552	62	60 to 64	Female	2020-03-24	2020-04-07	<NA>
129	C220732	38	35 to 39	Female	2020-03-24	2020-04-08	<NA>
130	C285782	40	40 to 44	Female	2020-03-24	<NA>	<NA>
131	C352410	34	30 to 34	Female	2020-03-24	2020-03-25	<NA>
132	C377300	52	50 to 54	Female	2020-03-24	2020-03-27	<NA>
133	C395478	76	75 to 79	Female	2020-03-24	2020-03-31	<NA>
134	C428089	55	55 to 59	Female	2020-03-24	2020-04-13	<NA>
135	C428638	30	30 to 34	Female	2020-03-24	<NA>	<NA>
136	C445103	63	60 to 64	Female	2020-03-24	<NA>	<NA>
137	C468288	59	55 to 59	Female	2020-03-24	2020-03-29	<NA>
138	C500550	49	45 to 49	Female	2020-03-24	2020-04-11	<NA>
139	C510749	41	40 to 44	Female	2020-03-24	2020-04-20	<NA>
140	C567939	31	30 to 34	Female	2020-03-24	<NA>	<NA>
141	C653437	73	70 to 74	Female	2020-03-24	<NA>	<NA>
142	C674996	50	50 to 54	Female	2020-03-24	2020-04-01	<NA>
143	C710775	56	55 to 59	Female	2020-03-24	<NA>	<NA>
144	C735090	75	75 to 79	Female	2020-03-24	<NA>	<NA>
145	C743269	70	70 to 74	Female	2020-03-24	<NA>	<NA>
146	C802316	28	25 to 29	Female	2020-03-24	<NA>	<NA>
147	C806212	35	35 to 39	Female	2020-03-24	<NA>	<NA>
148	C831975	75	75 to 79	Female	2020-03-24	<NA>	<NA>
149	C855339	70	70 to 74	Female	2020-03-24	2020-04-30	<NA>
150	C857482	50	50 to 54	Female	2020-03-24	2020-03-29	<NA>
151	C912133	64	60 to 64	Female	2020-03-24	<NA>	<NA>
152	C102036	34	30 to 34	Female	2020-03-25	2020-04-02	<NA>
153	C161023	24	20 to 24	Female	2020-03-25	<NA>	<NA>
154	C188411	68	65 to 69	Female	2020-03-25	<NA>	<NA>
155	C266830	21	20 to 24	Female	2020-03-25	2020-04-13	<NA>
156	C332962	37	35 to 39	Female	2020-03-25	2020-04-08	<NA>
157	C339765	27	25 to 29	Female	2020-03-25	<NA>	<NA>
158	C342796	27	25 to 29	Female	2020-03-25	<NA>	<NA>
159	C352167	58	55 to 59	Female	2020-03-25	2020-03-26	<NA>
160	C493926	25	25 to 29	Female	2020-03-25	<NA>	<NA>
161	C612826	61	60 to 64	Female	2020-03-25	2020-04-03	<NA>
162	C627456	55	55 to 59	Female	2020-03-25	<NA>	<NA>
163	C705501	73	70 to 74	Female	2020-03-25	<NA>	<NA>
164	C736613	51	50 to 54	Female	2020-03-25	2020-04-13	<NA>
165	C746231	42	40 to 44	Female	2020-03-25	2020-03-30	<NA>

166	C760927	57	55 to 59	Female	2020-03-25	<NA>	<NA>
167	C768938	50	50 to 54	Female	2020-03-25	<NA>	<NA>
168	C783500	59	55 to 59	Female	2020-03-25	<NA>	<NA>
169	C869394	60	60 to 64	Female	2020-03-25	<NA>	<NA>
170	C893399	49	45 to 49	Female	2020-03-25	<NA>	<NA>
171	C896443	29	25 to 29	Female	2020-03-25	2020-04-25	<NA>
172	C939061	68	65 to 69	Female	2020-03-25	2020-04-09	<NA>
173	C952048	34	30 to 34	Female	2020-03-25	2020-04-07	<NA>
174	C980899	52	50 to 54	Female	2020-03-25	<NA>	<NA>
175	C347602	71	70 to 74	Female	2020-03-26	<NA>	<NA>
176	C352960	53	50 to 54	Female	2020-03-26	2020-04-03	<NA>
177	C365642	31	30 to 34	Female	2020-03-26	2020-04-02	<NA>
178	C650294	46	45 to 49	Female	2020-03-26	<NA>	<NA>
179	C686715	69	65 to 69	Female	2020-03-26	2020-04-25	<NA>
180	C699761	71	70 to 74	Female	2020-03-26	2020-04-08	<NA>
181	C778834	53	50 to 54	Female	2020-03-26	<NA>	<NA>
182	C931240	67	65 to 69	Female	2020-03-26	<NA>	<NA>
183	C111284	48	45 to 49	Female	2020-03-27	<NA>	<NA>
184	C127894	62	60 to 64	Female	2020-03-27	<NA>	<NA>
185	C139370	38	35 to 39	Female	2020-03-27	<NA>	<NA>
186	C245014	67	65 to 69	Female	2020-03-27	2020-04-10	<NA>
187	C250220	78	75 to 79	Female	2020-03-27	2020-04-10	<NA>
188	C262048	25	25 to 29	Female	2020-03-27	<NA>	<NA>
189	C281354	32	30 to 34	Female	2020-03-27	<NA>	<NA>
190	C284224	53	50 to 54	Female	2020-03-27	2020-04-03	<NA>
191	C299646	71	70 to 74	Female	2020-03-27	<NA>	<NA>
192	C308118	41	40 to 44	Female	2020-03-27	2020-04-08	<NA>
193	C308159	38	35 to 39	Female	2020-03-27	2020-04-04	<NA>
194	C421736	58	55 to 59	Female	2020-03-27	<NA>	<NA>
195	C426000	46	45 to 49	Female	2020-03-27	2020-04-19	<NA>
196	C429534	75	75 to 79	Female	2020-03-27	2020-03-18	<NA>
197	C440641	59	55 to 59	Female	2020-03-27	<NA>	<NA>
198	C445897	43	40 to 44	Female	2020-03-27	<NA>	<NA>
199	C478098	87	80+	Female	2020-03-27	<NA>	<NA>
200	C498197	39	35 to 39	Female	2020-03-27	<NA>	<NA>
201	C675740	70	70 to 74	Female	2020-03-27	<NA>	<NA>
202	C678428	53	50 to 54	Female	2020-03-27	2020-03-22	<NA>
203	C684627	30	30 to 34	Female	2020-03-27	<NA>	<NA>
204	C693569	64	60 to 64	Female	2020-03-27	<NA>	<NA>
205	C715116	31	30 to 34	Female	2020-03-27	2020-04-11	<NA>
206	C742418	76	75 to 79	Female	2020-03-27	2020-04-15	<NA>
207	C841187	68	65 to 69	Female	2020-03-27	<NA>	<NA>
208	C850641	55	55 to 59	Female	2020-03-27	<NA>	<NA>

209	C101875	31	30 to 34	Female	2020-03-28	<NA>	<NA>
210	C108997	31	30 to 34	Female	2020-03-28	<NA>	<NA>
211	C143142	50	50 to 54	Female	2020-03-28	<NA>	<NA>
212	C146312	26	25 to 29	Female	2020-03-28	<NA>	<NA>
213	C156063	38	35 to 39	Female	2020-03-28	2020-04-04	<NA>
214	C162611	52	50 to 54	Female	2020-03-28	2020-04-02	<NA>
215	C163620	35	35 to 39	Female	2020-03-28	2020-04-14	<NA>
216	C169234	54	50 to 54	Female	2020-03-28	2020-04-16	<NA>
217	C173939	33	30 to 34	Female	2020-03-28	<NA>	<NA>
218	C179347	38	35 to 39	Female	2020-03-28	<NA>	<NA>
219	C180347	67	65 to 69	Female	2020-03-28	2020-03-25	<NA>
220	C197303	54	50 to 54	Female	2020-03-28	2020-04-18	<NA>
221	C214346	22	20 to 24	Female	2020-03-28	2020-04-09	<NA>
222	C222030	46	45 to 49	Female	2020-03-28	<NA>	<NA>
223	C225389	2	0 to 4	Female	2020-03-28	2020-04-06	<NA>
224	C265238	85	80+	Female	2020-03-28	2020-04-12	<NA>
225	C290236	53	50 to 54	Female	2020-03-28	<NA>	<NA>
226	C292020	61	60 to 64	Female	2020-03-28	2020-05-07	<NA>
227	C304256	40	40 to 44	Female	2020-03-28	<NA>	<NA>
228	C305492	63	60 to 64	Female	2020-03-28	<NA>	<NA>
229	C305501	31	30 to 34	Female	2020-03-28	2020-04-14	<NA>
230	C307524	56	55 to 59	Female	2020-03-28	<NA>	<NA>
231	C340209	53	50 to 54	Female	2020-03-28	<NA>	<NA>
232	C343642	66	65 to 69	Female	2020-03-28	<NA>	<NA>
233	C347605	65	65 to 69	Female	2020-03-28	2020-04-04	<NA>
234	C362483	57	55 to 59	Female	2020-03-28	2020-04-11	<NA>
235	C385630	35	35 to 39	Female	2020-03-28	<NA>	<NA>
236	C406812	38	35 to 39	Female	2020-03-28	2020-04-20	<NA>
237	C412061	37	35 to 39	Female	2020-03-28	2020-04-01	<NA>
238	C413891	59	55 to 59	Female	2020-03-28	2020-04-20	<NA>
239	C426557	23	20 to 24	Female	2020-03-28	2020-04-09	<NA>
240	C440640	70	70 to 74	Female	2020-03-28	<NA>	<NA>
241	C446507	87	80+	Female	2020-03-28	2020-04-01	<NA>
242	C467667	6	5 to 9	Female	2020-03-28	2020-04-07	<NA>
243	C477723	56	55 to 59	Female	2020-03-28	<NA>	<NA>
244	C503274	17	15 to 19	Female	2020-03-28	<NA>	<NA>
245	C517144	51	50 to 54	Female	2020-03-28	<NA>	<NA>
246	C532653	58	55 to 59	Female	2020-03-28	<NA>	<NA>
247	C534449	67	65 to 69	Female	2020-03-28	2020-04-03	<NA>
248	C545586	39	35 to 39	Female	2020-03-28	2020-04-27	<NA>
249	C587464	47	45 to 49	Female	2020-03-28	2020-04-04	<NA>
250	C589042	74	70 to 74	Female	2020-03-28	2020-04-10	<NA>
251	C599822	33	30 to 34	Female	2020-03-28	<NA>	<NA>

252	C610342	71	70 to 74 Female	2020-03-28	<NA>	<NA>
253	C610398	89	80+ Female	2020-03-28	<NA>	<NA>
254	C617794	53	50 to 54 Female	2020-03-28	2020-04-14	<NA>
255	C625504	51	50 to 54 Female	2020-03-28	<NA>	<NA>
256	C656307	24	20 to 24 Female	2020-03-28	<NA>	<NA>
257	C693453	54	50 to 54 Female	2020-03-28	2020-04-14	<NA>
258	C705479	46	45 to 49 Female	2020-03-28	2020-04-09	<NA>
259	C707508	72	70 to 74 Female	2020-03-28	2020-04-25	<NA>
260	C717787	32	30 to 34 Female	2020-03-28	2020-04-14	<NA>
261	C749711	46	45 to 49 Female	2020-03-28	<NA>	<NA>
262	C760441	68	65 to 69 Female	2020-03-28	2020-04-07	<NA>
263	C760925	67	65 to 69 Female	2020-03-28	<NA>	<NA>
264	C766808	47	45 to 49 Female	2020-03-28	<NA>	<NA>
265	C783291	67	65 to 69 Female	2020-03-28	2020-04-08	<NA>
266	C883906	69	65 to 69 Female	2020-03-28	<NA>	<NA>
267	C891826	72	70 to 74 Female	2020-03-28	2020-04-05	<NA>
268	C902964	46	45 to 49 Female	2020-03-28	2020-03-20	<NA>
269	C903446	21	20 to 24 Female	2020-03-28	2020-04-21	<NA>
270	C917478	32	30 to 34 Female	2020-03-28	<NA>	<NA>
271	C921000	66	65 to 69 Female	2020-03-28	2020-04-08	<NA>
272	C928082	29	25 to 29 Female	2020-03-28	2020-04-18	<NA>
273	C933303	53	50 to 54 Female	2020-03-28	2020-04-04	<NA>
274	C951625	50	50 to 54 Female	2020-03-28	<NA>	<NA>
275	C957660	63	60 to 64 Female	2020-03-28	2020-04-11	<NA>
276	C984002	41	40 to 44 Female	2020-03-28	<NA>	<NA>
277	C989106	34	30 to 34 Female	2020-03-28	<NA>	<NA>
278	C104241	60	60 to 64 Female	2020-03-29	2020-03-31	<NA>
279	C114247	64	60 to 64 Female	2020-03-29	2020-04-06	<NA>
280	C145502	63	60 to 64 Female	2020-03-29	2020-04-10	<NA>
281	C148615	36	35 to 39 Female	2020-03-29	<NA>	<NA>
282	C159956	30	30 to 34 Female	2020-03-29	2020-04-04	<NA>
283	C163752	49	45 to 49 Female	2020-03-29	2020-04-05	<NA>
284	C168701	40	40 to 44 Female	2020-03-29	2020-03-31	<NA>
285	C180430	52	50 to 54 Female	2020-03-29	2020-04-04	<NA>
286	C199675	33	30 to 34 Female	2020-03-29	2020-04-12	<NA>
287	C203459	66	65 to 69 Female	2020-03-29	2020-04-01	<NA>
288	C206075	57	55 to 59 Female	2020-03-29	2020-04-04	<NA>
289	C210183	77	75 to 79 Female	2020-03-29	2020-04-15	<NA>
290	C217155	58	55 to 59 Female	2020-03-29	2020-04-13	<NA>
291	C249411	53	50 to 54 Female	2020-03-29	<NA>	<NA>
292	C259666	57	55 to 59 Female	2020-03-29	<NA>	<NA>
293	C267962	26	25 to 29 Female	2020-03-29	<NA>	<NA>
294	C276967	34	30 to 34 Female	2020-03-29	2020-04-23	<NA>

295	C281680	53	50 to 54	Female	2020-03-29	<NA>	<NA>
296	C284722	61	60 to 64	Female	2020-03-29	2020-04-25	<NA>
297	C302820	27	25 to 29	Female	2020-03-29	<NA>	<NA>
298	C312461	21	20 to 24	Female	2020-03-29	<NA>	<NA>
299	C313284	62	60 to 64	Female	2020-03-29	2020-04-22	<NA>
300	C314503	48	45 to 49	Female	2020-03-29	2020-04-01	<NA>
301	C346361	44	40 to 44	Female	2020-03-29	<NA>	<NA>
302	C347455	41	40 to 44	Female	2020-03-29	<NA>	<NA>
303	C353780	65	65 to 69	Female	2020-03-29	<NA>	<NA>
304	C375143	79	75 to 79	Female	2020-03-29	<NA>	<NA>
305	C386314	32	30 to 34	Female	2020-03-29	<NA>	<NA>
306	C411801	57	55 to 59	Female	2020-03-29	2020-04-08	<NA>
307	C423521	23	20 to 24	Female	2020-03-29	<NA>	<NA>
308	C425024	61	60 to 64	Female	2020-03-29	2020-04-15	<NA>
309	C432298	22	20 to 24	Female	2020-03-29	2020-04-03	<NA>
310	C435517	39	35 to 39	Female	2020-03-29	2020-04-19	<NA>
311	C436587	32	30 to 34	Female	2020-03-29	2020-04-04	<NA>
312	C439137	32	30 to 34	Female	2020-03-29	<NA>	<NA>
313	C443587	64	60 to 64	Female	2020-03-29	<NA>	<NA>
314	C445149	57	55 to 59	Female	2020-03-29	<NA>	<NA>
315	C449377	63	60 to 64	Female	2020-03-29	<NA>	<NA>
316	C459538	49	45 to 49	Female	2020-03-29	<NA>	<NA>
317	C459691	65	65 to 69	Female	2020-03-29	<NA>	<NA>
318	C471157	63	60 to 64	Female	2020-03-29	<NA>	<NA>
319	C517852	33	30 to 34	Female	2020-03-29	2020-04-04	<NA>
320	C525999	27	25 to 29	Female	2020-03-29	<NA>	<NA>
321	C526097	29	25 to 29	Female	2020-03-29	2020-03-31	<NA>
322	C582933	72	70 to 74	Female	2020-03-29	2020-04-03	<NA>
323	C617731	56	55 to 59	Female	2020-03-29	2020-04-04	<NA>
324	C639628	55	55 to 59	Female	2020-03-29	<NA>	<NA>
325	C654459	63	60 to 64	Female	2020-03-29	<NA>	<NA>
326	C662950	23	20 to 24	Female	2020-03-29	2020-04-01	<NA>
327	C663295	42	40 to 44	Female	2020-03-29	<NA>	<NA>
328	C679639	64	60 to 64	Female	2020-03-29	<NA>	<NA>
329	C707630	34	30 to 34	Female	2020-03-29	<NA>	<NA>
330	C713758	49	45 to 49	Female	2020-03-29	<NA>	<NA>
331	C750424	5	5 to 9	Female	2020-03-29	2020-04-14	<NA>
332	C751770	62	60 to 64	Female	2020-03-29	2020-04-24	<NA>
333	C752241	86	80+	Female	2020-03-29	2020-04-12	<NA>
334	C754744	57	55 to 59	Female	2020-03-29	<NA>	<NA>
335	C757682	35	35 to 39	Female	2020-03-29	<NA>	<NA>
336	C761073	61	60 to 64	Female	2020-03-29	<NA>	<NA>
337	C766759	38	35 to 39	Female	2020-03-29	2020-04-08	<NA>

338	C771847	30	30 to 34	Female	2020-03-29	2020-04-28	<NA>
339	C773291	26	25 to 29	Female	2020-03-29	2020-04-11	<NA>
340	C777356	37	35 to 39	Female	2020-03-29	<NA>	<NA>
341	C808190	73	70 to 74	Female	2020-03-29	2020-04-04	<NA>
342	C813070	41	40 to 44	Female	2020-03-29	2020-04-08	<NA>
343	C831511	29	25 to 29	Female	2020-03-29	<NA>	<NA>
344	C846309	62	60 to 64	Female	2020-03-29	<NA>	<NA>
345	C851464	41	40 to 44	Female	2020-03-29	<NA>	<NA>
346	C857531	61	60 to 64	Female	2020-03-29	2020-04-18	<NA>
347	C895649	27	25 to 29	Female	2020-03-29	2020-04-09	<NA>
348	C936961	37	35 to 39	Female	2020-03-29	2020-04-12	<NA>
349	C944586	66	65 to 69	Female	2020-03-29	<NA>	<NA>
350	C945622	67	65 to 69	Female	2020-03-29	<NA>	<NA>
351	C957068	32	30 to 34	Female	2020-03-29	<NA>	<NA>
352	C978613	62	60 to 64	Female	2020-03-29	2020-04-04	<NA>
353	C981177	77	75 to 79	Female	2020-03-29	<NA>	<NA>
354	C991521	69	65 to 69	Female	2020-03-29	2020-03-31	<NA>
355	C137256	85	80+	Female	2020-03-30	2020-04-06	<NA>
356	C178597	60	60 to 64	Female	2020-03-30	2020-04-15	<NA>
357	C203179	67	65 to 69	Female	2020-03-30	2020-04-09	<NA>
358	C270304	32	30 to 34	Female	2020-03-30	<NA>	<NA>
359	C284378	60	60 to 64	Female	2020-03-30	2020-04-03	<NA>
360	C488321	54	50 to 54	Female	2020-03-30	2020-04-05	<NA>
361	C518220	23	20 to 24	Female	2020-03-30	<NA>	<NA>
362	C548494	27	25 to 29	Female	2020-03-30	2020-04-13	<NA>
363	C608855	67	65 to 69	Female	2020-03-30	<NA>	<NA>
364	C627889	52	50 to 54	Female	2020-03-30	2020-04-05	<NA>
365	C684018	36	35 to 39	Female	2020-03-30	2020-04-05	<NA>
366	C741598	41	40 to 44	Female	2020-03-30	<NA>	<NA>
367	C789381	27	25 to 29	Female	2020-03-30	<NA>	<NA>
368	C829852	57	55 to 59	Female	2020-03-30	2020-04-01	<NA>
369	C840120	52	50 to 54	Female	2020-03-30	2020-04-03	<NA>
370	C877402	35	35 to 39	Female	2020-03-30	<NA>	<NA>
371	C910039	31	30 to 34	Female	2020-03-30	<NA>	<NA>
372	C940705	52	50 to 54	Female	2020-03-30	2020-04-11	<NA>
373	C105064	81	80+	Female	2020-03-31	2020-04-01	<NA>
374	C123946	76	75 to 79	Female	2020-03-31	2020-04-04	<NA>
375	C128892	60	60 to 64	Female	2020-03-31	2020-04-28	<NA>
376	C144456	42	40 to 44	Female	2020-03-31	2020-04-02	<NA>
377	C144470	53	50 to 54	Female	2020-03-31	<NA>	<NA>
378	C148687	75	75 to 79	Female	2020-03-31	2020-03-30	<NA>
379	C148853	63	60 to 64	Female	2020-03-31	<NA>	<NA>
380	C149940	45	45 to 49	Female	2020-03-31	2020-04-08	<NA>

381	C152772	68	65 to 69	Female	2020-03-31	2020-04-08	<NA>
382	C164941	46	45 to 49	Female	2020-03-31	2020-04-11	<NA>
383	C167479	23	20 to 24	Female	2020-03-31	2020-04-20	<NA>
384	C173272	31	30 to 34	Female	2020-03-31	<NA>	<NA>
385	C180511	50	50 to 54	Female	2020-03-31	<NA>	<NA>
386	C183647	29	25 to 29	Female	2020-03-31	<NA>	<NA>
387	C196476	26	25 to 29	Female	2020-03-31	<NA>	<NA>
388	C202907	33	30 to 34	Female	2020-03-31	2020-05-01	<NA>
389	C206568	50	50 to 54	Female	2020-03-31	<NA>	<NA>
390	C220967	64	60 to 64	Female	2020-03-31	2020-04-09	<NA>
391	C240538	44	40 to 44	Female	2020-03-31	<NA>	<NA>
392	C241343	38	35 to 39	Female	2020-03-31	2020-04-03	<NA>
393	C248531	85	80+	Female	2020-03-31	2020-04-11	<NA>
394	C259263	28	25 to 29	Female	2020-03-31	<NA>	<NA>
395	C263962	31	30 to 34	Female	2020-03-31	<NA>	<NA>
396	C264605	23	20 to 24	Female	2020-03-31	<NA>	<NA>
397	C283124	49	45 to 49	Female	2020-03-31	<NA>	<NA>
398	C293849	29	25 to 29	Female	2020-03-31	2020-04-07	<NA>
399	C308533	31	30 to 34	Female	2020-03-31	<NA>	<NA>
400	C309823	29	25 to 29	Female	2020-03-31	2020-04-15	<NA>
401	C310550	76	75 to 79	Female	2020-03-31	<NA>	<NA>
402	C320058	50	50 to 54	Female	2020-03-31	<NA>	<NA>
403	C341041	69	65 to 69	Female	2020-03-31	2020-04-06	<NA>
404	C345410	78	75 to 79	Female	2020-03-31	<NA>	<NA>
405	C369586	67	65 to 69	Female	2020-03-31	2020-03-27	<NA>
406	C374885	58	55 to 59	Female	2020-03-31	<NA>	<NA>
407	C390599	34	30 to 34	Female	2020-03-31	2020-04-09	<NA>
408	C421369	60	60 to 64	Female	2020-03-31	<NA>	<NA>
409	C430124	40	40 to 44	Female	2020-03-31	<NA>	<NA>
410	C440371	49	45 to 49	Female	2020-03-31	<NA>	<NA>
411	C441441	72	70 to 74	Female	2020-03-31	<NA>	<NA>
412	C449219	36	35 to 39	Female	2020-03-31	<NA>	<NA>
413	C450881	72	70 to 74	Female	2020-03-31	<NA>	<NA>
414	C453009	64	60 to 64	Female	2020-03-31	2020-03-31	<NA>
415	C453508	48	45 to 49	Female	2020-03-31	2020-04-07	<NA>
416	C467224	70	70 to 74	Female	2020-03-31	<NA>	<NA>
417	C485356	64	60 to 64	Female	2020-03-31	2020-04-14	<NA>
418	C486709	64	60 to 64	Female	2020-03-31	<NA>	<NA>
419	C495077	55	55 to 59	Female	2020-03-31	2020-04-21	<NA>
420	C499235	23	20 to 24	Female	2020-03-31	2020-04-29	<NA>
421	C503930	66	65 to 69	Female	2020-03-31	<NA>	<NA>
422	C512220	47	45 to 49	Female	2020-03-31	2020-04-10	<NA>
423	C515223	53	50 to 54	Female	2020-03-31	2020-04-15	<NA>

424	C516462	61	60 to 64	Female	2020-03-31	2020-03-21	<NA>
425	C553923	69	65 to 69	Female	2020-03-31	<NA>	<NA>
426	C558422	37	35 to 39	Female	2020-03-31	<NA>	<NA>
427	C559530	70	70 to 74	Female	2020-03-31	2020-04-14	<NA>
428	C561186	50	50 to 54	Female	2020-03-31	2020-04-04	<NA>
429	C575350	64	60 to 64	Female	2020-03-31	2020-04-26	<NA>
430	C577406	67	65 to 69	Female	2020-03-31	2020-04-21	<NA>
431	C586410	30	30 to 34	Female	2020-03-31	2020-03-31	<NA>
432	C589129	38	35 to 39	Female	2020-03-31	2020-03-31	<NA>
433	C591054	73	70 to 74	Female	2020-03-31	<NA>	<NA>
434	C598100	50	50 to 54	Female	2020-03-31	<NA>	<NA>
435	C608667	71	70 to 74	Female	2020-03-31	<NA>	<NA>
436	C620220	45	45 to 49	Female	2020-03-31	<NA>	<NA>
437	C625830	61	60 to 64	Female	2020-03-31	<NA>	<NA>
438	C626407	59	55 to 59	Female	2020-03-31	<NA>	<NA>
439	C633427	39	35 to 39	Female	2020-03-31	<NA>	<NA>
440	C637588	49	45 to 49	Female	2020-03-31	<NA>	<NA>
441	C650483	49	45 to 49	Female	2020-03-31	2020-04-18	<NA>
442	C655028	24	20 to 24	Female	2020-03-31	2020-03-26	<NA>
443	C660154	26	25 to 29	Female	2020-03-31	2020-04-17	<NA>
444	C665648	75	75 to 79	Female	2020-03-31	2020-04-13	<NA>
445	C672899	61	60 to 64	Female	2020-03-31	2020-04-29	<NA>
446	C679573	27	25 to 29	Female	2020-03-31	2020-04-03	<NA>
447	C696612	56	55 to 59	Female	2020-03-31	2020-04-13	<NA>
448	C710319	52	50 to 54	Female	2020-03-31	<NA>	<NA>
449	C719399	79	75 to 79	Female	2020-03-31	<NA>	<NA>
450	C728569	79	75 to 79	Female	2020-03-31	<NA>	<NA>
451	C738919	44	40 to 44	Female	2020-03-31	<NA>	<NA>
452	C764593	38	35 to 39	Female	2020-03-31	<NA>	<NA>
453	C764602	66	65 to 69	Female	2020-03-31	<NA>	<NA>
454	C766632	41	40 to 44	Female	2020-03-31	2020-04-21	<NA>
455	C787909	59	55 to 59	Female	2020-03-31	2020-04-01	<NA>
456	C819707	42	40 to 44	Female	2020-03-31	2020-04-08	<NA>
457	C845100	73	70 to 74	Female	2020-03-31	<NA>	<NA>
458	C864961	62	60 to 64	Female	2020-03-31	<NA>	<NA>
459	C872101	35	35 to 39	Female	2020-03-31	<NA>	<NA>
460	C875786	50	50 to 54	Female	2020-03-31	2020-04-24	<NA>
461	C885876	59	55 to 59	Female	2020-03-31	<NA>	<NA>
462	C904753	34	30 to 34	Female	2020-03-31	<NA>	<NA>
463	C906875	64	60 to 64	Female	2020-03-31	<NA>	<NA>
464	C909776	53	50 to 54	Female	2020-03-31	<NA>	<NA>
465	C912986	63	60 to 64	Female	2020-03-31	<NA>	<NA>
466	C913519	28	25 to 29	Female	2020-03-31	<NA>	<NA>



467	C919826	50	50 to 54	Female	2020-03-31	<NA>	<NA>
468	C928643	27	25 to 29	Female	2020-03-31	2020-03-23	<NA>
469	C944034	69	65 to 69	Female	2020-03-31	2020-04-11	<NA>
470	C951612	71	70 to 74	Female	2020-03-31	2020-05-02	<NA>
471	C953212	48	45 to 49	Female	2020-03-31	<NA>	<NA>
472	C976791	67	65 to 69	Female	2020-03-31	2020-04-06	<NA>
473	C988069	50	50 to 54	Female	2020-03-31	<NA>	<NA>
474	C990624	38	35 to 39	Female	2020-03-31	2020-04-12	<NA>
475	C993732	54	50 to 54	Female	2020-03-31	<NA>	<NA>
476	C995502	64	60 to 64	Female	2020-03-31	2020-04-08	<NA>
477	C104939	68	65 to 69	Female	2020-04-01	<NA>	<NA>
478	C138147	66	65 to 69	Female	2020-04-01	<NA>	<NA>
479	C145122	57	55 to 59	Female	2020-04-01	2020-04-02	<NA>
480	C149128	36	35 to 39	Female	2020-04-01	2020-04-20	<NA>
481	C155118	31	30 to 34	Female	2020-04-01	<NA>	<NA>
482	C155824	24	20 to 24	Female	2020-04-01	<NA>	<NA>
483	C196299	29	25 to 29	Female	2020-04-01	<NA>	<NA>
484	C198158	43	40 to 44	Female	2020-04-01	<NA>	<NA>
485	C201004	15	15 to 19	Female	2020-04-01	2020-04-07	<NA>
486	C202804	48	45 to 49	Female	2020-04-01	2020-04-16	<NA>
487	C242849	30	30 to 34	Female	2020-04-01	<NA>	<NA>
488	C251045	38	35 to 39	Female	2020-04-01	<NA>	<NA>
489	C262520	36	35 to 39	Female	2020-04-01	<NA>	<NA>
490	C280775	49	45 to 49	Female	2020-04-01	<NA>	<NA>
491	C280998	61	60 to 64	Female	2020-04-01	<NA>	<NA>
492	C287391	54	50 to 54	Female	2020-04-01	<NA>	<NA>
493	C304322	21	20 to 24	Female	2020-04-01	2020-04-12	<NA>
494	C310026	68	65 to 69	Female	2020-04-01	<NA>	<NA>
495	C377680	49	45 to 49	Female	2020-04-01	2020-04-15	<NA>
496	C379940	24	20 to 24	Female	2020-04-01	2020-04-29	<NA>
497	C416600	48	45 to 49	Female	2020-04-01	2020-04-13	<NA>
498	C453835	46	45 to 49	Female	2020-04-01	2020-04-05	<NA>
499	C461006	40	40 to 44	Female	2020-04-01	<NA>	<NA>
500	C469516	44	40 to 44	Female	2020-04-01	<NA>	<NA>
501	C486673	53	50 to 54	Female	2020-04-01	<NA>	<NA>
502	C487637	34	30 to 34	Female	2020-04-01	2020-04-07	<NA>
503	C490357	59	55 to 59	Female	2020-04-01	<NA>	<NA>
504	C521818	43	40 to 44	Female	2020-04-01	2020-04-03	<NA>
505	C546494	13	10 to 14	Female	2020-04-01	<NA>	<NA>
506	C612038	67	65 to 69	Female	2020-04-01	<NA>	<NA>
507	C636307	51	50 to 54	Female	2020-04-01	<NA>	<NA>
508	C657889	65	65 to 69	Female	2020-04-01	<NA>	<NA>
509	C672646	29	25 to 29	Female	2020-04-01	2020-04-07	<NA>

510	C679020	59	55 to 59	Female	2020-04-01	<NA>	<NA>
511	C702658	42	40 to 44	Female	2020-04-01	2020-03-30	<NA>
512	C703187	70	70 to 74	Female	2020-04-01	<NA>	<NA>
513	C704037	23	20 to 24	Female	2020-04-01	2020-04-28	<NA>
514	C713782	48	45 to 49	Female	2020-04-01	2020-04-25	<NA>
515	C750327	22	20 to 24	Female	2020-04-01	<NA>	<NA>
516	C792849	55	55 to 59	Female	2020-04-01	<NA>	<NA>
517	C795816	33	30 to 34	Female	2020-04-01	<NA>	<NA>
518	C815674	63	60 to 64	Female	2020-04-01	<NA>	<NA>
519	C850268	52	50 to 54	Female	2020-04-01	<NA>	<NA>
520	C850916	34	30 to 34	Female	2020-04-01	<NA>	<NA>
521	C855651	70	70 to 74	Female	2020-04-01	<NA>	<NA>
522	C895429	30	30 to 34	Female	2020-04-01	2020-04-18	<NA>
523	C914359	34	30 to 34	Female	2020-04-01	<NA>	<NA>
524	C934452	32	30 to 34	Female	2020-04-01	<NA>	<NA>
525	C948426	28	25 to 29	Female	2020-04-01	<NA>	<NA>
526	C958556	43	40 to 44	Female	2020-04-01	<NA>	<NA>
527	C995945	47	45 to 49	Female	2020-04-01	2020-04-09	<NA>
528	C100660	43	40 to 44	Female	2020-04-02	2020-04-26	<NA>
529	C124834	69	65 to 69	Female	2020-04-02	2020-04-06	<NA>
530	C190536	52	50 to 54	Female	2020-04-02	<NA>	<NA>
531	C193185	58	55 to 59	Female	2020-04-02	<NA>	<NA>
532	C194316	57	55 to 59	Female	2020-04-02	2020-04-12	<NA>
533	C197806	69	65 to 69	Female	2020-04-02	2020-04-15	<NA>
534	C222428	66	65 to 69	Female	2020-04-02	2020-04-21	<NA>
535	C246169	39	35 to 39	Female	2020-04-02	<NA>	<NA>
536	C248687	32	30 to 34	Female	2020-04-02	<NA>	<NA>
537	C296561	63	60 to 64	Female	2020-04-02	<NA>	<NA>
538	C299839	0	0 to 4	Female	2020-04-02	2020-04-14	<NA>
539	C329168	76	75 to 79	Female	2020-04-02	2020-04-08	<NA>
540	C345605	23	20 to 24	Female	2020-04-02	2020-04-16	<NA>
541	C349350	47	45 to 49	Female	2020-04-02	<NA>	<NA>
542	C356180	65	65 to 69	Female	2020-04-02	2020-04-10	<NA>
543	C370311	30	30 to 34	Female	2020-04-02	<NA>	<NA>
544	C371687	50	50 to 54	Female	2020-04-02	2020-04-14	<NA>
545	C372541	67	65 to 69	Female	2020-04-02	<NA>	<NA>
546	C381370	24	20 to 24	Female	2020-04-02	<NA>	<NA>
547	C404800	24	20 to 24	Female	2020-04-02	2020-05-04	<NA>
548	C414115	52	50 to 54	Female	2020-04-02	<NA>	<NA>
549	C419130	33	30 to 34	Female	2020-04-02	2020-04-30	<NA>
550	C424058	35	35 to 39	Female	2020-04-02	2020-04-14	<NA>
551	C458897	66	65 to 69	Female	2020-04-02	2020-05-04	<NA>
552	C495301	51	50 to 54	Female	2020-04-02	<NA>	<NA>

553	C503065	64	60 to 64	Female	2020-04-02	2020-04-21	<NA>
554	C528336	51	50 to 54	Female	2020-04-02	2020-04-25	<NA>
555	C549614	28	25 to 29	Female	2020-04-02	<NA>	<NA>
556	C550635	40	40 to 44	Female	2020-04-02	<NA>	<NA>
557	C552142	48	45 to 49	Female	2020-04-02	<NA>	<NA>
558	C552791	31	30 to 34	Female	2020-04-02	<NA>	<NA>
559	C584139	29	25 to 29	Female	2020-04-02	2020-04-16	<NA>
560	C589193	59	55 to 59	Female	2020-04-02	2020-04-18	<NA>
561	C589753	29	25 to 29	Female	2020-04-02	<NA>	<NA>
562	C604376	53	50 to 54	Female	2020-04-02	2020-04-10	<NA>
563	C625755	50	50 to 54	Female	2020-04-02	2020-04-10	<NA>
564	C645173	68	65 to 69	Female	2020-04-02	<NA>	<NA>
565	C659628	42	40 to 44	Female	2020-04-02	2020-04-05	<NA>
566	C697549	51	50 to 54	Female	2020-04-02	2020-04-19	<NA>
567	C714031	47	45 to 49	Female	2020-04-02	<NA>	<NA>
568	C718186	60	60 to 64	Female	2020-04-02	<NA>	<NA>
569	C744176	24	20 to 24	Female	2020-04-02	<NA>	<NA>
570	C764217	65	65 to 69	Female	2020-04-02	<NA>	<NA>
571	C772758	68	65 to 69	Female	2020-04-02	2020-04-12	<NA>
572	C776501	33	30 to 34	Female	2020-04-02	2020-04-20	<NA>
573	C811030	53	50 to 54	Female	2020-04-02	<NA>	<NA>
574	C813175	41	40 to 44	Female	2020-04-02	<NA>	<NA>
575	C823239	24	20 to 24	Female	2020-04-02	<NA>	<NA>
576	C833104	55	55 to 59	Female	2020-04-02	2020-04-29	<NA>
577	C838718	45	45 to 49	Female	2020-04-02	<NA>	<NA>
578	C843865	33	30 to 34	Female	2020-04-02	<NA>	<NA>
579	C847774	32	30 to 34	Female	2020-04-02	<NA>	<NA>
580	C868895	58	55 to 59	Female	2020-04-02	2020-04-06	<NA>
581	C896134	22	20 to 24	Female	2020-04-02	<NA>	<NA>
582	C900715	68	65 to 69	Female	2020-04-02	<NA>	<NA>
583	C930817	65	65 to 69	Female	2020-04-02	2020-04-22	<NA>
584	C937911	62	60 to 64	Female	2020-04-02	<NA>	<NA>
585	C942315	48	45 to 49	Female	2020-04-02	2020-04-22	<NA>
586	C947285	56	55 to 59	Female	2020-04-02	<NA>	<NA>
587	C952608	69	65 to 69	Female	2020-04-02	2020-04-12	<NA>
588	C956311	48	45 to 49	Female	2020-04-02	2020-04-11	<NA>
589	C960861	28	25 to 29	Female	2020-04-02	2020-03-28	<NA>
590	C972560	53	50 to 54	Female	2020-04-02	<NA>	<NA>
591	C974590	24	20 to 24	Female	2020-04-02	2020-04-20	<NA>
592	C975780	31	30 to 34	Female	2020-04-02	<NA>	<NA>
593	C988769	65	65 to 69	Female	2020-04-02	<NA>	<NA>
594	C998324	30	30 to 34	Female	2020-04-02	<NA>	<NA>
595	C132448	29	25 to 29	Female	2020-04-03	2020-04-08	<NA>

596	C142965	42	40 to 44	Female	2020-04-03	<NA>	<NA>
597	C197653	37	35 to 39	Female	2020-04-03	2020-04-02	<NA>
598	C200810	56	55 to 59	Female	2020-04-03	<NA>	<NA>
599	C207410	28	25 to 29	Female	2020-04-03	<NA>	<NA>
600	C260214	59	55 to 59	Female	2020-04-03	2020-05-05	<NA>
601	C269670	28	25 to 29	Female	2020-04-03	<NA>	<NA>
602	C273734	46	45 to 49	Female	2020-04-03	<NA>	<NA>
603	C277545	66	65 to 69	Female	2020-04-03	2020-04-23	<NA>
604	C281194	24	20 to 24	Female	2020-04-03	<NA>	<NA>
605	C283435	62	60 to 64	Female	2020-04-03	2020-04-16	<NA>
606	C297594	71	70 to 74	Female	2020-04-03	2020-04-30	<NA>
607	C304534	24	20 to 24	Female	2020-04-03	2020-04-14	<NA>
608	C340189	38	35 to 39	Female	2020-04-03	<NA>	<NA>
609	C398162	54	50 to 54	Female	2020-04-03	<NA>	<NA>
610	C405611	33	30 to 34	Female	2020-04-03	<NA>	<NA>
611	C423997	32	30 to 34	Female	2020-04-03	<NA>	<NA>
612	C429756	69	65 to 69	Female	2020-04-03	<NA>	<NA>
613	C436120	45	45 to 49	Female	2020-04-03	2020-04-20	<NA>
614	C450632	27	25 to 29	Female	2020-04-03	<NA>	<NA>
615	C460742	50	50 to 54	Female	2020-04-03	2020-04-13	<NA>
616	C465620	25	25 to 29	Female	2020-04-03	2020-04-04	<NA>
617	C476484	38	35 to 39	Female	2020-04-03	<NA>	<NA>
618	C503318	63	60 to 64	Female	2020-04-03	2020-04-20	<NA>
619	C535553	30	30 to 34	Female	2020-04-03	<NA>	<NA>
620	C540936	60	60 to 64	Female	2020-04-03	<NA>	<NA>
621	C554392	28	25 to 29	Female	2020-04-03	<NA>	<NA>
622	C583321	47	45 to 49	Female	2020-04-03	<NA>	<NA>
623	C605381	27	25 to 29	Female	2020-04-03	2020-04-24	<NA>
624	C609077	76	75 to 79	Female	2020-04-03	<NA>	<NA>
625	C641065	52	50 to 54	Female	2020-04-03	2020-04-06	<NA>
626	C662279	73	70 to 74	Female	2020-04-03	2020-04-24	<NA>
627	C678508	27	25 to 29	Female	2020-04-03	<NA>	<NA>
628	C701766	51	50 to 54	Female	2020-04-03	<NA>	<NA>
629	C734080	82	80+	Female	2020-04-03	<NA>	<NA>
630	C767592	30	30 to 34	Female	2020-04-03	2020-04-18	<NA>
631	C770278	41	40 to 44	Female	2020-04-03	<NA>	<NA>
632	C783063	26	25 to 29	Female	2020-04-03	<NA>	<NA>
633	C799768	29	25 to 29	Female	2020-04-03	2020-04-08	<NA>
634	C818945	22	20 to 24	Female	2020-04-03	<NA>	<NA>
635	C838714	46	45 to 49	Female	2020-04-03	<NA>	<NA>
636	C841368	31	30 to 34	Female	2020-04-03	2020-05-04	<NA>
637	C848501	32	30 to 34	Female	2020-04-03	<NA>	<NA>
638	C848799	26	25 to 29	Female	2020-04-03	<NA>	<NA>

639	C858830	27	25 to 29	Female	2020-04-03	2020-04-19	<NA>
640	C906571	63	60 to 64	Female	2020-04-03	<NA>	<NA>
641	C916297	47	45 to 49	Female	2020-04-03	<NA>	<NA>
642	C932520	37	35 to 39	Female	2020-04-03	<NA>	<NA>
643	C939909	29	25 to 29	Female	2020-04-03	<NA>	<NA>
644	C941866	33	30 to 34	Female	2020-04-03	<NA>	<NA>
645	C959078	24	20 to 24	Female	2020-04-03	<NA>	<NA>
646	C963733	36	35 to 39	Female	2020-04-03	<NA>	<NA>
647	C990074	65	65 to 69	Female	2020-04-03	<NA>	<NA>
648	C294420	62	60 to 64	Female	2020-04-04	2020-04-17	<NA>
649	C322145	29	25 to 29	Female	2020-04-04	<NA>	<NA>
650	C401279	70	70 to 74	Female	2020-04-04	2020-04-23	<NA>
651	C420791	30	30 to 34	Female	2020-04-04	2020-04-19	<NA>
652	C429475	39	35 to 39	Female	2020-04-04	2020-04-23	<NA>
653	C447596	48	45 to 49	Female	2020-04-04	2020-04-23	<NA>
654	C457803	25	25 to 29	Female	2020-04-04	<NA>	<NA>
655	C524941	54	50 to 54	Female	2020-04-04	<NA>	<NA>
656	C541565	51	50 to 54	Female	2020-04-04	2020-04-16	<NA>
657	C714767	41	40 to 44	Female	2020-04-04	<NA>	<NA>
658	C735916	32	30 to 34	Female	2020-04-04	<NA>	<NA>
659	C783502	29	25 to 29	Female	2020-04-04	2020-04-18	<NA>
660	C911900	29	25 to 29	Female	2020-04-04	2020-04-09	<NA>
661	C934092	56	55 to 59	Female	2020-04-04	2020-04-28	<NA>
662	C936267	73	70 to 74	Female	2020-04-04	<NA>	<NA>
663	C997200	37	35 to 39	Female	2020-04-04	<NA>	<NA>
664	C122076	50	50 to 54	Female	2020-04-05	<NA>	<NA>
665	C126863	32	30 to 34	Female	2020-04-05	2020-04-03	<NA>
666	C147973	53	50 to 54	Female	2020-04-05	<NA>	<NA>
667	C161255	31	30 to 34	Female	2020-04-05	2020-04-08	<NA>
668	C164727	29	25 to 29	Female	2020-04-05	2020-04-27	<NA>
669	C181020	25	25 to 29	Female	2020-04-05	2020-04-23	<NA>
670	C253136	48	45 to 49	Female	2020-04-05	<NA>	<NA>
671	C306716	25	25 to 29	Female	2020-04-05	<NA>	<NA>
672	C343718	60	60 to 64	Female	2020-04-05	<NA>	<NA>
673	C387823	37	35 to 39	Female	2020-04-05	<NA>	<NA>
674	C406337	44	40 to 44	Female	2020-04-05	2020-04-19	<NA>
675	C433635	29	25 to 29	Female	2020-04-05	<NA>	<NA>
676	C460281	33	30 to 34	Female	2020-04-05	<NA>	<NA>
677	C582167	23	20 to 24	Female	2020-04-05	<NA>	<NA>
678	C628604	46	45 to 49	Female	2020-04-05	<NA>	<NA>
679	C636660	55	55 to 59	Female	2020-04-05	<NA>	<NA>
680	C639782	26	25 to 29	Female	2020-04-05	2020-04-30	<NA>
681	C672807	63	60 to 64	Female	2020-04-05	<NA>	<NA>

682	C685733	46	45 to 49	Female	2020-04-05	<NA>	<NA>
683	C813870	60	60 to 64	Female	2020-04-05	<NA>	<NA>
684	C819220	61	60 to 64	Female	2020-04-05	2020-04-24	<NA>
685	C830685	60	60 to 64	Female	2020-04-05	<NA>	<NA>
686	C865131	62	60 to 64	Female	2020-04-05	<NA>	<NA>
687	C874340	46	45 to 49	Female	2020-04-05	2020-04-10	<NA>
688	C895604	27	25 to 29	Female	2020-04-05	2020-05-09	<NA>
689	C915802	57	55 to 59	Female	2020-04-05	<NA>	<NA>
690	C919830	65	65 to 69	Female	2020-04-05	<NA>	<NA>
691	C963299	23	20 to 24	Female	2020-04-05	<NA>	<NA>
692	C980586	43	40 to 44	Female	2020-04-05	2020-04-16	<NA>
693	C133595	68	65 to 69	Female	2020-04-06	2020-04-23	<NA>
694	C178706	23	20 to 24	Female	2020-04-06	2020-04-17	<NA>
695	C184234	34	30 to 34	Female	2020-04-06	<NA>	<NA>
696	C184780	43	40 to 44	Female	2020-04-06	<NA>	<NA>
697	C201090	32	30 to 34	Female	2020-04-06	<NA>	<NA>
698	C216247	40	40 to 44	Female	2020-04-06	<NA>	<NA>
699	C226720	68	65 to 69	Female	2020-04-06	<NA>	<NA>
700	C236569	39	35 to 39	Female	2020-04-06	<NA>	<NA>
701	C252364	24	20 to 24	Female	2020-04-06	<NA>	<NA>
702	C253374	29	25 to 29	Female	2020-04-06	2020-04-28	<NA>
703	C256508	28	25 to 29	Female	2020-04-06	<NA>	<NA>
704	C259532	35	35 to 39	Female	2020-04-06	<NA>	<NA>
705	C274136	46	45 to 49	Female	2020-04-06	<NA>	<NA>
706	C302724	45	45 to 49	Female	2020-04-06	<NA>	<NA>
707	C303025	31	30 to 34	Female	2020-04-06	<NA>	<NA>
708	C316597	32	30 to 34	Female	2020-04-06	2020-04-28	<NA>
709	C324822	27	25 to 29	Female	2020-04-06	2020-04-20	<NA>
710	C337958	36	35 to 39	Female	2020-04-06	<NA>	<NA>
711	C353273	29	25 to 29	Female	2020-04-06	<NA>	<NA>
712	C354886	42	40 to 44	Female	2020-04-06	2020-05-02	<NA>
713	C367599	29	25 to 29	Female	2020-04-06	2020-04-29	<NA>
714	C367780	70	70 to 74	Female	2020-04-06	2020-05-06	<NA>
715	C369982	60	60 to 64	Female	2020-04-06	<NA>	<NA>
716	C371647	75	75 to 79	Female	2020-04-06	<NA>	<NA>
717	C371691	24	20 to 24	Female	2020-04-06	<NA>	<NA>
718	C378928	31	30 to 34	Female	2020-04-06	<NA>	<NA>
719	C387107	34	30 to 34	Female	2020-04-06	<NA>	<NA>
720	C391709	31	30 to 34	Female	2020-04-06	<NA>	<NA>
721	C418116	57	55 to 59	Female	2020-04-06	2020-05-12	<NA>
722	C422880	61	60 to 64	Female	2020-04-06	2020-04-30	<NA>
723	C428998	45	45 to 49	Female	2020-04-06	<NA>	<NA>
724	C434426	21	20 to 24	Female	2020-04-06	2020-04-29	<NA>

725	C449047	54	50 to 54 Female	2020-04-06	<NA>	<NA>
726	C461823	68	65 to 69 Female	2020-04-06	2020-04-30	<NA>
727	C467182	29	25 to 29 Female	2020-04-06	<NA>	<NA>
728	C476764	54	50 to 54 Female	2020-04-06	2020-05-08	<NA>
729	C480175	3	0 to 4 Female	2020-04-06	2020-04-19	<NA>
730	C480716	68	65 to 69 Female	2020-04-06	2020-04-13	<NA>
731	C488416	32	30 to 34 Female	2020-04-06	2020-04-16	<NA>
732	C505000	47	45 to 49 Female	2020-04-06	2020-04-28	<NA>
733	C505970	61	60 to 64 Female	2020-04-06	2020-05-12	<NA>
734	C555642	43	40 to 44 Female	2020-04-06	2020-04-11	<NA>
735	C556303	73	70 to 74 Female	2020-04-06	<NA>	<NA>
736	C561986	50	50 to 54 Female	2020-04-06	2020-04-21	<NA>
737	C572349	29	25 to 29 Female	2020-04-06	<NA>	<NA>
738	C575047	81	80+ Female	2020-04-06	<NA>	<NA>
739	C579111	65	65 to 69 Female	2020-04-06	2020-05-10	<NA>
740	C588689	36	35 to 39 Female	2020-04-06	<NA>	<NA>
741	C610020	22	20 to 24 Female	2020-04-06	2020-04-18	<NA>
742	C618543	68	65 to 69 Female	2020-04-06	2020-04-03	<NA>
743	C619075	36	35 to 39 Female	2020-04-06	2020-05-01	<NA>
744	C630652	41	40 to 44 Female	2020-04-06	<NA>	<NA>
745	C632882	22	20 to 24 Female	2020-04-06	<NA>	<NA>
746	C644126	67	65 to 69 Female	2020-04-06	2020-04-24	<NA>
747	C645953	31	30 to 34 Female	2020-04-06	<NA>	<NA>
748	C652784	35	35 to 39 Female	2020-04-06	2020-04-18	<NA>
749	C673540	32	30 to 34 Female	2020-04-06	<NA>	<NA>
750	C697575	6	5 to 9 Female	2020-04-06	2020-04-21	<NA>
751	C726902	33	30 to 34 Female	2020-04-06	<NA>	<NA>
752	C741550	28	25 to 29 Female	2020-04-06	2020-05-05	<NA>
753	C755183	29	25 to 29 Female	2020-04-06	<NA>	<NA>
754	C767392	30	30 to 34 Female	2020-04-06	<NA>	<NA>
755	C768136	28	25 to 29 Female	2020-04-06	<NA>	<NA>
756	C793791	64	60 to 64 Female	2020-04-06	<NA>	<NA>
757	C803999	55	55 to 59 Female	2020-04-06	<NA>	<NA>
758	C811091	66	65 to 69 Female	2020-04-06	<NA>	<NA>
759	C846422	54	50 to 54 Female	2020-04-06	<NA>	<NA>
760	C856804	42	40 to 44 Female	2020-04-06	2020-04-30	<NA>
761	C864336	54	50 to 54 Female	2020-04-06	<NA>	<NA>
762	C905235	62	60 to 64 Female	2020-04-06	2020-05-01	<NA>
763	C921789	48	45 to 49 Female	2020-04-06	2020-05-06	<NA>
764	C932834	27	25 to 29 Female	2020-04-06	2020-04-24	<NA>
765	C956848	26	25 to 29 Female	2020-04-06	<NA>	<NA>
766	C964044	52	50 to 54 Female	2020-04-06	2020-04-27	<NA>
767	C968121	44	40 to 44 Female	2020-04-06	2020-04-20	<NA>

768	C972612	31	30 to 34 Female	2020-04-06	2020-04-17	<NA>
769	C988103	9	5 to 9 Female	2020-04-06	2020-04-20	<NA>
770	C990385	48	45 to 49 Female	2020-04-06	2020-04-27	<NA>
771	C991701	6	5 to 9 Female	2020-04-06	2020-04-03	<NA>
772	C997445	29	25 to 29 Female	2020-04-06	<NA>	<NA>
773	C160420	56	55 to 59 Female	2020-04-07	<NA>	<NA>
774	C263940	62	60 to 64 Female	2020-04-07	<NA>	<NA>
775	C305446	29	25 to 29 Female	2020-04-07	2020-04-23	<NA>
776	C456006	33	30 to 34 Female	2020-04-07	<NA>	<NA>
777	C478675	70	70 to 74 Female	2020-04-07	<NA>	<NA>
778	C494571	45	45 to 49 Female	2020-04-07	<NA>	<NA>
779	C564596	41	40 to 44 Female	2020-04-07	<NA>	<NA>
780	C629821	72	70 to 74 Female	2020-04-07	2020-04-18	<NA>
781	C747002	34	30 to 34 Female	2020-04-07	<NA>	<NA>
782	C803644	49	45 to 49 Female	2020-04-07	2020-04-22	<NA>
783	C845519	29	25 to 29 Female	2020-04-07	2020-04-18	<NA>
784	C884072	32	30 to 34 Female	2020-04-07	<NA>	<NA>
785	C994780	30	30 to 34 Female	2020-04-07	<NA>	<NA>
786	C129279	50	50 to 54 Female	2020-04-08	2020-04-24	<NA>
787	C263615	38	35 to 39 Female	2020-04-08	<NA>	<NA>
788	C303806	51	50 to 54 Female	2020-04-08	2020-04-14	<NA>
789	C420105	46	45 to 49 Female	2020-04-08	<NA>	<NA>
790	C455875	26	25 to 29 Female	2020-04-08	2020-04-30	<NA>
791	C549319	43	40 to 44 Female	2020-04-08	<NA>	<NA>
792	C579258	25	25 to 29 Female	2020-04-08	2020-05-08	<NA>
793	C810858	48	45 to 49 Female	2020-04-08	2020-04-27	<NA>
794	C812626	31	30 to 34 Female	2020-04-08	<NA>	<NA>
795	C844336	31	30 to 34 Female	2020-04-08	<NA>	<NA>
796	C111675	23	20 to 24 Female	2020-04-09	2020-04-23	<NA>
797	C128810	70	70 to 74 Female	2020-04-09	2020-03-28	<NA>
798	C199325	25	25 to 29 Female	2020-04-09	<NA>	<NA>
799	C210755	29	25 to 29 Female	2020-04-09	<NA>	<NA>
800	C211867	43	40 to 44 Female	2020-04-09	<NA>	<NA>
801	C277273	37	35 to 39 Female	2020-04-09	2020-04-16	<NA>
802	C345257	43	40 to 44 Female	2020-04-09	2020-04-09	<NA>
803	C373254	38	35 to 39 Female	2020-04-09	<NA>	<NA>
804	C408657	24	20 to 24 Female	2020-04-09	<NA>	<NA>
805	C429488	80	80+ Female	2020-04-09	<NA>	<NA>
806	C517769	43	40 to 44 Female	2020-04-09	2020-05-05	<NA>
807	C579099	24	20 to 24 Female	2020-04-09	<NA>	<NA>
808	C609954	76	75 to 79 Female	2020-04-09	2020-04-21	<NA>
809	C624167	49	45 to 49 Female	2020-04-09	<NA>	<NA>
810	C638374	16	15 to 19 Female	2020-04-09	<NA>	<NA>



811	C706200	55	55 to 59 Female	2020-04-09	<NA>	<NA>
812	C719361	2	0 to 4 Female	2020-04-09	<NA>	<NA>
813	C757863	42	40 to 44 Female	2020-04-09	<NA>	<NA>
814	C802297	57	55 to 59 Female	2020-04-09	2020-04-28	<NA>
815	C808117	45	45 to 49 Female	2020-04-09	<NA>	<NA>
816	C914007	47	45 to 49 Female	2020-04-09	2020-04-18	<NA>
817	C954097	44	40 to 44 Female	2020-04-09	<NA>	<NA>
818	C996914	39	35 to 39 Female	2020-04-09	<NA>	<NA>
819	C174579	60	60 to 64 Female	2020-04-10	2020-05-01	<NA>
820	C191611	21	20 to 24 Female	2020-04-10	<NA>	<NA>
821	C259406	78	75 to 79 Female	2020-04-10	2020-04-21	<NA>
822	C271566	24	20 to 24 Female	2020-04-10	<NA>	<NA>
823	C298474	28	25 to 29 Female	2020-04-10	<NA>	<NA>
824	C299426	29	25 to 29 Female	2020-04-10	<NA>	<NA>
825	C317937	30	30 to 34 Female	2020-04-10	<NA>	<NA>
826	C333825	36	35 to 39 Female	2020-04-10	2020-04-28	<NA>
827	C406309	27	25 to 29 Female	2020-04-10	<NA>	<NA>
828	C483082	32	30 to 34 Female	2020-04-10	2020-05-01	<NA>
829	C496318	21	20 to 24 Female	2020-04-10	2020-04-27	<NA>
830	C546900	25	25 to 29 Female	2020-04-10	2020-05-07	<NA>
831	C575386	47	45 to 49 Female	2020-04-10	2020-04-14	<NA>
832	C624906	50	50 to 54 Female	2020-04-10	<NA>	<NA>
833	C644827	64	60 to 64 Female	2020-04-10	<NA>	<NA>
834	C645021	52	50 to 54 Female	2020-04-10	2020-04-19	<NA>
835	C693006	72	70 to 74 Female	2020-04-10	2020-04-15	<NA>
836	C728923	34	30 to 34 Female	2020-04-10	<NA>	<NA>
837	C839833	66	65 to 69 Female	2020-04-10	2020-04-14	<NA>
838	C859345	24	20 to 24 Female	2020-04-10	<NA>	<NA>
839	C933746	55	55 to 59 Female	2020-04-10	<NA>	<NA>
840	C939149	27	25 to 29 Female	2020-04-10	<NA>	<NA>
841	C102654	33	30 to 34 Female	2020-04-11	2020-04-17	<NA>
842	C122101	42	40 to 44 Female	2020-04-11	2020-04-27	<NA>
843	C140077	61	60 to 64 Female	2020-04-11	2020-05-07	<NA>
844	C141588	36	35 to 39 Female	2020-04-11	2020-04-17	<NA>
845	C188837	31	30 to 34 Female	2020-04-11	2020-04-26	<NA>
846	C217164	51	50 to 54 Female	2020-04-11	2020-05-03	<NA>
847	C223923	40	40 to 44 Female	2020-04-11	<NA>	<NA>
848	C259618	34	30 to 34 Female	2020-04-11	2020-04-28	<NA>
849	C398695	28	25 to 29 Female	2020-04-11	<NA>	<NA>
850	C398973	31	30 to 34 Female	2020-04-11	<NA>	<NA>
851	C415376	47	45 to 49 Female	2020-04-11	2020-04-27	<NA>
852	C458618	25	25 to 29 Female	2020-04-11	<NA>	<NA>
853	C461397	55	55 to 59 Female	2020-04-11	2020-04-16	<NA>

854	C488431	26	25 to 29	Female	2020-04-11	<NA>	<NA>
855	C506438	46	45 to 49	Female	2020-04-11	2020-04-16	<NA>
856	C547092	31	30 to 34	Female	2020-04-11	<NA>	<NA>
857	C556954	22	20 to 24	Female	2020-04-11	<NA>	<NA>
858	C584818	35	35 to 39	Female	2020-04-11	2020-04-28	<NA>
859	C613442	29	25 to 29	Female	2020-04-11	<NA>	<NA>
860	C639784	34	30 to 34	Female	2020-04-11	<NA>	<NA>
861	C665782	33	30 to 34	Female	2020-04-11	<NA>	<NA>
862	C668208	32	30 to 34	Female	2020-04-11	2020-04-20	<NA>
863	C670673	51	50 to 54	Female	2020-04-11	2020-04-21	<NA>
864	C765091	38	35 to 39	Female	2020-04-11	2020-05-05	<NA>
865	C855340	26	25 to 29	Female	2020-04-11	2020-05-04	<NA>
866	C895375	39	35 to 39	Female	2020-04-11	2020-05-05	<NA>
867	C914191	60	60 to 64	Female	2020-04-11	<NA>	<NA>
868	C937032	61	60 to 64	Female	2020-04-11	2020-05-03	<NA>
869	C948953	23	20 to 24	Female	2020-04-11	2020-04-27	<NA>
870	C967230	49	45 to 49	Female	2020-04-11	<NA>	<NA>
871	C991109	41	40 to 44	Female	2020-04-11	<NA>	<NA>
872	C116942	29	25 to 29	Female	2020-04-12	2020-05-06	<NA>
873	C136904	70	70 to 74	Female	2020-04-12	<NA>	<NA>
874	C153057	31	30 to 34	Female	2020-04-12	2020-04-23	<NA>
875	C173671	33	30 to 34	Female	2020-04-12	2020-04-30	<NA>
876	C226102	30	30 to 34	Female	2020-04-12	<NA>	<NA>
877	C299958	26	25 to 29	Female	2020-04-12	<NA>	<NA>
878	C309508	32	30 to 34	Female	2020-04-12	<NA>	<NA>
879	C316407	67	65 to 69	Female	2020-04-12	<NA>	<NA>
880	C354102	31	30 to 34	Female	2020-04-12	2020-04-20	<NA>
881	C394055	30	30 to 34	Female	2020-04-12	<NA>	<NA>
882	C475633	36	35 to 39	Female	2020-04-12	2020-04-21	<NA>
883	C538711	25	25 to 29	Female	2020-04-12	<NA>	<NA>
884	C602574	62	60 to 64	Female	2020-04-12	2020-05-11	<NA>
885	C804706	46	45 to 49	Female	2020-04-12	<NA>	<NA>
886	C821103	23	20 to 24	Female	2020-04-12	<NA>	<NA>
887	C910376	27	25 to 29	Female	2020-04-12	2020-05-06	<NA>
888	C936396	21	20 to 24	Female	2020-04-12	2020-04-21	<NA>
889	C941315	30	30 to 34	Female	2020-04-12	2020-05-06	<NA>
890	C944570	36	35 to 39	Female	2020-04-12	<NA>	<NA>
891	C967810	56	55 to 59	Female	2020-04-12	<NA>	<NA>
892	C997666	25	25 to 29	Female	2020-04-12	<NA>	<NA>
893	C127699	47	45 to 49	Female	2020-04-13	2020-04-21	<NA>
894	C155399	55	55 to 59	Female	2020-04-13	<NA>	<NA>
895	C156898	35	35 to 39	Female	2020-04-13	2020-05-01	<NA>
896	C225993	36	35 to 39	Female	2020-04-13	<NA>	<NA>

897	C226138	24	20 to 24	Female	2020-04-13	<NA>	<NA>
898	C226538	46	45 to 49	Female	2020-04-13	<NA>	<NA>
899	C268648	34	30 to 34	Female	2020-04-13	<NA>	<NA>
900	C315780	24	20 to 24	Female	2020-04-13	<NA>	<NA>
901	C365526	31	30 to 34	Female	2020-04-13	<NA>	<NA>
902	C376701	39	35 to 39	Female	2020-04-13	2020-05-06	<NA>
903	C422599	35	35 to 39	Female	2020-04-13	<NA>	<NA>
904	C466932	32	30 to 34	Female	2020-04-13	2020-05-01	<NA>
905	C472941	5	5 to 9	Female	2020-04-13	<NA>	<NA>
906	C481723	26	25 to 29	Female	2020-04-13	<NA>	<NA>
907	C553486	32	30 to 34	Female	2020-04-13	2020-04-30	<NA>
908	C602340	32	30 to 34	Female	2020-04-13	<NA>	<NA>
909	C603455	40	40 to 44	Female	2020-04-13	2020-05-01	<NA>
910	C614737	23	20 to 24	Female	2020-04-13	<NA>	<NA>
911	C631258	42	40 to 44	Female	2020-04-13	<NA>	<NA>
912	C647633	41	40 to 44	Female	2020-04-13	2020-05-06	<NA>
913	C666834	35	35 to 39	Female	2020-04-13	2020-05-01	<NA>
914	C669040	64	60 to 64	Female	2020-04-13	<NA>	<NA>
915	C681717	36	35 to 39	Female	2020-04-13	<NA>	<NA>
916	C690675	58	55 to 59	Female	2020-04-13	2020-04-22	<NA>
917	C707796	47	45 to 49	Female	2020-04-13	<NA>	<NA>
918	C711326	51	50 to 54	Female	2020-04-13	<NA>	<NA>
919	C712022	33	30 to 34	Female	2020-04-13	2020-04-26	<NA>
920	C759879	29	25 to 29	Female	2020-04-13	2020-05-01	<NA>
921	C774068	49	45 to 49	Female	2020-04-13	2020-04-30	<NA>
922	C785191	8	5 to 9	Female	2020-04-13	2020-04-28	<NA>
923	C805808	48	45 to 49	Female	2020-04-13	<NA>	<NA>
924	C811624	22	20 to 24	Female	2020-04-13	<NA>	<NA>
925	C821182	31	30 to 34	Female	2020-04-13	2020-04-16	<NA>
926	C830188	39	35 to 39	Female	2020-04-13	<NA>	<NA>
927	C831448	22	20 to 24	Female	2020-04-13	<NA>	<NA>
928	C855319	56	55 to 59	Female	2020-04-13	2020-04-20	<NA>
929	C871964	54	50 to 54	Female	2020-04-13	<NA>	<NA>
930	C928825	31	30 to 34	Female	2020-04-13	2020-05-02	<NA>
931	C966730	53	50 to 54	Female	2020-04-13	2020-05-03	<NA>
932	C977809	55	55 to 59	Female	2020-04-13	<NA>	<NA>
933	C988303	66	65 to 69	Female	2020-04-13	<NA>	<NA>
934	C108116	34	30 to 34	Female	2020-04-14	<NA>	<NA>
935	C134474	51	50 to 54	Female	2020-04-14	<NA>	<NA>
936	C148552	30	30 to 34	Female	2020-04-14	<NA>	<NA>
937	C180395	72	70 to 74	Female	2020-04-14	<NA>	<NA>
938	C245689	40	40 to 44	Female	2020-04-14	2020-05-06	<NA>
939	C253929	28	25 to 29	Female	2020-04-14	<NA>	<NA>

940	C265947	30	30 to 34	Female	2020-04-14	2020-05-03	<NA>
941	C282962	56	55 to 59	Female	2020-04-14	2020-04-15	<NA>
942	C310478	31	30 to 34	Female	2020-04-14	<NA>	<NA>
943	C312959	37	35 to 39	Female	2020-04-14	<NA>	<NA>
944	C322410	23	20 to 24	Female	2020-04-14	<NA>	<NA>
945	C414765	17	15 to 19	Female	2020-04-14	2020-04-23	<NA>
946	C419765	17	15 to 19	Female	2020-04-14	<NA>	<NA>
947	C486285	23	20 to 24	Female	2020-04-14	<NA>	<NA>
948	C603215	29	25 to 29	Female	2020-04-14	2020-04-27	<NA>
949	C607907	36	35 to 39	Female	2020-04-14	<NA>	<NA>
950	C697756	29	25 to 29	Female	2020-04-14	2020-04-24	<NA>
951	C722946	41	40 to 44	Female	2020-04-14	2020-04-17	<NA>
952	C727704	13	10 to 14	Female	2020-04-14	2020-05-05	<NA>
953	C752112	44	40 to 44	Female	2020-04-14	2020-05-05	<NA>
954	C755713	35	35 to 39	Female	2020-04-14	<NA>	<NA>
955	C755963	72	70 to 74	Female	2020-04-14	<NA>	<NA>
956	C780480	22	20 to 24	Female	2020-04-14	2020-05-07	<NA>
957	C783413	26	25 to 29	Female	2020-04-14	2020-04-26	<NA>
958	C838250	50	50 to 54	Female	2020-04-14	<NA>	<NA>
959	C923711	26	25 to 29	Female	2020-04-14	2020-04-20	<NA>
960	C925214	47	45 to 49	Female	2020-04-14	2020-05-01	<NA>
961	C931444	22	20 to 24	Female	2020-04-14	<NA>	<NA>
962	C968008	66	65 to 69	Female	2020-04-14	2020-05-02	<NA>
963	C222997	41	40 to 44	Female	2020-04-15	2020-05-12	<NA>
964	C227463	37	35 to 39	Female	2020-04-15	2020-04-27	<NA>
965	C312352	47	45 to 49	Female	2020-04-15	<NA>	<NA>
966	C388986	52	50 to 54	Female	2020-04-15	2020-05-02	<NA>
967	C391785	55	55 to 59	Female	2020-04-15	2020-05-10	<NA>
968	C432517	27	25 to 29	Female	2020-04-15	2020-05-08	<NA>
969	C480756	44	40 to 44	Female	2020-04-15	<NA>	<NA>
970	C515351	35	35 to 39	Female	2020-04-15	2020-05-07	<NA>
971	C528703	56	55 to 59	Female	2020-04-15	2020-04-29	<NA>
972	C588921	60	60 to 64	Female	2020-04-15	2020-05-05	<NA>
973	C591404	31	30 to 34	Female	2020-04-15	<NA>	<NA>
974	C617304	81	80+	Female	2020-04-15	<NA>	<NA>
975	C677850	34	30 to 34	Female	2020-04-15	<NA>	<NA>
976	C697348	30	30 to 34	Female	2020-04-15	2020-04-25	<NA>
977	C747135	33	30 to 34	Female	2020-04-15	<NA>	<NA>
978	C771997	35	35 to 39	Female	2020-04-15	2020-04-30	<NA>
979	C793691	33	30 to 34	Female	2020-04-15	2020-04-30	<NA>
980	C800413	27	25 to 29	Female	2020-04-15	2020-04-15	<NA>
981	C830501	32	30 to 34	Female	2020-04-15	2020-04-29	<NA>
982	C841279	39	35 to 39	Female	2020-04-15	2020-05-01	<NA>

983	C895105	34	30 to 34	Female	2020-04-15	2020-05-02	<NA>
984	C903678	24	20 to 24	Female	2020-04-15	2020-04-29	<NA>
985	C972642	30	30 to 34	Female	2020-04-15	<NA>	<NA>
986	C975617	35	35 to 39	Female	2020-04-15	2020-05-04	<NA>
987	C104790	37	35 to 39	Female	2020-04-16	2020-04-30	<NA>
988	C128766	27	25 to 29	Female	2020-04-16	<NA>	<NA>
989	C147957	31	30 to 34	Female	2020-04-16	<NA>	<NA>
990	C154106	33	30 to 34	Female	2020-04-16	2020-05-05	<NA>
991	C195837	23	20 to 24	Female	2020-04-16	2020-05-05	<NA>
992	C238967	25	25 to 29	Female	2020-04-16	2020-04-20	<NA>
993	C254071	63	60 to 64	Female	2020-04-16	2020-05-05	<NA>
994	C262742	26	25 to 29	Female	2020-04-16	<NA>	<NA>
995	C266260	50	50 to 54	Female	2020-04-16	2020-05-05	<NA>
996	C287793	57	55 to 59	Female	2020-04-16	2020-05-04	<NA>
997	C291545	48	45 to 49	Female	2020-04-16	2020-04-30	<NA>
998	C331481	40	40 to 44	Female	2020-04-16	<NA>	<NA>
999	C355108	34	30 to 34	Female	2020-04-16	2020-05-05	<NA>
1000	C374024	31	30 to 34	Female	2020-04-16	<NA>	<NA>
1001	C428679	36	35 to 39	Female	2020-04-16	2020-05-01	<NA>
1002	C434533	43	40 to 44	Female	2020-04-16	2020-05-09	<NA>
1003	C440661	29	25 to 29	Female	2020-04-16	2020-04-30	<NA>
1004	C491147	32	30 to 34	Female	2020-04-16	2020-05-05	<NA>
1005	C495467	25	25 to 29	Female	2020-04-16	<NA>	<NA>
1006	C526879	35	35 to 39	Female	2020-04-16	<NA>	<NA>
1007	C612578	46	45 to 49	Female	2020-04-16	<NA>	<NA>
1008	C619521	42	40 to 44	Female	2020-04-16	<NA>	<NA>
1009	C635306	46	45 to 49	Female	2020-04-16	<NA>	<NA>
1010	C721079	55	55 to 59	Female	2020-04-16	2020-05-05	<NA>
1011	C729996	32	30 to 34	Female	2020-04-16	<NA>	<NA>
1012	C758108	33	30 to 34	Female	2020-04-16	2020-05-05	<NA>
1013	C764191	24	20 to 24	Female	2020-04-16	<NA>	<NA>
1014	C775868	25	25 to 29	Female	2020-04-16	2020-04-23	<NA>
1015	C804011	48	45 to 49	Female	2020-04-16	2020-05-05	<NA>
1016	C831293	35	35 to 39	Female	2020-04-16	2020-04-16	<NA>
1017	C840060	29	25 to 29	Female	2020-04-16	2020-04-30	<NA>
1018	C930032	62	60 to 64	Female	2020-04-16	<NA>	<NA>
1019	C962331	35	35 to 39	Female	2020-04-16	2020-05-05	<NA>
1020	C964627	36	35 to 39	Female	2020-04-16	2020-04-20	<NA>
1021	C139757	68	65 to 69	Female	2020-04-17	<NA>	<NA>
1022	C142128	42	40 to 44	Female	2020-04-17	2020-05-10	<NA>
1023	C156838	72	70 to 74	Female	2020-04-17	<NA>	<NA>
1024	C200742	30	30 to 34	Female	2020-04-17	<NA>	<NA>
1025	C222524	30	30 to 34	Female	2020-04-17	2020-05-05	<NA>

1026	C251896	55	55 to 59	Female	2020-04-17	2020-04-16	<NA>
1027	C314048	29	25 to 29	Female	2020-04-17	2020-05-05	<NA>
1028	C339353	35	35 to 39	Female	2020-04-17	2020-05-08	<NA>
1029	C346715	29	25 to 29	Female	2020-04-17	2020-05-05	<NA>
1030	C365840	47	45 to 49	Female	2020-04-17	<NA>	<NA>
1031	C374034	58	55 to 59	Female	2020-04-17	2020-05-08	<NA>
1032	C386384	49	45 to 49	Female	2020-04-17	2020-05-08	<NA>
1033	C496080	39	35 to 39	Female	2020-04-17	2020-05-06	<NA>
1034	C502718	65	65 to 69	Female	2020-04-17	2020-04-18	<NA>
1035	C539736	50	50 to 54	Female	2020-04-17	2020-04-30	<NA>
1036	C564568	36	35 to 39	Female	2020-04-17	2020-05-05	<NA>
1037	C616990	90	80+	Female	2020-04-17	<NA>	<NA>
1038	C733707	63	60 to 64	Female	2020-04-17	<NA>	<NA>
1039	C748848	36	35 to 39	Female	2020-04-17	2020-05-06	<NA>
1040	C779142	23	20 to 24	Female	2020-04-17	<NA>	<NA>
1041	C840977	43	40 to 44	Female	2020-04-17	2020-05-05	<NA>
1042	C897797	42	40 to 44	Female	2020-04-17	<NA>	<NA>
1043	C908641	84	80+	Female	2020-04-17	2020-04-30	<NA>
1044	C930121	47	45 to 49	Female	2020-04-17	<NA>	<NA>
1045	C935944	44	40 to 44	Female	2020-04-17	2020-05-11	<NA>
1046	C189635	57	55 to 59	Female	2020-04-18	2020-04-20	<NA>
1047	C234899	28	25 to 29	Female	2020-04-18	<NA>	<NA>
1048	C246337	36	35 to 39	Female	2020-04-18	2020-05-11	<NA>
1049	C326240	69	65 to 69	Female	2020-04-18	<NA>	<NA>
1050	C413863	27	25 to 29	Female	2020-04-18	2020-04-26	<NA>
1051	C477841	46	45 to 49	Female	2020-04-18	2020-04-29	<NA>
1052	C550572	26	25 to 29	Female	2020-04-18	2020-05-09	<NA>
1053	C566572	77	75 to 79	Female	2020-04-18	2020-05-04	<NA>
1054	C797316	46	45 to 49	Female	2020-04-18	<NA>	<NA>
1055	C874106	54	50 to 54	Female	2020-04-18	<NA>	<NA>
1056	C913590	49	45 to 49	Female	2020-04-18	2020-04-23	<NA>
1057	C962825	28	25 to 29	Female	2020-04-18	2020-05-04	<NA>
1058	C978449	56	55 to 59	Female	2020-04-18	<NA>	<NA>
1059	C114904	27	25 to 29	Female	2020-04-19	2020-05-04	<NA>
1060	C119897	39	35 to 39	Female	2020-04-19	<NA>	<NA>
1061	C207919	29	25 to 29	Female	2020-04-19	<NA>	<NA>
1062	C228093	23	20 to 24	Female	2020-04-19	2020-04-25	<NA>
1063	C269864	50	50 to 54	Female	2020-04-19	2020-05-02	<NA>
1064	C565336	23	20 to 24	Female	2020-04-19	2020-04-23	<NA>
1065	C669781	29	25 to 29	Female	2020-04-19	2020-05-11	<NA>
1066	C697977	35	35 to 39	Female	2020-04-19	<NA>	<NA>
1067	C721186	25	25 to 29	Female	2020-04-19	2020-04-27	<NA>
1068	C851981	24	20 to 24	Female	2020-04-19	<NA>	<NA>

1069	C168841	48	45 to 49	Female	2020-04-20	2020-05-14	<NA>
1070	C307189	23	20 to 24	Female	2020-04-20	2020-05-05	<NA>
1071	C310823	41	40 to 44	Female	2020-04-20	2020-05-03	<NA>
1072	C388735	25	25 to 29	Female	2020-04-20	2020-05-11	<NA>
1073	C760590	30	30 to 34	Female	2020-04-20	<NA>	<NA>
1074	C906545	29	25 to 29	Female	2020-04-20	2020-04-22	<NA>
1075	C149685	41	40 to 44	Female	2020-04-21	2020-05-08	<NA>
1076	C282851	52	50 to 54	Female	2020-04-21	2020-05-13	<NA>
1077	C433267	19	15 to 19	Female	2020-04-21	<NA>	<NA>
1078	C436611	22	20 to 24	Female	2020-04-21	2020-05-08	<NA>
1079	C494813	28	25 to 29	Female	2020-04-21	<NA>	<NA>
1080	C555366	34	30 to 34	Female	2020-04-21	2020-05-10	<NA>
1081	C960997	32	30 to 34	Female	2020-04-21	2020-04-29	<NA>
1082	C969542	43	40 to 44	Female	2020-04-21	2020-05-08	<NA>
1083	C269905	75	75 to 79	Female	2020-04-22	2020-05-08	<NA>
1084	C314925	62	60 to 64	Female	2020-04-22	2020-05-08	<NA>
1085	C808519	48	45 to 49	Female	2020-04-22	<NA>	<NA>
1086	C917405	33	30 to 34	Female	2020-04-22	2020-05-14	<NA>
1087	C126379	32	30 to 34	Female	2020-04-24	<NA>	<NA>
1088	C596566	30	30 to 34	Female	2020-04-25	2020-05-12	<NA>
1089	C873010	35	35 to 39	Female	2020-04-25	2020-05-08	<NA>
1090	C981991	9	5 to 9	Female	2020-04-25	<NA>	<NA>
1091	C997107	34	30 to 34	Female	2020-04-25	2020-05-06	<NA>
1092	C146516	28	25 to 29	Female	2020-04-26	2020-05-12	<NA>
1093	C234778	50	50 to 54	Female	2020-04-26	<NA>	<NA>
1094	C304449	0	0 to 4	Female	2020-04-26	2020-05-08	<NA>
1095	C454855	45	45 to 49	Female	2020-04-26	2020-05-02	<NA>
1096	C475352	40	40 to 44	Female	2020-04-26	2020-05-12	<NA>
1097	C931893	34	30 to 34	Female	2020-04-26	<NA>	<NA>
1098	C154501	34	30 to 34	Female	2020-04-27	2020-05-12	<NA>
1099	C199384	27	25 to 29	Female	2020-04-27	2020-05-07	<NA>
1100	C201544	61	60 to 64	Female	2020-04-27	2020-05-12	<NA>
1101	C595849	66	65 to 69	Female	2020-04-27	<NA>	<NA>
1102	C632506	25	25 to 29	Female	2020-04-27	2020-05-04	<NA>
1103	C652786	65	65 to 69	Female	2020-04-27	2020-05-08	<NA>
1104	C658528	28	25 to 29	Female	2020-04-27	2020-05-12	<NA>
1105	C729046	34	30 to 34	Female	2020-04-27	2020-05-14	<NA>
1106	C744423	22	20 to 24	Female	2020-04-27	<NA>	<NA>
1107	C135127	31	30 to 34	Female	2020-04-28	2020-05-08	<NA>
1108	C208785	63	60 to 64	Female	2020-04-28	2020-05-12	<NA>
1109	C449083	32	30 to 34	Female	2020-04-28	<NA>	<NA>
1110	C725164	45	45 to 49	Female	2020-04-28	2020-05-08	<NA>
1111	C884082	39	35 to 39	Female	2020-04-28	<NA>	<NA>

1112	C907994	49	45 to 49	Female	2020-04-28	2020-05-08	<NA>
1113	C396854	30	30 to 34	Female	2020-04-29	<NA>	<NA>
1114	C423453	25	25 to 29	Female	2020-04-29	2020-05-14	<NA>
1115	C535301	31	30 to 34	Female	2020-04-29	<NA>	<NA>
1116	C682354	30	30 to 34	Female	2020-04-30	2020-05-13	<NA>
1117	C708622	45	45 to 49	Female	2020-04-30	<NA>	<NA>
1118	C957216	54	50 to 54	Female	2020-04-30	<NA>	<NA>
1119	C246767	37	35 to 39	Female	2020-05-01	<NA>	<NA>
1120	C546101	24	20 to 24	Female	2020-05-01	2020-05-13	<NA>
1121	C575903	67	65 to 69	Female	2020-05-02	2020-05-05	<NA>
1122	C601441	37	35 to 39	Female	2020-05-02	<NA>	<NA>
1123	C257976	29	25 to 29	Female	2020-05-03	2020-05-12	<NA>
1124	C559212	40	40 to 44	Female	2020-05-03	2020-05-08	<NA>
1125	C967679	48	45 to 49	Female	2020-05-03	2020-05-10	<NA>
1126	C496195	31	30 to 34	Female	2020-05-05	2020-05-09	<NA>
1127	C605392	83	80+	Female	2020-05-05	2020-05-02	<NA>
1128	C766903	44	40 to 44	Female	2020-05-07	<NA>	<NA>
1129	C496614	35	35 to 39	Female	2020-05-12	2020-05-02	<NA>
1130	C786603	66	65 to 69	Female	2020-05-12	<NA>	<NA>
1131	C343995	28	25 to 29	Female	2020-05-14	<NA>	<NA>

	status	date_announced	as_removed	province
1	Recovered	2020-02-07		Negros Oriental
2	Recovered	2020-02-05		Bohol
3	Recovered	2020-03-21	Metropolitan	Manila
4	Recovered	2020-04-08		Bulacan
5	Recovered	2020-03-25	Metropolitan	Manila
6	Recovered	2020-03-28	Metropolitan	Manila
7	Recovered	2020-03-22	Metropolitan	Manila
8	Recovered	2020-03-25	Metropolitan	Manila
9	Recovered	2020-05-02	Metropolitan	Manila
10	Recovered	2020-04-05	Metropolitan	Manila
11	Recovered	2020-04-06	Metropolitan	Manila
12	Recovered	2020-03-21	Metropolitan	Manila
13	Recovered	2020-04-04	Metropolitan	Manila
14	Recovered	2020-05-03	Metropolitan	Manila
15	Recovered	2020-04-14	Metropolitan	Manila
16	Recovered	2020-03-31	Metropolitan	Manila
17	Recovered	2020-04-07	Metropolitan	Manila
18	Recovered	2020-04-15	Metropolitan	Manila
19	Recovered	2020-04-05	Metropolitan	Manila
20	Recovered	2020-05-02	Metropolitan	Manila
21	Recovered	2020-04-16		Cavite
22	Recovered	2020-03-25		Batangas



23	Recovered	2020-04-13	Metropolitan	Manila
24	Recovered	2020-04-12	Metropolitan	Manila
25	Recovered	2020-05-03	Metropolitan	Manila
26	Recovered	2020-03-24	Metropolitan	Manila
27	Recovered	2020-05-03		Cavite
28	Recovered	2020-04-06	Metropolitan	Manila
29	Recovered	2020-04-27	Metropolitan	Manila
30	Recovered	2020-05-03	Metropolitan	Manila
31	Recovered	2020-04-17	Metropolitan	Manila
32	Recovered	2020-03-24	Compostela	Valley
33	Recovered	2020-04-04	Metropolitan	Manila
34	Recovered	2020-04-14	Metropolitan	Manila
35	Recovered	2020-04-22		Rizal
36	Recovered	2020-04-07	Metropolitan	Manila
37	Recovered	2020-03-29	Metropolitan	Manila
38	Recovered	2020-04-16	Metropolitan	Manila
39	Recovered	2020-04-26	Metropolitan	Manila
40	Recovered	2020-05-03	Metropolitan	Manila
41	Recovered	2020-04-14	Metropolitan	Manila
42	Recovered	2020-04-17	Metropolitan	Manila
43	Recovered	2020-04-15	Metropolitan	Manila
44	Recovered	2020-04-17	Metropolitan	Manila
45	Recovered	2020-04-09	Metropolitan	Manila
46	Recovered	2020-04-22	Metropolitan	Manila
47	Recovered	2020-05-03	Metropolitan	Manila
48	Recovered	2020-05-12	Metropolitan	Manila
49	Recovered	2020-03-22	Metropolitan	Manila
50	Recovered	2020-04-29	Metropolitan	Manila
51	Recovered	2020-04-12	Metropolitan	Manila
52	Recovered	2020-05-02		Batangas
53	Recovered	2020-05-03	Metropolitan	Manila
54	Recovered	2020-04-09	Metropolitan	Manila
55	Recovered	2020-04-09	Metropolitan	Manila
56	Recovered	2020-04-28	Metropolitan	Manila
57	Recovered	2020-05-03	Metropolitan	Manila
58	Recovered	2020-05-03	Metropolitan	Manila
59	Recovered	2020-05-12	Metropolitan	Manila
60	Recovered	2020-05-03		Rizal
61	Recovered	2020-03-29	Metropolitan	Manila
62	Recovered	2020-04-09	Metropolitan	Manila
63	Recovered	2020-04-19	Metropolitan	Manila
64	Recovered	2020-04-26	Metropolitan	Manila
65	Recovered	2020-04-19	Metropolitan	Manila

66	Recovered	2020-04-10	Metropolitan Manila
67	Recovered	2020-05-03	Metropolitan Manila
68	Recovered	2020-04-19	Metropolitan Manila
69	Recovered	2020-04-11	Metropolitan Manila
70	Recovered	2020-04-21	Davao del Sur
71	Recovered	2020-04-12	Metropolitan Manila
72	Recovered	2020-04-17	Metropolitan Manila
73	Recovered	2020-04-10	Metropolitan Manila
74	Recovered	2020-05-06	Metropolitan Manila
75	Recovered	2020-04-05	Metropolitan Manila
76	Recovered	2020-04-19	Metropolitan Manila
77	Recovered	2020-04-20	Metropolitan Manila
78	Recovered	2020-04-26	La Union
79	Recovered	2020-04-20	Metropolitan Manila
80	Recovered	2020-04-10	Cavite
81	Recovered	2020-05-12	Metropolitan Manila
82	Recovered	2020-04-10	Metropolitan Manila
83	Recovered	2020-04-09	Metropolitan Manila
84	Recovered	2020-04-12	Metropolitan Manila
85	Recovered	2020-04-26	Metropolitan Manila
86	Recovered	2020-05-14	Metropolitan Manila
87	Recovered	2020-04-11	Metropolitan Manila
88	Recovered	2020-04-20	Bulacan
89	Recovered	2020-04-09	Metropolitan Manila
90	Recovered	2020-05-03	Metropolitan Manila
91	Recovered	2020-04-25	Metropolitan Manila
92	Recovered	2020-04-11	Metropolitan Manila
93	Recovered	2020-05-06	Metropolitan Manila
94	Recovered	2020-04-22	Metropolitan Manila
95	Recovered	2020-04-08	Metropolitan Manila
96	Recovered	2020-05-03	Metropolitan Manila
97	Recovered	2020-04-11	Metropolitan Manila
98	Recovered	2020-05-03	Batangas
99	Recovered	2020-04-21	Metropolitan Manila
100	Recovered	2020-05-03	Metropolitan Manila
101	Recovered	2020-05-06	Metropolitan Manila
102	Recovered	2020-04-16	Metropolitan Manila
103	Recovered	2020-04-22	Metropolitan Manila
104	Recovered	2020-04-04	Metropolitan Manila
105	Recovered	2020-04-26	Metropolitan Manila
106	Recovered	2020-04-27	Metropolitan Manila
107	Recovered	2020-04-29	Metropolitan Manila
108	Recovered	2020-04-12	Metropolitan Manila

109	Recovered	2020-04-16	Rizal
110	Recovered	2020-04-11	Metropolitan Manila
111	Recovered	2020-04-12	Metropolitan Manila
112	Recovered	2020-04-11	Bulacan
113	Recovered	2020-04-24	Metropolitan Manila
114	Recovered	2020-05-04	Metropolitan Manila
115	Recovered	2020-04-15	Metropolitan Manila
116	Recovered	2020-04-26	Metropolitan Manila
117	Recovered	2020-05-12	Metropolitan Manila
118	Recovered	2020-04-22	Metropolitan Manila
119	Recovered	2020-04-16	Metropolitan Manila
120	Recovered	2020-05-06	Metropolitan Manila
121	Recovered	2020-05-04	Bulacan
122	Recovered	2020-04-08	Benguet
123	Recovered	2020-05-03	Metropolitan Manila
124	Recovered	2020-05-03	Metropolitan Manila
125	Recovered	2020-04-14	Rizal
126	Recovered	2020-04-08	Metropolitan Manila
127	Recovered	2020-05-01	Metropolitan Manila
128	Recovered	2020-04-13	Rizal
129	Recovered	2020-04-09	Metropolitan Manila
130	Recovered	2020-04-13	Metropolitan Manila
131	Recovered	2020-04-15	Metropolitan Manila
132	Recovered	2020-05-03	Northern Samar
133	Recovered	2020-04-13	Metropolitan Manila
134	Recovered	2020-04-13	Metropolitan Manila
135	Recovered	2020-05-04	Metropolitan Manila
136	Recovered	2020-04-16	Metropolitan Manila
137	Recovered	2020-04-13	Laguna
138	Recovered	2020-04-13	Metropolitan Manila
139	Recovered	2020-04-26	Metropolitan Manila
140	Recovered	2020-04-26	Metropolitan Manila
141	Recovered	2020-05-12	Metropolitan Manila
142	Recovered	2020-04-13	Rizal
143	Recovered	2020-05-01	Lanao del Sur
144	Recovered	2020-05-14	Metropolitan Manila
145	Recovered	2020-05-04	Metropolitan Manila
146	Recovered	2020-04-13	Metropolitan Manila
147	Recovered	2020-05-04	Metropolitan Manila
148	Recovered	2020-05-04	Metropolitan Manila
149	Recovered	2020-05-01	Metropolitan Manila
150	Recovered	2020-04-16	Metropolitan Manila
151	Recovered	2020-05-04	Metropolitan Manila

152	Recovered	2020-04-06	Metropolitan Manila
153	Recovered	2020-05-04	Metropolitan Manila
154	Recovered	2020-04-26	Metropolitan Manila
155	Recovered	2020-04-14	Metropolitan Manila
156	Recovered	2020-04-24	Metropolitan Manila
157	Recovered	2020-05-01	Lanao del Sur
158	Recovered	2020-05-03	Metropolitan Manila
159	Recovered	2020-04-15	Metropolitan Manila
160	Recovered	2020-05-06	Metropolitan Manila
161	Recovered	2020-04-22	Iloilo
162	Recovered	2020-05-04	Metropolitan Manila
163	Recovered	2020-05-04	Metropolitan Manila
164	Recovered	2020-04-14	Metropolitan Manila
165	Recovered	2020-04-14	Laguna
166	Recovered	2020-05-06	Metropolitan Manila
167	Recovered	2020-04-13	Metropolitan Manila
168	Recovered	2020-05-04	Metropolitan Manila
169	Recovered	2020-05-13	Metropolitan Manila
170	Recovered	2020-05-12	Metropolitan Manila
171	Recovered	2020-05-01	Metropolitan Manila
172	Recovered	2020-04-12	Maguindanao
173	Recovered	2020-04-13	Metropolitan Manila
174	Recovered	2020-05-04	Metropolitan Manila
175	Recovered	2020-05-06	Metropolitan Manila
176	Recovered	2020-04-08	Benguet
177	Recovered	2020-04-12	Cavite
178	Recovered	2020-05-04	Metropolitan Manila
179	Recovered	2020-05-04	Metropolitan Manila
180	Recovered	2020-04-15	Metropolitan Manila
181	Recovered	2020-05-04	Metropolitan Manila
182	Recovered	2020-05-13	Metropolitan Manila
183	Recovered	2020-04-16	Metropolitan Manila
184	Recovered	2020-05-04	Metropolitan Manila
185	Recovered	2020-05-04	Metropolitan Manila
186	Recovered	2020-04-13	Metropolitan Manila
187	Recovered	2020-04-11	Batangas
188	Recovered	2020-04-17	Metropolitan Manila
189	Recovered	2020-04-26	Pangasinan
190	Recovered	2020-04-14	Metropolitan Manila
191	Recovered	2020-05-04	Metropolitan Manila
192	Recovered	2020-04-16	Metropolitan Manila
193	Recovered	2020-04-16	Zamboanga del Sur
194	Recovered	2020-05-04	Metropolitan Manila

195	Recovered	2020-04-29	Metropolitan Manila
196	Recovered	2020-04-26	Pangasinan
197	Recovered	2020-05-04	Metropolitan Manila
198	Recovered	2020-05-04	Rizal
199	Recovered	2020-05-04	Metropolitan Manila
200	Recovered	2020-05-04	Metropolitan Manila
201	Recovered	2020-05-04	Metropolitan Manila
202	Recovered	2020-04-24	Metropolitan Manila
203	Recovered	2020-05-04	Metropolitan Manila
204	Recovered	2020-05-04	Metropolitan Manila
205	Recovered	2020-04-15	Metropolitan Manila
206	Recovered	2020-04-16	Metropolitan Manila
207	Recovered	2020-05-12	Metropolitan Manila
208	Recovered	2020-05-12	Metropolitan Manila
209	Recovered	2020-05-04	Metropolitan Manila
210	Recovered	2020-05-12	Metropolitan Manila
211	Recovered	2020-04-17	Metropolitan Manila
212	Recovered	2020-04-15	Metropolitan Manila
213	Recovered	2020-04-06	Metropolitan Manila
214	Recovered	2020-04-15	Isabela
215	Recovered	2020-04-17	Metropolitan Manila
216	Recovered	2020-05-02	Metropolitan Manila
217	Recovered	2020-05-03	Metropolitan Manila
218	Recovered	2020-05-14	Metropolitan Manila
219	Recovered	2020-05-03	Metropolitan Manila
220	Recovered	2020-04-30	Metropolitan Manila
221	Recovered	2020-04-22	Iloilo
222	Recovered	2020-05-04	Metropolitan Manila
223	Recovered	2020-04-09	Oriental Mindoro
224	Recovered	2020-04-17	Metropolitan Manila
225	Recovered	2020-05-04	Metropolitan Manila
226	Recovered	2020-05-07	Metropolitan Manila
227	Recovered	2020-05-14	Metropolitan Manila
228	Recovered	2020-04-21	Metropolitan Manila
229	Recovered	2020-04-19	Cagayan
230	Recovered	2020-05-14	Metropolitan Manila
231	Recovered	2020-05-04	Metropolitan Manila
232	Recovered	2020-05-04	Metropolitan Manila
233	Recovered	2020-04-17	Metropolitan Manila
234	Recovered	2020-04-26	Metropolitan Manila
235	Recovered	2020-04-18	Metropolitan Manila
236	Recovered	2020-04-15	Metropolitan Manila
237	Recovered	2020-04-18	Metropolitan Manila

238	Recovered	2020-05-04	Nueva Ecija
239	Recovered	2020-04-16	Metropolitan Manila
240	Recovered	2020-05-12	Metropolitan Manila
241	Recovered	2020-04-17	Metropolitan Manila
242	Recovered	2020-04-12	Metropolitan Manila
243	Recovered	2020-04-13	Metropolitan Manila
244	Recovered	2020-05-06	Metropolitan Manila
245	Recovered	2020-05-12	Metropolitan Manila
246	Recovered	2020-05-04	Metropolitan Manila
247	Recovered	2020-04-14	Metropolitan Manila
248	Recovered	2020-05-02	Metropolitan Manila
249	Recovered	2020-04-17	Metropolitan Manila
250	Recovered	2020-04-08	Cagayan
251	Recovered	2020-05-04	Metropolitan Manila
252	Recovered	2020-04-26	Metropolitan Manila
253	Recovered	2020-04-23	Metropolitan Manila
254	Recovered	2020-04-17	Metropolitan Manila
255	Recovered	2020-05-04	Metropolitan Manila
256	Recovered	2020-04-26	Metropolitan Manila
257	Recovered	2020-04-26	Metropolitan Manila
258	Recovered	2020-04-18	Rizal
259	Recovered	2020-04-26	Metropolitan Manila
260	Recovered	2020-04-19	Cagayan
261	Recovered	2020-04-15	Cavite
262	Recovered	2020-04-17	Metropolitan Manila
263	Recovered	2020-04-18	Metropolitan Manila
264	Recovered	2020-04-29	Metropolitan Manila
265	Recovered	2020-04-17	Metropolitan Manila
266	Recovered	2020-05-06	Metropolitan Manila
267	Recovered	2020-04-18	Metropolitan Manila
268	Recovered	2020-04-17	Metropolitan Manila
269	Recovered	2020-04-22	Isabela
270	Recovered	2020-04-17	Metropolitan Manila
271	Recovered	2020-04-14	Metropolitan Manila
272	Recovered	2020-04-20	Metropolitan Manila
273	Recovered	2020-05-03	Metropolitan Manila
274	Recovered	2020-05-04	Metropolitan Manila
275	Recovered	2020-04-17	Cavite
276	Recovered	2020-04-26	Metropolitan Manila
277	Recovered	2020-05-04	Metropolitan Manila
278	Recovered	2020-04-19	Metropolitan Manila
279	Recovered	2020-04-15	Metropolitan Manila
280	Recovered	2020-04-20	Metropolitan Manila

281	Recovered	2020-04-06	Metropolitan Manila
282	Recovered	2020-04-16	Davao del Sur
283	Recovered	2020-04-19	Metropolitan Manila
284	Recovered	2020-04-21	Davao del Sur
285	Recovered	2020-04-14	Metropolitan Manila
286	Recovered	2020-04-23	Metropolitan Manila
287	Recovered	2020-04-15	Metropolitan Manila
288	Recovered	2020-04-22	Metropolitan Manila
289	Recovered	2020-04-25	Metropolitan Manila
290	Recovered	2020-05-04	Nueva Ecija
291	Recovered	2020-04-19	Metropolitan Manila
292	Recovered	2020-05-04	Metropolitan Manila
293	Recovered	2020-05-04	Metropolitan Manila
294	Recovered	2020-05-05	Metropolitan Manila
295	Recovered	2020-05-13	Metropolitan Manila
296	Recovered	2020-05-04	Metropolitan Manila
297	Recovered	2020-05-05	Metropolitan Manila
298	Recovered	2020-05-06	Metropolitan Manila
299	Recovered	2020-04-28	Rizal
300	Recovered	2020-05-04	Rizal
301	Recovered	2020-05-06	Metropolitan Manila
302	Recovered	2020-05-05	Metropolitan Manila
303	Recovered	2020-05-05	Metropolitan Manila
304	Recovered	2020-05-04	Rizal
305	Recovered	2020-04-19	Metropolitan Manila
306	Recovered	2020-04-15	Metropolitan Manila
307	Recovered	2020-05-04	Metropolitan Manila
308	Recovered	2020-04-19	Rizal
309	Recovered	2020-04-19	Metropolitan Manila
310	Recovered	2020-04-19	Metropolitan Manila
311	Recovered	2020-05-02	Metropolitan Manila
312	Recovered	2020-05-05	Metropolitan Manila
313	Recovered	2020-05-06	Metropolitan Manila
314	Recovered	2020-05-05	Metropolitan Manila
315	Recovered	2020-05-06	Metropolitan Manila
316	Recovered	2020-04-30	Metropolitan Manila
317	Recovered	2020-05-05	Metropolitan Manila
318	Recovered	2020-05-06	Metropolitan Manila
319	Recovered	2020-04-16	Metropolitan Manila
320	Recovered	2020-05-04	Metropolitan Manila
321	Recovered	2020-04-13	Rizal
322	Recovered	2020-04-16	Metropolitan Manila
323	Recovered	2020-04-18	Metropolitan Manila

324	Recovered	2020-05-04	Metropolitan Manila
325	Recovered	2020-04-27	Metropolitan Manila
326	Recovered	2020-04-21	Davao del Sur
327	Recovered	2020-04-19	Metropolitan Manila
328	Recovered	2020-05-05	Metropolitan Manila
329	Recovered	2020-04-28	Metropolitan Manila
330	Recovered	2020-05-12	Rizal
331	Recovered	2020-04-19	Nueva Vizcaya
332	Recovered	2020-05-02	Metropolitan Manila
333	Recovered	2020-04-25	Bulacan
334	Recovered	2020-05-05	Metropolitan Manila
335	Recovered	2020-05-12	Metropolitan Manila
336	Recovered	2020-04-17	Metropolitan Manila
337	Recovered	2020-04-14	Metropolitan Manila
338	Recovered	2020-04-29	Metropolitan Manila
339	Recovered	2020-04-14	Metropolitan Manila
340	Recovered	2020-05-05	Metropolitan Manila
341	Recovered	2020-04-14	Benguet
342	Recovered	2020-04-22	Negros Occidental
343	Recovered	2020-05-05	Metropolitan Manila
344	Recovered	2020-05-12	Metropolitan Manila
345	Recovered	2020-05-05	Metropolitan Manila
346	Recovered	2020-04-19	Metropolitan Manila
347	Recovered	2020-04-15	Metropolitan Manila
348	Recovered	2020-04-09	Cagayan
349	Recovered	2020-04-15	Metropolitan Manila
350	Recovered	2020-05-04	Metropolitan Manila
351	Recovered	2020-05-02	Metropolitan Manila
352	Recovered	2020-04-19	Metropolitan Manila
353	Recovered	2020-05-06	Metropolitan Manila
354	Recovered	2020-04-22	Metropolitan Manila
355	Recovered	2020-05-05	Rizal
356	Recovered	2020-04-26	Metropolitan Manila
357	Recovered	2020-04-16	Lanao del Norte
358	Recovered	2020-05-06	Metropolitan Manila
359	Recovered	2020-04-20	Davao Oriental
360	Recovered	2020-04-12	Cavite
361	Recovered	2020-05-05	Metropolitan Manila
362	Recovered	2020-04-20	Metropolitan Manila
363	Recovered	2020-04-26	Metropolitan Manila
364	Recovered	2020-04-15	Metropolitan Manila
365	Recovered	2020-04-20	Metropolitan Manila
366	Recovered	2020-04-06	Metropolitan Manila



367	Recovered	2020-05-05	Metropolitan Manila
368	Recovered	2020-04-21	Davao del Sur
369	Recovered	2020-04-13	Metropolitan Manila
370	Recovered	2020-05-15	Metropolitan Manila
371	Recovered	2020-05-05	Metropolitan Manila
372	Recovered	2020-04-22	Metropolitan Manila
373	Recovered	2020-04-17	Metropolitan Manila
374	Recovered	2020-04-27	Metropolitan Manila
375	Recovered	2020-05-02	Metropolitan Manila
376	Recovered	2020-04-12	Batangas
377	Recovered	2020-04-18	Metropolitan Manila
378	Recovered	2020-04-16	Metropolitan Manila
379	Recovered	2020-05-06	Metropolitan Manila
380	Recovered	2020-04-14	Cebu
381	Recovered	2020-04-14	Cebu
382	Recovered	2020-04-17	Metropolitan Manila
383	Recovered	2020-05-01	<NA>
384	Recovered	2020-04-16	Metropolitan Manila
385	Recovered	2020-05-07	Metropolitan Manila
386	Recovered	2020-04-26	Metropolitan Manila
387	Recovered	2020-05-12	Metropolitan Manila
388	Recovered	2020-05-03	Metropolitan Manila
389	Recovered	2020-05-05	Metropolitan Manila
390	Recovered	2020-04-16	Metropolitan Manila
391	Recovered	2020-05-05	Metropolitan Manila
392	Recovered	2020-04-16	Metropolitan Manila
393	Recovered	2020-04-13	Marinduque
394	Recovered	2020-04-28	Metropolitan Manila
395	Recovered	2020-05-06	Metropolitan Manila
396	Recovered	2020-05-12	Metropolitan Manila
397	Recovered	2020-05-07	Metropolitan Manila
398	Recovered	2020-04-12	Metropolitan Manila
399	Recovered	2020-05-12	Metropolitan Manila
400	Recovered	2020-04-16	Metropolitan Manila
401	Recovered	2020-05-06	Metropolitan Manila
402	Recovered	2020-05-12	Metropolitan Manila
403	Recovered	2020-04-14	Cebu
404	Recovered	2020-05-07	Metropolitan Manila
405	Recovered	2020-04-14	Cebu
406	Recovered	2020-05-05	Batangas
407	Recovered	2020-04-11	Metropolitan Manila
408	Recovered	2020-05-05	Metropolitan Manila
409	Recovered	2020-05-05	Metropolitan Manila

410	Recovered	2020-05-14	Metropolitan Manila
411	Recovered	2020-05-12	Metropolitan Manila
412	Recovered	2020-05-07	Metropolitan Manila
413	Recovered	2020-04-27	Rizal
414	Recovered	2020-05-06	Metropolitan Manila
415	Recovered	2020-04-16	Metropolitan Manila
416	Recovered	2020-04-28	Metropolitan Manila
417	Recovered	2020-04-15	Metropolitan Manila
418	Recovered	2020-05-05	Cavite
419	Recovered	2020-04-26	Ilocos Sur
420	Recovered	2020-04-30	Metropolitan Manila
421	Recovered	2020-04-26	Pangasinan
422	Recovered	2020-05-07	Metropolitan Manila
423	Recovered	2020-04-15	Metropolitan Manila
424	Recovered	2020-04-15	Metropolitan Manila
425	Recovered	2020-05-05	Metropolitan Manila
426	Recovered	2020-05-05	Metropolitan Manila
427	Recovered	2020-04-15	Bataan
428	Recovered	2020-04-23	Metropolitan Manila
429	Recovered	2020-05-12	Metropolitan Manila
430	Recovered	2020-04-24	Laguna
431	Recovered	2020-04-15	Metropolitan Manila
432	Recovered	2020-04-12	Batangas
433	Recovered	2020-05-12	Metropolitan Manila
434	Recovered	2020-05-12	Metropolitan Manila
435	Recovered	2020-05-05	Metropolitan Manila
436	Recovered	2020-05-05	Laguna
437	Recovered	2020-05-05	Metropolitan Manila
438	Recovered	2020-04-27	Metropolitan Manila
439	Recovered	2020-05-06	Cavite
440	Recovered	2020-05-12	Zamboanga del Sur
441	Recovered	2020-05-01	Metropolitan Manila
442	Recovered	2020-04-12	Batangas
443	Recovered	2020-04-18	Metropolitan Manila
444	Recovered	2020-04-26	Metropolitan Manila
445	Recovered	2020-05-03	Metropolitan Manila
446	Recovered	2020-04-14	Cebu
447	Recovered	2020-04-13	Metropolitan Manila
448	Recovered	2020-04-25	Metropolitan Manila
449	Recovered	2020-05-06	Batangas
450	Recovered	2020-05-07	Metropolitan Manila
451	Recovered	2020-05-09	Rizal
452	Recovered	2020-05-06	Metropolitan Manila

453	Recovered	2020-05-07	Metropolitan Manila
454	Recovered	2020-04-27	Metropolitan Manila
455	Recovered	2020-04-15	Metropolitan Manila
456	Recovered	2020-04-14	Cebu
457	Recovered	2020-05-12	Metropolitan Manila
458	Recovered	2020-05-12	Metropolitan Manila
459	Recovered	2020-05-05	Metropolitan Manila
460	Recovered	2020-05-06	Metropolitan Manila
461	Recovered	2020-05-02	Metropolitan Manila
462	Recovered	2020-05-05	Metropolitan Manila
463	Recovered	2020-04-29	Metropolitan Manila
464	Recovered	2020-05-02	Cebu
465	Recovered	2020-05-07	Metropolitan Manila
466	Recovered	2020-05-03	Tarlac
467	Recovered	2020-05-12	Laguna
468	Recovered	2020-05-02	Metropolitan Manila
469	Recovered	2020-04-14	Cebu
470	Recovered	2020-05-05	Metropolitan Manila
471	Recovered	2020-04-29	Metropolitan Manila
472	Recovered	2020-05-13	Metropolitan Manila
473	Recovered	2020-05-02	Metropolitan Manila
474	Recovered	2020-04-16	Metropolitan Manila
475	Recovered	2020-05-06	Metropolitan Manila
476	Recovered	2020-04-22	Metropolitan Manila
477	Recovered	2020-05-07	Metropolitan Manila
478	Recovered	2020-05-08	Rizal
479	Recovered	2020-04-15	Metropolitan Manila
480	Recovered	2020-04-22	Cagayan
481	Recovered	2020-05-07	Metropolitan Manila
482	Recovered	2020-05-07	Metropolitan Manila
483	Recovered	2020-05-08	Metropolitan Manila
484	Recovered	2020-05-12	Metropolitan Manila
485	Recovered	2020-04-16	Davao del Sur
486	Recovered	2020-04-16	Metropolitan Manila
487	Recovered	2020-05-07	Metropolitan Manila
488	Recovered	2020-05-07	Metropolitan Manila
489	Recovered	2020-05-07	Batangas
490	Recovered	2020-05-12	Metropolitan Manila
491	Recovered	2020-05-12	Metropolitan Manila
492	Recovered	2020-05-07	Metropolitan Manila
493	Recovered	2020-04-14	Sultan Kudarat
494	Recovered	2020-05-07	Metropolitan Manila
495	Recovered	2020-04-15	Metropolitan Manila

496	Recovered	2020-05-13	Metropolitan Manila
497	Recovered	2020-04-28	Metropolitan Manila
498	Recovered	2020-05-07	Metropolitan Manila
499	Recovered	2020-05-07	Metropolitan Manila
500	Recovered	2020-04-15	Metropolitan Manila
501	Recovered	2020-05-12	Cavite
502	Recovered	2020-04-17	Davao del Sur
503	Recovered	2020-05-03	Metropolitan Manila
504	Recovered	2020-04-20	Davao Oriental
505	Recovered	2020-05-12	Metropolitan Manila
506	Recovered	2020-05-07	Metropolitan Manila
507	Recovered	2020-05-12	Rizal
508	Recovered	2020-05-03	Metropolitan Manila
509	Recovered	2020-05-08	Metropolitan Manila
510	Recovered	2020-05-12	Metropolitan Manila
511	Recovered	2020-04-14	Metropolitan Manila
512	Recovered	2020-04-17	Rizal
513	Recovered	2020-05-12	Metropolitan Manila
514	Recovered	2020-04-28	Metropolitan Manila
515	Recovered	2020-05-07	Metropolitan Manila
516	Recovered	2020-04-12	Laguna
517	Recovered	2020-04-14	Metropolitan Manila
518	Recovered	2020-05-07	Metropolitan Manila
519	Recovered	2020-05-07	Metropolitan Manila
520	Recovered	2020-05-08	Metropolitan Manila
521	Recovered	2020-05-07	Metropolitan Manila
522	Recovered	2020-04-19	Isabela
523	Recovered	2020-05-07	Metropolitan Manila
524	Recovered	2020-05-07	Metropolitan Manila
525	Recovered	2020-05-09	Metropolitan Manila
526	Recovered	2020-05-07	Metropolitan Manila
527	Recovered	2020-04-16	Davao del Sur
528	Recovered	2020-05-08	Metropolitan Manila
529	Recovered	2020-04-19	Metropolitan Manila
530	Recovered	2020-05-12	Pangasinan
531	Recovered	2020-04-28	Metropolitan Manila
532	Recovered	2020-04-27	La Union
533	Recovered	2020-04-26	Pangasinan
534	Recovered	2020-04-29	Metropolitan Manila
535	Recovered	2020-05-07	Metropolitan Manila
536	Recovered	2020-05-08	<NA>
537	Recovered	2020-05-12	Metropolitan Manila
538	Recovered	2020-04-16	Metropolitan Manila

539	Recovered	2020-04-13	Metropolitan Manila
540	Recovered	2020-04-30	Metropolitan Manila
541	Recovered	2020-05-07	Metropolitan Manila
542	Recovered	2020-04-27	Metropolitan Manila
543	Recovered	2020-05-05	Metropolitan Manila
544	Recovered	2020-05-12	Pangasinan
545	Recovered	2020-05-08	Metropolitan Manila
546	Recovered	2020-05-03	<NA>
547	Recovered	2020-05-05	Nueva Vizcaya
548	Recovered	2020-05-07	Metropolitan Manila
549	Recovered	2020-05-08	Nueva Ecija
550	Recovered	2020-04-15	Metropolitan Manila
551	Recovered	2020-05-11	Metropolitan Manila
552	Recovered	2020-05-08	Metropolitan Manila
553	Recovered	2020-04-27	Metropolitan Manila
554	Recovered	2020-04-17	Metropolitan Manila
555	Recovered	2020-05-08	Metropolitan Manila
556	Recovered	2020-05-12	Rizal
557	Recovered	2020-05-08	Metropolitan Manila
558	Recovered	2020-04-22	Metropolitan Manila
559	Recovered	2020-05-03	Rizal
560	Recovered	2020-04-26	La Union
561	Recovered	2020-05-08	Metropolitan Manila
562	Recovered	2020-04-13	Marinduque
563	Recovered	2020-04-27	La Union
564	Recovered	2020-05-08	Metropolitan Manila
565	Recovered	2020-04-27	Rizal
566	Recovered	2020-04-29	Metropolitan Manila
567	Recovered	2020-05-15	Metropolitan Manila
568	Recovered	2020-05-15	Metropolitan Manila
569	Recovered	2020-05-08	Metropolitan Manila
570	Recovered	2020-05-08	Metropolitan Manila
571	Recovered	2020-04-16	Bulacan
572	Recovered	2020-04-21	Metropolitan Manila
573	Recovered	2020-04-22	<NA>
574	Recovered	2020-05-08	Metropolitan Manila
575	Recovered	2020-05-07	Metropolitan Manila
576	Recovered	2020-04-27	Cavite
577	Recovered	2020-05-12	Metropolitan Manila
578	Recovered	2020-04-22	Metropolitan Manila
579	Recovered	2020-05-08	Metropolitan Manila
580	Recovered	2020-05-07	Cavite
581	Recovered	2020-04-27	Metropolitan Manila

582	Recovered	2020-05-08	Metropolitan Manila
583	Recovered	2020-05-03	Bulacan
584	Recovered	2020-05-08	Metropolitan Manila
585	Recovered	2020-05-08	Metropolitan Manila
586	Recovered	2020-04-15	Metropolitan Manila
587	Recovered	2020-04-27	La Union
588	Recovered	2020-05-15	Metropolitan Manila
589	Recovered	2020-04-13	Metropolitan Manila
590	Recovered	2020-05-08	Zamboanga del Sur
591	Recovered	2020-05-08	Metropolitan Manila
592	Recovered	2020-05-08	Metropolitan Manila
593	Recovered	2020-04-22	<NA>
594	Recovered	2020-05-08	Metropolitan Manila
595	Recovered	2020-04-16	Davao del Sur
596	Recovered	2020-05-09	Metropolitan Manila
597	Recovered	2020-04-27	Pampanga
598	Recovered	2020-05-08	Metropolitan Manila
599	Recovered	2020-05-08	Metropolitan Manila
600	Recovered	2020-05-14	Metropolitan Manila
601	Recovered	2020-04-27	Metropolitan Manila
602	Recovered	2020-05-08	Metropolitan Manila
603	Recovered	2020-04-29	Aklan
604	Recovered	2020-05-09	Metropolitan Manila
605	Recovered	2020-04-29	Metropolitan Manila
606	Recovered	2020-05-14	Metropolitan Manila
607	Recovered	2020-04-27	Metropolitan Manila
608	Recovered	2020-05-15	Metropolitan Manila
609	Recovered	2020-05-13	Cavite
610	Recovered	2020-05-10	Metropolitan Manila
611	Recovered	2020-05-09	Metropolitan Manila
612	Recovered	2020-05-07	Metropolitan Manila
613	Recovered	2020-04-08	Metropolitan Manila
614	Recovered	2020-05-09	Metropolitan Manila
615	Recovered	2020-05-08	Metropolitan Manila
616	Recovered	2020-05-13	Cavite
617	Recovered	2020-04-15	Metropolitan Manila
618	Recovered	2020-04-21	Metropolitan Manila
619	Recovered	2020-05-09	Rizal
620	Recovered	2020-05-07	Metropolitan Manila
621	Recovered	2020-05-09	Metropolitan Manila
622	Recovered	2020-05-12	Metropolitan Manila
623	Recovered	2020-05-03	Bulacan
624	Recovered	2020-05-13	Metropolitan Manila

625	Recovered	2020-04-16	Metropolitan Manila
626	Recovered	2020-05-13	Metropolitan Manila
627	Recovered	2020-05-09	<NA>
628	Recovered	2020-05-09	Metropolitan Manila
629	Recovered	2020-04-30	Metropolitan Manila
630	Recovered	2020-04-21	Metropolitan Manila
631	Recovered	2020-05-09	<NA>
632	Recovered	2020-05-13	Metropolitan Manila
633	Recovered	2020-04-14	Metropolitan Manila
634	Recovered	2020-05-09	Metropolitan Manila
635	Recovered	2020-05-09	Metropolitan Manila
636	Recovered	2020-05-13	Metropolitan Manila
637	Recovered	2020-05-08	Metropolitan Manila
638	Recovered	2020-05-08	Metropolitan Manila
639	Recovered	2020-05-05	Metropolitan Manila
640	Recovered	2020-05-03	Metropolitan Manila
641	Recovered	2020-05-09	Metropolitan Manila
642	Recovered	2020-05-01	Metropolitan Manila
643	Recovered	2020-04-16	Metropolitan Manila
644	Recovered	2020-04-21	Metropolitan Manila
645	Recovered	2020-05-09	Metropolitan Manila
646	Recovered	2020-05-09	Metropolitan Manila
647	Recovered	2020-05-08	Batangas
648	Recovered	2020-05-09	Metropolitan Manila
649	Recovered	2020-05-09	Cavite
650	Recovered	2020-04-27	Iloilo
651	Recovered	2020-04-20	Metropolitan Manila
652	Recovered	2020-04-27	Iloilo
653	Recovered	2020-04-27	Iloilo
654	Recovered	2020-05-09	Metropolitan Manila
655	Recovered	2020-05-09	Metropolitan Manila
656	Recovered	2020-04-29	Iloilo
657	Recovered	2020-04-29	Metropolitan Manila
658	Recovered	2020-05-09	Metropolitan Manila
659	Recovered	2020-04-19	Metropolitan Manila
660	Recovered	2020-04-16	Davao del Sur
661	Recovered	2020-04-29	Davao del Sur
662	Recovered	2020-05-07	Metropolitan Manila
663	Recovered	2020-05-09	<NA>
664	Recovered	2020-05-13	Metropolitan Manila
665	Recovered	2020-04-21	Metropolitan Manila
666	Recovered	2020-05-09	Metropolitan Manila
667	Recovered	2020-04-16	Davao del Sur

668	Recovered	2020-05-08	Metropolitan Manila
669	Recovered	2020-05-13	Metropolitan Manila
670	Recovered	2020-05-09	Metropolitan Manila
671	Recovered	2020-04-24	Rizal
672	Recovered	2020-05-10	Metropolitan Manila
673	Recovered	2020-05-09	Metropolitan Manila
674	Recovered	2020-05-07	<NA>
675	Recovered	2020-05-09	Davao del Sur
676	Recovered	2020-05-09	Metropolitan Manila
677	Recovered	2020-05-03	Metropolitan Manila
678	Recovered	2020-05-09	Batangas
679	Recovered	2020-04-27	Metropolitan Manila
680	Recovered	2020-05-01	Davao del Sur
681	Recovered	2020-05-10	Metropolitan Manila
682	Recovered	2020-05-09	Metropolitan Manila
683	Recovered	2020-04-29	Lanao del Sur
684	Recovered	2020-05-08	Metropolitan Manila
685	Recovered	2020-05-09	Metropolitan Manila
686	Recovered	2020-05-15	Metropolitan Manila
687	Recovered	2020-05-06	Metropolitan Manila
688	Recovered	2020-05-13	Metropolitan Manila
689	Recovered	2020-05-13	Metropolitan Manila
690	Recovered	2020-05-09	Metropolitan Manila
691	Recovered	2020-05-09	Metropolitan Manila
692	Recovered	2020-04-20	Metropolitan Manila
693	Recovered	2020-04-27	Metropolitan Manila
694	Recovered	2020-04-18	Zamboanga del Sur
695	Recovered	2020-05-10	Metropolitan Manila
696	Recovered	2020-04-25	Metropolitan Manila
697	Recovered	2020-05-10	Metropolitan Manila
698	Recovered	2020-05-10	Metropolitan Manila
699	Recovered	2020-05-10	Metropolitan Manila
700	Recovered	2020-05-10	Zambales
701	Recovered	2020-04-24	Metropolitan Manila
702	Recovered	2020-05-03	Bulacan
703	Recovered	2020-05-10	Batangas
704	Recovered	2020-04-28	Quezon
705	Recovered	2020-04-15	Metropolitan Manila
706	Recovered	2020-05-10	Metropolitan Manila
707	Recovered	2020-04-24	Rizal
708	Recovered	2020-04-29	Metropolitan Manila
709	Recovered	2020-05-10	Metropolitan Manila
710	Recovered	2020-05-15	Quezon



711	Recovered	2020-04-24	Metropolitan Manila
712	Recovered	2020-05-15	Metropolitan Manila
713	Recovered	2020-05-14	Metropolitan Manila
714	Recovered	2020-05-09	Metropolitan Manila
715	Recovered	2020-05-10	Metropolitan Manila
716	Recovered	2020-05-10	Metropolitan Manila
717	Recovered	2020-05-10	Zambales
718	Recovered	2020-05-10	Metropolitan Manila
719	Recovered	2020-04-13	Benguet
720	Recovered	2020-05-04	Metropolitan Manila
721	Recovered	2020-05-13	Metropolitan Manila
722	Recovered	2020-05-09	Metropolitan Manila
723	Recovered	2020-05-10	Metropolitan Manila
724	Recovered	2020-05-08	Metropolitan Manila
725	Recovered	2020-05-01	Metropolitan Manila
726	Recovered	2020-05-13	Laguna
727	Recovered	2020-05-10	Metropolitan Manila
728	Recovered	2020-05-14	Metropolitan Manila
729	Recovered	2020-04-25	Metropolitan Manila
730	Recovered	2020-04-14	Benguet
731	Recovered	2020-04-25	Metropolitan Manila
732	Recovered	2020-05-09	Laguna
733	Recovered	2020-05-10	Metropolitan Manila
734	Recovered	2020-04-14	Cebu
735	Recovered	2020-05-15	Metropolitan Manila
736	Recovered	2020-05-10	Batangas
737	Recovered	2020-05-10	Metropolitan Manila
738	Recovered	2020-05-10	Cavite
739	Recovered	2020-05-13	Metropolitan Manila
740	Recovered	2020-05-10	Metropolitan Manila
741	Recovered	2020-04-18	Metropolitan Manila
742	Recovered	2020-05-10	Metropolitan Manila
743	Recovered	2020-05-02	Metropolitan Manila
744	Recovered	2020-04-24	Rizal
745	Recovered	2020-05-10	Batangas
746	Recovered	2020-05-02	Cebu
747	Recovered	2020-05-10	Metropolitan Manila
748	Recovered	2020-04-19	Metropolitan Manila
749	Recovered	2020-05-10	Metropolitan Manila
750	Recovered	2020-04-24	Batangas
751	Recovered	2020-05-14	Rizal
752	Recovered	2020-05-10	Metropolitan Manila
753	Recovered	2020-05-10	Metropolitan Manila

754	Recovered	2020-05-10	Metropolitan Manila
755	Recovered	2020-04-23	Metropolitan Manila
756	Recovered	2020-05-10	Rizal
757	Recovered	2020-05-10	Bulacan
758	Recovered	2020-04-24	Metropolitan Manila
759	Recovered	2020-05-10	Metropolitan Manila
760	Recovered	2020-05-14	Metropolitan Manila
761	Recovered	2020-05-15	Cavite
762	Recovered	2020-05-08	Bataan
763	Recovered	2020-05-14	Laguna
764	Recovered	2020-05-15	Metropolitan Manila
765	Recovered	2020-05-10	Metropolitan Manila
766	Recovered	2020-05-09	Rizal
767	Recovered	2020-05-09	Metropolitan Manila
768	Recovered	2020-05-13	Metropolitan Manila
769	Recovered	2020-05-09	Metropolitan Manila
770	Recovered	2020-04-29	Metropolitan Manila
771	Recovered	2020-04-13	Benguet
772	Recovered	2020-04-24	Metropolitan Manila
773	Recovered	2020-05-10	Samar
774	Recovered	2020-05-10	Metropolitan Manila
775	Recovered	2020-04-26	North Cotabato
776	Recovered	2020-04-19	Camiguin
777	Recovered	2020-04-28	Metropolitan Manila
778	Recovered	2020-05-10	Batangas
779	Recovered	2020-05-01	Metropolitan Manila
780	Recovered	2020-04-21	Davao del Sur
781	Recovered	2020-05-10	Metropolitan Manila
782	Recovered	2020-04-26	Maguindanao
783	Recovered	2020-05-07	Metropolitan Manila
784	Recovered	2020-04-23	Samar
785	Recovered	2020-05-10	Metropolitan Manila
786	Recovered	2020-05-13	Metropolitan Manila
787	Recovered	2020-05-14	Metropolitan Manila
788	Recovered	2020-04-18	Metropolitan Manila
789	Recovered	2020-05-11	Batangas
790	Recovered	2020-05-15	Metropolitan Manila
791	Recovered	2020-05-07	Metropolitan Manila
792	Recovered	2020-05-09	Davao del Sur
793	Recovered	2020-05-14	Metropolitan Manila
794	Recovered	2020-04-27	Cavite
795	Recovered	2020-05-13	Laguna
796	Recovered	2020-05-03	Bulacan

797	Recovered	2020-04-14	Benguet
798	Recovered	2020-05-10	Metropolitan Manila
799	Recovered	2020-05-03	Metropolitan Manila
800	Recovered	2020-05-10	Metropolitan Manila
801	Recovered	2020-04-27	Metropolitan Manila
802	Recovered	2020-04-15	Metropolitan Manila
803	Recovered	2020-05-10	Metropolitan Manila
804	Recovered	2020-04-25	Metropolitan Manila
805	Recovered	2020-04-13	Metropolitan Manila
806	Recovered	2020-05-09	Metropolitan Manila
807	Recovered	2020-05-01	Metropolitan Manila
808	Recovered	2020-05-09	Metropolitan Manila
809	Recovered	2020-04-24	Metropolitan Manila
810	Recovered	2020-04-24	Metropolitan Manila
811	Recovered	2020-05-10	Bulacan
812	Recovered	2020-04-20	Metropolitan Manila
813	Recovered	2020-05-10	Metropolitan Manila
814	Recovered	2020-05-03	Bulacan
815	Recovered	2020-05-15	Metropolitan Manila
816	Recovered	2020-04-19	Isabela
817	Recovered	2020-04-23	Metropolitan Manila
818	Recovered	2020-05-10	Metropolitan Manila
819	Recovered	2020-05-10	Metropolitan Manila
820	Recovered	2020-05-11	Metropolitan Manila
821	Recovered	2020-05-13	Metropolitan Manila
822	Recovered	2020-04-22	Metropolitan Manila
823	Recovered	2020-04-22	Metropolitan Manila
824	Recovered	2020-05-08	Rizal
825	Recovered	2020-05-11	Metropolitan Manila
826	Recovered	2020-05-15	Metropolitan Manila
827	Recovered	2020-04-25	Rizal
828	Recovered	2020-05-14	Metropolitan Manila
829	Recovered	2020-04-28	Laguna
830	Recovered	2020-05-13	Iloilo
831	Recovered	2020-05-07	Metropolitan Manila
832	Recovered	2020-04-28	Metropolitan Manila
833	Recovered	2020-05-15	Metropolitan Manila
834	Recovered	2020-05-13	Iloilo
835	Recovered	2020-04-28	Metropolitan Manila
836	Recovered	2020-04-21	Bulacan
837	Recovered	2020-04-24	La Union
838	Recovered	2020-05-15	Metropolitan Manila
839	Recovered	2020-05-01	Metropolitan Manila

840	Recovered	2020-05-11	Metropolitan Manila
841	Recovered	2020-04-25	Metropolitan Manila
842	Recovered	2020-05-07	Metropolitan Manila
843	Recovered	2020-05-15	Metropolitan Manila
844	Recovered	2020-05-11	Metropolitan Manila
845	Recovered	2020-05-03	Pampanga
846	Recovered	2020-05-11	Laguna
847	Recovered	2020-05-15	Metropolitan Manila
848	Recovered	2020-04-29	Metropolitan Manila
849	Recovered	2020-04-24	Metropolitan Manila
850	Recovered	2020-05-10	Metropolitan Manila
851	Recovered	2020-05-06	Benguet
852	Recovered	2020-05-11	Metropolitan Manila
853	Recovered	2020-04-18	Metropolitan Manila
854	Recovered	2020-05-09	Rizal
855	Recovered	2020-04-20	Metropolitan Manila
856	Recovered	2020-05-11	Metropolitan Manila
857	Recovered	2020-05-08	Cavite
858	Recovered	2020-05-08	Pampanga
859	Recovered	2020-05-11	Metropolitan Manila
860	Recovered	2020-04-26	Metropolitan Manila
861	Recovered	2020-05-11	Metropolitan Manila
862	Recovered	2020-04-22	Isabela
863	Recovered	2020-05-03	Pampanga
864	Recovered	2020-05-15	Bataan
865	Recovered	2020-05-08	Pampanga
866	Recovered	2020-05-13	Bulacan
867	Recovered	2020-04-27	Metropolitan Manila
868	Recovered	2020-04-25	Rizal
869	Recovered	2020-05-11	Metropolitan Manila
870	Recovered	2020-05-03	Metropolitan Manila
871	Recovered	2020-05-11	Metropolitan Manila
872	Recovered	2020-05-07	Metropolitan Manila
873	Recovered	2020-05-13	Rizal
874	Recovered	2020-05-13	Metropolitan Manila
875	Recovered	2020-04-17	Metropolitan Manila
876	Recovered	2020-05-11	Metropolitan Manila
877	Recovered	2020-05-03	Metropolitan Manila
878	Recovered	2020-05-11	Metropolitan Manila
879	Recovered	2020-05-06	Cebu
880	Recovered	2020-05-03	Tarlac
881	Recovered	2020-05-11	Metropolitan Manila
882	Recovered	2020-04-29	Laguna

883	Recovered	2020-04-27	Metropolitan Manila
884	Recovered	2020-05-11	Metropolitan Manila
885	Recovered	2020-05-11	Metropolitan Manila
886	Recovered	2020-05-15	Laguna
887	Recovered	2020-05-08	Batangas
888	Recovered	2020-05-14	Metropolitan Manila
889	Recovered	2020-05-07	Metropolitan Manila
890	Recovered	2020-05-11	Laguna
891	Recovered	2020-05-03	Metropolitan Manila
892	Recovered	2020-05-05	Metropolitan Manila
893	Recovered	2020-05-07	Metropolitan Manila
894	Recovered	2020-05-11	Metropolitan Manila
895	Recovered	2020-05-11	Metropolitan Manila
896	Recovered	2020-04-27	Metropolitan Manila
897	Recovered	2020-05-13	Laguna
898	Recovered	2020-05-06	Laguna
899	Recovered	2020-05-13	Metropolitan Manila
900	Recovered	2020-05-15	Nueva Ecija
901	Recovered	2020-05-15	Metropolitan Manila
902	Recovered	2020-05-14	Metropolitan Manila
903	Recovered	2020-05-15	Metropolitan Manila
904	Recovered	2020-05-08	Bataan
905	Recovered	2020-05-03	Metropolitan Manila
906	Recovered	2020-04-25	Metropolitan Manila
907	Recovered	2020-05-15	Bataan
908	Recovered	2020-05-13	Laguna
909	Recovered	2020-05-13	Metropolitan Manila
910	Recovered	2020-04-25	Metropolitan Manila
911	Recovered	2020-05-11	Metropolitan Manila
912	Recovered	2020-05-13	Isabela
913	Recovered	2020-05-07	Bataan
914	Recovered	2020-05-11	Metropolitan Manila
915	Recovered	2020-04-25	Batangas
916	Recovered	2020-04-28	Metropolitan Manila
917	Recovered	2020-05-13	Metropolitan Manila
918	Recovered	2020-05-15	Metropolitan Manila
919	Recovered	2020-05-14	Bataan
920	Recovered	2020-05-08	Nueva Ecija
921	Recovered	2020-05-09	Metropolitan Manila
922	Recovered	2020-04-29	Metropolitan Manila
923	Recovered	2020-05-11	Metropolitan Manila
924	Recovered	2020-05-10	Cavite
925	Recovered	2020-04-20	Metropolitan Manila

926	Recovered	2020-05-07	Metropolitan	Manila
927	Recovered	2020-05-05	Metropolitan	Manila
928	Recovered	2020-05-06	Metropolitan	Manila
929	Recovered	2020-05-15	Metropolitan	Manila
930	Recovered	2020-05-05		Bataan
931	Recovered	2020-05-09	Metropolitan	Manila
932	Recovered	2020-04-25		<NA>
933	Recovered	2020-04-27		Albay
934	Recovered	2020-05-15	Metropolitan	Manila
935	Recovered	2020-05-10	Metropolitan	Manila
936	Recovered	2020-05-15	Metropolitan	Manila
937	Recovered	2020-05-13	Metropolitan	Manila
938	Recovered	2020-05-09	Metropolitan	Manila
939	Recovered	2020-04-27		Albay
940	Recovered	2020-05-15		Laguna
941	Recovered	2020-05-07	Metropolitan	Manila
942	Recovered	2020-05-15		Quezon
943	Recovered	2020-05-15	Metropolitan	Manila
944	Recovered	2020-05-14		Bulacan
945	Recovered	2020-04-24		Davao del Sur
946	Recovered	2020-04-27	Metropolitan	Manila
947	Recovered	2020-05-11	Metropolitan	Manila
948	Recovered	2020-05-15		Laguna
949	Recovered	2020-05-15		Cavite
950	Recovered	2020-05-02	Metropolitan	Manila
951	Recovered	2020-05-11		Cavite
952	Recovered	2020-05-09	Metropolitan	Manila
953	Recovered	2020-05-09		Quezon
954	Recovered	2020-05-11		<NA>
955	Recovered	2020-05-15	Metropolitan	Manila
956	Recovered	2020-05-09	Metropolitan	Manila
957	Recovered	2020-04-26	Metropolitan	Manila
958	Recovered	2020-05-15	Metropolitan	Manila
959	Recovered	2020-05-02		<NA>
960	Recovered	2020-05-08	Metropolitan	Manila
961	Recovered	2020-05-11	Metropolitan	Manila
962	Recovered	2020-05-06	Metropolitan	Manila
963	Recovered	2020-05-15	Metropolitan	Manila
964	Recovered	2020-05-02	Metropolitan	Manila
965	Recovered	2020-05-13	Metropolitan	Manila
966	Recovered	2020-05-07	Metropolitan	Manila
967	Recovered	2020-05-13	Metropolitan	Manila
968	Recovered	2020-05-09		Davao del Sur

969	Recovered	2020-05-15	Metropolitan	Manila
970	Recovered	2020-05-13	Metropolitan	Manila
971	Recovered	2020-05-06		Cebu
972	Recovered	2020-05-15	Metropolitan	Manila
973	Recovered	2020-05-15	Metropolitan	Manila
974	Recovered	2020-05-06		Cebu
975	Recovered	2020-05-14	Metropolitan	Manila
976	Recovered	2020-05-05	Metropolitan	Manila
977	Recovered	2020-05-15	Metropolitan	Manila
978	Recovered	2020-05-06	Metropolitan	Manila
979	Recovered	2020-05-08		Bataan
980	Recovered	2020-05-13	Metropolitan	Manila
981	Recovered	2020-05-06		Cebu
982	Recovered	2020-05-15	Metropolitan	Manila
983	Recovered	2020-05-13	Metropolitan	Manila
984	Recovered	2020-05-07	Metropolitan	Manila
985	Recovered	2020-05-07	Metropolitan	Manila
986	Recovered	2020-05-07	Metropolitan	Manila
987	Recovered	2020-05-08		Bataan
988	Recovered	2020-05-03	Metropolitan	Manila
989	Recovered	2020-05-08	Metropolitan	Manila
990	Recovered	2020-05-06		Bataan
991	Recovered	2020-05-11		<NA>
992	Recovered	2020-05-14	Metropolitan	Manila
993	Recovered	2020-05-06		Bataan
994	Recovered	2020-05-08		Cavite
995	Recovered	2020-05-13		Bataan
996	Recovered	2020-05-07	Metropolitan	Manila
997	Recovered	2020-05-01		Davao del Sur
998	Recovered	2020-05-07		Laguna
999	Recovered	2020-05-08		Bataan
1000	Recovered	2020-05-13	Metropolitan	Manila
1001	Recovered	2020-05-08		Bataan
1002	Recovered	2020-05-13		Bataan
1003	Recovered	2020-05-01	Metropolitan	Manila
1004	Recovered	2020-05-13		Bataan
1005	Recovered	2020-05-07	Metropolitan	Manila
1006	Recovered	2020-05-14		Rizal
1007	Recovered	2020-05-07		Laguna
1008	Recovered	2020-05-15		Bataan
1009	Recovered	2020-05-15	Metropolitan	Manila
1010	Recovered	2020-05-08		Bataan
1011	Recovered	2020-04-27	Metropolitan	Manila

1012	Recovered	2020-05-13	Bataan
1013	Recovered	2020-05-15	Bataan
1014	Recovered	2020-05-13	Metropolitan Manila
1015	Recovered	2020-05-15	Zambales
1016	Recovered	2020-04-20	Metropolitan Manila
1017	Recovered	2020-05-02	Metropolitan Manila
1018	Recovered	2020-05-15	Metropolitan Manila
1019	Recovered	2020-05-08	Bataan
1020	Recovered	2020-05-14	Metropolitan Manila
1021	Recovered	2020-05-15	Laguna
1022	Recovered	2020-05-14	Metropolitan Manila
1023	Recovered	2020-05-15	Metropolitan Manila
1024	Recovered	2020-04-28	Metropolitan Manila
1025	Recovered	2020-05-08	Bataan
1026	Recovered	2020-05-08	Metropolitan Manila
1027	Recovered	2020-05-13	Bataan
1028	Recovered	2020-05-14	Metropolitan Manila
1029	Recovered	2020-05-13	Bataan
1030	Recovered	2020-05-15	Metropolitan Manila
1031	Recovered	2020-05-14	Cebu
1032	Recovered	2020-05-13	Cebu
1033	Recovered	2020-05-13	Metropolitan Manila
1034	Recovered	2020-05-15	Metropolitan Manila
1035	Recovered	2020-05-13	Metropolitan Manila
1036	Recovered	2020-05-13	Bataan
1037	Recovered	2020-05-15	Metropolitan Manila
1038	Recovered	2020-05-11	Metropolitan Manila
1039	Recovered	2020-05-14	Pampanga
1040	Recovered	2020-05-05	Metropolitan Manila
1041	Recovered	2020-05-13	Bataan
1042	Recovered	2020-05-15	Metropolitan Manila
1043	Recovered	2020-05-09	Metropolitan Manila
1044	Recovered	2020-05-13	Cebu
1045	Recovered	2020-05-15	Rizal
1046	Recovered	2020-04-27	Cavite
1047	Recovered	2020-05-06	Metropolitan Manila
1048	Recovered	2020-05-15	Metropolitan Manila
1049	Recovered	2020-05-15	Metropolitan Manila
1050	Recovered	2020-04-27	Davao del Sur
1051	Recovered	2020-05-02	Metropolitan Manila
1052	Recovered	2020-05-15	Metropolitan Manila
1053	Recovered	2020-05-06	Iloilo
1054	Recovered	2020-05-15	Cavite



1055 Recovered	2020-05-15	Cavite
1056 Recovered	2020-05-08	Laguna
1057 Recovered	2020-05-05	Davao del Sur
1058 Recovered	2020-05-07	Metropolitan Manila
1059 Recovered	2020-05-14	Metropolitan Manila
1060 Recovered	2020-05-08	Metropolitan Manila
1061 Recovered	2020-05-07	Laguna
1062 Recovered	2020-05-07	Metropolitan Manila
1063 Recovered	2020-05-08	Metropolitan Manila
1064 Recovered	2020-05-07	Metropolitan Manila
1065 Recovered	2020-05-15	Metropolitan Manila
1066 Recovered	2020-05-02	Metropolitan Manila
1067 Recovered	2020-05-08	Metropolitan Manila
1068 Recovered	2020-05-13	Metropolitan Manila
1069 Recovered	2020-05-15	Laguna
1070 Recovered	2020-05-13	Cebu
1071 Recovered	2020-05-04	Davao del Sur
1072 Recovered	2020-05-13	Metropolitan Manila
1073 Recovered	2020-05-07	Metropolitan Manila
1074 Recovered	2020-05-15	Metropolitan Manila
1075 Recovered	2020-05-09	Davao del Sur
1076 Recovered	2020-05-14	Metropolitan Manila
1077 Recovered	2020-05-13	Metropolitan Manila
1078 Recovered	2020-05-11	Benguet
1079 Recovered	2020-05-13	Metropolitan Manila
1080 Recovered	2020-05-13	Metropolitan Manila
1081 Recovered	2020-05-15	Rizal
1082 Recovered	2020-05-15	Metropolitan Manila
1083 Recovered	2020-05-09	Davao del Sur
1084 Recovered	2020-05-14	Cebu
1085 Recovered	2020-05-14	Metropolitan Manila
1086 Recovered	2020-05-15	Metropolitan Manila
1087 Recovered	2020-05-13	Metropolitan Manila
1088 Recovered	2020-05-13	Benguet
1089 Recovered	2020-05-13	Cebu
1090 Recovered	2020-05-13	Cebu
1091 Recovered	2020-05-14	Metropolitan Manila
1092 Recovered	2020-05-14	Benguet
1093 Recovered	2020-05-15	Metropolitan Manila
1094 Recovered	2020-05-11	Benguet
1095 Recovered	2020-05-13	Marinduque
1096 Recovered	2020-05-13	Benguet
1097 Recovered	2020-05-15	Metropolitan Manila

1098	Recovered	2020-05-13	Benguet
1099	Recovered	2020-05-14	Metropolitan Manila
1100	Recovered	2020-05-13	Benguet
1101	Recovered	2020-04-28	Metropolitan Manila
1102	Recovered	2020-05-13	Oriental Mindoro
1103	Recovered	2020-05-11	Negros Occidental
1104	Recovered	2020-05-14	Benguet
1105	Recovered	2020-05-15	Benguet
1106	Recovered	2020-05-09	Bulacan
1107	Recovered	2020-05-13	Cebu
1108	Recovered	2020-05-13	Benguet
1109	Recovered	2020-04-29	Rizal
1110	Recovered	2020-05-14	Cebu
1111	Recovered	2020-04-29	Metropolitan Manila
1112	Recovered	2020-05-09	Davao del Sur
1113	Recovered	2020-05-13	Metropolitan Manila
1114	Recovered	2020-05-15	Metropolitan Manila
1115	Recovered	2020-05-15	Metropolitan Manila
1116	Recovered	2020-05-14	Metropolitan Manila
1117	Recovered	2020-05-13	Metropolitan Manila
1118	Recovered	2020-05-15	Metropolitan Manila
1119	Recovered	2020-05-13	Metropolitan Manila
1120	Recovered	2020-05-13	Metropolitan Manila
1121	Recovered	2020-05-13	Metropolitan Manila
1122	Recovered	2020-05-13	Cebu
1123	Recovered	2020-05-13	Iloilo
1124	Recovered	2020-05-09	Davao del Sur
1125	Recovered	2020-05-11	Davao del Sur
1126	Recovered	2020-05-14	Metropolitan Manila
1127	Recovered	2020-05-13	Metropolitan Manila
1128	Recovered	2020-05-15	Metropolitan Manila
1129	Recovered	2020-05-14	Oriental Mindoro
1130	Recovered	2020-05-14	Metropolitan Manila
1131	Recovered	2020-05-14	Metropolitan Manila

	muni_city	health_status	home_quarantined
1	Dumaguete City	Recovered	<NA>
2	Panglao	Recovered	No
3	San Juan	Recovered	Yes
4	San Jose del Monte City	Recovered	Yes
5	San Juan	Recovered	Yes
6	Pasig City	Recovered	No
7	San Juan	Recovered	No
8	San Juan	Recovered	Yes

9	Marikina	Recovered	Yes
10	Marikina	Recovered	Yes
11	Manila	Recovered	Yes
12	Makati City	Recovered	No
13	Quezon City	Recovered	Yes
14	Quezon City	Recovered	Yes
15	San Juan	Recovered	Yes
16	Makati City	Recovered	Yes
17	Quezon City	Recovered	Yes
18	San Juan	Recovered	Yes
19	Manila	Recovered	No
20	Quezon City	Recovered	Yes
21	Dasmariñas	Recovered	Yes
22	Lemery	Recovered	No
23	Manila	Recovered	No
24	Taguig	Recovered	No
25	Mandaluyong	Recovered	Yes
26	Quezon City	Recovered	No
27	Dasmariñas	Recovered	Yes
28	Parañaque	Recovered	Yes
29	Pasay City	Recovered	Yes
30	Quezon City	Recovered	No
31	Quezon City	Recovered	Yes
32	Pantukan	Recovered	Yes
33	Mandaluyong	Recovered	No
34	Parañaque	Recovered	Yes
35	Cainta	Recovered	Yes
36	Marikina	Recovered	No
37	Quezon City	Recovered	Yes
38	Mandaluyong	Recovered	Yes
39	Muntinlupa	Recovered	Yes
40	Muntinlupa	Recovered	<NA>
41	Taguig	Recovered	Yes
42	Taguig	Recovered	Yes
43	San Juan	Recovered	Yes
44	Kalookan City	Recovered	Yes
45	Makati City	Recovered	No
46	Muntinlupa	Recovered	Yes
47	Pasig City	Recovered	Yes
48	Pasig City	Recovered	No
49	Quezon City	Recovered	Yes
50	Las Piñas	Recovered	No
51	Manila	Recovered	Yes

52	Batangas City	Recovered	Yes
53	Quezon City	Recovered	Yes
54	San Juan	Recovered	Yes
55	San Juan	Recovered	No
56	San Juan	Recovered	Yes
57	Pasig City	Recovered	Yes
58	Quezon City	Recovered	Yes
59	San Juan	Recovered	No
60	Antipolo City	Recovered	Yes
61	Makati City	Recovered	No
62	Valenzuela	Recovered	No
63	Mandaluyong	Recovered	Yes
64	Pasig City	Recovered	Yes
65	Manila	Recovered	Yes
66	Quezon City	Recovered	Yes
67	Mandaluyong	Recovered	Yes
68	Quezon City	Recovered	Yes
69	Quezon City	Recovered	Yes
70	Davao City	Recovered	Yes
71	Quezon City	Recovered	Yes
72	Makati City	Recovered	No
73	San Juan	Recovered	No
74	Quezon City	Recovered	Yes
75	Manila	Recovered	Yes
76	Pasig City	Recovered	No
77	Quezon City	Recovered	No
78	Caba	Recovered	Yes
79	Manila	Recovered	Yes
80	Rosario	Recovered	No
81	San Juan	Recovered	Yes
82	Las Piñas	Recovered	Yes
83	Quezon City	Recovered	No
84	Pasig City	Recovered	Yes
85	Mandaluyong	Recovered	Yes
86	San Juan	Recovered	Yes
87	Pateros	Recovered	No
88	Santa Maria	Recovered	Yes
89	San Juan	Recovered	<NA>
90	Makati City	Recovered	No
91	Manila	Recovered	Yes
92	Marikina	Recovered	Yes
93	Quezon City	Recovered	Yes
94	Pasig City	Recovered	Yes

95	Las Piñas	Recovered	Yes
96	Mandaluyong	Recovered	No
97	Las Piñas	Recovered	Yes
98	Batangas City	Recovered	No
99	Parañaque	Recovered	Yes
100	Quezon City	Recovered	Yes
101	Quezon City	Recovered	Yes
102	Quezon City	Recovered	Yes
103	Parañaque	Recovered	<NA>
104	Taguig	Recovered	Yes
105	Manila	Recovered	Yes
106	Makati City	Recovered	Yes
107	Manila	Recovered	Yes
108	Pasay City	Recovered	Yes
109	Jala-Jala	Recovered	Yes
110	Makati City	Recovered	Yes
111	San Juan	Recovered	No
112	Bulacan	Recovered	Yes
113	Manila	Recovered	No
114	Parañaque	Recovered	No
115	Parañaque	Recovered	Yes
116	Quezon City	Recovered	Yes
117	Quezon City	Recovered	Yes
118	Pasig City	Recovered	Yes
119	Quezon City	Recovered	Yes
120	Quezon City	Recovered	Yes
121	San Jose del Monte City	Recovered	No
122	Baguio City	Recovered	Yes
123	Parañaque	Recovered	Yes
124	Parañaque	Recovered	Yes
125	Cainta	Recovered	Yes
126	Makati City	Recovered	Yes
127	Quezon City	Recovered	Yes
128	Cainta	Recovered	Yes
129	Taguig	Recovered	Yes
130	Taguig	Recovered	Yes
131	Pateros	Recovered	Yes
132	Catarman	Recovered	Yes
133	Taguig	Recovered	Yes
134	Parañaque	Recovered	Yes
135	Makati City	Recovered	Yes
136	Quezon City	Recovered	Yes
137	Biñan	Recovered	Yes

138	Makati City	Recovered	Yes
139	Makati City	Recovered	Yes
140	San Juan	Recovered	Yes
141	Manila	Recovered	No
142	Antipolo City	Recovered	<NA>
143	Marawi City	Recovered	No
144	San Juan	Recovered	No
145	Mandaluyong	Recovered	Yes
146	Taguig	Recovered	No
147	Quezon City	Recovered	Yes
148	Taguig	Recovered	Yes
149	San Juan	Recovered	Yes
150	San Juan	Recovered	Yes
151	Parañaque	Recovered	Yes
152	Taguig	Recovered	No
153	Taguig	Recovered	Yes
154	Mandaluyong	Recovered	Yes
155	Muntinlupa	Recovered	Yes
156	Muntinlupa	Recovered	Yes
157	Marawi City	Recovered	No
158	Parañaque	Recovered	<NA>
159	Marikina	Recovered	Yes
160	Quezon City	Recovered	Yes
161	Iloilo City	Recovered	Yes
162	Quezon City	Recovered	No
163	Quezon City	Recovered	No
164	Quezon City	Recovered	Yes
165	Biñan	Recovered	Yes
166	Quezon City	Recovered	No
167	Parañaque	Recovered	Yes
168	Makati City	Recovered	No
169	San Juan	Recovered	No
170	Quezon City	Recovered	Yes
171	San Juan	Recovered	Yes
172	Cotabato City	Recovered	Yes
173	Pasay City	Recovered	Yes
174	Quezon City	Recovered	No
175	Quezon City	Recovered	No
176	Baguio City	Recovered	Yes
177	Dasmariñas	Recovered	No
178	Pasig City	Recovered	<NA>
179	Marikina	Recovered	Yes
180	Quezon City	Recovered	Yes

181	Makati City	Recovered	No
182	Parañaque	Recovered	Yes
183	San Juan	Recovered	Yes
184	Manila	Recovered	Yes
185	Quezon City	Recovered	Yes
186	Manila	Recovered	Yes
187	Batangas City	Recovered	Yes
188	San Juan	Recovered	Yes
189	Bayambang	Recovered	No
190	Quezon City	Recovered	<NA>
191	Manila	Recovered	No
192	Manila	Recovered	Yes
193	Zamboanga City	Recovered	Yes
194	Pasig City	Recovered	Yes
195	Quezon City	Recovered	Yes
196	Bayambang	Recovered	Yes
197	Quezon City	Recovered	No
198	San Mateo	Recovered	No
199	Makati City	Recovered	Yes
200	Manila	Recovered	No
201	San Juan	Recovered	No
202	Makati City	Recovered	Yes
203	Quezon City	Recovered	Yes
204	Marikina	Recovered	No
205	Makati City	Recovered	Yes
206	Parañaque	Recovered	Yes
207	Parañaque	Recovered	No
208	Kalookan City	Recovered	<NA>
209	Makati City	Recovered	Yes
210	Mandaluyong	Recovered	No
211	Taguig	Recovered	Yes
212	Malabon	Recovered	No
213	Makati City	Recovered	Yes
214	Alicia	Recovered	Yes
215	San Juan	Recovered	Yes
216	Pasig City	Recovered	Yes
217	Parañaque	Recovered	Yes
218	San Juan	Recovered	No
219	Parañaque	Recovered	No
220	Quezon City	Recovered	Yes
221	Miagao	Recovered	Yes
222	Manila	Recovered	Yes
223	Calapan City	Recovered	Yes

224	Makati City	Recovered	Yes
225	Mandaluyong	Recovered	Yes
226	Quezon City	Recovered	No
227	San Juan	Recovered	<NA>
228	Parañaque	Recovered	Yes
229	Tuguegarao City	Recovered	Yes
230	San Juan	Recovered	Yes
231	Muntinlupa	Recovered	<NA>
232	Parañaque	Recovered	Yes
233	Las Piñas	Recovered	No
234	Quezon City	Recovered	Yes
235	Parañaque	Recovered	Yes
236	Pasay City	Recovered	Yes
237	Mandaluyong	Recovered	Yes
238	Cabanatuan City	Recovered	Yes
239	Makati City	Recovered	Yes
240	Muntinlupa	Recovered	No
241	Quezon City	Recovered	No
242	Pasay City	Recovered	Yes
243	Quezon City	Recovered	Yes
244	Quezon City	Recovered	<NA>
245	San Juan	Recovered	Yes
246	Taguig	Recovered	Yes
247	Pasig City	Recovered	Yes
248	Las Piñas	Recovered	Yes
249	Quezon City	Recovered	Yes
250	Tuguegarao City	Recovered	Yes
251	Mandaluyong	Recovered	Yes
252	Quezon City	Recovered	Yes
253	Parañaque	Recovered	<NA>
254	San Juan	Recovered	Yes
255	Mandaluyong	Recovered	No
256	Makati City	Recovered	Yes
257	Quezon City	Recovered	Yes
258	Taytay	Recovered	Yes
259	Makati City	Recovered	Yes
260	Tuguegarao City	Recovered	Yes
261	Maragondon	Recovered	Yes
262	Mandaluyong	Recovered	Yes
263	Quezon City	Recovered	Yes
264	Muntinlupa	Recovered	Yes
265	Mandaluyong	Recovered	Yes
266	Quezon City	Recovered	No



267	Pasay City	Recovered	No
268	Quezon City	Recovered	<NA>
269	Alicia	Recovered	Yes
270	Pasig City	Recovered	<NA>
271	Muntinlupa	Recovered	Yes
272	Manila	Recovered	Yes
273	Parañaque	Recovered	Yes
274	Makati City	Recovered	Yes
275	Imus	Recovered	Yes
276	Taguig	Recovered	Yes
277	Quezon City	Recovered	Yes
278	Muntinlupa	Recovered	No
279	Manila	Recovered	Yes
280	Quezon City	Recovered	Yes
281	Manila	Recovered	Yes
282	Davao City	Recovered	Yes
283	Quezon City	Recovered	Yes
284	Davao City	Recovered	Yes
285	Kalookan City	Recovered	Yes
286	Quezon City	Recovered	Yes
287	Makati City	Recovered	Yes
288	Kalookan City	Recovered	Yes
289	Manila	Recovered	Yes
290	Gapan City	Recovered	No
291	Quezon City	Recovered	Yes
292	Marikina	Recovered	Yes
293	Las Piñas	Recovered	No
294	Marikina	Recovered	Yes
295	Manila	Recovered	No
296	Manila	Recovered	No
297	Quezon City	Recovered	Yes
298	Quezon City	Recovered	Yes
299	Antipolo City	Recovered	Yes
300	Antipolo City	Recovered	Yes
301	Quezon City	Recovered	Yes
302	Manila	Recovered	<NA>
303	Parañaque	Recovered	No
304	Antipolo City	Recovered	Yes
305	Manila	Recovered	Yes
306	Quezon City	Recovered	Yes
307	Manila	Recovered	<NA>
308	Cardona	Recovered	Yes
309	Makati City	Recovered	Yes

310	Taguig	Recovered	Yes
311	Pasig City	Recovered	Yes
312	Quezon City	Recovered	No
313	Quezon City	Recovered	Yes
314	Manila	Recovered	No
315	Marikina	Recovered	<NA>
316	Marikina	Recovered	No
317	Quezon City	Recovered	No
318	Quezon City	Recovered	No
319	Quezon City	Recovered	Yes
320	Quezon City	Recovered	No
321	Binangonan	Recovered	Yes
322	Makati City	Recovered	Yes
323	Manila	Recovered	Yes
324	Manila	Recovered	No
325	Manila	Recovered	Yes
326	Davao City	Recovered	Yes
327	Quezon City	Recovered	<NA>
328	Mandaluyong	Recovered	Yes
329	Quezon City	Recovered	Yes
330	Cainta	Recovered	Yes
331	Alfonso Castaneda	Recovered	Yes
332	Makati City	Recovered	No
333	San Miguel	Recovered	Yes
334	Kalookan City	Recovered	Yes
335	Mandaluyong	Recovered	Yes
336	Quezon City	Recovered	Yes
337	Quezon City	Recovered	Yes
338	Quezon City	Recovered	Yes
339	Makati City	Recovered	No
340	Quezon City	Recovered	No
341	Baguio City	Recovered	<NA>
342	Enrique B. Magalona	Recovered	No
343	Parañaque	Recovered	Yes
344	Kalookan City	Recovered	<NA>
345	Marikina	Recovered	No
346	San Juan	Recovered	Yes
347	Quezon City	Recovered	No
348	Tuguegarao City	Recovered	Yes
349	Makati City	Recovered	No
350	San Juan	Recovered	No
351	Manila	Recovered	No
352	Quezon City	Recovered	Yes

353	Quezon City	Recovered	<NA>
354	San Juan	Recovered	<NA>
355	Antipolo City	Recovered	Yes
356	Quezon City	Recovered	Yes
357	Iligan City	Recovered	Yes
358	Quezon City	Recovered	<NA>
359	Mati City	Recovered	Yes
360	Silang	Recovered	No
361	Quezon City	Recovered	Yes
362	San Juan	Recovered	Yes
363	Makati City	Recovered	Yes
364	Manila	Recovered	Yes
365	Kalookan City	Recovered	Yes
366	Quezon City	Recovered	Yes
367	Quezon City	Recovered	No
368	Davao City	Recovered	Yes
369	Quezon City	Recovered	Yes
370	San Juan	Recovered	Yes
371	Makati City	Recovered	Yes
372	Pasig City	Recovered	No
373	Makati City	Recovered	Yes
374	Parañaque	Recovered	Yes
375	Makati City	Recovered	Yes
376	Lipa City	Recovered	Yes
377	Parañaque	Recovered	Yes
378	Las Piñas	Recovered	Yes
379	Makati City	Recovered	Yes
380	Cebu City	Recovered	Yes
381	Cebu City	Recovered	Yes
382	Manila	Recovered	No
383	<NA>	Recovered	Yes
384	Quezon City	Recovered	<NA>
385	Pasig City	Recovered	Yes
386	Pasig City	Recovered	Yes
387	Manila	Recovered	No
388	Quezon City	Recovered	Yes
389	Kalookan City	Recovered	<NA>
390	Quezon City	Recovered	Yes
391	Quezon City	Recovered	Yes
392	Makati City	Recovered	Yes
393	Torrijos	Recovered	Yes
394	Kalookan City	Recovered	Yes
395	Marikina	Recovered	No

396	Manila	Recovered	No
397	Manila	Recovered	Yes
398	Pasay City	Recovered	No
399	Quezon City	Recovered	Yes
400	Parañaque	Recovered	Yes
401	Makati City	Recovered	Yes
402	Taguig	Recovered	Yes
403	Cebu City	Recovered	Yes
404	Quezon City	Recovered	Yes
405	Cebu City	Recovered	Yes
406	Tanauan	Recovered	Yes
407	Makati City	Recovered	No
408	San Juan	Recovered	<NA>
409	Marikina	Recovered	Yes
410	Manila	Recovered	Yes
411	Quezon City	Recovered	Yes
412	Marikina	Recovered	Yes
413	Taytay	Recovered	Yes
414	Makati City	Recovered	Yes
415	Makati City	Recovered	Yes
416	San Juan	Recovered	Yes
417	Mandaluyong	Recovered	Yes
418	General Trias	Recovered	Yes
419	Tagudin	Recovered	Yes
420	Mandaluyong	Recovered	No
421	Asingan	Recovered	No
422	Manila	Recovered	Yes
423	Pasay City	Recovered	Yes
424	Makati City	Recovered	Yes
425	Quezon City	Recovered	Yes
426	Malabon	Recovered	No
427	Balanga City	Recovered	Yes
428	Quezon City	Recovered	Yes
429	Makati City	Recovered	Yes
430	San Pedro	Recovered	Yes
431	Manila	Recovered	Yes
432	Tanauan	Recovered	Yes
433	Mandaluyong	Recovered	<NA>
434	Mandaluyong	Recovered	Yes
435	Quezon City	Recovered	Yes
436	San Pedro	Recovered	Yes
437	Marikina	Recovered	Yes
438	Quezon City	Recovered	No

439	Bacoor	Recovered	Yes
440	Zamboanga City	Recovered	Yes
441	San Juan	Recovered	Yes
442	Nasugbu	Recovered	Yes
443	Makati City	Recovered	Yes
444	Quezon City	Recovered	No
445	Pasig City	Recovered	Yes
446	Cordoba	Recovered	Yes
447	Parañaque	Recovered	Yes
448	Makati City	Recovered	Yes
449	Lipa City	Recovered	Yes
450	Pasig City	Recovered	Yes
451	Antipolo City	Recovered	Yes
452	Muntinlupa	Recovered	No
453	Quezon City	Recovered	Yes
454	Manila	Recovered	Yes
455	Makati City	Recovered	Yes
456	Cebu City	Recovered	Yes
457	Las Piñas	Recovered	No
458	Quezon City	Recovered	Yes
459	Quezon City	Recovered	Yes
460	Las Piñas	Recovered	Yes
461	Pasay City	Recovered	Yes
462	San Juan	Recovered	No
463	Quezon City	Recovered	Yes
464	Cebu City	Recovered	No
465	Quezon City	Recovered	No
466	Concepcion	Recovered	No
467	Biñan	Recovered	<NA>
468	Pasig City	Recovered	Yes
469	Cebu City	Recovered	Yes
470	Manila	Recovered	No
471	Quezon City	Recovered	Yes
472	Quezon City	Recovered	No
473	Makati City	Recovered	No
474	Makati City	Recovered	Yes
475	Quezon City	Recovered	Yes
476	Parañaque	Recovered	Yes
477	Makati City	Recovered	Yes
478	Cainta	Recovered	<NA>
479	Manila	Recovered	Yes
480	Tuao	Recovered	Yes
481	Makati City	Recovered	No

482	Pasig City	Recovered	Yes
483	Pasay City	Recovered	Yes
484	Valenzuela	Recovered	No
485	Davao City	Recovered	Yes
486	Taguig	Recovered	Yes
487	Valenzuela	Recovered	<NA>
488	Taguig	Recovered	Yes
489	Batangas City	Recovered	No
490	Mandaluyong	Recovered	Yes
491	Quezon City	Recovered	Yes
492	Manila	Recovered	Yes
493	Lutayan	Recovered	Yes
494	Quezon City	Recovered	No
495	Quezon City	Recovered	Yes
496	Muntinlupa	Recovered	No
497	Quezon City	Recovered	Yes
498	Muntinlupa	Recovered	Yes
499	Mandaluyong	Recovered	Yes
500	Muntinlupa	Recovered	Yes
501	Tanza	Recovered	No
502	Davao City	Recovered	Yes
503	Parañaque	Recovered	Yes
504	Mati City	Recovered	Yes
505	Pasay City	Recovered	Yes
506	Pasay City	Recovered	No
507	Cainta	Recovered	No
508	Parañaque	Recovered	No
509	Mandaluyong	Recovered	No
510	Taguig	Recovered	No
511	Makati City	Recovered	Yes
512	Rodriguez	Recovered	No
513	Muntinlupa	Recovered	No
514	Quezon City	Recovered	Yes
515	Taguig	Recovered	Yes
516	Calamba	Recovered	No
517	Taguig	Recovered	Yes
518	Quezon City	Recovered	Yes
519	Mandaluyong	Recovered	Yes
520	Makati City	Recovered	<NA>
521	Parañaque	Recovered	No
522	Cabagan	Recovered	Yes
523	Quezon City	Recovered	No
524	Quezon City	Recovered	Yes

525	Quezon City	Recovered	No
526	Quezon City	Recovered	<NA>
527	Davao City	Recovered	Yes
528	Pasig City	Recovered	Yes
529	Quezon City	Recovered	Yes
530	Dagupan City	Recovered	Yes
531	Quezon City	Recovered	<NA>
532	Caba	Recovered	Yes
533	Alaminos	Recovered	Yes
534	Pateros	Recovered	Yes
535	Quezon City	Recovered	Yes
536	<NA>	Recovered	Yes
537	Mandaluyong	Recovered	<NA>
538	Parañaque	Recovered	Yes
539	San Juan	Recovered	Yes
540	Makati City	Recovered	Yes
541	Quezon City	Recovered	Yes
542	Pasig City	Recovered	Yes
543	Manila	Recovered	No
544	Dagupan City	Recovered	No
545	Parañaque	Recovered	Yes
546	<NA>	Recovered	<NA>
547	Solano	Recovered	Yes
548	Manila	Recovered	No
549	Santa Rosa	Recovered	Yes
550	Muntinlupa	Recovered	Yes
551	Quezon City	Recovered	No
552	Mandaluyong	Recovered	Yes
553	Quezon City	Recovered	No
554	Quezon City	Recovered	Yes
555	Manila	Recovered	No
556	Baras	Recovered	<NA>
557	Quezon City	Recovered	No
558	Kalookan City	Recovered	<NA>
559	Morong	Recovered	Yes
560	Santo Tomas	Recovered	Yes
561	Kalookan City	Recovered	<NA>
562	Torrijos	Recovered	Yes
563	Agoo	Recovered	Yes
564	Manila	Recovered	No
565	Cainta	Recovered	Yes
566	Parañaque	Recovered	Yes
567	Taguig	Recovered	Yes

568	Quezon City	Recovered	Yes
569	Parañaque	Recovered	Yes
570	Makati City	Recovered	Yes
571	San Jose del Monte City	Recovered	Yes
572	Taguig	Recovered	Yes
573	<NA>	Recovered	<NA>
574	Quezon City	Recovered	No
575	Quezon City	Recovered	Yes
576	Bacoor	Recovered	Yes
577	Quezon City	Recovered	Yes
578	Manila	Recovered	Yes
579	Kalookan City	Recovered	Yes
580	Bacoor	Recovered	Yes
581	Quezon City	Recovered	Yes
582	San Juan	Recovered	No
583	San Jose del Monte City	Recovered	No
584	Makati City	Recovered	Yes
585	Makati City	Recovered	No
586	Makati City	Recovered	<NA>
587	Naguilian	Recovered	Yes
588	Manila	Recovered	No
589	Makati City	Recovered	Yes
590	Pagadian City	Recovered	Yes
591	Manila	Recovered	No
592	Parañaque	Recovered	Yes
593	<NA>	Recovered	<NA>
594	San Juan	Recovered	<NA>
595	Davao City	Recovered	<NA>
596	Pasay City	Recovered	Yes
597	San Fernando	Recovered	Yes
598	Quezon City	Recovered	Yes
599	Pasay City	Recovered	Yes
600	Makati City	Recovered	Yes
601	Pateros	Recovered	Yes
602	Las Piñas	Recovered	Yes
603	Kalibo	Recovered	Yes
604	Manila	Recovered	Yes
605	Makati City	Recovered	Yes
606	Manila	Recovered	Yes
607	Quezon City	Recovered	Yes
608	Taguig	Recovered	Yes
609	Tanza	Recovered	<NA>
610	Malabon	Recovered	Yes



611	Valenzuela	Recovered	Yes
612	Quezon City	Recovered	No
613	Manila	Recovered	Yes
614	Manila	Recovered	Yes
615	Quezon City	Recovered	Yes
616	Bacoor	Recovered	Yes
617	Parañaque	Recovered	Yes
618	Quezon City	Recovered	Yes
619	Cainta	Recovered	Yes
620	Quezon City	Recovered	<NA>
621	Makati City	Recovered	Yes
622	Valenzuela	Recovered	No
623	San Jose del Monte City	Recovered	Yes
624	Taguig	Recovered	<NA>
625	Parañaque	Recovered	Yes
626	Pasay City	Recovered	Yes
627	<NA>	Recovered	No
628	Pasay City	Recovered	No
629	Manila	Recovered	<NA>
630	Kalookan City	Recovered	Yes
631	<NA>	Recovered	Yes
632	Makati City	Recovered	Yes
633	Makati City	Recovered	Yes
634	Muntinlupa	Recovered	Yes
635	Marikina	Recovered	<NA>
636	Mandaluyong	Recovered	No
637	Quezon City	Recovered	Yes
638	Mandaluyong	Recovered	Yes
639	Quezon City	Recovered	Yes
640	Parañaque	Recovered	<NA>
641	Manila	Recovered	<NA>
642	Manila	Recovered	Yes
643	Manila	Recovered	Yes
644	Manila	Recovered	Yes
645	Manila	Recovered	Yes
646	Manila	Recovered	Yes
647	Alitagtag	Recovered	Yes
648	Navotas	Recovered	<NA>
649	Bacoor	Recovered	Yes
650	Lambunao	Recovered	Yes
651	Manila	Recovered	Yes
652	Lambunao	Recovered	Yes
653	Lambunao	Recovered	Yes

654	Manila	Recovered	Yes
655	Navotas	Recovered	No
656	Guimbal	Recovered	Yes
657	Pasig City	Recovered	Yes
658	Manila	Recovered	Yes
659	Manila	Recovered	Yes
660	Davao City	Recovered	Yes
661	Davao City	Recovered	No
662	Quezon City	Recovered	Yes
663	<NA>	Recovered	No
664	Manila	Recovered	Yes
665	Kalookan City	Recovered	Yes
666	Quezon City	Recovered	Yes
667	Davao City	Recovered	Yes
668	San Juan	Recovered	Yes
669	Mandaluyong	Recovered	Yes
670	Mandaluyong	Recovered	No
671	Cainta	Recovered	Yes
672	Pasig City	Recovered	No
673	Quezon City	Recovered	No
674	<NA>	Recovered	Yes
675	Davao City	Recovered	No
676	Parañaque	Recovered	Yes
677	Manila	Recovered	<NA>
678	Lipa City	Recovered	No
679	Parañaque	Recovered	Yes
680	Davao City	Recovered	No
681	Mandaluyong	Recovered	Yes
682	Manila	Recovered	Yes
683	Marawi City	Recovered	No
684	Mandaluyong	Recovered	Yes
685	Mandaluyong	Recovered	<NA>
686	Pasig City	Recovered	Yes
687	Marikina	Recovered	Yes
688	Muntinlupa	Recovered	Yes
689	Manila	Recovered	Yes
690	Parañaque	Recovered	<NA>
691	Quezon City	Recovered	No
692	Pasig City	Recovered	Yes
693	Manila	Recovered	Yes
694	Zamboanga City	Recovered	Yes
695	Quezon City	Recovered	Yes
696	Valenzuela	Recovered	<NA>

697	Pateros	Recovered	Yes
698	Quezon City	Recovered	No
699	Manila	Recovered	Yes
700	Castillejos	Recovered	No
701	Marikina	Recovered	Yes
702	Baliuag	Recovered	Yes
703	Bauan	Recovered	Yes
704	Lucena City	Recovered	Yes
705	Pasig City	Recovered	No
706	Quezon City	Recovered	Yes
707	Cainta	Recovered	Yes
708	Manila	Recovered	Yes
709	Manila	Recovered	Yes
710	Tayabas City	Recovered	Yes
711	Marikina	Recovered	Yes
712	Manila	Recovered	Yes
713	Taguig	Recovered	Yes
714	Quezon City	Recovered	Yes
715	Quezon City	Recovered	Yes
716	Muntinlupa	Recovered	Yes
717	Olongapo City	Recovered	No
718	Taguig	Recovered	Yes
719	Bokod	Recovered	No
720	Quezon City	Recovered	No
721	Quezon City	Recovered	Yes
722	Marikina	Recovered	<NA>
723	Mandaluyong	Recovered	Yes
724	Quezon City	Recovered	No
725	Parañaque	Recovered	Yes
726	San Pedro	Recovered	Yes
727	Taguig	Recovered	No
728	Quezon City	Recovered	Yes
729	Parañaque	Recovered	Yes
730	Baguio City	Recovered	Yes
731	Las Piñas	Recovered	Yes
732	Cabuyao	Recovered	No
733	Muntinlupa	Recovered	Yes
734	Cebu City	Recovered	Yes
735	Parañaque	Recovered	No
736	Lipa City	Recovered	Yes
737	Kalookan City	Recovered	Yes
738	Imus	Recovered	Yes
739	Muntinlupa	Recovered	No

740	Valenzuela	Recovered	Yes
741	Makati City	Recovered	Yes
742	Quezon City	Recovered	Yes
743	Mandaluyong	Recovered	Yes
744	Antipolo City	Recovered	Yes
745	Tanauan	Recovered	Yes
746	Lapu-Lapu City	Recovered	No
747	Parañaque	Recovered	Yes
748	Pasig City	Recovered	Yes
749	Valenzuela	Recovered	<NA>
750	Nasugbu	Recovered	Yes
751	Cainta	Recovered	Yes
752	Valenzuela	Recovered	Yes
753	Mandaluyong	Recovered	No
754	Las Piñas	Recovered	Yes
755	Manila	Recovered	Yes
756	Taytay	Recovered	Yes
757	Santa Maria	Recovered	Yes
758	Manila	Recovered	Yes
759	Marikina	Recovered	Yes
760	Taguig	Recovered	Yes
761	Bacoor	Recovered	Yes
762	Mariveles	Recovered	No
763	Nagcarlan	Recovered	Yes
764	Quezon City	Recovered	No
765	Kalookan City	Recovered	No
766	Rodriguez	Recovered	No
767	Taguig	Recovered	Yes
768	Malabon	Recovered	Yes
769	Taguig	Recovered	Yes
770	Pasig City	Recovered	Yes
771	La Trinidad	Recovered	No
772	Manila	Recovered	Yes
773	Tarangnan	Recovered	Yes
774	Parañaque	Recovered	Yes
775	Kidapawan City	Recovered	Yes
776	Mahinog	Recovered	Yes
777	Quezon City	Recovered	No
778	Tanauan	Recovered	<NA>
779	Parañaque	Recovered	Yes
780	Davao City	Recovered	Yes
781	Parañaque	Recovered	Yes
782	Cotabato City	Recovered	Yes

783	Quezon City	Recovered	No
784	Tarangnan	Recovered	Yes
785	Makati City	Recovered	Yes
786	Manila	Recovered	Yes
787	Valenzuela	Recovered	Yes
788	Kalookan City	Recovered	No
789	Batangas City	Recovered	Yes
790	Quezon City	Recovered	No
791	Mandaluyong	Recovered	Yes
792	Davao City	Recovered	No
793	Quezon City	Recovered	Yes
794	Bacoor	Recovered	No
795	Cavinti	Recovered	Yes
796	Guiguinto	Recovered	Yes
797	Baguio City	Recovered	No
798	Parañaque	Recovered	No
799	Kalookan City	Recovered	No
800	Parañaque	Recovered	Yes
801	Las Piñas	Recovered	Yes
802	Las Piñas	Recovered	Yes
803	Manila	Recovered	No
804	Muntinlupa	Recovered	<NA>
805	Quezon City	Recovered	Yes
806	Quezon City	Recovered	No
807	Manila	Recovered	Yes
808	Quezon City	Recovered	Yes
809	Manila	Recovered	No
810	Quezon City	Recovered	<NA>
811	Baliuag	Recovered	<NA>
812	Quezon City	Recovered	Yes
813	Valenzuela	Recovered	Yes
814	Bulacan	Recovered	Yes
815	Quezon City	Recovered	Yes
816	Santiago	Recovered	Yes
817	Manila	Recovered	Yes
818	Valenzuela	Recovered	<NA>
819	Quezon City	Recovered	<NA>
820	San Juan	Recovered	Yes
821	Quezon City	Recovered	<NA>
822	Manila	Recovered	<NA>
823	Manila	Recovered	<NA>
824	Antipolo City	Recovered	No
825	Marikina	Recovered	Yes

826	Mandaluyong	Recovered	Yes
827	Antipolo City	Recovered	Yes
828	Pasig City	Recovered	Yes
829	Pila	Recovered	Yes
830	Barotac Nuevo	Recovered	No
831	Mandaluyong	Recovered	Yes
832	Quezon City	Recovered	Yes
833	Makati City	Recovered	Yes
834	Pavia	Recovered	Yes
835	Quezon City	Recovered	<NA>
836	Baliuag	Recovered	<NA>
837	San Fernando	Recovered	Yes
838	Quezon City	Recovered	<NA>
839	Quezon City	Recovered	Yes
840	Malabon	Recovered	No
841	Las Piñas	Recovered	Yes
842	Valenzuela	Recovered	Yes
843	Manila	Recovered	Yes
844	Pasig City	Recovered	No
845	San Fernando	Recovered	Yes
846	San Pedro	Recovered	Yes
847	Las Piñas	Recovered	Yes
848	Quezon City	Recovered	Yes
849	Marikina	Recovered	Yes
850	Parañaque	Recovered	Yes
851	Baguio City	Recovered	No
852	Manila	Recovered	Yes
853	Makati City	Recovered	Yes
854	San Mateo	Recovered	<NA>
855	Makati City	Recovered	Yes
856	Quezon City	Recovered	Yes
857	General Mariano Alvarez	Recovered	Yes
858	Angeles City	Recovered	Yes
859	Parañaque	Recovered	Yes
860	Quezon City	Recovered	Yes
861	Quezon City	Recovered	Yes
862	San Agustin	Recovered	Yes
863	Angeles City	Recovered	Yes
864	Balanga City	Recovered	<NA>
865	Angeles City	Recovered	Yes
866	Paombong	Recovered	No
867	Pasay City	Recovered	No
868	Cainta	Recovered	Yes

869	Quezon City	Recovered	<NA>
870	Parañaque	Recovered	Yes
871	Muntinlupa	Recovered	Yes
872	Manila	Recovered	Yes
873	Angono	Recovered	<NA>
874	Quezon City	Recovered	Yes
875	Las Piñas	Recovered	Yes
876	Quezon City	Recovered	<NA>
877	Parañaque	Recovered	Yes
878	Mandaluyong	Recovered	Yes
879	Cebu City	Recovered	<NA>
880	Capas	Recovered	Yes
881	Parañaque	Recovered	No
882	Santa Cruz	Recovered	Yes
883	Valenzuela	Recovered	Yes
884	Parañaque	Recovered	Yes
885	Marikina	Recovered	Yes
886	Lumban	Recovered	Yes
887	Santo Tomas	Recovered	Yes
888	Taguig	Recovered	Yes
889	Quezon City	Recovered	Yes
890	Liliw	Recovered	Yes
891	Parañaque	Recovered	No
892	Manila	Recovered	Yes
893	Manila	Recovered	Yes
894	Makati City	Recovered	No
895	Quezon City	Recovered	Yes
896	Quezon City	Recovered	<NA>
897	Pagsanjan	Recovered	Yes
898	Calamba	Recovered	Yes
899	Parañaque	Recovered	No
900	Cabanatuan City	Recovered	<NA>
901	San Juan	Recovered	No
902	Manila	Recovered	Yes
903	Parañaque	Recovered	Yes
904	Balanga City	Recovered	<NA>
905	Parañaque	Recovered	Yes
906	Las Piñas	Recovered	Yes
907	Balanga City	Recovered	Yes
908	Los Baños	Recovered	Yes
909	Muntinlupa	Recovered	Yes
910	Taguig	Recovered	Yes
911	Kalookan City	Recovered	Yes

912	Cauayan	Recovered	Yes
913	Balanga City	Recovered	<NA>
914	Parañaque	Recovered	Yes
915	Rosario	Recovered	Yes
916	Manila	Recovered	Yes
917	Quezon City	Recovered	Yes
918	Parañaque	Recovered	Yes
919	Hermosa	Recovered	No
920	Zaragoza	Recovered	<NA>
921	Manila	Recovered	No
922	Las Piñas	Recovered	Yes
923	Pasig City	Recovered	Yes
924	Bacoor	Recovered	Yes
925	Makati City	Recovered	Yes
926	Quezon City	Recovered	Yes
927	Pasay City	Recovered	Yes
928	Las Piñas	Recovered	Yes
929	Parañaque	Recovered	Yes
930	Orion	Recovered	Yes
931	Manila	Recovered	<NA>
932	<NA>	Recovered	Yes
933	Tabaco City	Recovered	Yes
934	Pasig City	Recovered	Yes
935	Las Piñas	Recovered	Yes
936	Quezon City	Recovered	Yes
937	Pasig City	Recovered	<NA>
938	Quezon City	Recovered	<NA>
939	Tabaco City	Recovered	Yes
940	Santa Cruz	Recovered	Yes
941	Makati City	Recovered	<NA>
942	Lucena City	Recovered	No
943	Las Piñas	Recovered	Yes
944	San Jose del Monte City	Recovered	Yes
945	Davao City	Recovered	Yes
946	Quezon City	Recovered	<NA>
947	Makati City	Recovered	Yes
948	Liliw	Recovered	Yes
949	General Mariano Alvarez	Recovered	Yes
950	Mandaluyong	Recovered	Yes
951	Imus	Recovered	Yes
952	Las Piñas	Recovered	<NA>
953	Tayabas City	Recovered	Yes
954	<NA>	Recovered	Yes



955	Pasig City	Recovered	Yes
956	Las Piñas	Recovered	Yes
957	Manila	Recovered	Yes
958	Parañaque	Recovered	Yes
959	<NA>	Recovered	Yes
960	Pasay City	Recovered	<NA>
961	Pasay City	Recovered	Yes
962	Manila	Recovered	<NA>
963	Makati City	Recovered	Yes
964	Makati City	Recovered	Yes
965	Quezon City	Recovered	<NA>
966	Manila	Recovered	No
967	Manila	Recovered	No
968	Davao City	Recovered	No
969	Mandaluyong	Recovered	<NA>
970	Kalookan City	Recovered	<NA>
971	Cebu City	Recovered	<NA>
972	Mandaluyong	Recovered	Yes
973	Muntinlupa	Recovered	Yes
974	Cebu City	Recovered	<NA>
975	Quezon City	Recovered	Yes
976	Makati City	Recovered	Yes
977	Makati City	Recovered	<NA>
978	Taguig	Recovered	Yes
979	Orani	Recovered	Yes
980	Quezon City	Recovered	<NA>
981	Cebu City	Recovered	<NA>
982	Muntinlupa	Recovered	Yes
983	Quezon City	Recovered	No
984	Manila	Recovered	No
985	Kalookan City	Recovered	No
986	Manila	Recovered	Yes
987	Balanga City	Recovered	Yes
988	Parañaque	Recovered	Yes
989	Manila	Recovered	No
990	Balanga City	Recovered	<NA>
991	<NA>	Recovered	<NA>
992	Muntinlupa	Recovered	Yes
993	Orion	Recovered	<NA>
994	Bacoar	Recovered	Yes
995	Balanga City	Recovered	<NA>
996	Manila	Recovered	Yes
997	Davao City	Recovered	No

998	Calamba	Recovered	Yes
999	Orion	Recovered	<NA>
1000	Makati City	Recovered	Yes
1001	Balanga City	Recovered	Yes
1002	Orion	Recovered	Yes
1003	Pasig City	Recovered	Yes
1004	Orani	Recovered	Yes
1005	Muntinlupa	Recovered	Yes
1006	Binangonan	Recovered	Yes
1007	San Pedro	Recovered	Yes
1008	Orani	Recovered	<NA>
1009	Manila	Recovered	Yes
1010	Balanga City	Recovered	<NA>
1011	Quezon City	Recovered	No
1012	Samal	Recovered	Yes
1013	Balanga City	Recovered	<NA>
1014	Muntinlupa	Recovered	Yes
1015	Olongapo City	Recovered	<NA>
1016	Las Piñas	Recovered	Yes
1017	Manila	Recovered	Yes
1018	Manila	Recovered	No
1019	Balanga City	Recovered	<NA>
1020	Taguig	Recovered	Yes
1021	Biñan	Recovered	Yes
1022	Quezon City	Recovered	<NA>
1023	Quezon City	Recovered	Yes
1024	Muntinlupa	Recovered	Yes
1025	Pilar	Recovered	<NA>
1026	Quezon City	Recovered	Yes
1027	Balanga City	Recovered	<NA>
1028	Manila	Recovered	Yes
1029	Balanga City	Recovered	<NA>
1030	Quezon City	Recovered	Yes
1031	Lapu-Lapu City	Recovered	<NA>
1032	Lapu-Lapu City	Recovered	<NA>
1033	Quezon City	Recovered	Yes
1034	Muntinlupa	Recovered	Yes
1035	San Juan	Recovered	Yes
1036	Samal	Recovered	<NA>
1037	Manila	Recovered	Yes
1038	Mandaluyong	Recovered	Yes
1039	Sasmuan	Recovered	<NA>
1040	Manila	Recovered	Yes

1041	Balanga City	Recovered	<NA>
1042	Quezon City	Recovered	Yes
1043	Mandaluyong	Recovered	No
1044	Lapu-Lapu City	Recovered	<NA>
1045	Taytay	Recovered	Yes
1046	Bacoor	Recovered	<NA>
1047	Quezon City	Recovered	Yes
1048	Manila	Recovered	No
1049	Manila	Recovered	Yes
1050	Davao City	Recovered	No
1051	Manila	Recovered	<NA>
1052	Manila	Recovered	Yes
1053	Iloilo City	Recovered	Yes
1054	Bacoor	Recovered	Yes
1055	Dasmariñas	Recovered	<NA>
1056	Santa Rosa	Recovered	Yes
1057	Davao City	Recovered	No
1058	Manila	Recovered	Yes
1059	Muntinlupa	Recovered	Yes
1060	Parañaque	Recovered	Yes
1061	Calamba	Recovered	Yes
1062	Makati City	Recovered	No
1063	Muntinlupa	Recovered	Yes
1064	Taguig	Recovered	Yes
1065	Mandaluyong	Recovered	Yes
1066	Muntinlupa	Recovered	Yes
1067	Valenzuela	Recovered	Yes
1068	Muntinlupa	Recovered	Yes
1069	Biñan	Recovered	Yes
1070	Cebu City	Recovered	<NA>
1071	Davao City	Recovered	No
1072	Mandaluyong	Recovered	Yes
1073	Quezon City	Recovered	<NA>
1074	Manila	Recovered	No
1075	Davao City	Recovered	No
1076	Mandaluyong	Recovered	No
1077	Parañaque	Recovered	<NA>
1078	La Trinidad	Recovered	No
1079	Parañaque	Recovered	<NA>
1080	Valenzuela	Recovered	Yes
1081	Taytay	Recovered	No
1082	Kalookan City	Recovered	Yes
1083	Davao City	Recovered	No

1084	Lapu-Lapu City	Recovered	<NA>
1085	Pasay City	Recovered	Yes
1086	Muntinlupa	Recovered	Yes
1087	Makati City	Recovered	Yes
1088	Baguio City	Recovered	Yes
1089	Lapu-Lapu City	Recovered	<NA>
1090	Lapu-Lapu City	Recovered	<NA>
1091	Manila	Recovered	<NA>
1092	Baguio City	Recovered	Yes
1093	Pasay City	Recovered	Yes
1094	Baguio City	Recovered	No
1095	Torrijos	Recovered	<NA>
1096	Baguio City	Recovered	Yes
1097	Pasay City	Recovered	Yes
1098	Baguio City	Recovered	Yes
1099	Pateros	Recovered	Yes
1100	Baguio City	Recovered	Yes
1101	Manila	Recovered	Yes
1102	Calapan City	Recovered	<NA>
1103	Bacolod City	Recovered	Yes
1104	La Trinidad	Recovered	Yes
1105	Baguio City	Recovered	Yes
1106	Meycauayan City	Recovered	Yes
1107	Lapu-Lapu City	Recovered	<NA>
1108	Baguio City	Recovered	No
1109	Cainta	Recovered	Yes
1110	Lapu-Lapu City	Recovered	<NA>
1111	Las Piñas	Recovered	Yes
1112	Davao City	Recovered	<NA>
1113	Pasay City	Recovered	Yes
1114	Parañaque	Recovered	Yes
1115	Muntinlupa	Recovered	Yes
1116	Manila	Recovered	Yes
1117	San Juan	Recovered	<NA>
1118	Manila	Recovered	Yes
1119	Quezon City	Recovered	<NA>
1120	Mandaluyong	Recovered	No
1121	Manila	Recovered	Yes
1122	Cebu City	Recovered	<NA>
1123	Iloilo City	Recovered	<NA>
1124	Davao City	Recovered	<NA>
1125	Davao City	Recovered	<NA>
1126	Las Piñas	Recovered	Yes

1127	Marikina	Recovered	<NA>
1128	Quezon City	Recovered	Yes
1129	Calapan City	Recovered	<NA>
1130	Las Piñas	Recovered	<NA>
1131	San Juan	Recovered	<NA>
	date_of_onset_of_symptoms	pregnant	
1	2020-01-21	<NA>	
2	2020-01-21	<NA>	
3	2020-03-02	<NA>	
4	2020-03-04	<NA>	
5	2020-03-03	No	
6	2020-03-07	No	
7	2020-03-04	<NA>	
8	2020-03-01	<NA>	
9	2020-03-05	<NA>	
10	2020-02-19	<NA>	
11	2020-02-29	No	
12	2020-03-01	No	
13	2020-03-10	No	
14	2020-03-02	No	
15	2020-03-05	No	
16	2020-03-06	No	
17	2020-03-03	No	
18	<NA>	<NA>	
19	2020-03-04	No	
20	2020-03-09	No	
21	2020-03-09	No	
22	2020-03-06	<NA>	
23	2020-03-07	<NA>	
24	2020-03-11	No	
25	2020-03-10	<NA>	
26	2020-02-25	No	
27	2020-03-10	<NA>	
28	2020-03-04	<NA>	
29	2020-03-10	<NA>	
30	2020-03-08	<NA>	
31	2020-03-06	No	
32	2020-03-03	No	
33	2020-03-10	<NA>	
34	2020-03-07	<NA>	
35	2020-03-10	No	
36	2020-03-09	No	
37	2020-03-16	<NA>	

38	2020-03-01	<NA>
39	2020-03-11	No
40	2020-03-03	No
41	2020-03-07	No
42	2020-03-08	No
43	2020-03-03	<NA>
44	2020-03-11	<NA>
45	2020-03-09	No
46	2020-03-06	<NA>
47	2020-03-10	<NA>
48	2020-03-06	No
49	2020-03-11	<NA>
50	2020-03-06	No
51	2020-03-11	<NA>
52	2020-03-05	No
53	2020-03-04	No
54	2020-03-06	<NA>
55	2020-03-11	<NA>
56	2020-03-13	<NA>
57	2020-03-12	<NA>
58	2020-03-07	No
59	2020-03-07	<NA>
60	2020-03-11	<NA>
61	2020-03-08	No
62	2020-03-10	No
63	2020-03-03	No
64	2020-03-13	No
65	2020-03-14	<NA>
66	2020-02-29	<NA>
67	2020-03-13	No
68	2020-03-13	No
69	2020-03-15	<NA>
70	<NA>	<NA>
71	2020-03-08	<NA>
72	2020-03-20	<NA>
73	2020-03-07	<NA>
74	2020-03-12	No
75	2020-03-11	<NA>
76	2020-03-10	<NA>
77	2020-03-06	<NA>
78	2020-03-02	No
79	2020-03-06	<NA>
80	2020-03-07	No

81	<NA>	<NA>
82	2020-03-17	<NA>
83	2020-03-03	No
84	2020-03-04	<NA>
85	2020-03-12	<NA>
86	2020-03-15	No
87	2020-03-09	<NA>
88	2020-03-20	No
89	2020-03-10	<NA>
90	2020-03-09	No
91	2020-03-17	Yes
92	<NA>	<NA>
93	2020-03-11	No
94	2020-03-07	<NA>
95	2020-03-12	<NA>
96	2020-03-11	<NA>
97	2020-03-01	No
98	<NA>	<NA>
99	2020-03-10	<NA>
100	2020-03-01	<NA>
101	2020-03-01	No
102	2020-03-13	<NA>
103	2020-03-12	<NA>
104	2020-03-08	No
105	2020-03-14	No
106	2020-03-13	<NA>
107	2020-03-12	No
108	2020-03-06	No
109	2020-03-09	No
110	2020-03-11	<NA>
111	2020-03-17	<NA>
112	2020-03-13	<NA>
113	2020-03-11	<NA>
114	2020-03-15	No
115	2020-03-15	<NA>
116	2020-03-13	No
117	2020-03-15	No
118	2020-03-13	<NA>
119	2020-03-13	<NA>
120	2020-03-14	No
121	2020-03-11	No
122	2020-03-01	<NA>
123	2020-03-17	<NA>

124	2020-03-14	No
125	2020-03-09	<NA>
126	2020-03-12	<NA>
127	2020-03-14	No
128	2020-03-14	No
129	2020-03-08	<NA>
130	2020-03-12	No
131	2020-03-18	No
132	2020-03-07	No
133	2020-03-11	No
134	2020-03-06	No
135	2020-03-13	<NA>
136	2020-03-17	No
137	2020-03-07	No
138	2020-03-15	No
139	2020-03-15	<NA>
140	2020-03-05	<NA>
141	2020-02-27	No
142	<NA>	No
143	2020-03-07	<NA>
144	2020-03-13	<NA>
145	2020-03-08	No
146	<NA>	<NA>
147	2020-03-12	No
148	2020-03-15	No
149	2020-03-13	No
150	2020-03-12	No
151	2020-03-15	<NA>
152	2020-03-15	<NA>
153	2020-03-06	<NA>
154	2020-03-10	No
155	2020-03-18	<NA>
156	2020-03-01	<NA>
157	<NA>	<NA>
158	<NA>	<NA>
159	2020-03-12	<NA>
160	<NA>	No
161	2020-03-08	No
162	2020-03-17	<NA>
163	2020-02-29	<NA>
164	2020-03-07	No
165	2020-03-08	No
166	2020-03-16	No



167	<NA>	<NA>
168	2020-03-16	No
169	2020-03-15	No
170	2020-03-14	<NA>
171	2020-03-18	No
172	2020-03-12	No
173	2020-03-17	<NA>
174	2020-03-08	<NA>
175	2020-01-16	No
176	2020-03-06	No
177	2020-03-12	<NA>
178	2020-03-13	<NA>
179	2020-03-02	<NA>
180	2020-03-19	<NA>
181	2020-03-15	<NA>
182	2020-03-18	<NA>
183	2020-03-13	<NA>
184	2020-03-17	<NA>
185	2020-03-20	No
186	2020-03-09	No
187	2020-03-07	No
188	2020-03-17	No
189	2020-03-16	No
190	2020-03-04	No
191	2020-03-14	<NA>
192	2020-03-14	No
193	2020-03-10	Yes
194	<NA>	<NA>
195	2020-03-03	No
196	2020-02-28	No
197	2020-03-13	<NA>
198	2020-03-18	No
199	2020-03-14	<NA>
200	2020-03-16	<NA>
201	2020-03-14	<NA>
202	2020-03-10	<NA>
203	2020-03-19	No
204	2020-03-11	<NA>
205	2020-03-03	No
206	2020-03-02	No
207	2020-03-12	No
208	2020-03-01	<NA>
209	2020-03-14	<NA>

210	2020-03-12	No
211	2020-03-13	No
212	2020-03-20	No
213	2020-03-13	No
214	2020-03-15	<NA>
215	2020-03-19	No
216	2020-03-21	No
217	2020-03-22	<NA>
218	2020-03-19	<NA>
219	2020-03-14	No
220	2020-03-20	<NA>
221	2020-03-10	<NA>
222	2020-03-15	No
223	2020-03-13	<NA>
224	2020-03-21	<NA>
225	2020-03-17	<NA>
226	2020-03-11	No
227	2020-03-18	<NA>
228	2020-03-23	No
229	2020-03-17	<NA>
230	<NA>	<NA>
231	2020-03-13	<NA>
232	2020-03-13	<NA>
233	2020-03-14	<NA>
234	2020-03-10	<NA>
235	2020-03-21	No
236	2020-03-20	<NA>
237	2020-03-12	No
238	2020-03-13	<NA>
239	2020-03-15	No
240	2020-03-09	No
241	2020-03-07	<NA>
242	2020-03-09	<NA>
243	2020-03-14	No
244	<NA>	<NA>
245	2020-03-21	No
246	2020-03-19	No
247	2020-03-09	No
248	2020-03-17	No
249	2020-03-15	No
250	2020-03-12	<NA>
251	2020-03-20	No
252	2020-03-20	No

253	2020-03-20	<NA>
254	2020-03-18	<NA>
255	2020-03-17	<NA>
256	2020-03-20	No
257	2020-03-13	<NA>
258	2020-03-04	No
259	2020-03-31	No
260	2020-03-13	<NA>
261	2020-03-14	No
262	2020-03-10	No
263	2020-03-18	No
264	2020-03-18	No
265	2020-03-09	<NA>
266	2020-03-23	No
267	2020-03-13	<NA>
268	2020-03-14	No
269	2020-03-18	Yes
270	2020-03-21	<NA>
271	2020-03-14	<NA>
272	2020-03-18	No
273	2020-03-14	No
274	2020-03-11	<NA>
275	2020-03-17	<NA>
276	2020-03-07	<NA>
277	2020-03-19	No
278	2020-03-16	<NA>
279	2020-03-17	<NA>
280	2020-03-21	No
281	2020-03-23	No
282	<NA>	<NA>
283	2020-03-11	<NA>
284	2020-03-15	<NA>
285	2020-03-07	<NA>
286	2020-03-15	<NA>
287	2020-03-11	No
288	2020-03-12	No
289	2020-03-19	<NA>
290	2020-03-21	No
291	2020-03-18	<NA>
292	2020-03-18	<NA>
293	2020-03-15	No
294	2020-03-23	<NA>
295	2020-03-16	<NA>

296	2020-03-20	No
297	2020-03-12	No
298	2020-03-13	No
299	2020-03-19	<NA>
300	2020-03-08	<NA>
301	2020-03-23	<NA>
302	2020-03-13	No
303	2020-03-18	No
304	2020-03-18	No
305	2020-03-16	No
306	2020-03-14	No
307	2020-03-11	No
308	2020-03-10	No
309	2020-03-18	No
310	2020-03-19	No
311	2020-03-12	No
312	2020-03-24	No
313	2020-03-14	<NA>
314	2020-03-15	<NA>
315	2020-03-11	<NA>
316	2020-03-15	No
317	2020-03-21	<NA>
318	2020-03-13	<NA>
319	2020-03-13	No
320	2020-03-13	No
321	2020-03-13	No
322	2020-03-15	No
323	2020-03-14	<NA>
324	2020-03-08	No
325	2020-03-15	<NA>
326	2020-03-10	<NA>
327	2020-03-16	<NA>
328	2020-03-22	<NA>
329	<NA>	<NA>
330	2020-03-12	No
331	2020-03-16	<NA>
332	2020-03-27	No
333	2020-03-24	No
334	2020-03-16	No
335	2020-02-20	<NA>
336	2020-03-03	No
337	2020-03-20	<NA>
338	2020-03-20	<NA>

339	2020-03-16	No
340	2020-03-15	No
341	2020-03-15	<NA>
342	2020-03-08	<NA>
343	2020-03-21	<NA>
344	<NA>	<NA>
345	2020-03-21	No
346	2020-03-15	<NA>
347	2020-03-14	No
348	2020-03-14	<NA>
349	2020-03-09	No
350	2020-03-08	No
351	2020-03-19	No
352	2020-03-18	No
353	2020-03-16	<NA>
354	2020-03-09	<NA>
355	2020-03-21	<NA>
356	2020-03-15	<NA>
357	2020-03-07	<NA>
358	2020-03-14	<NA>
359	2020-03-10	<NA>
360	2020-03-16	<NA>
361	2020-03-11	<NA>
362	2020-03-12	<NA>
363	2020-03-19	No
364	2020-03-09	No
365	2020-03-15	No
366	2020-03-09	No
367	2020-03-21	No
368	<NA>	<NA>
369	2020-03-15	No
370	2020-03-15	<NA>
371	2020-03-21	No
372	2020-03-16	No
373	2020-03-13	<NA>
374	2020-03-22	No
375	2020-03-25	No
376	2020-03-19	No
377	2020-03-23	No
378	2020-03-16	No
379	2020-03-21	No
380	2020-03-13	<NA>
381	2020-03-24	<NA>

382	2020-03-15	<NA>
383	2020-03-20	No
384	2020-03-20	No
385	2020-03-18	<NA>
386	2020-03-11	No
387	2020-03-23	No
388	2020-03-21	No
389	2020-03-23	<NA>
390	2020-03-13	No
391	2020-03-16	No
392	2020-03-10	No
393	2020-03-16	No
394	2020-03-25	<NA>
395	2020-03-14	No
396	2020-03-20	Yes
397	2020-03-19	No
398	2020-03-24	No
399	2020-03-23	No
400	2020-03-16	No
401	2020-03-26	No
402	2020-03-26	No
403	2020-03-03	<NA>
404	2020-03-19	No
405	2020-03-24	<NA>
406	2020-03-25	<NA>
407	2020-03-16	No
408	<NA>	<NA>
409	2020-03-19	No
410	2020-03-18	<NA>
411	2020-03-17	No
412	<NA>	<NA>
413	2020-03-08	No
414	2020-03-25	No
415	2020-03-12	No
416	2020-03-20	<NA>
417	2020-03-15	<NA>
418	2020-03-19	<NA>
419	2020-03-15	<NA>
420	2020-03-13	No
421	2020-03-11	<NA>
422	2020-03-24	<NA>
423	2020-03-19	<NA>
424	2020-03-15	<NA>

425	2020-03-17	<NA>
426	2020-03-10	No
427	2020-03-10	<NA>
428	2020-03-17	<NA>
429	2020-03-25	<NA>
430	2020-03-14	No
431	2020-03-15	No
432	2020-03-18	<NA>
433	2020-03-17	<NA>
434	2020-03-17	No
435	<NA>	No
436	2020-03-17	No
437	2020-03-20	No
438	<NA>	<NA>
439	2020-03-14	No
440	2020-03-15	No
441	2020-03-17	<NA>
442	2020-03-15	No
443	2020-03-13	No
444	2020-03-08	<NA>
445	<NA>	No
446	2020-03-12	<NA>
447	2020-03-04	No
448	2020-03-19	No
449	2020-03-20	<NA>
450	2020-03-14	No
451	2020-03-15	<NA>
452	2020-03-11	No
453	2020-03-18	No
454	2020-03-25	Yes
455	2020-03-14	No
456	2020-03-17	<NA>
457	2020-03-16	<NA>
458	2020-03-20	<NA>
459	2020-03-09	No
460	2020-03-17	<NA>
461	2020-03-11	No
462	2020-03-16	No
463	2020-03-23	No
464	2020-03-08	<NA>
465	2020-03-11	No
466	2020-04-03	No
467	2020-03-25	No

468	2020-03-13	No
469	2020-03-12	<NA>
470	2020-03-17	<NA>
471	2020-03-20	No
472	2020-03-24	No
473	2020-03-14	No
474	2020-03-10	<NA>
475	2020-03-15	No
476	2020-03-14	<NA>
477	2020-03-25	No
478	2020-03-11	No
479	2020-03-17	No
480	2020-03-23	No
481	2020-03-11	No
482	2020-03-18	No
483	2020-03-10	No
484	<NA>	No
485	2020-03-24	<NA>
486	2020-03-17	No
487	2020-03-25	No
488	2020-03-25	No
489	2020-03-27	No
490	2020-03-22	No
491	2020-03-17	No
492	2020-03-21	<NA>
493	2020-03-15	<NA>
494	<NA>	No
495	2020-03-21	No
496	2020-03-21	No
497	2020-03-26	No
498	2020-03-16	No
499	2020-03-21	No
500	2020-03-24	No
501	2020-03-16	No
502	2020-03-23	<NA>
503	2020-03-18	No
504	2020-03-18	<NA>
505	2020-03-30	No
506	2020-03-20	No
507	2020-03-17	No
508	2020-03-23	No
509	2020-03-21	No
510	2020-03-18	No



511	2020-03-07	No
512	2020-03-23	<NA>
513	2020-03-18	No
514	2020-03-15	<NA>
515	2020-03-12	No
516	2020-03-18	No
517	2020-03-18	<NA>
518	2020-03-24	No
519	2020-03-21	No
520	2020-03-22	No
521	<NA>	<NA>
522	2020-03-25	No
523	2020-03-19	<NA>
524	2020-03-24	<NA>
525	2020-04-23	No
526	2020-03-16	<NA>
527	2020-03-25	<NA>
528	2020-03-03	<NA>
529	2020-03-25	<NA>
530	2020-03-16	No
531	2020-03-21	No
532	2020-03-23	No
533	2020-03-03	<NA>
534	2020-03-30	<NA>
535	2020-03-12	No
536	2020-03-20	No
537	2020-03-20	No
538	<NA>	<NA>
539	2020-03-12	No
540	2020-03-21	No
541	2020-03-23	<NA>
542	2020-03-14	No
543	2020-03-23	No
544	2020-03-14	<NA>
545	2020-03-22	No
546	2020-03-24	<NA>
547	2020-03-22	No
548	2020-03-19	No
549	2020-03-25	No
550	2020-03-18	No
551	2020-03-25	No
552	2020-03-27	<NA>
553	2020-03-22	No

554	2020-03-23	No
555	2020-03-13	No
556	2020-03-22	No
557	2020-03-24	<NA>
558	2020-03-18	No
559	2020-03-21	<NA>
560	2020-03-17	<NA>
561	<NA>	<NA>
562	2020-03-23	No
563	2020-03-22	<NA>
564	2020-03-27	<NA>
565	2020-03-18	No
566	2020-03-25	No
567	2020-03-27	No
568	2020-03-19	<NA>
569	2020-03-24	No
570	2020-03-24	<NA>
571	2020-03-09	No
572	<NA>	No
573	<NA>	<NA>
574	2020-03-26	No
575	2020-03-26	No
576	2020-03-24	<NA>
577	2020-03-23	<NA>
578	2020-03-18	No
579	2020-03-23	<NA>
580	2020-03-12	No
581	2020-03-28	No
582	2020-03-21	No
583	2020-03-13	No
584	2020-03-15	<NA>
585	2020-03-17	<NA>
586	2020-03-27	No
587	2020-03-26	No
588	2020-03-20	<NA>
589	2020-03-14	No
590	2020-03-15	No
591	2020-03-22	No
592	2020-03-20	No
593	<NA>	<NA>
594	<NA>	<NA>
595	2020-03-28	<NA>
596	2020-03-25	No

597	2020-03-27	No
598	2020-03-23	<NA>
599	2020-03-25	No
600	2020-03-21	No
601	<NA>	<NA>
602	<NA>	<NA>
603	2020-03-29	<NA>
604	2020-03-19	<NA>
605	2020-03-19	No
606	2020-03-21	No
607	2020-03-24	<NA>
608	2020-03-24	<NA>
609	2020-03-17	No
610	2020-03-25	No
611	2020-03-29	No
612	2020-03-20	No
613	2020-03-28	No
614	2020-03-22	No
615	<NA>	<NA>
616	2020-03-26	No
617	2020-03-21	No
618	2020-03-22	<NA>
619	2020-03-24	No
620	2020-03-18	<NA>
621	2020-03-29	No
622	2020-03-26	No
623	2020-03-27	No
624	2020-03-26	No
625	2020-03-23	No
626	2020-03-23	No
627	2020-03-23	No
628	<NA>	<NA>
629	2020-03-25	No
630	2020-03-15	No
631	2020-03-30	<NA>
632	2020-03-17	Yes
633	2020-03-21	No
634	2020-03-17	No
635	<NA>	No
636	2020-03-28	No
637	2020-03-25	No
638	2020-03-13	No
639	2020-03-20	<NA>

640	<NA>	<NA>
641	2020-03-27	No
642	<NA>	<NA>
643	2020-03-16	No
644	2020-03-25	No
645	2020-03-25	No
646	2020-03-29	Yes
647	2020-03-17	No
648	<NA>	No
649	2020-03-24	<NA>
650	<NA>	<NA>
651	2020-03-29	No
652	<NA>	<NA>
653	<NA>	<NA>
654	2020-03-21	No
655	2020-03-27	No
656	<NA>	<NA>
657	2020-03-26	No
658	2020-03-12	No
659	2020-03-27	<NA>
660	2020-03-18	<NA>
661	2020-03-21	<NA>
662	2020-02-28	<NA>
663	2020-03-29	No
664	2020-03-31	No
665	2020-04-01	<NA>
666	2020-03-05	<NA>
667	2020-03-30	No
668	2020-03-29	No
669	2020-03-15	No
670	2020-03-31	<NA>
671	2020-03-29	No
672	2020-03-25	<NA>
673	2020-03-14	No
674	2020-03-25	<NA>
675	2020-03-28	No
676	2020-03-27	<NA>
677	2020-03-25	<NA>
678	2020-03-28	No
679	2020-03-25	No
680	2020-03-27	<NA>
681	2020-03-25	No
682	2020-03-31	No

683	2020-03-24	No
684	2020-04-04	No
685	2020-03-31	<NA>
686	2020-03-28	No
687	2020-04-01	No
688	2020-03-21	<NA>
689	2020-03-29	<NA>
690	2020-03-26	No
691	2020-03-26	No
692	2020-03-16	No
693	2020-03-30	No
694	2020-03-27	No
695	2020-03-30	<NA>
696	2020-03-26	No
697	2020-03-26	No
698	2020-03-25	No
699	2020-03-25	No
700	2020-04-01	No
701	2020-03-28	No
702	2020-03-23	No
703	2020-03-29	No
704	2020-04-01	No
705	2020-03-26	No
706	2020-03-29	<NA>
707	2020-03-30	No
708	2020-03-28	Yes
709	2020-02-22	<NA>
710	2020-03-21	No
711	2020-04-01	No
712	2020-03-29	No
713	2020-03-26	No
714	<NA>	<NA>
715	2020-03-30	No
716	2020-03-31	<NA>
717	2020-04-01	No
718	2020-03-28	No
719	2020-02-24	No
720	2020-03-25	<NA>
721	2020-03-06	<NA>
722	<NA>	<NA>
723	2020-03-27	<NA>
724	2020-03-28	No
725	2020-03-29	No

726	2020-04-01	No
727	<NA>	No
728	2020-03-29	No
729	2020-03-27	No
730	2020-03-11	No
731	2020-04-01	No
732	2020-04-01	No
733	2020-03-28	<NA>
734	2020-03-26	<NA>
735	2020-03-29	No
736	2020-04-02	No
737	2020-04-02	No
738	2020-03-23	<NA>
739	2020-03-27	<NA>
740	2020-03-29	No
741	2020-03-27	No
742	2020-03-29	<NA>
743	2020-03-27	No
744	2020-03-25	No
745	2020-03-27	No
746	2020-03-29	<NA>
747	2020-03-16	No
748	2020-03-25	No
749	2020-03-27	No
750	2020-04-01	No
751	2020-03-25	No
752	2020-03-28	No
753	<NA>	No
754	2020-03-30	<NA>
755	2020-03-21	No
756	2020-03-31	No
757	2020-04-02	No
758	2020-03-31	No
759	2020-03-13	No
760	2020-03-26	No
761	2020-03-25	No
762	2020-03-05	<NA>
763	2020-04-02	<NA>
764	2020-03-08	No
765	<NA>	No
766	2020-04-02	<NA>
767	<NA>	<NA>
768	2020-03-19	No

769	<NA>	<NA>
770	2020-03-30	<NA>
771	2020-03-12	No
772	2020-03-28	<NA>
773	2020-03-16	No
774	2020-03-25	No
775	2020-03-12	Yes
776	2020-03-25	No
777	2020-03-20	No
778	2020-03-18	<NA>
779	2020-03-25	No
780	2020-04-02	<NA>
781	<NA>	<NA>
782	2020-03-20	<NA>
783	2020-03-28	No
784	2020-03-20	No
785	2020-03-26	No
786	2020-03-14	<NA>
787	2020-03-30	No
788	2020-03-20	No
789	2020-04-02	No
790	2020-04-08	No
791	2020-04-01	<NA>
792	<NA>	<NA>
793	2020-04-03	No
794	2020-04-03	<NA>
795	2020-04-03	No
796	2020-03-30	No
797	2020-03-14	No
798	2020-03-31	No
799	2020-03-12	No
800	2020-03-20	No
801	2020-03-02	<NA>
802	2020-03-30	No
803	2020-03-29	No
804	<NA>	<NA>
805	2020-04-02	No
806	2020-04-01	<NA>
807	2020-03-28	No
808	2020-03-29	No
809	2020-03-24	No
810	2020-03-07	<NA>
811	2020-03-17	No

812	2020-03-28	<NA>
813	2020-03-15	<NA>
814	2020-03-14	<NA>
815	2020-04-01	<NA>
816	2020-03-31	<NA>
817	2020-04-01	<NA>
818	<NA>	No
819	2020-03-24	No
820	2020-03-21	No
821	2020-03-31	<NA>
822	<NA>	<NA>
823	<NA>	<NA>
824	2020-03-15	No
825	2020-04-04	Yes
826	<NA>	No
827	<NA>	No
828	2020-03-28	No
829	2020-04-03	No
830	2020-04-03	<NA>
831	2020-03-31	<NA>
832	<NA>	<NA>
833	2020-03-26	No
834	<NA>	<NA>
835	<NA>	<NA>
836	2020-03-28	<NA>
837	2020-03-26	<NA>
838	<NA>	<NA>
839	<NA>	<NA>
840	2020-03-21	No
841	<NA>	No
842	<NA>	<NA>
843	2020-03-30	No
844	2020-03-17	<NA>
845	2020-03-22	No
846	<NA>	<NA>
847	2020-04-03	No
848	2020-03-27	No
849	2020-04-03	No
850	2020-04-01	<NA>
851	2020-04-05	No
852	2020-04-02	<NA>
853	2020-04-06	<NA>
854	2020-03-30	<NA>



855	2020-04-05	No
856	2020-04-02	No
857	2020-04-05	No
858	2020-04-13	No
859	2020-04-04	No
860	2020-04-11	No
861	2020-03-31	No
862	2020-03-30	No
863	2020-03-26	No
864	<NA>	<NA>
865	2020-03-22	No
866	2020-04-04	No
867	2020-04-05	No
868	2020-04-07	<NA>
869	2020-04-03	No
870	2020-04-05	<NA>
871	2020-04-05	No
872	2020-04-07	No
873	2020-03-30	No
874	2020-04-10	No
875	2020-04-01	No
876	2020-04-04	<NA>
877	2020-03-31	No
878	<NA>	No
879	<NA>	<NA>
880	2020-04-02	No
881	<NA>	No
882	2020-04-05	No
883	2020-04-06	No
884	2020-03-30	No
885	2020-04-01	<NA>
886	2020-04-02	No
887	2020-04-04	No
888	2020-03-20	<NA>
889	2020-04-07	<NA>
890	<NA>	Yes
891	2020-03-31	No
892	2020-03-31	<NA>
893	2020-04-07	No
894	2020-03-23	No
895	<NA>	No
896	2020-04-07	<NA>
897	2020-04-06	No

898	<NA>	<NA>
899	2020-02-29	<NA>
900	2020-03-23	No
901	2020-04-05	No
902	2020-04-09	No
903	2020-04-07	No
904	<NA>	<NA>
905	<NA>	No
906	<NA>	<NA>
907	<NA>	<NA>
908	<NA>	No
909	2020-04-06	No
910	<NA>	<NA>
911	2020-03-22	No
912	2020-04-12	<NA>
913	<NA>	<NA>
914	2020-04-03	<NA>
915	2020-03-19	<NA>
916	<NA>	<NA>
917	2020-04-05	<NA>
918	2020-04-05	No
919	2020-04-18	<NA>
920	2020-03-18	No
921	2020-03-28	No
922	<NA>	<NA>
923	2020-04-02	No
924	2020-04-07	No
925	2020-03-24	Yes
926	2020-04-03	No
927	2020-04-09	<NA>
928	2020-04-06	No
929	<NA>	No
930	<NA>	<NA>
931	2020-03-30	<NA>
932	<NA>	<NA>
933	2020-04-01	<NA>
934	2020-04-05	<NA>
935	2020-04-08	No
936	2020-04-08	No
937	2020-04-04	<NA>
938	2020-03-31	<NA>
939	2020-04-05	<NA>
940	2020-04-10	No

941	2020-04-02	No
942	2020-03-26	No
943	2020-03-11	<NA>
944	<NA>	<NA>
945	2020-04-07	Yes
946	<NA>	<NA>
947	2020-04-01	No
948	2020-04-15	No
949	<NA>	<NA>
950	2020-04-03	<NA>
951	2020-04-06	No
952	2020-03-26	<NA>
953	2020-03-25	No
954	2020-04-06	No
955	2020-04-06	No
956	2020-03-08	No
957	2020-04-08	<NA>
958	<NA>	No
959	<NA>	No
960	<NA>	<NA>
961	2020-04-04	<NA>
962	2020-04-01	No
963	2020-04-08	No
964	2020-04-11	No
965	2020-04-07	<NA>
966	2020-04-12	<NA>
967	2020-04-02	No
968	2020-04-10	<NA>
969	<NA>	<NA>
970	2020-04-14	No
971	<NA>	<NA>
972	2020-04-06	No
973	<NA>	Yes
974	<NA>	<NA>
975	2020-04-11	No
976	2020-04-09	<NA>
977	2020-03-24	No
978	2020-03-16	Yes
979	2020-03-30	No
980	2020-04-08	<NA>
981	<NA>	<NA>
982	2020-04-07	<NA>
983	<NA>	<NA>

984	<NA>	No
985	2020-03-26	<NA>
986	<NA>	No
987	2020-04-10	<NA>
988	<NA>	<NA>
989	2020-04-02	Yes
990	<NA>	<NA>
991	2020-04-17	<NA>
992	2020-04-14	No
993	<NA>	<NA>
994	2020-04-11	<NA>
995	2020-04-16	<NA>
996	2020-04-18	No
997	2020-04-04	<NA>
998	2020-04-25	No
999	2020-04-16	<NA>
1000	2020-04-11	No
1001	2020-04-10	No
1002	2020-04-16	<NA>
1003	2020-04-11	No
1004	2020-04-16	No
1005	2020-04-10	No
1006	2020-04-12	No
1007	2020-04-26	No
1008	2020-04-16	<NA>
1009	2020-04-08	<NA>
1010	2020-04-16	<NA>
1011	2020-04-11	No
1012	2020-04-10	No
1013	<NA>	<NA>
1014	2020-04-14	No
1015	2020-04-05	<NA>
1016	2020-04-02	No
1017	2020-04-11	No
1018	2020-04-02	No
1019	2020-04-16	<NA>
1020	2020-04-07	<NA>
1021	2020-04-09	<NA>
1022	2020-05-09	<NA>
1023	2020-04-06	<NA>
1024	<NA>	No
1025	2020-04-11	<NA>
1026	2020-04-08	<NA>

1027	2020-04-11	No
1028	2020-04-08	No
1029	2020-04-11	No
1030	2020-04-03	<NA>
1031	<NA>	<NA>
1032	<NA>	<NA>
1033	2020-03-30	No
1034	<NA>	No
1035	2020-04-01	<NA>
1036	2020-04-11	<NA>
1037	2020-04-04	No
1038	2020-04-06	No
1039	2020-04-11	<NA>
1040	<NA>	<NA>
1041	2020-04-07	<NA>
1042	2020-04-03	<NA>
1043	2020-04-06	<NA>
1044	<NA>	<NA>
1045	2020-03-27	No
1046	<NA>	<NA>
1047	2020-04-09	No
1048	2020-04-03	<NA>
1049	2020-03-10	No
1050	<NA>	<NA>
1051	<NA>	No
1052	2020-03-28	No
1053	2020-04-10	No
1054	<NA>	No
1055	<NA>	<NA>
1056	<NA>	No
1057	2020-04-15	No
1058	2020-04-12	No
1059	2020-04-11	<NA>
1060	2020-03-28	No
1061	2020-04-17	No
1062	2020-04-06	No
1063	2020-04-12	No
1064	<NA>	<NA>
1065	<NA>	<NA>
1066	2020-04-10	<NA>
1067	2020-04-10	Yes
1068	2020-04-11	No
1069	2020-03-23	<NA>

1070	<NA>	<NA>
1071	2020-04-13	<NA>
1072	2020-04-06	No
1073	2020-03-26	No
1074	2020-03-27	<NA>
1075	2020-04-11	<NA>
1076	2020-04-01	No
1077	<NA>	No
1078	2020-04-20	No
1079	<NA>	<NA>
1080	<NA>	<NA>
1081	2020-03-14	No
1082	2020-04-12	<NA>
1083	2020-04-16	<NA>
1084	<NA>	<NA>
1085	<NA>	No
1086	<NA>	<NA>
1087	2020-03-29	<NA>
1088	2020-04-05	<NA>
1089	<NA>	<NA>
1090	<NA>	<NA>
1091	2020-04-19	No
1092	2020-04-24	<NA>
1093	2020-04-16	No
1094	2020-04-22	<NA>
1095	2020-03-28	No
1096	2020-04-22	Yes
1097	2020-04-15	No
1098	2020-04-20	No
1099	2020-03-13	No
1100	2020-04-24	No
1101	2020-04-01	<NA>
1102	<NA>	No
1103	2020-04-03	No
1104	2020-04-16	No
1105	2020-04-22	No
1106	2020-04-17	No
1107	<NA>	<NA>
1108	2020-04-24	No
1109	2020-04-16	<NA>
1110	<NA>	<NA>
1111	2020-03-30	<NA>
1112	<NA>	<NA>

1113	<NA>	<NA>
1114	2020-03-27	No
1115	2020-04-22	No
1116	2020-04-14	No
1117	<NA>	<NA>
1118	2020-04-21	No
1119	2020-04-09	No
1120	<NA>	No
1121	2020-04-15	No
1122	<NA>	<NA>
1123	<NA>	No
1124	2020-04-30	Yes
1125	2020-04-17	<NA>
1126	2020-04-30	No
1127	<NA>	No
1128	2020-04-16	No
1129	2020-04-06	<NA>
1130	2020-03-29	No
1131	2020-03-08	<NA>
		region
1	Central Visayas (Region VII)	
2	Central Visayas (Region VII)	
3	Metropolitan Manila	
4	Central Luzon (Region III)	
5	Metropolitan Manila	
6	Metropolitan Manila	
7	Metropolitan Manila	
8	Metropolitan Manila	
9	Metropolitan Manila	
10	Metropolitan Manila	
11	Metropolitan Manila	
12	Metropolitan Manila	
13	Metropolitan Manila	
14	Metropolitan Manila	
15	Metropolitan Manila	
16	Metropolitan Manila	
17	Metropolitan Manila	
18	Metropolitan Manila	
19	Metropolitan Manila	
20	Metropolitan Manila	
21	CALABARZON (Region IV-A)	
22	CALABARZON (Region IV-A)	
23	Metropolitan Manila	

24	Metropolitan Manila
25	Metropolitan Manila
26	Metropolitan Manila
27	CALABARZON (Region IV-A)
28	Metropolitan Manila
29	Metropolitan Manila
30	Metropolitan Manila
31	Metropolitan Manila
32	Davao Region (Region XI)
33	Metropolitan Manila
34	Metropolitan Manila
35	CALABARZON (Region IV-A)
36	Metropolitan Manila
37	Metropolitan Manila
38	Metropolitan Manila
39	Metropolitan Manila
40	Metropolitan Manila
41	Metropolitan Manila
42	Metropolitan Manila
43	Metropolitan Manila
44	Metropolitan Manila
45	Metropolitan Manila
46	Metropolitan Manila
47	Metropolitan Manila
48	Metropolitan Manila
49	Metropolitan Manila
50	Metropolitan Manila
51	Metropolitan Manila
52	CALABARZON (Region IV-A)
53	Metropolitan Manila
54	Metropolitan Manila
55	Metropolitan Manila
56	Metropolitan Manila
57	Metropolitan Manila
58	Metropolitan Manila
59	Metropolitan Manila
60	CALABARZON (Region IV-A)
61	Metropolitan Manila
62	Metropolitan Manila
63	Metropolitan Manila
64	Metropolitan Manila
65	Metropolitan Manila
66	Metropolitan Manila



67	Metropolitan Manila
68	Metropolitan Manila
69	Metropolitan Manila
70	Davao Region (Region XI)
71	Metropolitan Manila
72	Metropolitan Manila
73	Metropolitan Manila
74	Metropolitan Manila
75	Metropolitan Manila
76	Metropolitan Manila
77	Metropolitan Manila
78	Ilocos Region (Region I)
79	Metropolitan Manila
80	CALABARZON (Region IV-A)
81	Metropolitan Manila
82	Metropolitan Manila
83	Metropolitan Manila
84	Metropolitan Manila
85	Metropolitan Manila
86	Metropolitan Manila
87	Metropolitan Manila
88	Central Luzon (Region III)
89	Metropolitan Manila
90	Metropolitan Manila
91	Metropolitan Manila
92	Metropolitan Manila
93	Metropolitan Manila
94	Metropolitan Manila
95	Metropolitan Manila
96	Metropolitan Manila
97	Metropolitan Manila
98	CALABARZON (Region IV-A)
99	Metropolitan Manila
100	Metropolitan Manila
101	Metropolitan Manila
102	Metropolitan Manila
103	Metropolitan Manila
104	Metropolitan Manila
105	Metropolitan Manila
106	Metropolitan Manila
107	Metropolitan Manila
108	Metropolitan Manila
109	CALABARZON (Region IV-A)

110	Metropolitan Manila
111	Metropolitan Manila
112	Central Luzon (Region III)
113	Metropolitan Manila
114	Metropolitan Manila
115	Metropolitan Manila
116	Metropolitan Manila
117	Metropolitan Manila
118	Metropolitan Manila
119	Metropolitan Manila
120	Metropolitan Manila
121	Central Luzon (Region III)
122	Cordillera Administrative Region (CAR)
123	Metropolitan Manila
124	Metropolitan Manila
125	CALABARZON (Region IV-A)
126	Metropolitan Manila
127	Metropolitan Manila
128	CALABARZON (Region IV-A)
129	Metropolitan Manila
130	Metropolitan Manila
131	Metropolitan Manila
132	Eastern Visayas (Region VIII)
133	Metropolitan Manila
134	Metropolitan Manila
135	Metropolitan Manila
136	Metropolitan Manila
137	CALABARZON (Region IV-A)
138	Metropolitan Manila
139	Metropolitan Manila
140	Metropolitan Manila
141	Metropolitan Manila
142	CALABARZON (Region IV-A)
143	Autonomous Region of Muslim Mindanao (ARMM)
144	Metropolitan Manila
145	Metropolitan Manila
146	Metropolitan Manila
147	Metropolitan Manila
148	Metropolitan Manila
149	Metropolitan Manila
150	Metropolitan Manila
151	Metropolitan Manila
152	Metropolitan Manila

153	Metropolitan Manila
154	Metropolitan Manila
155	Metropolitan Manila
156	Metropolitan Manila
157	Autonomous Region of Muslim Mindanao (ARMM)
158	Metropolitan Manila
159	Metropolitan Manila
160	Metropolitan Manila
161	Western Visayas (Region VI)
162	Metropolitan Manila
163	Metropolitan Manila
164	Metropolitan Manila
165	CALABARZON (Region IV-A)
166	Metropolitan Manila
167	Metropolitan Manila
168	Metropolitan Manila
169	Metropolitan Manila
170	Metropolitan Manila
171	Metropolitan Manila
172	Autonomous Region of Muslim Mindanao (ARMM)
173	Metropolitan Manila
174	Metropolitan Manila
175	Metropolitan Manila
176	Cordillera Administrative Region (CAR)
177	CALABARZON (Region IV-A)
178	Metropolitan Manila
179	Metropolitan Manila
180	Metropolitan Manila
181	Metropolitan Manila
182	Metropolitan Manila
183	Metropolitan Manila
184	Metropolitan Manila
185	Metropolitan Manila
186	Metropolitan Manila
187	CALABARZON (Region IV-A)
188	Metropolitan Manila
189	Ilocos Region (Region I)
190	Metropolitan Manila
191	Metropolitan Manila
192	Metropolitan Manila
193	Zamboanga Peninsula (Region IX)
194	Metropolitan Manila
195	Metropolitan Manila

196	Ilocos Region (Region I)
197	Metropolitan Manila
198	CALABARZON (Region IV-A)
199	Metropolitan Manila
200	Metropolitan Manila
201	Metropolitan Manila
202	Metropolitan Manila
203	Metropolitan Manila
204	Metropolitan Manila
205	Metropolitan Manila
206	Metropolitan Manila
207	Metropolitan Manila
208	Metropolitan Manila
209	Metropolitan Manila
210	Metropolitan Manila
211	Metropolitan Manila
212	Metropolitan Manila
213	Metropolitan Manila
214	Cagayan Valley (Region II)
215	Metropolitan Manila
216	Metropolitan Manila
217	Metropolitan Manila
218	Metropolitan Manila
219	Metropolitan Manila
220	Metropolitan Manila
221	Western Visayas (Region VI)
222	Metropolitan Manila
223	MIMAROPA (Region IV-B)
224	Metropolitan Manila
225	Metropolitan Manila
226	Metropolitan Manila
227	Metropolitan Manila
228	Metropolitan Manila
229	Cagayan Valley (Region II)
230	Metropolitan Manila
231	Metropolitan Manila
232	Metropolitan Manila
233	Metropolitan Manila
234	Metropolitan Manila
235	Metropolitan Manila
236	Metropolitan Manila
237	Metropolitan Manila
238	Central Luzon (Region III)

239	Metropolitan Manila
240	Metropolitan Manila
241	Metropolitan Manila
242	Metropolitan Manila
243	Metropolitan Manila
244	Metropolitan Manila
245	Metropolitan Manila
246	Metropolitan Manila
247	Metropolitan Manila
248	Metropolitan Manila
249	Metropolitan Manila
250	Cagayan Valley (Region II)
251	Metropolitan Manila
252	Metropolitan Manila
253	Metropolitan Manila
254	Metropolitan Manila
255	Metropolitan Manila
256	Metropolitan Manila
257	Metropolitan Manila
258	CALABARZON (Region IV-A)
259	Metropolitan Manila
260	Cagayan Valley (Region II)
261	CALABARZON (Region IV-A)
262	Metropolitan Manila
263	Metropolitan Manila
264	Metropolitan Manila
265	Metropolitan Manila
266	Metropolitan Manila
267	Metropolitan Manila
268	Metropolitan Manila
269	Cagayan Valley (Region II)
270	Metropolitan Manila
271	Metropolitan Manila
272	Metropolitan Manila
273	Metropolitan Manila
274	Metropolitan Manila
275	CALABARZON (Region IV-A)
276	Metropolitan Manila
277	Metropolitan Manila
278	Metropolitan Manila
279	Metropolitan Manila
280	Metropolitan Manila
281	Metropolitan Manila

282	Davao Region (Region XI)
283	Metropolitan Manila
284	Davao Region (Region XI)
285	Metropolitan Manila
286	Metropolitan Manila
287	Metropolitan Manila
288	Metropolitan Manila
289	Metropolitan Manila
290	Central Luzon (Region III)
291	Metropolitan Manila
292	Metropolitan Manila
293	Metropolitan Manila
294	Metropolitan Manila
295	Metropolitan Manila
296	Metropolitan Manila
297	Metropolitan Manila
298	Metropolitan Manila
299	CALABARZON (Region IV-A)
300	CALABARZON (Region IV-A)
301	Metropolitan Manila
302	Metropolitan Manila
303	Metropolitan Manila
304	CALABARZON (Region IV-A)
305	Metropolitan Manila
306	Metropolitan Manila
307	Metropolitan Manila
308	CALABARZON (Region IV-A)
309	Metropolitan Manila
310	Metropolitan Manila
311	Metropolitan Manila
312	Metropolitan Manila
313	Metropolitan Manila
314	Metropolitan Manila
315	Metropolitan Manila
316	Metropolitan Manila
317	Metropolitan Manila
318	Metropolitan Manila
319	Metropolitan Manila
320	Metropolitan Manila
321	CALABARZON (Region IV-A)
322	Metropolitan Manila
323	Metropolitan Manila
324	Metropolitan Manila

325	Metropolitan Manila
326	Davao Region (Region XI)
327	Metropolitan Manila
328	Metropolitan Manila
329	Metropolitan Manila
330	CALABARZON (Region IV-A)
331	Cagayan Valley (Region II)
332	Metropolitan Manila
333	Central Luzon (Region III)
334	Metropolitan Manila
335	Metropolitan Manila
336	Metropolitan Manila
337	Metropolitan Manila
338	Metropolitan Manila
339	Metropolitan Manila
340	Metropolitan Manila
341	Cordillera Administrative Region (CAR)
342	Western Visayas (Region VI)
343	Metropolitan Manila
344	Metropolitan Manila
345	Metropolitan Manila
346	Metropolitan Manila
347	Metropolitan Manila
348	Cagayan Valley (Region II)
349	Metropolitan Manila
350	Metropolitan Manila
351	Metropolitan Manila
352	Metropolitan Manila
353	Metropolitan Manila
354	Metropolitan Manila
355	CALABARZON (Region IV-A)
356	Metropolitan Manila
357	Northern Mindanao (Region X)
358	Metropolitan Manila
359	Davao Region (Region XI)
360	CALABARZON (Region IV-A)
361	Metropolitan Manila
362	Metropolitan Manila
363	Metropolitan Manila
364	Metropolitan Manila
365	Metropolitan Manila
366	Metropolitan Manila
367	Metropolitan Manila

368	Davao Region (Region XI)
369	Metropolitan Manila
370	Metropolitan Manila
371	Metropolitan Manila
372	Metropolitan Manila
373	Metropolitan Manila
374	Metropolitan Manila
375	Metropolitan Manila
376	CALABARZON (Region IV-A)
377	Metropolitan Manila
378	Metropolitan Manila
379	Metropolitan Manila
380	Central Visayas (Region VII)
381	Central Visayas (Region VII)
382	Metropolitan Manila
383	<NA>
384	Metropolitan Manila
385	Metropolitan Manila
386	Metropolitan Manila
387	Metropolitan Manila
388	Metropolitan Manila
389	Metropolitan Manila
390	Metropolitan Manila
391	Metropolitan Manila
392	Metropolitan Manila
393	MIMAROPA (Region IV-B)
394	Metropolitan Manila
395	Metropolitan Manila
396	Metropolitan Manila
397	Metropolitan Manila
398	Metropolitan Manila
399	Metropolitan Manila
400	Metropolitan Manila
401	Metropolitan Manila
402	Metropolitan Manila
403	Central Visayas (Region VII)
404	Metropolitan Manila
405	Central Visayas (Region VII)
406	CALABARZON (Region IV-A)
407	Metropolitan Manila
408	Metropolitan Manila
409	Metropolitan Manila
410	Metropolitan Manila



411	Metropolitan Manila
412	Metropolitan Manila
413	CALABARZON (Region IV-A)
414	Metropolitan Manila
415	Metropolitan Manila
416	Metropolitan Manila
417	Metropolitan Manila
418	CALABARZON (Region IV-A)
419	Ilocos Region (Region I)
420	Metropolitan Manila
421	Ilocos Region (Region I)
422	Metropolitan Manila
423	Metropolitan Manila
424	Metropolitan Manila
425	Metropolitan Manila
426	Metropolitan Manila
427	Central Luzon (Region III)
428	Metropolitan Manila
429	Metropolitan Manila
430	CALABARZON (Region IV-A)
431	Metropolitan Manila
432	CALABARZON (Region IV-A)
433	Metropolitan Manila
434	Metropolitan Manila
435	Metropolitan Manila
436	CALABARZON (Region IV-A)
437	Metropolitan Manila
438	Metropolitan Manila
439	CALABARZON (Region IV-A)
440	Zamboanga Peninsula (Region IX)
441	Metropolitan Manila
442	CALABARZON (Region IV-A)
443	Metropolitan Manila
444	Metropolitan Manila
445	Metropolitan Manila
446	Central Visayas (Region VII)
447	Metropolitan Manila
448	Metropolitan Manila
449	CALABARZON (Region IV-A)
450	Metropolitan Manila
451	CALABARZON (Region IV-A)
452	Metropolitan Manila
453	Metropolitan Manila

454	Metropolitan Manila
455	Metropolitan Manila
456	Central Visayas (Region VII)
457	Metropolitan Manila
458	Metropolitan Manila
459	Metropolitan Manila
460	Metropolitan Manila
461	Metropolitan Manila
462	Metropolitan Manila
463	Metropolitan Manila
464	Central Visayas (Region VII)
465	Metropolitan Manila
466	Central Luzon (Region III)
467	CALABARZON (Region IV-A)
468	Metropolitan Manila
469	Central Visayas (Region VII)
470	Metropolitan Manila
471	Metropolitan Manila
472	Metropolitan Manila
473	Metropolitan Manila
474	Metropolitan Manila
475	Metropolitan Manila
476	Metropolitan Manila
477	Metropolitan Manila
478	CALABARZON (Region IV-A)
479	Metropolitan Manila
480	Cagayan Valley (Region II)
481	Metropolitan Manila
482	Metropolitan Manila
483	Metropolitan Manila
484	Metropolitan Manila
485	Davao Region (Region XI)
486	Metropolitan Manila
487	Metropolitan Manila
488	Metropolitan Manila
489	CALABARZON (Region IV-A)
490	Metropolitan Manila
491	Metropolitan Manila
492	Metropolitan Manila
493	SOCCSKSARGEN (Region XII)
494	Metropolitan Manila
495	Metropolitan Manila
496	Metropolitan Manila

497	Metropolitan Manila
498	Metropolitan Manila
499	Metropolitan Manila
500	Metropolitan Manila
501	CALABARZON (Region IV-A)
502	Davao Region (Region XI)
503	Metropolitan Manila
504	Davao Region (Region XI)
505	Metropolitan Manila
506	Metropolitan Manila
507	CALABARZON (Region IV-A)
508	Metropolitan Manila
509	Metropolitan Manila
510	Metropolitan Manila
511	Metropolitan Manila
512	CALABARZON (Region IV-A)
513	Metropolitan Manila
514	Metropolitan Manila
515	Metropolitan Manila
516	CALABARZON (Region IV-A)
517	Metropolitan Manila
518	Metropolitan Manila
519	Metropolitan Manila
520	Metropolitan Manila
521	Metropolitan Manila
522	Cagayan Valley (Region II)
523	Metropolitan Manila
524	Metropolitan Manila
525	Metropolitan Manila
526	Metropolitan Manila
527	Davao Region (Region XI)
528	Metropolitan Manila
529	Metropolitan Manila
530	Ilocos Region (Region I)
531	Metropolitan Manila
532	Ilocos Region (Region I)
533	Ilocos Region (Region I)
534	Metropolitan Manila
535	Metropolitan Manila
536	<NA>
537	Metropolitan Manila
538	Metropolitan Manila
539	Metropolitan Manila

540	Metropolitan Manila
541	Metropolitan Manila
542	Metropolitan Manila
543	Metropolitan Manila
544	Ilocos Region (Region I)
545	Metropolitan Manila
546	<NA>
547	Cagayan Valley (Region II)
548	Metropolitan Manila
549	Central Luzon (Region III)
550	Metropolitan Manila
551	Metropolitan Manila
552	Metropolitan Manila
553	Metropolitan Manila
554	Metropolitan Manila
555	Metropolitan Manila
556	CALABARZON (Region IV-A)
557	Metropolitan Manila
558	Metropolitan Manila
559	CALABARZON (Region IV-A)
560	Ilocos Region (Region I)
561	Metropolitan Manila
562	MIMAROPA (Region IV-B)
563	Ilocos Region (Region I)
564	Metropolitan Manila
565	CALABARZON (Region IV-A)
566	Metropolitan Manila
567	Metropolitan Manila
568	Metropolitan Manila
569	Metropolitan Manila
570	Metropolitan Manila
571	Central Luzon (Region III)
572	Metropolitan Manila
573	<NA>
574	Metropolitan Manila
575	Metropolitan Manila
576	CALABARZON (Region IV-A)
577	Metropolitan Manila
578	Metropolitan Manila
579	Metropolitan Manila
580	CALABARZON (Region IV-A)
581	Metropolitan Manila
582	Metropolitan Manila

583	Central Luzon (Region III)
584	Metropolitan Manila
585	Metropolitan Manila
586	Metropolitan Manila
587	Ilocos Region (Region I)
588	Metropolitan Manila
589	Metropolitan Manila
590	Zamboanga Peninsula (Region IX)
591	Metropolitan Manila
592	Metropolitan Manila
593	<NA>
594	Metropolitan Manila
595	Davao Region (Region XI)
596	Metropolitan Manila
597	Central Luzon (Region III)
598	Metropolitan Manila
599	Metropolitan Manila
600	Metropolitan Manila
601	Metropolitan Manila
602	Metropolitan Manila
603	Western Visayas (Region VI)
604	Metropolitan Manila
605	Metropolitan Manila
606	Metropolitan Manila
607	Metropolitan Manila
608	Metropolitan Manila
609	CALABARZON (Region IV-A)
610	Metropolitan Manila
611	Metropolitan Manila
612	Metropolitan Manila
613	Metropolitan Manila
614	Metropolitan Manila
615	Metropolitan Manila
616	CALABARZON (Region IV-A)
617	Metropolitan Manila
618	Metropolitan Manila
619	CALABARZON (Region IV-A)
620	Metropolitan Manila
621	Metropolitan Manila
622	Metropolitan Manila
623	Central Luzon (Region III)
624	Metropolitan Manila
625	Metropolitan Manila

626	Metropolitan Manila
627	<NA>
628	Metropolitan Manila
629	Metropolitan Manila
630	Metropolitan Manila
631	<NA>
632	Metropolitan Manila
633	Metropolitan Manila
634	Metropolitan Manila
635	Metropolitan Manila
636	Metropolitan Manila
637	Metropolitan Manila
638	Metropolitan Manila
639	Metropolitan Manila
640	Metropolitan Manila
641	Metropolitan Manila
642	Metropolitan Manila
643	Metropolitan Manila
644	Metropolitan Manila
645	Metropolitan Manila
646	Metropolitan Manila
647	CALABARZON (Region IV-A)
648	Metropolitan Manila
649	CALABARZON (Region IV-A)
650	Western Visayas (Region VI)
651	Metropolitan Manila
652	Western Visayas (Region VI)
653	Western Visayas (Region VI)
654	Metropolitan Manila
655	Metropolitan Manila
656	Western Visayas (Region VI)
657	Metropolitan Manila
658	Metropolitan Manila
659	Metropolitan Manila
660	Davao Region (Region XI)
661	Davao Region (Region XI)
662	Metropolitan Manila
663	<NA>
664	Metropolitan Manila
665	Metropolitan Manila
666	Metropolitan Manila
667	Davao Region (Region XI)
668	Metropolitan Manila

669	Metropolitan Manila
670	Metropolitan Manila
671	CALABARZON (Region IV-A)
672	Metropolitan Manila
673	Metropolitan Manila
674	<NA>
675	Davao Region (Region XI)
676	Metropolitan Manila
677	Metropolitan Manila
678	CALABARZON (Region IV-A)
679	Metropolitan Manila
680	Davao Region (Region XI)
681	Metropolitan Manila
682	Metropolitan Manila
683	Autonomous Region of Muslim Mindanao (ARMM)
684	Metropolitan Manila
685	Metropolitan Manila
686	Metropolitan Manila
687	Metropolitan Manila
688	Metropolitan Manila
689	Metropolitan Manila
690	Metropolitan Manila
691	Metropolitan Manila
692	Metropolitan Manila
693	Metropolitan Manila
694	Zamboanga Peninsula (Region IX)
695	Metropolitan Manila
696	Metropolitan Manila
697	Metropolitan Manila
698	Metropolitan Manila
699	Metropolitan Manila
700	Central Luzon (Region III)
701	Metropolitan Manila
702	Central Luzon (Region III)
703	CALABARZON (Region IV-A)
704	CALABARZON (Region IV-A)
705	Metropolitan Manila
706	Metropolitan Manila
707	CALABARZON (Region IV-A)
708	Metropolitan Manila
709	Metropolitan Manila
710	CALABARZON (Region IV-A)
711	Metropolitan Manila

712	Metropolitan Manila
713	Metropolitan Manila
714	Metropolitan Manila
715	Metropolitan Manila
716	Metropolitan Manila
717	Central Luzon (Region III)
718	Metropolitan Manila
719	Cordillera Administrative Region (CAR)
720	Metropolitan Manila
721	Metropolitan Manila
722	Metropolitan Manila
723	Metropolitan Manila
724	Metropolitan Manila
725	Metropolitan Manila
726	CALABARZON (Region IV-A)
727	Metropolitan Manila
728	Metropolitan Manila
729	Metropolitan Manila
730	Cordillera Administrative Region (CAR)
731	Metropolitan Manila
732	CALABARZON (Region IV-A)
733	Metropolitan Manila
734	Central Visayas (Region VII)
735	Metropolitan Manila
736	CALABARZON (Region IV-A)
737	Metropolitan Manila
738	CALABARZON (Region IV-A)
739	Metropolitan Manila
740	Metropolitan Manila
741	Metropolitan Manila
742	Metropolitan Manila
743	Metropolitan Manila
744	CALABARZON (Region IV-A)
745	CALABARZON (Region IV-A)
746	Central Visayas (Region VII)
747	Metropolitan Manila
748	Metropolitan Manila
749	Metropolitan Manila
750	CALABARZON (Region IV-A)
751	CALABARZON (Region IV-A)
752	Metropolitan Manila
753	Metropolitan Manila
754	Metropolitan Manila



755	Metropolitan Manila
756	CALABARZON (Region IV-A)
757	Central Luzon (Region III)
758	Metropolitan Manila
759	Metropolitan Manila
760	Metropolitan Manila
761	CALABARZON (Region IV-A)
762	Central Luzon (Region III)
763	CALABARZON (Region IV-A)
764	Metropolitan Manila
765	Metropolitan Manila
766	CALABARZON (Region IV-A)
767	Metropolitan Manila
768	Metropolitan Manila
769	Metropolitan Manila
770	Metropolitan Manila
771	Cordillera Administrative Region (CAR)
772	Metropolitan Manila
773	Eastern Visayas (Region VIII)
774	Metropolitan Manila
775	SOCCSKSARGEN (Region XII)
776	Northern Mindanao (Region X)
777	Metropolitan Manila
778	CALABARZON (Region IV-A)
779	Metropolitan Manila
780	Davao Region (Region XI)
781	Metropolitan Manila
782	Autonomous Region of Muslim Mindanao (ARMM)
783	Metropolitan Manila
784	Eastern Visayas (Region VIII)
785	Metropolitan Manila
786	Metropolitan Manila
787	Metropolitan Manila
788	Metropolitan Manila
789	CALABARZON (Region IV-A)
790	Metropolitan Manila
791	Metropolitan Manila
792	Davao Region (Region XI)
793	Metropolitan Manila
794	CALABARZON (Region IV-A)
795	CALABARZON (Region IV-A)
796	Central Luzon (Region III)
797	Cordillera Administrative Region (CAR)

798	Metropolitan Manila
799	Metropolitan Manila
800	Metropolitan Manila
801	Metropolitan Manila
802	Metropolitan Manila
803	Metropolitan Manila
804	Metropolitan Manila
805	Metropolitan Manila
806	Metropolitan Manila
807	Metropolitan Manila
808	Metropolitan Manila
809	Metropolitan Manila
810	Metropolitan Manila
811	Central Luzon (Region III)
812	Metropolitan Manila
813	Metropolitan Manila
814	Central Luzon (Region III)
815	Metropolitan Manila
816	Cagayan Valley (Region II)
817	Metropolitan Manila
818	Metropolitan Manila
819	Metropolitan Manila
820	Metropolitan Manila
821	Metropolitan Manila
822	Metropolitan Manila
823	Metropolitan Manila
824	CALABARZON (Region IV-A)
825	Metropolitan Manila
826	Metropolitan Manila
827	CALABARZON (Region IV-A)
828	Metropolitan Manila
829	CALABARZON (Region IV-A)
830	Western Visayas (Region VI)
831	Metropolitan Manila
832	Metropolitan Manila
833	Metropolitan Manila
834	Western Visayas (Region VI)
835	Metropolitan Manila
836	Central Luzon (Region III)
837	Ilocos Region (Region I)
838	Metropolitan Manila
839	Metropolitan Manila
840	Metropolitan Manila

841	Metropolitan Manila
842	Metropolitan Manila
843	Metropolitan Manila
844	Metropolitan Manila
845	Central Luzon (Region III)
846	CALABARZON (Region IV-A)
847	Metropolitan Manila
848	Metropolitan Manila
849	Metropolitan Manila
850	Metropolitan Manila
851	Cordillera Administrative Region (CAR)
852	Metropolitan Manila
853	Metropolitan Manila
854	CALABARZON (Region IV-A)
855	Metropolitan Manila
856	Metropolitan Manila
857	CALABARZON (Region IV-A)
858	Central Luzon (Region III)
859	Metropolitan Manila
860	Metropolitan Manila
861	Metropolitan Manila
862	Cagayan Valley (Region II)
863	Central Luzon (Region III)
864	Central Luzon (Region III)
865	Central Luzon (Region III)
866	Central Luzon (Region III)
867	Metropolitan Manila
868	CALABARZON (Region IV-A)
869	Metropolitan Manila
870	Metropolitan Manila
871	Metropolitan Manila
872	Metropolitan Manila
873	CALABARZON (Region IV-A)
874	Metropolitan Manila
875	Metropolitan Manila
876	Metropolitan Manila
877	Metropolitan Manila
878	Metropolitan Manila
879	Central Visayas (Region VII)
880	Central Luzon (Region III)
881	Metropolitan Manila
882	CALABARZON (Region IV-A)
883	Metropolitan Manila

884	Metropolitan Manila
885	Metropolitan Manila
886	CALABARZON (Region IV-A)
887	CALABARZON (Region IV-A)
888	Metropolitan Manila
889	Metropolitan Manila
890	CALABARZON (Region IV-A)
891	Metropolitan Manila
892	Metropolitan Manila
893	Metropolitan Manila
894	Metropolitan Manila
895	Metropolitan Manila
896	Metropolitan Manila
897	CALABARZON (Region IV-A)
898	CALABARZON (Region IV-A)
899	Metropolitan Manila
900	Central Luzon (Region III)
901	Metropolitan Manila
902	Metropolitan Manila
903	Metropolitan Manila
904	Central Luzon (Region III)
905	Metropolitan Manila
906	Metropolitan Manila
907	Central Luzon (Region III)
908	CALABARZON (Region IV-A)
909	Metropolitan Manila
910	Metropolitan Manila
911	Metropolitan Manila
912	Cagayan Valley (Region II)
913	Central Luzon (Region III)
914	Metropolitan Manila
915	CALABARZON (Region IV-A)
916	Metropolitan Manila
917	Metropolitan Manila
918	Metropolitan Manila
919	Central Luzon (Region III)
920	Central Luzon (Region III)
921	Metropolitan Manila
922	Metropolitan Manila
923	Metropolitan Manila
924	CALABARZON (Region IV-A)
925	Metropolitan Manila
926	Metropolitan Manila

927	Metropolitan Manila
928	Metropolitan Manila
929	Metropolitan Manila
930	Central Luzon (Region III)
931	Metropolitan Manila
932	<NA>
933	Bicol Region (Region V)
934	Metropolitan Manila
935	Metropolitan Manila
936	Metropolitan Manila
937	Metropolitan Manila
938	Metropolitan Manila
939	Bicol Region (Region V)
940	CALABARZON (Region IV-A)
941	Metropolitan Manila
942	CALABARZON (Region IV-A)
943	Metropolitan Manila
944	Central Luzon (Region III)
945	Davao Region (Region XI)
946	Metropolitan Manila
947	Metropolitan Manila
948	CALABARZON (Region IV-A)
949	CALABARZON (Region IV-A)
950	Metropolitan Manila
951	CALABARZON (Region IV-A)
952	Metropolitan Manila
953	CALABARZON (Region IV-A)
954	<NA>
955	Metropolitan Manila
956	Metropolitan Manila
957	Metropolitan Manila
958	Metropolitan Manila
959	<NA>
960	Metropolitan Manila
961	Metropolitan Manila
962	Metropolitan Manila
963	Metropolitan Manila
964	Metropolitan Manila
965	Metropolitan Manila
966	Metropolitan Manila
967	Metropolitan Manila
968	Davao Region (Region XI)
969	Metropolitan Manila

970	Metropolitan Manila
971	Central Visayas (Region VII)
972	Metropolitan Manila
973	Metropolitan Manila
974	Central Visayas (Region VII)
975	Metropolitan Manila
976	Metropolitan Manila
977	Metropolitan Manila
978	Metropolitan Manila
979	Central Luzon (Region III)
980	Metropolitan Manila
981	Central Visayas (Region VII)
982	Metropolitan Manila
983	Metropolitan Manila
984	Metropolitan Manila
985	Metropolitan Manila
986	Metropolitan Manila
987	Central Luzon (Region III)
988	Metropolitan Manila
989	Metropolitan Manila
990	Central Luzon (Region III)
991	<NA>
992	Metropolitan Manila
993	Central Luzon (Region III)
994	CALABARZON (Region IV-A)
995	Central Luzon (Region III)
996	Metropolitan Manila
997	Davao Region (Region XI)
998	CALABARZON (Region IV-A)
999	Central Luzon (Region III)
1000	Metropolitan Manila
1001	Central Luzon (Region III)
1002	Central Luzon (Region III)
1003	Metropolitan Manila
1004	Central Luzon (Region III)
1005	Metropolitan Manila
1006	CALABARZON (Region IV-A)
1007	CALABARZON (Region IV-A)
1008	Central Luzon (Region III)
1009	Metropolitan Manila
1010	Central Luzon (Region III)
1011	Metropolitan Manila
1012	Central Luzon (Region III)

1013	Central Luzon (Region III)
1014	Metropolitan Manila
1015	Central Luzon (Region III)
1016	Metropolitan Manila
1017	Metropolitan Manila
1018	Metropolitan Manila
1019	Central Luzon (Region III)
1020	Metropolitan Manila
1021	CALABARZON (Region IV-A)
1022	Metropolitan Manila
1023	Metropolitan Manila
1024	Metropolitan Manila
1025	Central Luzon (Region III)
1026	Metropolitan Manila
1027	Central Luzon (Region III)
1028	Metropolitan Manila
1029	Central Luzon (Region III)
1030	Metropolitan Manila
1031	Central Visayas (Region VII)
1032	Central Visayas (Region VII)
1033	Metropolitan Manila
1034	Metropolitan Manila
1035	Metropolitan Manila
1036	Central Luzon (Region III)
1037	Metropolitan Manila
1038	Metropolitan Manila
1039	Central Luzon (Region III)
1040	Metropolitan Manila
1041	Central Luzon (Region III)
1042	Metropolitan Manila
1043	Metropolitan Manila
1044	Central Visayas (Region VII)
1045	CALABARZON (Region IV-A)
1046	CALABARZON (Region IV-A)
1047	Metropolitan Manila
1048	Metropolitan Manila
1049	Metropolitan Manila
1050	Davao Region (Region XI)
1051	Metropolitan Manila
1052	Metropolitan Manila
1053	Western Visayas (Region VI)
1054	CALABARZON (Region IV-A)
1055	CALABARZON (Region IV-A)

1056	CALABARZON (Region IV-A)
1057	Davao Region (Region XI)
1058	Metropolitan Manila
1059	Metropolitan Manila
1060	Metropolitan Manila
1061	CALABARZON (Region IV-A)
1062	Metropolitan Manila
1063	Metropolitan Manila
1064	Metropolitan Manila
1065	Metropolitan Manila
1066	Metropolitan Manila
1067	Metropolitan Manila
1068	Metropolitan Manila
1069	CALABARZON (Region IV-A)
1070	Central Visayas (Region VII)
1071	Davao Region (Region XI)
1072	Metropolitan Manila
1073	Metropolitan Manila
1074	Metropolitan Manila
1075	Davao Region (Region XI)
1076	Metropolitan Manila
1077	Metropolitan Manila
1078	Cordillera Administrative Region (CAR)
1079	Metropolitan Manila
1080	Metropolitan Manila
1081	CALABARZON (Region IV-A)
1082	Metropolitan Manila
1083	Davao Region (Region XI)
1084	Central Visayas (Region VII)
1085	Metropolitan Manila
1086	Metropolitan Manila
1087	Metropolitan Manila
1088	Cordillera Administrative Region (CAR)
1089	Central Visayas (Region VII)
1090	Central Visayas (Region VII)
1091	Metropolitan Manila
1092	Cordillera Administrative Region (CAR)
1093	Metropolitan Manila
1094	Cordillera Administrative Region (CAR)
1095	MIMAROPA (Region IV-B)
1096	Cordillera Administrative Region (CAR)
1097	Metropolitan Manila
1098	Cordillera Administrative Region (CAR)



1099	Metropolitan Manila
1100	Cordillera Administrative Region (CAR)
1101	Metropolitan Manila
1102	MIMAROPA (Region IV-B)
1103	Western Visayas (Region VI)
1104	Cordillera Administrative Region (CAR)
1105	Cordillera Administrative Region (CAR)
1106	Central Luzon (Region III)
1107	Central Visayas (Region VII)
1108	Cordillera Administrative Region (CAR)
1109	CALABARZON (Region IV-A)
1110	Central Visayas (Region VII)
1111	Metropolitan Manila
1112	Davao Region (Region XI)
1113	Metropolitan Manila
1114	Metropolitan Manila
1115	Metropolitan Manila
1116	Metropolitan Manila
1117	Metropolitan Manila
1118	Metropolitan Manila
1119	Metropolitan Manila
1120	Metropolitan Manila
1121	Metropolitan Manila
1122	Central Visayas (Region VII)
1123	Western Visayas (Region VI)
1124	Davao Region (Region XI)
1125	Davao Region (Region XI)
1126	Metropolitan Manila
1127	Metropolitan Manila
1128	Metropolitan Manila
1129	MIMAROPA (Region IV-B)
1130	Metropolitan Manila
1131	Metropolitan Manila

### 4.8.3 Exercise 2

Provide data from the six oldest members of `fem_rec`.

### 4.8.4 Answer 2

```
head(arrange(fem_rec, desc(age)))
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C719189	90	80+	Female	2020-03-21	<NA>	<NA>
2	C616990	90	80+	Female	2020-04-17	<NA>	<NA>
3	C610398	89	80+	Female	2020-03-28	<NA>	<NA>
4	C478098	87	80+	Female	2020-03-27	<NA>	<NA>
5	C446507	87	80+	Female	2020-03-28	2020-04-01	<NA>
6	C166070	86	80+	Female	2020-03-18	2020-03-30	<NA>

  

	status	date_announced_as_removed	province	muni_city
1	Recovered	2020-05-14	Metropolitan Manila	San Juan
2	Recovered	2020-05-15	Metropolitan Manila	Manila
3	Recovered	2020-04-23	Metropolitan Manila	Parañaque
4	Recovered	2020-05-04	Metropolitan Manila	Makati City
5	Recovered	2020-04-17	Metropolitan Manila	Quezon City
6	Recovered	2020-04-09	Metropolitan Manila	San Juan

  

	health_status	home_quarantined	date_of_onset_of_symptoms	pregnant
1	Recovered	Yes	2020-03-15	No
2	Recovered	Yes	2020-04-04	No
3	Recovered	<NA>	2020-03-20	<NA>
4	Recovered	Yes	2020-03-14	<NA>
5	Recovered	No	2020-03-07	<NA>
6	Recovered	Yes	2020-03-06	<NA>

  

	region
1	Metropolitan Manila
2	Metropolitan Manila
3	Metropolitan Manila
4	Metropolitan Manila
5	Metropolitan Manila
6	Metropolitan Manila

## 4.9 distinct()

`distinct()` finds all the unique rows in a dataset. Most of the time, you'll want the distinct combination of some variables, so you can also optionally supply column names.

## 4.10 Example

### 4.10.1 Example 1

Suppose we want to determine the specific flights (origin, destination) in the `flights` data set.

```
distinct(flights,origin,dest)
distinct(flights,origin,dest,.keep_all=T) ①
```

① This row keeps the other variables in the data set.

```
# A tibble: 224 x 2
  origin dest
  <chr>  <chr>
1 EWR    IAH
2 LGA    IAH
3 JFK    MIA
4 JFK    BQN
5 LGA    ATL
6 EWR    ORD
7 EWR    FLL
8 LGA    IAD
9 JFK    MCO
10 LGA    ORD
# i 214 more rows
# A tibble: 224 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     1     1     517             515           2     830           819
2  2013     1     1     533             529           4     850           830
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     1     1     554             558          -4     740           728
7  2013     1     1     555             600          -5     913           854
8  2013     1     1     557             600          -3     709           723
9  2013     1     1     557             600          -3     838           846
10 2013     1     1     558             600          -2     753           745
# i 214 more rows
# i 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 <dtm>
```

### 4.10.2 Example 2

We can create a data set that includes the unique trips serviced by American Airlines.

```
unique_AA<- filter(flights,carrier=="AA")
unique_dest_AA <- distinct(unique_AA,origin, dest)
unique_dest_AA
```

```
# A tibble: 25 x 2
  origin dest
  <chr>  <chr>
1 JFK    MIA
2 LGA    ORD
3 LGA    DFW
4 EWR    MIA
5 LGA    MIA
6 JFK    SJU
7 JFK    MCO
8 JFK    FLL
9 EWR    DFW
10 JFK    LAX
# i 15 more rows
```

We can use `count()` to count the number of distinct combinations of columns. To count the number of unique American Airlines (`carrier=="AA"`) flight destinations,

```
count(unique_AA,origin,dest,sort=T)
```

```
# A tibble: 25 x 3
  origin dest      n
  <chr>  <chr> <int>
1 LGA    ORD   5694
2 LGA    DFW   4836
3 LGA    MIA   3945
4 JFK    LAX   3217
5 JFK    MIA   2221
6 EWR    DFW   2054
7 JFK    BOS   1455
8 JFK    SFO   1422
9 JFK    SJU   1099
10 EWR    MIA   1068
# i 15 more rows
```

## 4.11 Exercise

### 4.11.1 Exercise 1

Create a data set that includes the distinct province (`province`) and municipality (`muni_city`) in the `case_information` data set. Arrange this data set in alphabetical order.

### 4.11.2 Answer 1

```
target <- distinct(case_information,province,muni_city)
arrange(target,province,muni_city)
```

	province	muni_city
1	Abra	Manabo
2	Abra	Sallapadan
3	Agusan del Norte	Butuan City
4	Aklan	Altavas
5	Aklan	Banga
6	Aklan	Kalibo
7	Aklan	Libacao
8	Aklan	Malay
9	Albay	Bacacay
10	Albay	Camalig
11	Albay	Daraga
12	Albay	Guinobatan
13	Albay	Legazpi City
14	Albay	Ligao City
15	Albay	Tabaco City
16	Antique	Caluya
17	Antique	Hamtic
18	Antique	Laua-An
19	Antique	Pandan
20	Antique	Tobias Fornier
21	Bataan	Abucay
22	Bataan	Bagac
23	Bataan	Balanga City
24	Bataan	Dinalupihan
25	Bataan	Hermosa
26	Bataan	Limay
27	Bataan	Mariveles
28	Bataan	Orani

29	Bataan	Orion
30	Bataan	Pilar
31	Bataan	Samal
32	Batangas	Alitagtag
33	Batangas	Batangas City
34	Batangas	Bauan
35	Batangas	Calaca
36	Batangas	Cuenca
37	Batangas	Ibaan
38	Batangas	Laurel
39	Batangas	Lemery
40	Batangas	Lian
41	Batangas	Lipa City
42	Batangas	Lobo
43	Batangas	Mabini
44	Batangas	Malvar
45	Batangas	Mataas Na Kahoy
46	Batangas	Nasugbu
47	Batangas	Padre Garcia
48	Batangas	Rosario
49	Batangas	San Jose
50	Batangas	San Juan
51	Batangas	San Pascual
52	Batangas	Santo Tomas
53	Batangas	Taal
54	Batangas	Tanauan
55	Benguet	Baguio City
56	Benguet	Bokod
57	Benguet	La Trinidad
58	Bohol	Panglao
59	Bukidnon	Valencia
60	Bulacan	Angat
61	Bulacan	Baliuag
62	Bulacan	Bocaue
63	Bulacan	Bulacan
64	Bulacan	Bustos
65	Bulacan	Calumpit
66	Bulacan	Guiguinto
67	Bulacan	Hagonoy
68	Bulacan	Malolos City
69	Bulacan	Marilao
70	Bulacan	Meycauayan City
71	Bulacan	Norzagaray

72	Bulacan	Obando
73	Bulacan	Pandi
74	Bulacan	Paombong
75	Bulacan	Pulilan
76	Bulacan	San Ildefonso
77	Bulacan	San Jose del Monte City
78	Bulacan	San Miguel
79	Bulacan	San Rafael
80	Bulacan	Santa Maria
81	Cagayan	Baggao
82	Cagayan	Gattaran
83	Cagayan	Piat
84	Cagayan	Tuao
85	Cagayan	Tuguegarao City
86	Camarines Norte	Labo
87	Camarines Sur	Libmanan
88	Camarines Sur	Milaor
89	Camarines Sur	Minalabac
90	Camarines Sur	Naga City
91	Camarines Sur	Pasacao
92	Camarines Sur	Tigaon
93	Camiguin	Mahinog
94	Capiz	Jamindan
95	Capiz	Mambusao
96	Capiz	Roxas City
97	Catanduanes	Virac
98	Cavite	Alfonso
99	Cavite	Amadeo
100	Cavite	Bacoar
101	Cavite	Carmona
102	Cavite	Cavite City
103	Cavite	Dasmariñas
104	Cavite	General Mariano Alvarez
105	Cavite	General Trias
106	Cavite	Imus
107	Cavite	Indang
108	Cavite	Kawit
109	Cavite	Maragondon
110	Cavite	Mendez
111	Cavite	Naic
112	Cavite	Noveleta
113	Cavite	Rosario
114	Cavite	Silang

115	Cavite	Tagaytay City
116	Cavite	Tanza
117	Cavite	Ternate
118	Cavite	Trece Martires City
119	Cebu	Bantayan
120	Cebu	Boljoon
121	Cebu	Carcar
122	Cebu	Catmon
123	Cebu	Cebu City
124	Cebu	Consolacion
125	Cebu	Cordoba
126	Cebu	Daanbantayan
127	Cebu	Dalaguete
128	Cebu	Danao City
129	Cebu	Lapu-Lapu City
130	Cebu	Liloan
131	Cebu	Mandaue City
132	Cebu	Minglanilla
133	Cebu	Naga
134	Cebu	Talisay
135	Compostela Valley	Mawab
136	Compostela Valley	Pantukan
137	Davao Occidental	Malita
138	Davao Oriental	Mati City
139	Davao del Norte	Panabo City
140	Davao del Norte	Tagum City
141	Davao del Sur	Davao City
142	Davao del Sur	Digos City
143	Davao del Sur	Matanao
144	Guimaras	Buenavista
145	Guimaras	Nueva Valencia
146	Ifugao	Lamut
147	Ilocos Norte	Batac City
148	Ilocos Norte	Laoag City
149	Ilocos Norte	Paoay
150	Ilocos Sur	Tagudin
151	Iloilo	Banate
152	Iloilo	Barotac Nuevo
153	Iloilo	Dingle
154	Iloilo	Guimbal
155	Iloilo	Iloilo City
156	Iloilo	Lambunao
157	Iloilo	Miagao



158	Iloilo	Pavia
159	Iloilo	Tigbauan
160	Iloilo	Zarraga
161	Isabela	Alicia
162	Isabela	Cabagan
163	Isabela	Cauayan
164	Isabela	Echague
165	Isabela	San Agustin
166	Isabela	Santiago
167	La Union	Agoo
168	La Union	Bacnotan
169	La Union	Balaoan
170	La Union	Bauang
171	La Union	Burgos
172	La Union	Caba
173	La Union	Naguilian
174	La Union	Pugo
175	La Union	San Fernando
176	La Union	San Juan
177	La Union	Santo Tomas
178	Laguna	Alaminos
179	Laguna	Bay
180	Laguna	Biñan
181	Laguna	Cabuyao
182	Laguna	Calamba
183	Laguna	Calauan
184	Laguna	Cavinti
185	Laguna	Famy
186	Laguna	Kalayaan
187	Laguna	Liliw
188	Laguna	Los Baños
189	Laguna	Lumban
190	Laguna	Magdalena
191	Laguna	Majayjay
192	Laguna	Nagcarlan
193	Laguna	Paete
194	Laguna	Pagsanjan
195	Laguna	Pakil
196	Laguna	Pila
197	Laguna	Rizal
198	Laguna	San Pablo City
199	Laguna	San Pedro
200	Laguna	Santa Cruz

201	Laguna	Santa Maria
202	Laguna	Santa Rosa
203	Laguna	Victoria
204	Lanao del Norte	Iligan City
205	Lanao del Norte	Kapatagan
206	Lanao del Norte	Tubod
207	Lanao del Sur	Marantao
208	Lanao del Sur	Marawi City
209	Leyte	Burauen
210	Maguindanao	Cotabato City
211	Maguindanao	Datu Odin Sinsuat
212	Marinduque	Gasan
213	Marinduque	Mogpog
214	Marinduque	Torrijos
215	Metropolitan Manila	Kalookan City
216	Metropolitan Manila	Las Piñas
217	Metropolitan Manila	Makati City
218	Metropolitan Manila	Malabon
219	Metropolitan Manila	Mandaluyong
220	Metropolitan Manila	Manila
221	Metropolitan Manila	Marikina
222	Metropolitan Manila	Muntinlupa
223	Metropolitan Manila	Navotas
224	Metropolitan Manila	Parañaque
225	Metropolitan Manila	Pasay City
226	Metropolitan Manila	Pasig City
227	Metropolitan Manila	Pateros
228	Metropolitan Manila	Quezon City
229	Metropolitan Manila	San Juan
230	Metropolitan Manila	Taguig
231	Metropolitan Manila	Valenzuela
232	Misamis Occidental	Jimenez
233	Misamis Occidental	Ozamis City
234	Misamis Occidental	Tudela
235	Misamis Oriental	Cagayan de Oro City
236	Negros Occidental	Bacolod City
237	Negros Occidental	Bago City
238	Negros Occidental	Candoni
239	Negros Occidental	Enrique B. Magalona
240	Negros Occidental	Escalante
241	Negros Occidental	Hinigaran
242	Negros Occidental	La Carlota City
243	Negros Occidental	La Castellana

244	Negros Occidental	Silay City
245	Negros Occidental	Talisay
246	Negros Occidental	Valladolid
247	Negros Oriental	Bais City
248	Negros Oriental	Dumaguete City
249	Negros Oriental	Jimalalud
250	Negros Oriental	Tayasan
251	North Cotabato	Kidapawan City
252	North Cotabato	Midsayap
253	Northern Samar	Catarman
254	Nueva Ecija	Cabanatuan City
255	Nueva Ecija	Cabiao
256	Nueva Ecija	Cuyapo
257	Nueva Ecija	Gapan City
258	Nueva Ecija	General Mamerto Natividad
259	Nueva Ecija	Jaen
260	Nueva Ecija	Laur
261	Nueva Ecija	Licab
262	Nueva Ecija	Quezon
263	Nueva Ecija	Rizal
264	Nueva Ecija	San Antonio
265	Nueva Ecija	San Isidro
266	Nueva Ecija	San Leonardo
267	Nueva Ecija	Santa Rosa
268	Nueva Ecija	Talugtug
269	Nueva Ecija	Zaragoza
270	Nueva Vizcaya	Alfonso Castaneda
271	Nueva Vizcaya	Aritao
272	Nueva Vizcaya	Bayombong
273	Nueva Vizcaya	Solano
274	Occidental Mindoro	Magsaysay
275	Occidental Mindoro	Sablayan
276	Occidental Mindoro	San Jose
277	Oriental Mindoro	Bongabong
278	Oriental Mindoro	Calapan City
279	Oriental Mindoro	Gloria
280	Oriental Mindoro	Mansalay
281	Oriental Mindoro	Naujan
282	Oriental Mindoro	Pinamalayan
283	Oriental Mindoro	Puerto Galera
284	Oriental Mindoro	Roxas
285	Oriental Mindoro	Victoria
286	Palawan	Puerto Princesa City

287	Pampanga	Angeles City
288	Pampanga	Apalit
289	Pampanga	Bacolor
290	Pampanga	Candaba
291	Pampanga	Floridablanca
292	Pampanga	Guagua
293	Pampanga	Lubao
294	Pampanga	Mabalacat
295	Pampanga	Macabebe
296	Pampanga	Magalang
297	Pampanga	Mexico
298	Pampanga	Porac
299	Pampanga	San Fernando
300	Pampanga	San Simon
301	Pampanga	Santa Ana
302	Pampanga	Santa Rita
303	Pampanga	Santo Tomas
304	Pampanga	Sasmuan
305	Pangasinan	Alaminos
306	Pangasinan	Asingan
307	Pangasinan	Basista
308	Pangasinan	Bayambang
309	Pangasinan	Binalonan
310	Pangasinan	Dagupan City
311	Pangasinan	Infanta
312	Pangasinan	Laoac
313	Pangasinan	Lingayen
314	Pangasinan	Malasiqui
315	Pangasinan	Manaoag
316	Pangasinan	Rosales
317	Pangasinan	San Carlos City
318	Pangasinan	San Fabian
319	Pangasinan	San Nicolas
320	Pangasinan	Santo Tomas
321	Pangasinan	Urbiztondo
322	Pangasinan	Urdaneta City
323	Quezon	Atimonan
324	Quezon	Calauag
325	Quezon	Candelaria
326	Quezon	Infanta
327	Quezon	Lopez
328	Quezon	Lucban
329	Quezon	Lucena City

330	Quezon	Pagbilao
331	Quezon	Pitogo
332	Quezon	Real
333	Quezon	Sampaloc
334	Quezon	Sariaya
335	Quezon	Tayabas City
336	Quezon	Tiaong
337	Quezon	Unisan
338	Rizal	Angono
339	Rizal	Antipolo City
340	Rizal	Baras
341	Rizal	Binangonan
342	Rizal	Cainta
343	Rizal	Cardona
344	Rizal	Jala-Jala
345	Rizal	Morong
346	Rizal	Rodriguez
347	Rizal	San Mateo
348	Rizal	Tanay
349	Rizal	Taytay
350	Rizal	Teresa
351	Romblon	Concepcion
352	Romblon	San Jose
353	Samar	Calbayog City
354	Samar	Catbalogan City
355	Samar	Tarangnan
356	South Cotabato	Banga
357	South Cotabato	General Santos City
358	South Cotabato	Koronadal City
359	South Cotabato	T'boli
360	Sultan Kudarat	Lambayong
361	Sultan Kudarat	Lutayan
362	Sultan Kudarat	Tacurong City
363	Sulu	Indanan
364	Tarlac	Bamban
365	Tarlac	Camiling
366	Tarlac	Capas
367	Tarlac	Concepcion
368	Tarlac	Gerona
369	Tarlac	Paniqui
370	Tarlac	San Jose
371	Tarlac	Tarlac City
372	Tarlac	Victoria

373	Zambales	Cabangan
374	Zambales	Candelaria
375	Zambales	Castillejos
376	Zambales	Olongapo City
377	Zambales	San Antonio
378	Zambales	San Felipe
379	Zambales	San Marcelino
380	Zambales	Subic
381	Zamboanga del Sur	Aurora
382	Zamboanga del Sur	Dumalinao
383	Zamboanga del Sur	Labangan
384	Zamboanga del Sur	Pagadian City
385	Zamboanga del Sur	Zamboanga City
386	<NA>	<NA>

## 5 Piping |>

### 5.1 Importance of Piping in the tidyverse

Suppose we want to perform multiple sequential filtering, counting, and sorting processes for our data.

As an example, what if we want to create a data frame that includes all delayed flights (`dep_delay > 0`) coming out of the JFK airport arranged by the time of delay in descending order?

#### 5.1.1 Current Methods

```
filtered <- filter(flights, dep_delay > 0 & origin == "JFK")
arrange(filtered, desc(dep_delay))
```

# A tibble: 42,031 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	1	9	641	900	1301	1242	1530
2	2013	6	15	1432	1935	1137	1607	2120
3	2013	9	20	1139	1845	1014	1457	2210
4	2013	7	22	845	1600	1005	1044	1815
5	2013	4	10	1100	1900	960	1342	2211
6	2013	6	27	959	1900	899	1236	2226

```

7 2013      1      1      848          1835      853      1001          1950
8 2013      5     19      713          1700      853      1007          1955
9 2013     12     14      830          1845      825      1210          2154
10 2013      3     18     1020          2100      800      1336           32
# i 42,021 more rows
# i 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 <dtm>

```

OR

```

arrange(filter(flights, dep_delay > 0 & origin == "JFK"), desc(dep_delay))

```

```

# A tibble: 42,031 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     1     9     641           900      1301      1242          1530
2  2013     6    15    1432          1935      1137      1607          2120
3  2013     9    20    1139          1845      1014      1457          2210
4  2013     7    22     845          1600      1005      1044          1815
5  2013     4    10    1100          1900       960      1342          2211
6  2013     6    27     959          1900       899      1236          2226
7  2013     1     1     848          1835       853      1001          1950
8  2013     5    19     713          1700       853      1007          1955
9  2013    12    14     830          1845       825      1210          2154
10 2013     3    18    1020          2100       800      1336           32
# i 42,021 more rows
# i 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 <dtm>

```

### 5.1.2 Piping

```

flights |>
  filter(dep_delay > 0 & origin == "JFK") |>
  arrange(desc(dep_delay))

```

```

# A tibble: 42,031 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      1      9      641          900      1301      1242          1530
2 2013      6     15     1432          1935      1137      1607          2120
3 2013      9     20     1139          1845      1014      1457          2210
4 2013      7     22      845          1600      1005      1044          1815
5 2013      4     10     1100          1900       960      1342          2211
6 2013      6     27      959          1900       899      1236          2226
7 2013      1      1      848          1835       853      1001          1950
8 2013      5     19      713          1700       853      1007          1955
9 2013     12     14      830          1845       825      1210          2154
10 2013      3     18     1020          2100       800      1336           32
# i 42,021 more rows
# i 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 <dtm>

```

## 5.2 Piping

Piping makes coding more efficient when manipulating data.

### i Mechanism

If we have a data set A that we want to perform operations on, the following lines are equivalent to each other

```

filter(A, [BOOLEAN OPERATION])
A |> filter([BOOLEAN OPERATION])

```

## 5.3 Piping in Sequences

### i Mechanism

We can also apply this to sequence of functions.

```

B <- filter(A, [BOOLEAN OPERATION])
C <- distinct(B, Col1, Col2)
count_C <- count(C, Col1)

```

With pipes,



```
A |>
filter([BOOLEAN OPERATION]) |>
distinct(Col1,Col2) |>
count(Col1)
```

## 5.4 Piping Uses

I will be using pipes for the rest of the workshop, but you don't need to.

## 6 Column Operations

### 6.1 Columns

We will discuss three different column specific operations: `rename()`, `select()`, `mutate()`

### 6.2 `rename()`

`rename()` changes the column names and keeps all existing variables.

```
rename(data, [NEWNAME = OLDNAME])
```

### 6.3 Examples

```
flights |>
  rename(tail_number = tailnum)
```

# A tibble: 336,776 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	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
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	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854

```

8 2013      1      1      557           600          -3       709           723
9 2013      1      1      557           600          -3       838           846
10 2013     1      1      558           600          -2       753           745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tail_number <chr>, origin <chr>, dest <chr>, air_time <dbl>,
#   distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

```

flights |>
  rename(destination_airport = dest,
          origin_airport = origin)

```

```

# A tibble: 336,776 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     1     1     517           515           2     830           819
2  2013     1     1     533           529           4     850           830
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     1     1     554           558          -4     740           728
7  2013     1     1     555           600          -5     913           854
8  2013     1     1     557           600          -3     709           723
9  2013     1     1     557           600          -3     838           846
10 2013     1     1     558           600          -2     753           745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin_airport <chr>, destination_airport <chr>,
#   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

```
names(flights)
```

```

[1] "year"          "month"         "day"           "dep_time"
[5] "sched_dep_time" "dep_delay"     "arr_time"      "sched_arr_time"
[9] "arr_delay"      "carrier"       "flight"        "tailnum"
[13] "origin"         "dest"          "air_time"      "distance"
[17] "hour"          "minute"        "time_hour"

```

## 6.4 mutate()

`mutate()` adds new columns that are calculated from the existing columns.

## 6.5 Examples

As an example, we can calculate the average speed of the planes (mph) using the following equation:

$$speed = distance / airtime * 60$$

We can create a new variable called `speed` using the `mutate()` function.

```
flights |>
mutate(speed = distance/air_time*60)
```

```
# A tibble: 336,776 x 20
```

	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	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
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	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854
8	2013	1	1	557	600	-3	709	723
9	2013	1	1	557	600	-3	838	846
10	2013	1	1	558	600	-2	753	745

```
# i 336,766 more rows
```

```
# i 12 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 <dtm>, speed <dbl>
```

## 6.6 Example

Suppose we want to create a variable `late` such that flights that have a positive delay is labeled “Late”, while those with no or negative delay is “NotLate”.

```
flights |>
mutate(late = ifelse(dep_delay > 0, "Late", "NotLate"), .keep="used")
```

```
# A tibble: 336,776 x 2
  dep_delay late
  <dbl> <chr>
1         2 Late
2         4 Late
3         2 Late
4        -1 NotLate
5        -6 NotLate
6        -4 NotLate
7        -5 NotLate
8        -3 NotLate
9        -3 NotLate
10       -2 NotLate
# i 336,766 more rows
```

#### Note

`ifelse` produces an if-else statement based on the condition.

```
ifelse([CONDITION],[CONDITION IF TRUE],[CONDITION IF FALSE])
```

## 6.7 Exercise

### 6.7.1 Exercise 1

Using the `case_information` data set, create a variable `OlderAdult` that has a value “yes” for individuals above 60 years of age, and “no” otherwise. Use

### 6.7.2 Answer 1

```
case_information |>
  mutate(OlderAdult = ifelse(age>60,"yes","no"),.keep="used")
```

	age	OlderAdult
1	38	no
2	44	no
3	60	no
4	48	no
5	62	yes

6	58	no
7	39	no
8	58	no
9	33	no
10	86	yes
11	68	yes
12	57	no
13	59	no
14	70	yes
15	52	no
16	46	no
17	48	no
18	31	no
19	72	yes
20	47	no
21	35	no
22	48	no
23	25	no
24	51	no
25	35	no
26	31	no
27	70	yes
28	60	no
29	65	yes
30	29	no
31	83	yes
32	70	yes
33	43	no
34	30	no
35	55	no
36	58	no
37	73	yes
38	65	yes
39	71	yes
40	67	yes
41	54	no
42	51	no
43	76	yes
44	70	yes
45	28	no
46	48	no
47	54	no
48	67	yes

49	72	yes
50	31	no
51	79	yes
52	27	no
53	60	no
54	33	no
55	35	no
56	50	no
57	41	no
58	40	no
59	33	no
60	70	yes
61	28	no
62	70	yes
63	68	yes
64	46	no
65	40	no
66	26	no
67	61	yes
68	44	no
69	76	yes
70	42	no
71	50	no
72	59	no
73	40	no
74	51	no
75	58	no
76	66	yes
77	45	no
78	68	yes
79	38	no
80	60	no
81	32	no
82	24	no
83	69	yes
84	53	no
85	28	no
86	56	no
87	26	no
88	64	yes
89	48	no
90	48	no
91	39	no

92	48	no
93	64	yes
94	35	no
95	54	no
96	28	no
97	65	yes
98	28	no
99	62	yes
100	66	yes
101	77	yes
102	34	no
103	42	no
104	60	no
105	67	yes
106	33	no
107	32	no
108	38	no
109	50	no
110	55	no
111	31	no
112	45	no
113	66	yes
114	47	no
115	32	no
116	88	yes
117	59	no
118	67	yes
119	68	yes
120	35	no
121	30	no
122	59	no
123	56	no
124	47	no
125	22	no
126	76	yes
127	71	yes
128	30	no
129	25	no
130	28	no
131	69	yes
132	36	no
133	48	no
134	67	yes

135	27	no
136	38	no
137	61	yes
138	41	no
139	29	no
140	13	no
141	64	yes
142	50	no
143	38	no
144	49	no
145	28	no
146	35	no
147	48	no
148	75	yes
149	70	yes
150	54	no
151	39	no
152	30	no
153	28	no
154	58	no
155	72	yes
156	58	no
157	33	no
158	74	yes
159	51	no
160	55	no
161	86	yes
162	49	no
163	28	no
164	29	no
165	78	yes
166	28	no
167	56	no
168	49	no
169	40	no
170	74	yes
171	59	no
172	66	yes
173	51	no
174	23	no
175	53	no
176	41	no
177	75	yes



178	61	yes
179	36	no
180	55	no
181	71	yes
182	82	yes
183	52	no
184	70	yes
185	60	no
186	39	no
187	56	no
188	43	no
189	86	yes
190	78	yes
191	37	no
192	50	no
193	42	no
194	35	no
195	35	no
196	65	yes
197	65	yes
198	75	yes
199	58	no
200	56	no
201	70	yes
202	42	no
203	73	yes
204	74	yes
205	37	no
206	47	no
207	60	no
208	32	no
209	45	no
210	72	yes
211	21	no
212	35	no
213	68	yes
214	55	no
215	26	no
216	81	yes
217	45	no
218	49	no
219	51	no
220	69	yes

221	57	no
222	68	yes
223	31	no
224	54	no
225	26	no
226	36	no
227	33	no
228	73	yes
229	55	no
230	34	no
231	31	no
232	26	no
233	55	no
234	52	no
235	53	no
236	38	no
237	61	yes
238	25	no
239	46	no
240	37	no
241	45	no
242	52	no
243	78	yes
244	44	no
245	68	yes
246	56	no
247	44	no
248	23	no
249	45	no
250	27	no
251	54	no
252	64	yes
253	44	no
254	35	no
255	57	no
256	68	yes
257	45	no
258	73	yes
259	58	no
260	47	no
261	71	yes
262	36	no
263	83	yes

264	59	no
265	41	no
266	50	no
267	64	yes
268	61	yes
269	32	no
270	48	no
271	48	no
272	24	no
273	38	no
274	76	yes
275	44	no
276	61	yes
277	70	yes
278	66	yes
279	56	no
280	68	yes
281	57	no
282	30	no
283	32	no
284	33	no
285	90	yes
286	23	no
287	66	yes
288	63	yes
289	68	yes
290	54	no
291	56	no
292	46	no
293	30	no
294	33	no
295	89	yes
296	31	no
297	72	yes
298	36	no
299	31	no
300	39	no
301	72	yes
302	55	no
303	66	yes
304	28	no
305	43	no
306	70	yes

307	34	no
308	65	yes
309	43	no
310	60	no
311	45	no
312	35	no
313	54	no
314	31	no
315	54	no
316	49	no
317	22	no
318	27	no
319	31	no
320	52	no
321	42	no
322	63	yes
323	67	yes
324	62	yes
325	28	no
326	38	no
327	23	no
328	50	no
329	49	no
330	35	no
331	68	yes
332	72	yes
333	74	yes
334	64	yes
335	50	no
336	67	yes
337	51	no
338	29	no
339	78	yes
340	75	yes
341	68	yes
342	63	yes
343	46	no
344	51	no
345	53	no
346	31	no
347	69	yes
348	46	no
349	55	no

350	57	no
351	63	yes
352	23	no
353	45	no
354	41	no
355	62	yes
356	56	no
357	26	no
358	26	no
359	35	no
360	67	yes
361	30	no
362	59	no
363	52	no
364	49	no
365	67	yes
366	44	no
367	46	no
368	56	no
369	80	yes
370	20	no
371	57	no
372	58	no
373	34	no
374	64	yes
375	24	no
376	72	yes
377	56	no
378	40	no
379	32	no
380	34	no
381	28	no
382	64	yes
383	32	no
384	70	yes
385	53	no
386	61	yes
387	30	no
388	32	no
389	50	no
390	75	yes
391	53	no
392	58	no

393	58	no
394	84	yes
395	74	yes
396	45	no
397	60	no
398	52	no
399	54	no
400	56	no
401	57	no
402	26	no
403	81	yes
404	28	no
405	42	no
406	62	yes
407	65	yes
408	64	yes
409	51	no
410	74	yes
411	50	no
412	26	no
413	60	no
414	43	no
415	20	no
416	56	no
417	21	no
418	45	no
419	33	no
420	30	no
421	70	yes
422	76	yes
423	37	no
424	56	no
425	63	yes
426	29	no
427	26	no
428	76	yes
429	73	yes
430	64	yes
431	71	yes
432	62	yes
433	32	no
434	25	no
435	71	yes

436	64	yes
437	49	no
438	51	no
439	66	yes
440	57	no
441	65	yes
442	64	yes
443	53	no
444	61	yes
445	21	no
446	80	yes
447	63	yes
448	71	yes
449	69	yes
450	67	yes
451	71	yes
452	57	no
453	52	no
454	62	yes
455	49	no
456	69	yes
457	29	no
458	49	no
459	55	no
460	64	yes
461	56	no
462	64	yes
463	54	no
464	35	no
465	50	no
466	54	no
467	49	no
468	63	yes
469	56	no
470	32	no
471	61	yes
472	56	no
473	32	no
474	63	yes
475	67	yes
476	69	yes
477	62	yes
478	38	no

479	40	no
480	27	no
481	56	no
482	71	yes
483	22	no
484	65	yes
485	33	no
486	55	no
487	61	yes
488	68	yes
489	40	no
490	70	yes
491	69	yes
492	59	no
493	50	no
494	54	no
495	34	no
496	20	no
497	52	no
498	39	no
499	76	yes
500	62	yes
501	24	no
502	39	no
503	25	no
504	39	no
505	55	no
506	30	no
507	54	no
508	63	yes
509	32	no
510	79	yes
511	59	no
512	67	yes
513	55	no
514	49	no
515	41	no
516	33	no
517	31	no
518	21	no
519	51	no
520	53	no
521	73	yes



522	51	no
523	75	yes
524	50	no
525	40	no
526	48	no
527	56	no
528	82	yes
529	75	yes
530	70	yes
531	66	yes
532	39	no
533	61	yes
534	55	no
535	28	no
536	35	no
537	75	yes
538	57	no
539	70	yes
540	83	yes
541	50	no
542	74	yes
543	45	no
544	20	no
545	47	no
546	64	yes
547	63	yes
548	86	yes
549	47	no
550	45	no
551	39	no
552	62	yes
553	34	no
554	71	yes
555	46	no
556	60	no
557	30	no
558	24	no
559	80	yes
560	68	yes
561	47	no
562	21	no
563	53	no
564	28	no

565	25	no
566	32	no
567	68	yes
568	54	no
569	37	no
570	27	no
571	27	no
572	71	yes
573	58	no
574	58	no
575	72	yes
576	58	no
577	56	no
578	55	no
579	38	no
580	76	yes
581	58	no
582	70	yes
583	52	no
584	70	yes
585	50	no
586	78	yes
587	25	no
588	63	yes
589	34	no
590	29	no
591	62	yes
592	62	yes
593	55	no
594	79	yes
595	58	no
596	61	yes
597	61	yes
598	55	no
599	56	no
600	64	yes
601	63	yes
602	47	no
603	73	yes
604	79	yes
605	50	no
606	55	no
607	51	no

608	42	no
609	57	no
610	50	no
611	59	no
612	43	no
613	61	yes
614	74	yes
615	39	no
616	67	yes
617	70	yes
618	73	yes
619	56	no
620	60	no
621	58	no
622	49	no
623	29	no
624	72	yes
625	46	no
626	28	no
627	65	yes
628	55	no
629	37	no
630	68	yes
631	87	yes
632	34	no
633	66	yes
634	68	yes
635	54	no
636	52	no
637	46	no
638	68	yes
639	67	yes
640	35	no
641	64	yes
642	27	no
643	50	no
644	55	no
645	74	yes
646	52	no
647	33	no
648	61	yes
649	71	yes
650	53	no

651	57	no
652	31	no
653	39	no
654	62	yes
655	34	no
656	89	yes
657	62	yes
658	60	no
659	74	yes
660	81	yes
661	70	yes
662	61	yes
663	69	yes
664	40	no
665	33	no
666	60	no
667	60	no
668	58	no
669	69	yes
670	43	no
671	52	no
672	71	yes
673	31	no
674	58	no
675	26	no
676	80	yes
677	66	yes
678	57	no
679	46	no
680	68	yes
681	72	yes
682	69	yes
683	71	yes
684	39	no
685	75	yes
686	76	yes
687	64	yes
688	93	yes
689	53	no
690	64	yes
691	55	no
692	61	yes
693	44	no

694	56	no
695	71	yes
696	82	yes
697	61	yes
698	63	yes
699	56	no
700	67	yes
701	30	no
702	61	yes
703	73	yes
704	75	yes
705	59	no
706	67	yes
707	33	no
708	48	no
709	62	yes
710	40	no
711	46	no
712	38	no
713	86	yes
714	51	no
715	73	yes
716	65	yes
717	65	yes
718	65	yes
719	51	no
720	40	no
721	59	no
722	75	yes
723	67	yes
724	67	yes
725	31	no
726	78	yes
727	25	no
728	32	no
729	53	no
730	71	yes
731	61	yes
732	41	no
733	38	no
734	38	no
735	33	no
736	66	yes

737	70	yes
738	55	no
739	53	no
740	78	yes
741	58	no
742	46	no
743	75	yes
744	41	no
745	66	yes
746	59	no
747	42	no
748	43	no
749	36	no
750	38	no
751	89	yes
752	28	no
753	37	no
754	54	no
755	87	yes
756	39	no
757	48	no
758	96	yes
759	74	yes
760	50	no
761	74	yes
762	33	no
763	67	yes
764	32	no
765	89	yes
766	51	no
767	24	no
768	56	no
769	59	no
770	53	no
771	67	yes
772	26	no
773	70	yes
774	53	no
775	72	yes
776	58	no
777	30	no
778	64	yes
779	39	no

780	64	yes
781	31	no
782	76	yes
783	60	no
784	49	no
785	55	no
786	70	yes
787	82	yes
788	44	no
789	59	no
790	69	yes
791	61	yes
792	68	yes
793	61	yes
794	52	no
795	43	no
796	55	no
797	71	yes
798	77	yes
799	70	yes
800	66	yes
801	63	yes
802	67	yes
803	77	yes
804	35	no
805	53	no
806	36	no
807	59	no
808	30	no
809	31	no
810	80	yes
811	62	yes
812	31	no
813	58	no
814	33	no
815	60	no
816	63	yes
817	42	no
818	55	no
819	52	no
820	57	no
821	60	no
822	50	no

823	83	yes
824	80	yes
825	26	no
826	75	yes
827	44	no
828	38	no
829	84	yes
830	52	no
831	35	no
832	75	yes
833	39	no
834	54	no
835	33	no
836	68	yes
837	38	no
838	42	no
839	67	yes
840	56	no
841	60	no
842	49	no
843	54	no
844	38	no
845	58	no
846	22	no
847	52	no
848	46	no
849	2	no
850	56	no
851	51	no
852	52	no
853	81	yes
854	68	yes
855	76	yes
856	54	no
857	51	no
858	57	no
859	70	yes
860	65	yes
861	68	yes
862	72	yes
863	59	no
864	85	yes
865	68	yes



866	46	no
867	59	no
868	62	yes
869	28	no
870	53	no
871	43	no
872	61	yes
873	44	no
874	73	yes
875	57	no
876	66	yes
877	40	no
878	63	yes
879	31	no
880	58	no
881	56	no
882	81	yes
883	20	no
884	56	no
885	44	no
886	57	no
887	53	no
888	66	yes
889	65	yes
890	57	no
891	54	no
892	23	no
893	57	no
894	50	no
895	34	no
896	75	yes
897	77	yes
898	35	no
899	74	yes
900	57	no
901	29	no
902	38	no
903	39	no
904	38	no
905	48	no
906	37	no
907	59	no
908	53	no

909	42	no
910	23	no
911	52	no
912	31	no
913	54	no
914	81	yes
915	40	no
916	70	yes
917	70	yes
918	84	yes
919	50	no
920	87	yes
921	74	yes
922	83	yes
923	37	no
924	37	no
925	65	yes
926	72	yes
927	6	no
928	85	yes
929	40	no
930	76	yes
931	56	no
932	38	no
933	75	yes
934	32	no
935	81	yes
936	53	no
937	17	no
938	71	yes
939	71	yes
940	54	no
941	51	no
942	65	yes
943	82	yes
944	68	yes
945	58	no
946	58	no
947	67	yes
948	39	no
949	65	yes
950	60	no
951	30	no

952	53	no
953	29	no
954	71	yes
955	47	no
956	63	yes
957	74	yes
958	53	no
959	33	no
960	71	yes
961	89	yes
962	75	yes
963	52	no
964	53	no
965	51	no
966	81	yes
967	64	yes
968	54	no
969	33	no
970	55	no
971	24	no
972	71	yes
973	49	no
974	47	no
975	65	yes
976	41	no
977	27	no
978	54	no
979	33	no
980	58	no
981	71	yes
982	46	no
983	72	yes
984	82	yes
985	32	no
986	61	yes
987	49	no
988	51	no
989	83	yes
990	46	no
991	56	no
992	78	yes
993	68	yes
994	67	yes

995	51	no
996	47	no
997	47	no
998	79	yes
999	37	no
1000	62	yes
1001	88	yes
1002	31	no
1003	18	no
1004	67	yes
1005	69	yes
1006	32	no
1007	65	yes
1008	66	yes
1009	72	yes
1010	79	yes
1011	54	no
1012	64	yes
1013	31	no
1014	57	no
1015	58	no
1016	51	no
1017	58	no
1018	65	yes
1019	69	yes
1020	72	yes
1021	75	yes
1022	57	no
1023	68	yes
1024	82	yes
1025	62	yes
1026	40	no
1027	60	no
1028	61	yes
1029	26	no
1030	29	no
1031	66	yes
1032	60	no
1033	69	yes
1034	69	yes
1035	65	yes
1036	42	no
1037	72	yes

1038	81	yes
1039	46	no
1040	21	no
1041	38	no
1042	62	yes
1043	55	no
1044	32	no
1045	66	yes
1046	63	yes
1047	67	yes
1048	73	yes
1049	61	yes
1050	55	no
1051	41	no
1052	29	no
1053	53	no
1054	45	no
1055	42	no
1056	52	no
1057	72	yes
1058	32	no
1059	50	no
1060	68	yes
1061	63	yes
1062	32	no
1063	60	no
1064	65	yes
1065	57	no
1066	30	no
1067	47	no
1068	22	no
1069	57	no
1070	41	no
1071	65	yes
1072	34	no
1073	84	yes
1074	76	yes
1075	33	no
1076	58	no
1077	70	yes
1078	60	no
1079	58	no
1080	52	no

1081	64	yes
1082	55	no
1083	57	no
1084	52	no
1085	29	no
1086	63	yes
1087	65	yes
1088	53	no
1089	28	no
1090	32	no
1091	62	yes
1092	65	yes
1093	44	no
1094	67	yes
1095	63	yes
1096	36	no
1097	36	no
1098	30	no
1099	49	no
1100	54	no
1101	53	no
1102	40	no
1103	49	no
1104	63	yes
1105	26	no
1106	82	yes
1107	62	yes
1108	52	no
1109	64	yes
1110	34	no
1111	35	no
1112	66	yes
1113	64	yes
1114	33	no
1115	47	no
1116	66	yes
1117	57	no
1118	52	no
1119	77	yes
1120	46	no
1121	64	yes
1122	58	no
1123	52	no

1124	70	yes
1125	28	no
1126	83	yes
1127	73	yes
1128	65	yes
1129	53	no
1130	53	no
1131	40	no
1132	66	yes
1133	18	no
1134	59	no
1135	57	no
1136	60	no
1137	64	yes
1138	65	yes
1139	48	no
1140	26	no
1141	35	no
1142	73	yes
1143	34	no
1144	64	yes
1145	41	no
1146	42	no
1147	53	no
1148	61	yes
1149	46	no
1150	50	no
1151	37	no
1152	36	no
1153	74	yes
1154	33	no
1155	27	no
1156	54	no
1157	60	no
1158	21	no
1159	2	no
1160	62	yes
1161	75	yes
1162	48	no
1163	35	no
1164	70	yes
1165	48	no
1166	53	no

1167	37	no
1168	60	no
1169	58	no
1170	80	yes
1171	44	no
1172	41	no
1173	28	no
1174	74	yes
1175	64	yes
1176	30	no
1177	65	yes
1178	51	no
1179	55	no
1180	34	no
1181	83	yes
1182	79	yes
1183	25	no
1184	43	no
1185	32	no
1186	55	no
1187	41	no
1188	68	yes
1189	28	no
1190	77	yes
1191	81	yes
1192	86	yes
1193	69	yes
1194	61	yes
1195	74	yes
1196	57	no
1197	29	no
1198	76	yes
1199	32	no
1200	23	no
1201	39	no
1202	61	yes
1203	59	no
1204	52	no
1205	39	no
1206	22	no
1207	39	no
1208	32	no
1209	32	no



1210	64	yes
1211	57	no
1212	67	yes
1213	63	yes
1214	28	no
1215	70	yes
1216	83	yes
1217	49	no
1218	65	yes
1219	65	yes
1220	55	no
1221	74	yes
1222	63	yes
1223	57	no
1224	68	yes
1225	47	no
1226	66	yes
1227	61	yes
1228	60	no
1229	61	yes
1230	39	no
1231	57	no
1232	69	yes
1233	57	no
1234	61	yes
1235	40	no
1236	66	yes
1237	33	no
1238	68	yes
1239	46	no
1240	57	no
1241	45	no
1242	27	no
1243	29	no
1244	56	no
1245	38	no
1246	61	yes
1247	45	no
1248	38	no
1249	76	yes
1250	78	yes
1251	93	yes
1252	30	no

1253	27	no
1254	72	yes
1255	60	no
1256	52	no
1257	27	no
1258	77	yes
1259	58	no
1260	60	no
1261	56	no
1262	52	no
1263	68	yes
1264	74	yes
1265	30	no
1266	76	yes
1267	55	no
1268	68	yes
1269	66	yes
1270	52	no
1271	93	yes
1272	43	no
1273	52	no
1274	49	no
1275	57	no
1276	63	yes
1277	85	yes
1278	70	yes
1279	54	no
1280	23	no
1281	42	no
1282	56	no
1283	63	yes
1284	61	yes
1285	39	no
1286	41	no
1287	64	yes
1288	55	no
1289	30	no
1290	29	no
1291	63	yes
1292	64	yes
1293	70	yes
1294	23	no
1295	69	yes

1296	46	no
1297	81	yes
1298	63	yes
1299	34	no
1300	50	no
1301	19	no
1302	49	no
1303	49	no
1304	63	yes
1305	72	yes
1306	38	no
1307	32	no
1308	5	no
1309	60	no
1310	51	no
1311	30	no
1312	62	yes
1313	86	yes
1314	57	no
1315	63	yes
1316	35	no
1317	68	yes
1318	49	no
1319	43	no
1320	34	no
1321	61	yes
1322	79	yes
1323	33	no
1324	38	no
1325	30	no
1326	26	no
1327	63	yes
1328	68	yes
1329	37	no
1330	73	yes
1331	65	yes
1332	36	no
1333	52	no
1334	55	no
1335	26	no
1336	49	no
1337	75	yes
1338	73	yes

1339	52	no
1340	60	no
1341	41	no
1342	79	yes
1343	74	yes
1344	67	yes
1345	55	no
1346	77	yes
1347	75	yes
1348	29	no
1349	66	yes
1350	52	no
1351	30	no
1352	99	yes
1353	62	yes
1354	89	yes
1355	29	no
1356	41	no
1357	82	yes
1358	67	yes
1359	61	yes
1360	62	yes
1361	56	no
1362	61	yes
1363	70	yes
1364	68	yes
1365	66	yes
1366	61	yes
1367	68	yes
1368	61	yes
1369	32	no
1370	54	no
1371	45	no
1372	48	no
1373	27	no
1374	61	yes
1375	45	no
1376	41	no
1377	30	no
1378	62	yes
1379	69	yes
1380	49	no
1381	69	yes

1382	60	no
1383	28	no
1384	61	yes
1385	64	yes
1386	47	no
1387	32	no
1388	59	no
1389	63	yes
1390	37	no
1391	67	yes
1392	49	no
1393	56	no
1394	56	no
1395	66	yes
1396	65	yes
1397	67	yes
1398	70	yes
1399	56	no
1400	44	no
1401	34	no
1402	32	no
1403	59	no
1404	35	no
1405	73	yes
1406	46	no
1407	51	no
1408	65	yes
1409	75	yes
1410	62	yes
1411	77	yes
1412	78	yes
1413	55	no
1414	62	yes
1415	68	yes
1416	69	yes
1417	65	yes
1418	80	yes
1419	72	yes
1420	65	yes
1421	64	yes
1422	40	no
1423	85	yes
1424	46	no

1425	40	no
1426	67	yes
1427	56	no
1428	60	no
1429	61	yes
1430	59	no
1431	61	yes
1432	49	no
1433	31	no
1434	67	yes
1435	47	no
1436	45	no
1437	68	yes
1438	73	yes
1439	60	no
1440	61	yes
1441	56	no
1442	32	no
1443	38	no
1444	45	no
1445	60	no
1446	64	yes
1447	53	no
1448	67	yes
1449	69	yes
1450	70	yes
1451	40	no
1452	28	no
1453	51	no
1454	61	yes
1455	51	no
1456	57	no
1457	53	no
1458	72	yes
1459	69	yes
1460	47	no
1461	65	yes
1462	55	no
1463	69	yes
1464	62	yes
1465	42	no
1466	42	no
1467	60	no

1468	36	no
1469	52	no
1470	42	no
1471	86	yes
1472	21	no
1473	77	yes
1474	71	yes
1475	54	no
1476	58	no
1477	52	no
1478	48	no
1479	52	no
1480	58	no
1481	45	no
1482	55	no
1483	23	no
1484	57	no
1485	49	no
1486	27	no
1487	89	yes
1488	43	no
1489	38	no
1490	63	yes
1491	63	yes
1492	48	no
1493	67	yes
1494	60	no
1495	42	no
1496	52	no
1497	36	no
1498	71	yes
1499	50	no
1500	56	no
1501	64	yes
1502	28	no
1503	31	no
1504	36	no
1505	90	yes
1506	57	no
1507	60	no
1508	57	no
1509	37	no
1510	51	no

1511	51	no
1512	41	no
1513	31	no
1514	69	yes
1515	72	yes
1516	84	yes
1517	32	no
1518	52	no
1519	44	no
1520	27	no
1521	30	no
1522	68	yes
1523	46	no
1524	82	yes
1525	61	yes
1526	57	no
1527	53	no
1528	52	no
1529	27	no
1530	74	yes
1531	37	no
1532	42	no
1533	35	no
1534	34	no
1535	61	yes
1536	23	no
1537	31	no
1538	31	no
1539	68	yes
1540	28	no
1541	67	yes
1542	52	no
1543	74	yes
1544	53	no
1545	59	no
1546	59	no
1547	47	no
1548	35	no
1549	81	yes
1550	58	no
1551	58	no
1552	68	yes
1553	63	yes



1554	62	yes
1555	75	yes
1556	76	yes
1557	59	no
1558	44	no
1559	60	no
1560	65	yes
1561	70	yes
1562	59	no
1563	60	no
1564	54	no
1565	42	no
1566	53	no
1567	76	yes
1568	75	yes
1569	63	yes
1570	43	no
1571	45	no
1572	64	yes
1573	41	no
1574	52	no
1575	65	yes
1576	68	yes
1577	84	yes
1578	67	yes
1579	74	yes
1580	74	yes
1581	64	yes
1582	54	no
1583	46	no
1584	25	no
1585	77	yes
1586	23	no
1587	61	yes
1588	55	no
1589	31	no
1590	66	yes
1591	67	yes
1592	56	no
1593	50	no
1594	51	no
1595	34	no
1596	29	no

1597	50	no
1598	34	no
1599	55	no
1600	50	no
1601	42	no
1602	53	no
1603	79	yes
1604	44	no
1605	26	no
1606	78	yes
1607	33	no
1608	50	no
1609	40	no
1610	50	no
1611	4	no
1612	60	no
1613	77	yes
1614	37	no
1615	76	yes
1616	51	no
1617	58	no
1618	61	yes
1619	64	yes
1620	72	yes
1621	59	no
1622	58	no
1623	60	no
1624	51	no
1625	55	no
1626	44	no
1627	38	no
1628	81	yes
1629	21	no
1630	30	no
1631	85	yes
1632	55	no
1633	43	no
1634	55	no
1635	49	no
1636	64	yes
1637	28	no
1638	56	no
1639	31	no

1640	33	no
1641	23	no
1642	70	yes
1643	50	no
1644	50	no
1645	48	no
1646	41	no
1647	68	yes
1648	63	yes
1649	25	no
1650	25	no
1651	49	no
1652	49	no
1653	66	yes
1654	62	yes
1655	70	yes
1656	63	yes
1657	41	no
1658	76	yes
1659	31	no
1660	48	no
1661	60	no
1662	29	no
1663	85	yes
1664	78	yes
1665	57	no
1666	54	no
1667	40	no
1668	72	yes
1669	31	no
1670	61	yes
1671	29	no
1672	76	yes
1673	30	no
1674	36	no
1675	59	no
1676	70	yes
1677	62	yes
1678	40	no
1679	21	no
1680	55	no
1681	37	no
1682	50	no

1683	46	no
1684	29	no
1685	51	no
1686	52	no
1687	62	yes
1688	54	no
1689	66	yes
1690	73	yes
1691	40	no
1692	56	no
1693	69	yes
1694	85	yes
1695	78	yes
1696	49	no
1697	85	yes
1698	45	no
1699	44	no
1700	80	yes
1701	75	yes
1702	51	no
1703	75	yes
1704	78	yes
1705	62	yes
1706	49	no
1707	67	yes
1708	22	no
1709	29	no
1710	58	no
1711	59	no
1712	66	yes
1713	67	yes
1714	68	yes
1715	71	yes
1716	65	yes
1717	34	no
1718	79	yes
1719	47	no
1720	38	no
1721	67	yes
1722	46	no
1723	33	no
1724	48	no
1725	42	no

1726	38	no
1727	66	yes
1728	39	no
1729	55	no
1730	56	no
1731	56	no
1732	25	no
1733	28	no
1734	51	no
1735	53	no
1736	63	yes
1737	31	no
1738	75	yes
1739	60	no
1740	53	no
1741	62	yes
1742	67	yes
1743	40	no
1744	72	yes
1745	83	yes
1746	49	no
1747	68	yes
1748	62	yes
1749	81	yes
1750	49	no
1751	72	yes
1752	50	no
1753	58	no
1754	61	yes
1755	38	no
1756	62	yes
1757	36	no
1758	70	yes
1759	64	yes
1760	72	yes
1761	64	yes
1762	48	no
1763	52	no
1764	54	no
1765	77	yes
1766	35	no
1767	68	yes
1768	70	yes

1769	71	yes
1770	42	no
1771	70	yes
1772	61	yes
1773	26	no
1774	69	yes
1775	59	no
1776	74	yes
1777	54	no
1778	61	yes
1779	81	yes
1780	68	yes
1781	71	yes
1782	42	no
1783	60	no
1784	64	yes
1785	64	yes
1786	32	no
1787	64	yes
1788	63	yes
1789	52	no
1790	65	yes
1791	55	no
1792	71	yes
1793	23	no
1794	42	no
1795	66	yes
1796	51	no
1797	54	no
1798	47	no
1799	72	yes
1800	53	no
1801	61	yes
1802	69	yes
1803	65	yes
1804	57	no
1805	54	no
1806	40	no
1807	50	no
1808	52	no
1809	63	yes
1810	49	no
1811	72	yes

1812	83	yes
1813	55	no
1814	61	yes
1815	69	yes
1816	40	no
1817	31	no
1818	69	yes
1819	39	no
1820	37	no
1821	70	yes
1822	34	no
1823	77	yes
1824	50	no
1825	74	yes
1826	66	yes
1827	87	yes
1828	73	yes
1829	67	yes
1830	64	yes
1831	58	no
1832	67	yes
1833	81	yes
1834	30	no
1835	55	no
1836	66	yes
1837	38	no
1838	67	yes
1839	73	yes
1840	54	no
1841	60	no
1842	32	no
1843	84	yes
1844	50	no
1845	47	no
1846	49	no
1847	59	no
1848	48	no
1849	68	yes
1850	77	yes
1851	88	yes
1852	64	yes
1853	63	yes
1854	67	yes

1855	68	yes
1856	70	yes
1857	29	no
1858	71	yes
1859	53	no
1860	69	yes
1861	66	yes
1862	65	yes
1863	57	no
1864	45	no
1865	62	yes
1866	36	no
1867	61	yes
1868	59	no
1869	73	yes
1870	73	yes
1871	71	yes
1872	67	yes
1873	39	no
1874	60	no
1875	70	yes
1876	64	yes
1877	75	yes
1878	68	yes
1879	49	no
1880	71	yes
1881	70	yes
1882	34	no
1883	46	no
1884	73	yes
1885	49	no
1886	44	no
1887	37	no
1888	58	no
1889	6	no
1890	84	yes
1891	24	no
1892	87	yes
1893	22	no
1894	26	no
1895	52	no
1896	75	yes
1897	75	yes



1898	45	no
1899	61	yes
1900	91	yes
1901	53	no
1902	32	no
1903	70	yes
1904	68	yes
1905	27	no
1906	72	yes
1907	44	no
1908	68	yes
1909	61	yes
1910	67	yes
1911	46	no
1912	71	yes
1913	70	yes
1914	62	yes
1915	56	no
1916	66	yes
1917	77	yes
1918	31	no
1919	52	no
1920	44	no
1921	49	no
1922	38	no
1923	79	yes
1924	79	yes
1925	29	no
1926	53	no
1927	32	no
1928	79	yes
1929	72	yes
1930	71	yes
1931	62	yes
1932	44	no
1933	72	yes
1934	45	no
1935	40	no
1936	73	yes
1937	43	no
1938	55	no
1939	63	yes
1940	59	no

1941	72	yes
1942	37	no
1943	63	yes
1944	58	no
1945	37	no
1946	38	no
1947	66	yes
1948	43	no
1949	45	no
1950	41	no
1951	18	no
1952	61	yes
1953	63	yes
1954	59	no
1955	78	yes
1956	64	yes
1957	49	no
1958	72	yes
1959	68	yes
1960	70	yes
1961	59	no
1962	59	no
1963	44	no
1964	62	yes
1965	46	no
1966	49	no
1967	80	yes
1968	45	no
1969	33	no
1970	45	no
1971	71	yes
1972	72	yes
1973	57	no
1974	69	yes
1975	71	yes
1976	86	yes
1977	72	yes
1978	76	yes
1979	85	yes
1980	51	no
1981	42	no
1982	71	yes
1983	73	yes

1984	32	no
1985	67	yes
1986	62	yes
1987	61	yes
1988	85	yes
1989	73	yes
1990	53	no
1991	24	no
1992	33	no
1993	44	no
1994	51	no
1995	61	yes
1996	60	no
1997	65	yes
1998	46	no
1999	62	yes
2000	59	no
2001	59	no
2002	57	no
2003	52	no
2004	59	no
2005	35	no
2006	54	no
2007	50	no
2008	63	yes
2009	36	no
2010	76	yes
2011	47	no
2012	56	no
2013	75	yes
2014	46	no
2015	59	no
2016	0	no
2017	48	no
2018	55	no
2019	69	yes
2020	41	no
2021	83	yes
2022	82	yes
2023	80	yes
2024	65	yes
2025	34	no
2026	63	yes

2027	64	yes
2028	77	yes
2029	54	no
2030	53	no
2031	26	no
2032	65	yes
2033	63	yes
2034	31	no
2035	20	no
2036	28	no
2037	39	no
2038	74	yes
2039	37	no
2040	62	yes
2041	50	no
2042	72	yes
2043	52	no
2044	32	no
2045	27	no
2046	43	no
2047	62	yes
2048	61	yes
2049	56	no
2050	36	no
2051	67	yes
2052	69	yes
2053	67	yes
2054	63	yes
2055	71	yes
2056	67	yes
2057	48	no
2058	57	no
2059	75	yes
2060	62	yes
2061	36	no
2062	39	no
2063	70	yes
2064	58	no
2065	56	no
2066	70	yes
2067	63	yes
2068	67	yes
2069	72	yes

2070	54	no
2071	62	yes
2072	27	no
2073	63	yes
2074	67	yes
2075	50	no
2076	80	yes
2077	38	no
2078	54	no
2079	43	no
2080	64	yes
2081	78	yes
2082	28	no
2083	64	yes
2084	44	no
2085	43	no
2086	54	no
2087	68	yes
2088	78	yes
2089	70	yes
2090	68	yes
2091	66	yes
2092	48	no
2093	70	yes
2094	22	no
2095	66	yes
2096	57	no
2097	36	no
2098	33	no
2099	31	no
2100	24	no
2101	55	no
2102	54	no
2103	60	no
2104	37	no
2105	38	no
2106	65	yes
2107	60	no
2108	21	no
2109	65	yes
2110	37	no
2111	29	no
2112	71	yes

2113	51	no
2114	29	no
2115	43	no
2116	26	no
2117	15	no
2118	62	yes
2119	48	no
2120	37	no
2121	62	yes
2122	45	no
2123	59	no
2124	30	no
2125	63	yes
2126	23	no
2127	38	no
2128	59	no
2129	58	no
2130	35	no
2131	46	no
2132	36	no
2133	21	no
2134	49	no
2135	61	yes
2136	30	no
2137	54	no
2138	68	yes
2139	81	yes
2140	21	no
2141	54	no
2142	37	no
2143	68	yes
2144	34	no
2145	27	no
2146	70	yes
2147	64	yes
2148	41	no
2149	29	no
2150	14	no
2151	58	no
2152	39	no
2153	46	no
2154	49	no
2155	24	no

2156	63	yes
2157	68	yes
2158	53	no
2159	74	yes
2160	28	no
2161	48	no
2162	54	no
2163	36	no
2164	72	yes
2165	69	yes
2166	37	no
2167	68	yes
2168	53	no
2169	73	yes
2170	79	yes
2171	71	yes
2172	46	no
2173	40	no
2174	84	yes
2175	60	no
2176	50	no
2177	44	no
2178	72	yes
2179	53	no
2180	34	no
2181	56	no
2182	59	no
2183	67	yes
2184	51	no
2185	80	yes
2186	55	no
2187	47	no
2188	60	no
2189	78	yes
2190	43	no
2191	26	no
2192	46	no
2193	13	no
2194	67	yes
2195	63	yes
2196	69	yes
2197	42	no
2198	43	no

2199	23	no
2200	66	yes
2201	29	no
2202	43	no
2203	0	no
2204	42	no
2205	47	no
2206	67	yes
2207	32	no
2208	45	no
2209	55	no
2210	67	yes
2211	32	no
2212	32	no
2213	36	no
2214	80	yes
2215	22	no
2216	51	no
2217	30	no
2218	47	no
2219	58	no
2220	65	yes
2221	61	yes
2222	63	yes
2223	29	no
2224	59	no
2225	51	no
2226	35	no
2227	42	no
2228	70	yes
2229	23	no
2230	87	yes
2231	57	no
2232	29	no
2233	48	no
2234	53	no
2235	65	yes
2236	82	yes
2237	62	yes
2238	23	no
2239	83	yes
2240	84	yes
2241	57	no



2242	41	no
2243	22	no
2244	57	no
2245	48	no
2246	88	yes
2247	59	no
2248	61	yes
2249	28	no
2250	55	no
2251	33	no
2252	73	yes
2253	33	no
2254	78	yes
2255	25	no
2256	63	yes
2257	57	no
2258	54	no
2259	65	yes
2260	60	no
2261	48	no
2262	73	yes
2263	20	no
2264	80	yes
2265	52	no
2266	34	no
2267	65	yes
2268	70	yes
2269	55	no
2270	69	yes
2271	38	no
2272	69	yes
2273	49	no
2274	78	yes
2275	59	no
2276	63	yes
2277	50	no
2278	34	no
2279	44	no
2280	59	no
2281	69	yes
2282	30	no
2283	37	no
2284	56	no

2285	72	yes
2286	56	no
2287	70	yes
2288	53	no
2289	47	no
2290	52	no
2291	34	no
2292	28	no
2293	28	no
2294	70	yes
2295	32	no
2296	50	no
2297	55	no
2298	28	no
2299	31	no
2300	20	no
2301	18	no
2302	43	no
2303	21	no
2304	54	no
2305	31	no
2306	56	no
2307	43	no
2308	57	no
2309	71	yes
2310	47	no
2311	63	yes
2312	43	no
2313	40	no
2314	60	no
2315	66	yes
2316	45	no
2317	60	no
2318	64	yes
2319	69	yes
2320	20	no
2321	57	no
2322	59	no
2323	60	no
2324	27	no
2325	34	no
2326	55	no
2327	35	no

2328	33	no
2329	54	no
2330	58	no
2331	44	no
2332	75	yes
2333	56	no
2334	30	no
2335	71	yes
2336	52	no
2337	38	no
2338	58	no
2339	57	no
2340	69	yes
2341	38	no
2342	66	yes
2343	59	no
2344	31	no
2345	52	no
2346	66	yes
2347	66	yes
2348	50	no
2349	37	no
2350	54	no
2351	54	no
2352	77	yes
2353	76	yes
2354	62	yes
2355	61	yes
2356	39	no
2357	32	no
2358	58	no
2359	47	no
2360	30	no
2361	62	yes
2362	40	no
2363	68	yes
2364	26	no
2365	74	yes
2366	52	no
2367	76	yes
2368	70	yes
2369	64	yes
2370	63	yes

2371	58	no
2372	0	no
2373	70	yes
2374	41	no
2375	33	no
2376	67	yes
2377	69	yes
2378	45	no
2379	35	no
2380	33	no
2381	61	yes
2382	63	yes
2383	76	yes
2384	44	no
2385	76	yes
2386	59	no
2387	48	no
2388	72	yes
2389	83	yes
2390	32	no
2391	23	no
2392	36	no
2393	47	no
2394	40	no
2395	22	no
2396	65	yes
2397	74	yes
2398	44	no
2399	30	no
2400	50	no
2401	67	yes
2402	71	yes
2403	77	yes
2404	63	yes
2405	24	no
2406	52	no
2407	69	yes
2408	46	no
2409	73	yes
2410	72	yes
2411	46	no
2412	56	no
2413	60	no

2414	24	no
2415	65	yes
2416	58	no
2417	41	no
2418	71	yes
2419	40	no
2420	60	no
2421	52	no
2422	81	yes
2423	42	no
2424	34	no
2425	33	no
2426	35	no
2427	57	no
2428	62	yes
2429	30	no
2430	50	no
2431	39	no
2432	41	no
2433	47	no
2434	73	yes
2435	90	yes
2436	66	yes
2437	39	no
2438	32	no
2439	27	no
2440	59	no
2441	50	no
2442	38	no
2443	57	no
2444	38	no
2445	61	yes
2446	43	no
2447	75	yes
2448	35	no
2449	70	yes
2450	33	no
2451	49	no
2452	51	no
2453	71	yes
2454	46	no
2455	64	yes
2456	60	no

2457	64	yes
2458	71	yes
2459	32	no
2460	75	yes
2461	74	yes
2462	53	no
2463	64	yes
2464	31	no
2465	30	no
2466	51	no
2467	45	no
2468	28	no
2469	40	no
2470	48	no
2471	31	no
2472	56	no
2473	28	no
2474	20	no
2475	81	yes
2476	29	no
2477	88	yes
2478	53	no
2479	31	no
2480	90	yes
2481	73	yes
2482	66	yes
2483	29	no
2484	34	no
2485	59	no
2486	29	no
2487	61	yes
2488	33	no
2489	78	yes
2490	52	no
2491	38	no
2492	53	no
2493	58	no
2494	48	no
2495	53	no
2496	66	yes
2497	45	no
2498	29	no
2499	29	no

2500	57	no
2501	69	yes
2502	50	no
2503	55	no
2504	50	no
2505	71	yes
2506	71	yes
2507	63	yes
2508	68	yes
2509	24	no
2510	58	no
2511	58	no
2512	42	no
2513	60	no
2514	68	yes
2515	48	no
2516	64	yes
2517	69	yes
2518	69	yes
2519	51	no
2520	57	no
2521	49	no
2522	51	no
2523	73	yes
2524	34	no
2525	14	no
2526	47	no
2527	60	no
2528	77	yes
2529	55	no
2530	30	no
2531	32	no
2532	24	no
2533	30	no
2534	53	no
2535	30	no
2536	43	no
2537	24	no
2538	63	yes
2539	81	yes
2540	51	no
2541	66	yes
2542	66	yes

2543	65	yes
2544	55	no
2545	51	no
2546	46	no
2547	68	yes
2548	33	no
2549	40	no
2550	49	no
2551	72	yes
2552	68	yes
2553	50	no
2554	58	no
2555	8	no
2556	30	no
2557	78	yes
2558	57	no
2559	61	yes
2560	62	yes
2561	66	yes
2562	33	no
2563	53	no
2564	41	no
2565	37	no
2566	58	no
2567	54	no
2568	24	no
2569	33	no
2570	31	no
2571	55	no
2572	45	no
2573	72	yes
2574	33	no
2575	90	yes
2576	32	no
2577	80	yes
2578	36	no
2579	54	no
2580	64	yes
2581	46	no
2582	76	yes
2583	66	yes
2584	77	yes
2585	58	no



2586	58	no
2587	35	no
2588	60	no
2589	40	no
2590	22	no
2591	46	no
2592	65	yes
2593	22	no
2594	68	yes
2595	37	no
2596	22	no
2597	64	yes
2598	56	no
2599	59	no
2600	65	yes
2601	41	no
2602	30	no
2603	62	yes
2604	48	no
2605	55	no
2606	65	yes
2607	34	no
2608	30	no
2609	56	no
2610	69	yes
2611	29	no
2612	48	no
2613	56	no
2614	28	no
2615	36	no
2616	23	no
2617	30	no
2618	31	no
2619	58	no
2620	55	no
2621	30	no
2622	53	no
2623	47	no
2624	72	yes
2625	24	no
2626	31	no
2627	61	yes
2628	75	yes

2629	49	no
2630	65	yes
2631	47	no
2632	80	yes
2633	30	no
2634	79	yes
2635	61	yes
2636	58	no
2637	41	no
2638	63	yes
2639	73	yes
2640	55	no
2641	32	no
2642	67	yes
2643	59	no
2644	62	yes
2645	60	no
2646	29	no
2647	30	no
2648	74	yes
2649	77	yes
2650	35	no
2651	44	no
2652	59	no
2653	30	no
2654	65	yes
2655	31	no
2656	33	no
2657	42	no
2658	77	yes
2659	68	yes
2660	73	yes
2661	63	yes
2662	76	yes
2663	40	no
2664	25	no
2665	47	no
2666	33	no
2667	74	yes
2668	70	yes
2669	57	no
2670	50	no
2671	71	yes

2672	37	no
2673	56	no
2674	32	no
2675	69	yes
2676	67	yes
2677	28	no
2678	75	yes
2679	36	no
2680	59	no
2681	76	yes
2682	73	yes
2683	71	yes
2684	46	no
2685	62	yes
2686	80	yes
2687	65	yes
2688	66	yes
2689	59	no
2690	35	no
2691	45	no
2692	7	no
2693	38	no
2694	51	no
2695	60	no
2696	39	no
2697	32	no
2698	51	no
2699	70	yes
2700	45	no
2701	47	no
2702	64	yes
2703	30	no
2704	35	no
2705	70	yes
2706	56	no
2707	59	no
2708	84	yes
2709	28	no
2710	31	no
2711	81	yes
2712	46	no
2713	50	no
2714	66	yes

2715	49	no
2716	32	no
2717	24	no
2718	57	no
2719	62	yes
2720	44	no
2721	29	no
2722	80	yes
2723	48	no
2724	59	no
2725	60	no
2726	29	no
2727	71	yes
2728	59	no
2729	24	no
2730	32	no
2731	43	no
2732	66	yes
2733	43	no
2734	28	no
2735	24	no
2736	65	yes
2737	38	no
2738	52	no
2739	53	no
2740	53	no
2741	49	no
2742	56	no
2743	62	yes
2744	14	no
2745	86	yes
2746	71	yes
2747	37	no
2748	53	no
2749	17	no
2750	84	yes
2751	54	no
2752	74	yes
2753	45	no
2754	59	no
2755	70	yes
2756	29	no
2757	54	no

2758	62	yes
2759	39	no
2760	40	no
2761	33	no
2762	46	no
2763	60	no
2764	76	yes
2765	60	no
2766	74	yes
2767	32	no
2768	73	yes
2769	72	yes
2770	79	yes
2771	69	yes
2772	80	yes
2773	37	no
2774	86	yes
2775	45	no
2776	74	yes
2777	56	no
2778	71	yes
2779	72	yes
2780	27	no
2781	69	yes
2782	68	yes
2783	61	yes
2784	69	yes
2785	50	no
2786	67	yes
2787	56	no
2788	49	no
2789	25	no
2790	31	no
2791	39	no
2792	28	no
2793	38	no
2794	30	no
2795	39	no
2796	42	no
2797	71	yes
2798	40	no
2799	70	yes
2800	46	no

2801	43	no
2802	61	yes
2803	61	yes
2804	63	yes
2805	44	no
2806	74	yes
2807	72	yes
2808	72	yes
2809	62	yes
2810	48	no
2811	31	no
2812	73	yes
2813	43	no
2814	59	no
2815	35	no
2816	30	no
2817	51	no
2818	43	no
2819	60	no
2820	49	no
2821	75	yes
2822	72	yes
2823	28	no
2824	70	yes
2825	53	no
2826	71	yes
2827	37	no
2828	46	no
2829	58	no
2830	33	no
2831	32	no
2832	30	no
2833	69	yes
2834	47	no
2835	66	yes
2836	73	yes
2837	82	yes
2838	45	no
2839	71	yes
2840	59	no
2841	54	no
2842	63	yes
2843	73	yes

2844	27	no
2845	67	yes
2846	26	no
2847	76	yes
2848	60	no
2849	41	no
2850	43	no
2851	28	no
2852	48	no
2853	29	no
2854	64	yes
2855	56	no
2856	60	no
2857	52	no
2858	33	no
2859	71	yes
2860	58	no
2861	23	no
2862	64	yes
2863	67	yes
2864	39	no
2865	22	no
2866	35	no
2867	73	yes
2868	89	yes
2869	44	no
2870	63	yes
2871	58	no
2872	29	no
2873	70	yes
2874	62	yes
2875	13	no
2876	27	no
2877	39	no
2878	31	no
2879	60	no
2880	65	yes
2881	48	no
2882	11	no
2883	71	yes
2884	58	no
2885	51	no
2886	41	no

2887	54	no
2888	74	yes
2889	73	yes
2890	36	no
2891	53	no
2892	12	no
2893	40	no
2894	47	no
2895	63	yes
2896	71	yes
2897	82	yes
2898	60	no
2899	70	yes
2900	57	no
2901	56	no
2902	66	yes
2903	65	yes
2904	43	no
2905	27	no
2906	49	no
2907	69	yes
2908	30	no
2909	33	no
2910	41	no
2911	21	no
2912	44	no
2913	74	yes
2914	59	no
2915	48	no
2916	49	no
2917	45	no
2918	26	no
2919	65	yes
2920	70	yes
2921	83	yes
2922	30	no
2923	29	no
2924	67	yes
2925	70	yes
2926	61	yes
2927	44	no
2928	35	no
2929	82	yes



2930	64	yes
2931	67	yes
2932	39	no
2933	31	no
2934	43	no
2935	22	no
2936	59	no
2937	58	no
2938	59	no
2939	54	no
2940	80	yes
2941	68	yes
2942	7	no
2943	0	no
2944	43	no
2945	46	no
2946	51	no
2947	19	no
2948	33	no
2949	31	no
2950	91	yes
2951	32	no
2952	26	no
2953	32	no
2954	51	no
2955	10	no
2956	74	yes
2957	32	no
2958	27	no
2959	65	yes
2960	28	no
2961	64	yes
2962	68	yes
2963	55	no
2964	49	no
2965	41	no
2966	51	no
2967	80	yes
2968	57	no
2969	72	yes
2970	48	no
2971	62	yes
2972	46	no

2973	65	yes
2974	42	no
2975	58	no
2976	63	yes
2977	72	yes
2978	63	yes
2979	16	no
2980	31	no
2981	78	yes
2982	39	no
2983	47	no
2984	45	no
2985	80	yes
2986	25	no
2987	39	no
2988	59	no
2989	37	no
2990	37	no
2991	53	no
2992	35	no
2993	29	no
2994	33	no
2995	44	no
2996	44	no
2997	54	no
2998	64	yes
2999	41	no
3000	60	no
3001	63	yes
3002	60	no
3003	24	no
3004	36	no
3005	56	no
3006	18	no
3007	58	no
3008	38	no
3009	67	yes
3010	37	no
3011	62	yes
3012	66	yes
3013	21	no
3014	54	no
3015	65	yes

3016	45	no
3017	28	no
3018	63	yes
3019	80	yes
3020	33	no
3021	37	no
3022	35	no
3023	47	no
3024	38	no
3025	68	yes
3026	67	yes
3027	48	no
3028	74	yes
3029	33	no
3030	4	no
3031	58	no
3032	59	no
3033	41	no
3034	68	yes
3035	45	no
3036	68	yes
3037	62	yes
3038	47	no
3039	72	yes
3040	65	yes
3041	29	no
3042	73	yes
3043	63	yes
3044	68	yes
3045	58	no
3046	70	yes
3047	60	no
3048	57	no
3049	23	no
3050	30	no
3051	39	no
3052	61	yes
3053	76	yes
3054	48	no
3055	52	no
3056	25	no
3057	47	no
3058	22	no

3059	47	no
3060	53	no
3061	54	no
3062	23	no
3063	51	no
3064	58	no
3065	33	no
3066	45	no
3067	57	no
3068	69	yes
3069	23	no
3070	36	no
3071	41	no
3072	62	yes
3073	56	no
3074	69	yes
3075	28	no
3076	32	no
3077	60	no
3078	44	no
3079	53	no
3080	36	no
3081	29	no
3082	87	yes
3083	49	no
3084	53	no
3085	59	no
3086	41	no
3087	29	no
3088	70	yes
3089	55	no
3090	43	no
3091	56	no
3092	73	yes
3093	45	no
3094	37	no
3095	56	no
3096	60	no
3097	50	no
3098	50	no
3099	32	no
3100	63	yes
3101	60	no

3102	53	no
3103	63	yes
3104	73	yes
3105	34	no
3106	30	no
3107	62	yes
3108	28	no
3109	31	no
3110	56	no
3111	29	no
3112	25	no
3113	34	no
3114	57	no
3115	24	no
3116	34	no
3117	32	no
3118	57	no
3119	16	no
3120	35	no
3121	92	yes
3122	51	no
3123	30	no
3124	70	yes
3125	48	no
3126	54	no
3127	74	yes
3128	66	yes
3129	40	no
3130	49	no
3131	36	no
3132	30	no
3133	25	no
3134	41	no
3135	43	no
3136	63	yes
3137	68	yes
3138	50	no
3139	49	no
3140	60	no
3141	43	no
3142	59	no
3143	44	no
3144	49	no

3145	62	yes
3146	37	no
3147	11	no
3148	44	no
3149	49	no
3150	44	no
3151	41	no
3152	69	yes
3153	18	no
3154	68	yes
3155	5	no
3156	32	no
3157	39	no
3158	24	no
3159	51	no
3160	69	yes
3161	29	no
3162	39	no
3163	77	yes
3164	79	yes
3165	89	yes
3166	45	no
3167	33	no
3168	63	yes
3169	39	no
3170	57	no
3171	29	no
3172	15	no
3173	68	yes
3174	23	no
3175	50	no
3176	51	no
3177	59	no
3178	45	no
3179	35	no
3180	34	no
3181	63	yes
3182	30	no
3183	32	no
3184	65	yes
3185	48	no
3186	52	no
3187	82	yes

3188	23	no
3189	71	yes
3190	78	yes
3191	38	no
3192	59	no
3193	31	no
3194	46	no
3195	19	no
3196	55	no
3197	26	no
3198	47	no
3199	37	no
3200	22	no
3201	28	no
3202	40	no
3203	50	no
3204	42	no
3205	63	yes
3206	46	no
3207	53	no
3208	31	no
3209	58	no
3210	47	no
3211	28	no
3212	33	no
3213	53	no
3214	42	no
3215	75	yes
3216	34	no
3217	69	yes
3218	60	no
3219	61	yes
3220	60	no
3221	32	no
3222	54	no
3223	57	no
3224	30	no
3225	54	no
3226	84	yes
3227	62	yes
3228	44	no
3229	46	no
3230	54	no

3231	27	no
3232	67	yes
3233	31	no
3234	57	no
3235	65	yes
3236	38	no
3237	35	no
3238	49	no
3239	38	no
3240	77	yes
3241	52	no
3242	15	no
3243	23	no
3244	55	no
3245	43	no
3246	33	no
3247	63	yes
3248	48	no
3249	81	yes
3250	64	yes
3251	62	yes
3252	62	yes
3253	81	yes
3254	72	yes
3255	67	yes
3256	27	no
3257	65	yes
3258	35	no
3259	70	yes
3260	30	no
3261	68	yes
3262	56	no
3263	71	yes
3264	30	no
3265	45	no
3266	30	no
3267	77	yes
3268	41	no
3269	63	yes
3270	32	no
3271	82	yes
3272	52	no
3273	58	no



3274	48	no
3275	23	no
3276	61	yes
3277	60	no
3278	37	no
3279	50	no
3280	52	no
3281	23	no
3282	34	no
3283	43	no
3284	56	no
3285	31	no
3286	52	no
3287	40	no
3288	56	no
3289	43	no
3290	51	no
3291	42	no
3292	46	no
3293	32	no
3294	62	yes
3295	61	yes
3296	53	no
3297	21	no
3298	40	no
3299	73	yes
3300	29	no
3301	67	yes
3302	68	yes
3303	30	no
3304	82	yes
3305	41	no
3306	39	no
3307	40	no
3308	28	no
3309	66	yes
3310	24	no
3311	36	no
3312	29	no
3313	28	no
3314	28	no
3315	36	no
3316	35	no

3317	60	no
3318	49	no
3319	33	no
3320	42	no
3321	61	yes
3322	62	yes
3323	41	no
3324	37	no
3325	46	no
3326	49	no
3327	46	no
3328	29	no
3329	41	no
3330	56	no
3331	24	no
3332	33	no
3333	2	no
3334	55	no
3335	68	yes
3336	66	yes
3337	54	no
3338	30	no
3339	38	no
3340	45	no
3341	31	no
3342	32	no
3343	88	yes
3344	44	no
3345	84	yes
3346	63	yes
3347	20	no
3348	32	no
3349	34	no
3350	27	no
3351	73	yes
3352	66	yes
3353	53	no
3354	36	no
3355	38	no
3356	23	no
3357	6	no
3358	29	no
3359	29	no

3360	31	no
3361	24	no
3362	42	no
3363	62	yes
3364	42	no
3365	67	yes
3366	55	no
3367	48	no
3368	32	no
3369	29	no
3370	70	yes
3371	24	no
3372	60	no
3373	31	no
3374	30	no
3375	75	yes
3376	24	no
3377	61	yes
3378	69	yes
3379	31	no
3380	37	no
3381	28	no
3382	24	no
3383	34	no
3384	31	no
3385	33	no
3386	22	no
3387	32	no
3388	23	no
3389	46	no
3390	23	no
3391	40	no
3392	55	no
3393	65	yes
3394	1	no
3395	84	yes
3396	57	no
3397	61	yes
3398	35	no
3399	30	no
3400	45	no
3401	25	no
3402	21	no

3403	71	yes
3404	49	no
3405	2	no
3406	33	no
3407	36	no
3408	84	yes
3409	29	no
3410	54	no
3411	31	no
3412	38	no
3413	61	yes
3414	56	no
3415	49	no
3416	50	no
3417	65	yes
3418	59	no
3419	68	yes
3420	73	yes
3421	74	yes
3422	37	no
3423	29	no
3424	60	no
3425	52	no
3426	44	no
3427	54	no
3428	49	no
3429	3	no
3430	8	no
3431	68	yes
3432	51	no
3433	58	no
3434	51	no
3435	36	no
3436	52	no
3437	32	no
3438	30	no
3439	30	no
3440	26	no
3441	30	no
3442	47	no
3443	61	yes
3444	81	yes
3445	29	no

3446	89	yes
3447	66	yes
3448	31	no
3449	62	yes
3450	48	no
3451	64	yes
3452	29	no
3453	43	no
3454	82	yes
3455	75	yes
3456	62	yes
3457	22	no
3458	52	no
3459	45	no
3460	31	no
3461	64	yes
3462	53	no
3463	50	no
3464	43	no
3465	73	yes
3466	45	no
3467	50	no
3468	67	yes
3469	79	yes
3470	29	no
3471	81	yes
3472	57	no
3473	41	no
3474	75	yes
3475	65	yes
3476	78	yes
3477	54	no
3478	83	yes
3479	71	yes
3480	36	no
3481	69	yes
3482	50	no
3483	60	no
3484	56	no
3485	77	yes
3486	22	no
3487	34	no
3488	62	yes

3489	23	no
3490	22	no
3491	73	yes
3492	68	yes
3493	43	no
3494	68	yes
3495	36	no
3496	59	no
3497	75	yes
3498	39	no
3499	45	no
3500	49	no
3501	27	no
3502	26	no
3503	68	yes
3504	60	no
3505	30	no
3506	41	no
3507	79	yes
3508	22	no
3509	28	no
3510	67	yes
3511	45	no
3512	31	no
3513	42	no
3514	35	no
3515	72	yes
3516	46	no
3517	55	no
3518	30	no
3519	64	yes
3520	32	no
3521	59	no
3522	32	no
3523	67	yes
3524	79	yes
3525	28	no
3526	63	yes
3527	75	yes
3528	76	yes
3529	6	no
3530	44	no
3531	17	no

3532	27	no
3533	47	no
3534	20	no
3535	47	no
3536	89	yes
3537	38	no
3538	71	yes
3539	33	no
3540	31	no
3541	76	yes
3542	53	no
3543	28	no
3544	60	no
3545	27	no
3546	39	no
3547	73	yes
3548	29	no
3549	90	yes
3550	17	no
3551	37	no
3552	29	no
3553	35	no
3554	94	yes
3555	30	no
3556	28	no
3557	49	no
3558	65	yes
3559	32	no
3560	64	yes
3561	41	no
3562	37	no
3563	23	no
3564	44	no
3565	64	yes
3566	38	no
3567	63	yes
3568	32	no
3569	43	no
3570	55	no
3571	66	yes
3572	52	no
3573	66	yes
3574	68	yes

3575	24	no
3576	60	no
3577	41	no
3578	37	no
3579	75	yes
3580	33	no
3581	77	yes
3582	31	no
3583	43	no
3584	101	yes
3585	73	yes
3586	66	yes
3587	64	yes
3588	27	no
3589	34	no
3590	26	no
3591	83	yes
3592	54	no
3593	61	yes
3594	50	no
3595	42	no
3596	67	yes
3597	33	no
3598	45	no
3599	38	no
3600	54	no
3601	66	yes
3602	65	yes
3603	46	no
3604	30	no
3605	22	no
3606	80	yes
3607	69	yes
3608	60	no
3609	65	yes
3610	62	yes
3611	55	no
3612	67	yes
3613	70	yes
3614	56	no
3615	29	no
3616	66	yes
3617	48	no



3618	70	yes
3619	41	no
3620	45	no
3621	64	yes
3622	42	no
3623	46	no
3624	1	no
3625	27	no
3626	0	no
3627	43	no
3628	55	no
3629	26	no
3630	34	no
3631	72	yes
3632	28	no
3633	52	no
3634	56	no
3635	26	no
3636	52	no
3637	47	no
3638	44	no
3639	33	no
3640	31	no
3641	36	no
3642	24	no
3643	64	yes
3644	64	yes
3645	44	no
3646	34	no
3647	36	no
3648	69	yes
3649	64	yes
3650	9	no
3651	31	no
3652	48	no
3653	6	no
3654	25	no
3655	72	yes
3656	55	no
3657	29	no
3658	29	no
3659	52	no
3660	66	yes

3661	22	no
3662	41	no
3663	34	no
3664	47	no
3665	45	no
3666	10	no
3667	56	no
3668	33	no
3669	28	no
3670	37	no
3671	30	no
3672	26	no
3673	58	no
3674	25	no
3675	44	no
3676	62	yes
3677	20	no
3678	29	no
3679	58	no
3680	48	no
3681	69	yes
3682	32	no
3683	20	no
3684	67	yes
3685	48	no
3686	57	no
3687	54	no
3688	52	no
3689	74	yes
3690	27	no
3691	25	no
3692	67	yes
3693	35	no
3694	21	no
3695	32	no
3696	63	yes
3697	32	no
3698	33	no
3699	70	yes
3700	68	yes
3701	45	no
3702	50	no
3703	62	yes

3704	24	no
3705	17	no
3706	28	no
3707	36	no
3708	85	yes
3709	63	yes
3710	51	no
3711	66	yes
3712	41	no
3713	54	no
3714	42	no
3715	30	no
3716	53	no
3717	56	no
3718	27	no
3719	25	no
3720	30	no
3721	72	yes
3722	25	no
3723	59	no
3724	48	no
3725	32	no
3726	67	yes
3727	47	no
3728	53	no
3729	36	no
3730	70	yes
3731	23	no
3732	40	no
3733	80	yes
3734	34	no
3735	81	yes
3736	45	no
3737	42	no
3738	34	no
3739	29	no
3740	72	yes
3741	40	no
3742	57	no
3743	49	no
3744	37	no
3745	43	no
3746	59	no

3747	59	no
3748	23	no
3749	60	no
3750	29	no
3751	70	yes
3752	0	no
3753	55	no
3754	32	no
3755	61	yes
3756	0	no
3757	31	no
3758	27	no
3759	23	no
3760	71	yes
3761	44	no
3762	61	yes
3763	59	no
3764	30	no
3765	60	no
3766	36	no
3767	41	no
3768	23	no
3769	50	no
3770	90	yes
3771	28	no
3772	64	yes
3773	60	no
3774	25	no
3775	29	no
3776	59	no
3777	68	yes
3778	39	no
3779	43	no
3780	33	no
3781	29	no
3782	50	no
3783	66	yes
3784	44	no
3785	72	yes
3786	27	no
3787	64	yes
3788	38	no
3789	70	yes

3790	31	no
3791	62	yes
3792	44	no
3793	39	no
3794	30	no
3795	51	no
3796	56	no
3797	67	yes
3798	66	yes
3799	56	no
3800	46	no
3801	64	yes
3802	43	no
3803	79	yes
3804	52	no
3805	70	yes
3806	30	no
3807	26	no
3808	29	no
3809	55	no
3810	58	no
3811	62	yes
3812	34	no
3813	73	yes
3814	52	no
3815	35	no
3816	70	yes
3817	66	yes
3818	26	no
3819	43	no
3820	27	no
3821	74	yes
3822	69	yes
3823	54	no
3824	34	no
3825	61	yes
3826	47	no
3827	21	no
3828	25	no
3829	38	no
3830	27	no
3831	58	no
3832	60	no

3833	29	no
3834	39	no
3835	34	no
3836	60	no
3837	41	no
3838	47	no
3839	70	yes
3840	65	yes
3841	20	no
3842	36	no
3843	65	yes
3844	59	no
3845	36	no
3846	34	no
3847	32	no
3848	53	no
3849	42	no
3850	48	no
3851	31	no
3852	17	no
3853	51	no
3854	25	no
3855	11	no
3856	53	no
3857	24	no
3858	31	no
3859	82	yes
3860	42	no
3861	49	no
3862	64	yes
3863	34	no
3864	35	no
3865	67	yes
3866	31	no
3867	29	no
3868	47	no
3869	29	no
3870	52	no
3871	75	yes
3872	56	no
3873	23	no
3874	66	yes
3875	35	no

3876	58	no
3877	85	yes
3878	30	no
3879	70	yes
3880	21	no
3881	52	no
3882	49	no
3883	25	no
3884	36	no
3885	49	no
3886	47	no
3887	22	no
3888	72	yes
3889	56	no
3890	61	yes
3891	48	no
3892	51	no
3893	36	no
3894	32	no
3895	31	no
3896	25	no
3897	55	no
3898	60	no
3899	42	no
3900	26	no
3901	31	no
3902	51	no
3903	92	yes
3904	29	no
3905	43	no
3906	28	no
3907	83	yes
3908	60	no
3909	38	no
3910	82	yes
3911	26	no
3912	41	no
3913	37	no
3914	0	no
3915	65	yes
3916	73	yes
3917	48	no
3918	39	no

3919	52	no
3920	28	no
3921	57	no
3922	45	no
3923	52	no
3924	42	no
3925	71	yes
3926	36	no
3927	29	no
3928	43	no
3929	65	yes
3930	49	no
3931	35	no
3932	45	no
3933	38	no
3934	32	no
3935	70	yes
3936	62	yes
3937	88	yes
3938	39	no
3939	60	no
3940	38	no
3941	58	no
3942	67	yes
3943	61	yes
3944	62	yes
3945	21	no
3946	24	no
3947	56	no
3948	65	yes
3949	80	yes
3950	47	no
3951	29	no
3952	67	yes
3953	55	no
3954	18	no
3955	73	yes
3956	22	no
3957	23	no
3958	56	no
3959	19	no
3960	43	no
3961	57	no



3962	65	yes
3963	97	yes
3964	72	yes
3965	87	yes
3966	56	no
3967	45	no
3968	64	yes
3969	43	no
3970	68	yes
3971	67	yes
3972	52	no
3973	38	no
3974	65	yes
3975	60	no
3976	63	yes
3977	52	no
3978	45	no
3979	44	no
3980	57	no
3981	0	no
3982	73	yes
3983	24	no
3984	32	no
3985	62	yes
3986	55	no
3987	76	yes
3988	15	no
3989	26	no
3990	89	yes
3991	58	no
3992	26	no
3993	49	no
3994	57	no
3995	0	no
3996	16	no
3997	23	no
3998	44	no
3999	79	yes
4000	76	yes
4001	48	no
4002	47	no
4003	31	no
4004	46	no

4005	38	no
4006	30	no
4007	42	no
4008	83	yes
4009	56	no
4010	25	no
4011	70	yes
4012	83	yes
4013	44	no
4014	55	no
4015	37	no
4016	64	yes
4017	2	no
4018	51	no
4019	59	no
4020	62	yes
4021	8	no
4022	41	no
4023	75	yes
4024	65	yes
4025	28	no
4026	72	yes
4027	42	no
4028	28	no
4029	58	no
4030	58	no
4031	53	no
4032	59	no
4033	57	no
4034	45	no
4035	62	yes
4036	45	no
4037	60	no
4038	29	no
4039	82	yes
4040	29	no
4041	77	yes
4042	29	no
4043	39	no
4044	55	no
4045	65	yes
4046	65	yes
4047	46	no

4048	41	no
4049	58	no
4050	39	no
4051	51	no
4052	56	no
4053	39	no
4054	27	no
4055	27	no
4056	48	no
4057	30	no
4058	68	yes
4059	34	no
4060	50	no
4061	47	no
4062	61	yes
4063	46	no
4064	41	no
4065	44	no
4066	34	no
4067	85	yes
4068	22	no
4069	29	no
4070	31	no
4071	51	no
4072	53	no
4073	32	no
4074	52	no
4075	43	no
4076	39	no
4077	70	yes
4078	94	yes
4079	31	no
4080	62	yes
4081	51	no
4082	33	no
4083	60	no
4084	21	no
4085	27	no
4086	53	no
4087	56	no
4088	73	yes
4089	78	yes
4090	42	no

4091	24	no
4092	49	no
4093	28	no
4094	29	no
4095	43	no
4096	69	yes
4097	27	no
4098	35	no
4099	30	no
4100	69	yes
4101	32	no
4102	67	yes
4103	36	no
4104	19	no
4105	22	no
4106	67	yes
4107	66	yes
4108	58	no
4109	24	no
4110	27	no
4111	44	no
4112	40	no
4113	37	no
4114	50	no
4115	70	yes
4116	52	no
4117	35	no
4118	71	yes
4119	32	no
4120	59	no
4121	32	no
4122	28	no
4123	21	no
4124	71	yes
4125	33	no
4126	25	no
4127	39	no
4128	35	no
4129	47	no
4130	47	no
4131	53	no
4132	34	no
4133	44	no

4134	29	no
4135	31	no
4136	25	no
4137	85	yes
4138	50	no
4139	62	yes
4140	25	no
4141	28	no
4142	64	yes
4143	52	no
4144	39	no
4145	31	no
4146	41	no
4147	53	no
4148	32	no
4149	60	no
4150	72	yes
4151	50	no
4152	46	no
4153	76	yes
4154	26	no
4155	34	no
4156	44	no
4157	33	no
4158	26	no
4159	25	no
4160	35	no
4161	59	no
4162	33	no
4163	49	no
4164	27	no
4165	74	yes
4166	31	no
4167	48	no
4168	48	no
4169	66	yes
4170	40	no
4171	24	no
4172	39	no
4173	29	no
4174	73	yes
4175	31	no
4176	60	no

4177	29	no
4178	63	yes
4179	41	no
4180	25	no
4181	68	yes
4182	49	no
4183	32	no
4184	55	no
4185	32	no
4186	79	yes
4187	27	no
4188	27	no
4189	19	no
4190	55	no
4191	79	yes
4192	38	no
4193	44	no
4194	11	no
4195	57	no
4196	30	no
4197	33	no
4198	41	no
4199	30	no
4200	19	no
4201	48	no
4202	39	no
4203	53	no
4204	37	no
4205	42	no
4206	68	yes
4207	27	no
4208	35	no
4209	43	no
4210	61	yes
4211	61	yes
4212	51	no
4213	36	no
4214	67	yes
4215	56	no
4216	29	no
4217	86	yes
4218	43	no
4219	65	yes

4220	31	no
4221	49	no
4222	29	no
4223	68	yes
4224	23	no
4225	26	no
4226	27	no
4227	30	no
4228	74	yes
4229	51	no
4230	40	no
4231	50	no
4232	39	no
4233	55	no
4234	47	no
4235	26	no
4236	80	yes
4237	34	no
4238	33	no
4239	67	yes
4240	37	no
4241	70	yes
4242	44	no
4243	34	no
4244	47	no
4245	72	yes
4246	4	no
4247	28	no
4248	34	no
4249	26	no
4250	75	yes
4251	60	no
4252	28	no
4253	27	no
4254	30	no
4255	59	no
4256	24	no
4257	45	no
4258	33	no
4259	67	yes
4260	78	yes
4261	33	no
4262	41	no

4263	50	no
4264	18	no
4265	30	no
4266	28	no
4267	31	no
4268	34	no
4269	53	no
4270	31	no
4271	47	no
4272	51	no
4273	61	yes
4274	34	no
4275	31	no
4276	32	no
4277	51	no
4278	61	yes
4279	64	yes
4280	60	no
4281	61	yes
4282	29	no
4283	30	no
4284	39	no
4285	25	no
4286	25	no
4287	55	no
4288	42	no
4289	76	yes
4290	68	yes
4291	26	no
4292	64	yes
4293	55	no
4294	29	no
4295	61	yes
4296	32	no
4297	32	no
4298	46	no
4299	32	no
4300	26	no
4301	30	no
4302	60	no
4303	41	no
4304	57	no
4305	38	no



4306	32	no
4307	29	no
4308	35	no
4309	31	no
4310	24	no
4311	42	no
4312	17	no
4313	22	no
4314	27	no
4315	72	yes
4316	33	no
4317	50	no
4318	46	no
4319	56	no
4320	29	no
4321	36	no
4322	47	no
4323	35	no
4324	27	no
4325	70	yes
4326	88	yes
4327	68	yes
4328	29	no
4329	52	no
4330	34	no
4331	42	no
4332	43	no
4333	29	no
4334	68	yes
4335	25	no
4336	50	no
4337	33	no
4338	32	no
4339	33	no
4340	4	no
4341	33	no
4342	57	no
4343	51	no
4344	29	no
4345	63	yes
4346	31	no
4347	22	no
4348	83	yes

4349	75	yes
4350	22	no
4351	39	no
4352	35	no
4353	36	no
4354	57	no
4355	32	no
4356	52	no
4357	61	yes
4358	30	no
4359	46	no
4360	22	no
4361	30	no
4362	34	no
4363	28	no
4364	36	no
4365	38	no
4366	47	no
4367	26	no
4368	66	yes
4369	31	no
4370	30	no
4371	33	no
4372	28	no
4373	29	no
4374	26	no
4375	33	no
4376	29	no
4377	28	no
4378	29	no
4379	74	yes
4380	21	no
4381	30	no
4382	30	no
4383	42	no
4384	64	yes
4385	36	no
4386	68	yes
4387	48	no
4388	46	no
4389	55	no
4390	44	no
4391	33	no

4392	43	no
4393	60	no
4394	26	no
4395	29	no
4396	30	no
4397	65	yes
4398	34	no
4399	33	no
4400	63	yes
4401	29	no
4402	24	no
4403	81	yes
4404	69	yes
4405	35	no
4406	39	no
4407	71	yes
4408	24	no
4409	28	no
4410	60	no
4411	34	no
4412	32	no
4413	34	no
4414	32	no
4415	61	yes
4416	75	yes
4417	33	no
4418	21	no
4419	48	no
4420	23	no
4421	47	no
4422	29	no
4423	55	no
4424	49	no
4425	33	no
4426	31	no
4427	41	no
4428	44	no
4429	31	no
4430	26	no
4431	29	no
4432	60	no
4433	24	no
4434	66	yes

4435	70	yes
4436	50	no
4437	28	no
4438	24	no
4439	31	no
4440	28	no
4441	59	no
4442	39	no
4443	64	yes
4444	33	no
4445	31	no
4446	66	yes
4447	32	no
4448	4	no
4449	47	no
4450	37	no
4451	62	yes
4452	63	yes
4453	27	no
4454	29	no
4455	30	no
4456	48	no
4457	50	no
4458	62	yes
4459	37	no
4460	41	no
4461	32	no
4462	27	no
4463	27	no
4464	29	no
4465	57	no
4466	50	no
4467	28	no
4468	28	no
4469	26	no
4470	43	no
4471	61	yes
4472	39	no
4473	45	no
4474	32	no
4475	61	yes
4476	61	yes
4477	69	yes

4478	67	yes
4479	36	no
4480	47	no
4481	32	no
4482	34	no
4483	38	no
4484	55	no
4485	48	no
4486	31	no
4487	54	no
4488	43	no
4489	20	no
4490	33	no
4491	59	no
4492	33	no
4493	87	yes
4494	24	no
4495	29	no
4496	45	no
4497	42	no
4498	73	yes
4499	44	no
4500	24	no
4501	60	no
4502	40	no
4503	63	yes
4504	45	no
4505	30	no
4506	79	yes
4507	55	no
4508	32	no
4509	35	no
4510	27	no
4511	53	no
4512	70	yes
4513	68	yes
4514	33	no
4515	28	no
4516	17	no
4517	52	no
4518	58	no
4519	49	no
4520	4	no

4521	30	no
4522	20	no
4523	64	yes
4524	29	no
4525	29	no
4526	36	no
4527	27	no
4528	30	no
4529	36	no
4530	29	no
4531	59	no
4532	33	no
4533	55	no
4534	32	no
4535	55	no
4536	87	yes
4537	53	no
4538	36	no
4539	28	no
4540	27	no
4541	25	no
4542	29	no
4543	51	no
4544	58	no
4545	45	no
4546	56	no
4547	71	yes
4548	46	no
4549	34	no
4550	36	no
4551	62	yes
4552	52	no
4553	50	no
4554	58	no
4555	33	no
4556	58	no
4557	36	no
4558	33	no
4559	56	no
4560	57	no
4561	30	no
4562	24	no
4563	50	no

4564	87	yes
4565	30	no
4566	63	yes
4567	39	no
4568	31	no
4569	78	yes
4570	30	no
4571	35	no
4572	17	no
4573	26	no
4574	30	no
4575	88	yes
4576	58	no
4577	44	no
4578	41	no
4579	47	no
4580	44	no
4581	22	no
4582	58	no
4583	69	yes
4584	3	no
4585	30	no
4586	58	no
4587	68	yes
4588	46	no
4589	30	no
4590	19	no
4591	28	no
4592	31	no
4593	64	yes
4594	33	no
4595	26	no
4596	71	yes
4597	33	no
4598	27	no
4599	20	no
4600	62	yes
4601	62	yes
4602	46	no
4603	50	no
4604	75	yes
4605	66	yes
4606	85	yes

4607	49	no
4608	23	no
4609	51	no
4610	55	no
4611	82	yes
4612	49	no
4613	2	no
4614	27	no
4615	41	no
4616	65	yes
4617	60	no
4618	41	no
4619	31	no
4620	34	no
4621	86	yes
4622	53	no
4623	22	no
4624	39	no
4625	27	no
4626	57	no
4627	30	no
4628	21	no
4629	57	no
4630	24	no
4631	30	no
4632	36	no
4633	34	no
4634	62	yes
4635	64	yes
4636	30	no
4637	32	no
4638	24	no
4639	23	no
4640	70	yes
4641	56	no
4642	37	no
4643	67	yes
4644	52	no
4645	76	yes
4646	46	no
4647	37	no
4648	25	no
4649	36	no



4650	29	no
4651	39	no
4652	56	no
4653	48	no
4654	35	no
4655	26	no
4656	47	no
4657	37	no
4658	61	yes
4659	52	no
4660	32	no
4661	47	no
4662	53	no
4663	55	no
4664	32	no
4665	35	no
4666	30	no
4667	29	no
4668	50	no
4669	45	no
4670	59	no
4671	31	no
4672	57	no
4673	63	yes
4674	32	no
4675	59	no
4676	29	no
4677	36	no
4678	24	no
4679	46	no
4680	60	no
4681	29	no
4682	47	no
4683	29	no
4684	28	no
4685	21	no
4686	31	no
4687	33	no
4688	46	no
4689	27	no
4690	18	no
4691	28	no
4692	49	no

4693	80	yes
4694	84	yes
4695	29	no
4696	50	no
4697	25	no
4698	34	no
4699	40	no
4700	28	no
4701	95	yes
4702	35	no
4703	30	no
4704	22	no
4705	32	no
4706	62	yes
4707	34	no
4708	29	no
4709	30	no
4710	29	no
4711	34	no
4712	38	no
4713	53	no
4714	51	no
4715	29	no
4716	24	no
4717	27	no
4718	60	no
4719	68	yes
4720	16	no
4721	25	no
4722	36	no
4723	51	no
4724	19	no
4725	53	no
4726	46	no
4727	59	no
4728	48	no
4729	34	no
4730	25	no
4731	65	yes
4732	31	no
4733	40	no
4734	33	no
4735	39	no

4736	34	no
4737	26	no
4738	38	no
4739	32	no
4740	66	yes
4741	32	no
4742	68	yes
4743	30	no
4744	35	no
4745	23	no
4746	28	no
4747	51	no
4748	32	no
4749	53	no
4750	35	no
4751	55	no
4752	38	no
4753	43	no
4754	57	no
4755	32	no
4756	60	no
4757	5	no
4758	28	no
4759	44	no
4760	26	no
4761	26	no
4762	26	no
4763	42	no
4764	43	no
4765	64	yes
4766	45	no
4767	32	no
4768	27	no
4769	30	no
4770	32	no
4771	43	no
4772	62	yes
4773	49	no
4774	47	no
4775	9	no
4776	33	no
4777	25	no
4778	30	no

4779	24	no
4780	32	no
4781	53	no
4782	32	no
4783	26	no
4784	32	no
4785	48	no
4786	27	no
4787	32	no
4788	37	no
4789	36	no
4790	25	no
4791	29	no
4792	27	no
4793	50	no
4794	33	no
4795	29	no
4796	42	no
4797	31	no
4798	29	no
4799	32	no
4800	40	no
4801	42	no
4802	23	no
4803	30	no
4804	29	no
4805	54	no
4806	36	no
4807	42	no
4808	42	no
4809	29	no
4810	39	no
4811	33	no
4812	27	no
4813	41	no
4814	53	no
4815	29	no
4816	56	no
4817	44	no
4818	35	no
4819	69	yes
4820	64	yes
4821	33	no

4822	60	no
4823	47	no
4824	42	no
4825	27	no
4826	51	no
4827	63	yes
4828	36	no
4829	33	no
4830	28	no
4831	45	no
4832	58	no
4833	41	no
4834	40	no
4835	28	no
4836	44	no
4837	47	no
4838	34	no
4839	27	no
4840	51	no
4841	16	no
4842	69	yes
4843	33	no
4844	44	no
4845	70	yes
4846	34	no
4847	47	no
4848	30	no
4849	23	no
4850	35	no
4851	42	no
4852	32	no
4853	29	no
4854	24	no
4855	62	yes
4856	36	no
4857	44	no
4858	26	no
4859	46	no
4860	49	no
4861	50	no
4862	67	yes
4863	31	no
4864	28	no

4865	80	yes
4866	8	no
4867	42	no
4868	6	no
4869	48	no
4870	30	no
4871	31	no
4872	22	no
4873	60	no
4874	51	no
4875	27	no
4876	37	no
4877	31	no
4878	21	no
4879	49	no
4880	39	no
4881	29	no
4882	22	no
4883	25	no
4884	27	no
4885	44	no
4886	74	yes
4887	20	no
4888	60	no
4889	27	no
4890	61	yes
4891	38	no
4892	28	no
4893	29	no
4894	56	no
4895	50	no
4896	54	no
4897	31	no
4898	73	yes
4899	36	no
4900	77	yes
4901	46	no
4902	36	no
4903	50	no
4904	69	yes
4905	76	yes
4906	59	no
4907	68	yes

4908	31	no
4909	30	no
4910	31	no
4911	46	no
4912	36	no
4913	24	no
4914	60	no
4915	72	yes
4916	31	no
4917	50	no
4918	53	no
4919	34	no
4920	28	no
4921	55	no
4922	43	no
4923	61	yes
4924	36	no
4925	57	no
4926	35	no
4927	66	yes
4928	39	no
4929	36	no
4930	27	no
4931	44	no
4932	50	no
4933	40	no
4934	44	no
4935	33	no
4936	69	yes
4937	34	no
4938	49	no
4939	56	no
4940	33	no
4941	70	yes
4942	21	no
4943	51	no
4944	10	no
4945	43	no
4946	55	no
4947	30	no
4948	21	no
4949	45	no
4950	30	no

4951	40	no
4952	55	no
4953	31	no
4954	74	yes
4955	73	yes
4956	47	no
4957	32	no
4958	27	no
4959	31	no
4960	72	yes
4961	53	no
4962	32	no
4963	44	no
4964	22	no
4965	56	no
4966	39	no
4967	28	no
4968	66	yes
4969	24	no
4970	32	no
4971	37	no
4972	0	no
4973	83	yes
4974	29	no
4975	57	no
4976	67	yes
4977	42	no
4978	61	yes
4979	20	no
4980	48	no
4981	18	no
4982	39	no
4983	28	no
4984	46	no
4985	23	no
4986	60	no
4987	35	no
4988	50	no
4989	35	no
4990	35	no
4991	40	no
4992	21	no
4993	28	no



4994	48	no
4995	30	no
4996	56	no
4997	42	no
4998	48	no
4999	48	no
5000	45	no
5001	53	no
5002	51	no
5003	72	yes
5004	38	no
5005	31	no
5006	60	no
5007	37	no
5008	23	no
5009	57	no
5010	43	no
5011	72	yes
5012	63	yes
5013	55	no
5014	32	no
5015	73	yes
5016	21	no
5017	35	no
5018	58	no
5019	54	no
5020	28	no
5021	27	no
5022	43	no
5023	75	yes
5024	37	no
5025	31	no
5026	55	no
5027	51	no
5028	35	no
5029	77	yes
5030	23	no
5031	31	no
5032	0	no
5033	52	no
5034	27	no
5035	40	no
5036	23	no

5037	30	no
5038	46	no
5039	17	no
5040	17	no
5041	47	no
5042	52	no
5043	1	no
5044	47	no
5045	29	no
5046	31	no
5047	53	no
5048	43	no
5049	58	no
5050	61	yes
5051	20	no
5052	30	no
5053	46	no
5054	40	no
5055	20	no
5056	64	yes
5057	46	no
5058	67	yes
5059	34	no
5060	16	no
5061	43	no
5062	41	no
5063	41	no
5064	31	no
5065	23	no
5066	44	no
5067	57	no
5068	66	yes
5069	30	no
5070	22	no
5071	33	no
5072	39	no
5073	48	no
5074	49	no
5075	25	no
5076	23	no
5077	31	no
5078	40	no
5079	37	no

5080	35	no
5081	26	no
5082	39	no
5083	30	no
5084	39	no
5085	73	yes
5086	76	yes
5087	57	no
5088	26	no
5089	43	no
5090	33	no
5091	58	no
5092	29	no
5093	49	no
5094	23	no
5095	22	no
5096	37	no
5097	63	yes
5098	13	no
5099	29	no
5100	65	yes
5101	21	no
5102	29	no
5103	43	no
5104	46	no
5105	36	no
5106	71	yes
5107	39	no
5108	62	yes
5109	23	no
5110	31	no
5111	46	no
5112	32	no
5113	9	no
5114	58	no
5115	60	no
5116	39	no
5117	28	no
5118	50	no
5119	35	no
5120	72	yes
5121	54	no
5122	78	yes

5123	55	no
5124	22	no
5125	39	no
5126	33	no
5127	52	no
5128	69	yes
5129	23	no
5130	29	no
5131	25	no
5132	54	no
5133	92	yes
5134	60	no
5135	28	no
5136	41	no
5137	13	no
5138	31	no
5139	70	yes
5140	29	no
5141	31	no
5142	25	no
5143	46	no
5144	5	no
5145	62	yes
5146	68	yes
5147	70	yes
5148	44	no
5149	30	no
5150	35	no
5151	72	yes
5152	54	no
5153	73	yes
5154	63	yes
5155	32	no
5156	61	yes
5157	58	no
5158	22	no
5159	26	no
5160	56	no
5161	52	no
5162	36	no
5163	56	no
5164	62	yes
5165	37	no

5166	48	no
5167	33	no
5168	24	no
5169	32	no
5170	30	no
5171	50	no
5172	32	no
5173	40	no
5174	26	no
5175	30	no
5176	62	yes
5177	65	yes
5178	34	no
5179	58	no
5180	30	no
5181	36	no
5182	22	no
5183	48	no
5184	48	no
5185	78	yes
5186	24	no
5187	61	yes
5188	32	no
5189	51	no
5190	83	yes
5191	34	no
5192	23	no
5193	31	no
5194	44	no
5195	41	no
5196	41	no
5197	64	yes
5198	24	no
5199	26	no
5200	47	no
5201	79	yes
5202	22	no
5203	43	no
5204	10	no
5205	74	yes
5206	53	no
5207	21	no
5208	47	no

5209	39	no
5210	66	yes
5211	17	no
5212	61	yes
5213	70	yes
5214	68	yes
5215	45	no
5216	54	no
5217	24	no
5218	22	no
5219	25	no
5220	14	no
5221	67	yes
5222	74	yes
5223	24	no
5224	64	yes
5225	45	no
5226	62	yes
5227	9	no
5228	70	yes
5229	48	no
5230	70	yes
5231	50	no
5232	71	yes
5233	42	no
5234	32	no
5235	40	no
5236	1	no
5237	52	no
5238	22	no
5239	48	no
5240	73	yes
5241	55	no
5242	34	no
5243	40	no
5244	29	no
5245	49	no
5246	29	no
5247	68	yes
5248	39	no
5249	34	no
5250	33	no
5251	33	no

5252	47	no
5253	32	no
5254	65	yes
5255	34	no
5256	50	no
5257	27	no
5258	24	no
5259	41	no
5260	41	no
5261	52	no
5262	37	no
5263	82	yes
5264	33	no
5265	37	no
5266	31	no
5267	52	no
5268	82	yes
5269	34	no
5270	39	no
5271	53	no
5272	61	yes
5273	47	no
5274	29	no
5275	35	no
5276	22	no
5277	54	no
5278	77	yes
5279	24	no
5280	45	no
5281	36	no
5282	45	no
5283	1	no
5284	4	no
5285	29	no
5286	80	yes
5287	41	no
5288	78	yes
5289	52	no
5290	64	yes
5291	55	no
5292	30	no
5293	39	no
5294	71	yes

5295	54	no
5296	57	no
5297	34	no
5298	39	no
5299	58	no
5300	65	yes
5301	35	no
5302	30	no
5303	34	no
5304	29	no
5305	29	no
5306	33	no
5307	27	no
5308	63	yes
5309	33	no
5310	28	no
5311	47	no
5312	47	no
5313	28	no
5314	31	no
5315	24	no
5316	57	no
5317	55	no
5318	31	no
5319	44	no
5320	31	no
5321	30	no
5322	31	no
5323	23	no
5324	29	no
5325	13	no
5326	35	no
5327	39	no
5328	29	no
5329	56	no
5330	44	no
5331	49	no
5332	23	no
5333	63	yes
5334	63	yes
5335	59	no
5336	50	no
5337	31	no



5338	23	no
5339	42	no
5340	55	no
5341	66	yes
5342	70	yes
5343	43	no
5344	60	no
5345	31	no
5346	43	no
5347	35	no
5348	27	no
5349	87	yes
5350	39	no
5351	45	no
5352	28	no
5353	29	no
5354	59	no
5355	81	yes
5356	NA	<NA>
5357	20	no
5358	52	no
5359	79	yes
5360	45	no
5361	32	no
5362	50	no
5363	47	no
5364	44	no
5365	28	no
5366	21	no
5367	40	no
5368	28	no
5369	71	yes
5370	32	no
5371	46	no
5372	33	no
5373	34	no
5374	68	yes
5375	34	no
5376	31	no
5377	24	no
5378	33	no
5379	43	no
5380	51	no

5381	30	no
5382	67	yes
5383	71	yes
5384	35	no
5385	53	no
5386	77	yes
5387	32	no
5388	54	no
5389	23	no
5390	34	no
5391	28	no
5392	54	no
5393	29	no
5394	33	no
5395	65	yes
5396	26	no
5397	35	no
5398	37	no
5399	31	no
5400	35	no
5401	28	no
5402	66	yes
5403	31	no
5404	56	no
5405	29	no
5406	33	no
5407	27	no
5408	44	no
5409	28	no
5410	40	no
5411	38	no
5412	47	no
5413	54	no
5414	32	no
5415	40	no
5416	41	no
5417	56	no
5418	23	no
5419	39	no
5420	27	no
5421	59	no
5422	48	no
5423	24	no

5424	42	no
5425	55	no
5426	53	no
5427	38	no
5428	35	no
5429	31	no
5430	31	no
5431	23	no
5432	34	no
5433	19	no
5434	28	no
5435	24	no
5436	64	yes
5437	31	no
5438	46	no
5439	74	yes
5440	28	no
5441	56	no
5442	88	yes
5443	19	no
5444	28	no
5445	44	no
5446	43	no
5447	22	no
5448	30	no
5449	35	no
5450	46	no
5451	61	yes
5452	41	no
5453	68	yes
5454	34	no
5455	32	no
5456	37	no
5457	19	no
5458	29	no
5459	28	no
5460	27	no
5461	44	no
5462	45	no
5463	44	no
5464	21	no
5465	27	no
5466	34	no

5467	50	no
5468	31	no
5469	24	no
5470	1	no
5471	33	no
5472	30	no
5473	1	no
5474	22	no
5475	22	no
5476	31	no
5477	35	no
5478	25	no
5479	61	yes
5480	29	no
5481	38	no
5482	62	yes
5483	23	no
5484	44	no
5485	33	no
5486	22	no
5487	70	yes
5488	30	no
5489	33	no
5490	44	no
5491	28	no
5492	50	no
5493	29	no
5494	18	no
5495	49	no
5496	25	no
5497	39	no
5498	63	yes
5499	37	no
5500	32	no
5501	33	no
5502	60	no
5503	33	no
5504	26	no
5505	34	no
5506	50	no
5507	30	no
5508	26	no
5509	29	no

5510	55	no
5511	31	no
5512	22	no
5513	40	no
5514	57	no
5515	39	no
5516	30	no
5517	48	no
5518	36	no
5519	30	no
5520	33	no
5521	31	no
5522	27	no
5523	19	no
5524	55	no
5525	31	no
5526	24	no
5527	31	no
5528	25	no
5529	57	no
5530	30	no
5531	40	no
5532	29	no
5533	34	no
5534	61	yes
5535	34	no
5536	39	no
5537	28	no
5538	28	no
5539	31	no
5540	31	no
5541	77	yes
5542	51	no
5543	35	no
5544	29	no
5545	46	no
5546	64	yes
5547	36	no
5548	42	no
5549	43	no
5550	41	no
5551	29	no
5552	38	no

5553	50	no
5554	32	no
5555	62	yes
5556	23	no
5557	47	no
5558	32	no
5559	25	no
5560	32	no
5561	25	no
5562	41	no
5563	46	no
5564	34	no
5565	27	no
5566	34	no
5567	35	no
5568	28	no
5569	33	no
5570	30	no
5571	31	no
5572	44	no
5573	36	no
5574	63	yes
5575	54	no
5576	36	no
5577	29	no
5578	24	no
5579	36	no
5580	23	no
5581	27	no
5582	41	no
5583	46	no
5584	39	no
5585	42	no
5586	29	no
5587	46	no
5588	21	no
5589	33	no
5590	70	yes
5591	37	no
5592	21	no
5593	29	no
5594	24	no
5595	32	no

5596	30	no
5597	36	no
5598	26	no
5599	42	no
5600	52	no
5601	28	no
5602	28	no
5603	55	no
5604	47	no
5605	32	no
5606	47	no
5607	33	no
5608	23	no
5609	31	no
5610	24	no
5611	66	yes
5612	38	no
5613	27	no
5614	36	no
5615	22	no
5616	25	no
5617	44	no
5618	6	no
5619	34	no
5620	42	no
5621	46	no
5622	48	no
5623	37	no
5624	34	no
5625	33	no
5626	43	no
5627	26	no
5628	29	no
5629	35	no
5630	29	no
5631	27	no
5632	20	no
5633	31	no
5634	21	no
5635	33	no
5636	23	no
5637	30	no
5638	28	no

5639	26	no
5640	37	no
5641	52	no
5642	23	no
5643	27	no
5644	34	no
5645	35	no
5646	62	yes
5647	35	no
5648	27	no
5649	23	no
5650	24	no
5651	28	no
5652	35	no
5653	36	no
5654	28	no
5655	34	no
5656	38	no
5657	31	no
5658	29	no
5659	32	no
5660	26	no
5661	38	no
5662	30	no
5663	41	no
5664	23	no
5665	74	yes
5666	60	no
5667	34	no
5668	27	no
5669	53	no
5670	82	yes
5671	53	no
5672	58	no
5673	74	yes
5674	27	no
5675	68	yes
5676	42	no
5677	45	no
5678	60	no
5679	72	yes
5680	41	no
5681	59	no



5682	63	yes
5683	78	yes
5684	45	no
5685	40	no
5686	72	yes
5687	70	yes
5688	58	no
5689	54	no
5690	74	yes
5691	52	no
5692	30	no
5693	75	yes
5694	51	no
5695	63	yes
5696	34	no
5697	69	yes
5698	30	no
5699	49	no
5700	22	no
5701	32	no
5702	3	no
5703	44	no
5704	27	no
5705	49	no
5706	55	no
5707	37	no
5708	78	yes
5709	27	no
5710	72	yes
5711	48	no
5712	65	yes
5713	44	no
5714	7	no
5715	13	no
5716	55	no
5717	49	no
5718	33	no
5719	69	yes
5720	0	no
5721	3	no
5722	32	no
5723	41	no
5724	29	no

5725	42	no
5726	22	no
5727	53	no
5728	35	no
5729	44	no
5730	40	no
5731	29	no
5732	58	no
5733	54	no
5734	65	yes
5735	31	no
5736	47	no
5737	39	no
5738	54	no
5739	58	no
5740	23	no
5741	65	yes
5742	49	no
5743	49	no
5744	4	no
5745	30	no
5746	46	no
5747	51	no
5748	29	no
5749	39	no
5750	62	yes
5751	8	no
5752	38	no
5753	25	no
5754	67	yes
5755	64	yes
5756	60	no
5757	38	no
5758	42	no
5759	29	no
5760	59	no
5761	73	yes
5762	20	no
5763	49	no
5764	39	no
5765	48	no
5766	65	yes
5767	78	yes

5768	50	no
5769	79	yes
5770	76	yes
5771	41	no
5772	74	yes
5773	44	no
5774	32	no
5775	36	no
5776	28	no
5777	54	no
5778	30	no
5779	30	no
5780	0	no
5781	23	no
5782	42	no
5783	50	no
5784	75	yes
5785	27	no
5786	50	no
5787	50	no
5788	58	no
5789	17	no
5790	36	no
5791	69	yes
5792	50	no
5793	61	yes
5794	78	yes
5795	29	no
5796	55	no
5797	32	no
5798	55	no
5799	29	no
5800	73	yes
5801	63	yes
5802	90	yes
5803	56	no
5804	0	no
5805	32	no
5806	40	no
5807	1	no
5808	19	no
5809	69	yes
5810	18	no

5811	22	no
5812	43	no
5813	23	no
5814	62	yes
5815	63	yes
5816	82	yes
5817	30	no
5818	48	no
5819	58	no
5820	72	yes
5821	43	no
5822	63	yes
5823	62	yes
5824	36	no
5825	48	no
5826	68	yes
5827	46	no
5828	77	yes
5829	23	no
5830	60	no
5831	46	no
5832	29	no
5833	28	no
5834	0	no
5835	59	no
5836	51	no
5837	43	no
5838	49	no
5839	63	yes
5840	11	no
5841	62	yes
5842	18	no
5843	40	no
5844	25	no
5845	70	yes
5846	50	no
5847	19	no
5848	33	no
5849	56	no
5850	52	no
5851	42	no
5852	37	no
5853	38	no

5854	84	yes
5855	25	no
5856	58	no
5857	67	yes
5858	68	yes
5859	47	no
5860	60	no
5861	44	no
5862	47	no
5863	45	no
5864	52	no
5865	59	no
5866	18	no
5867	62	yes
5868	22	no
5869	70	yes
5870	59	no
5871	67	yes
5872	68	yes
5873	22	no
5874	58	no
5875	64	yes
5876	61	yes
5877	36	no
5878	47	no
5879	52	no
5880	66	yes
5881	60	no
5882	7	no
5883	27	no
5884	52	no
5885	10	no
5886	70	yes
5887	30	no
5888	59	no
5889	25	no
5890	69	yes
5891	29	no
5892	59	no
5893	57	no
5894	52	no
5895	59	no
5896	53	no

5897	62	yes
5898	55	no
5899	77	yes
5900	45	no
5901	39	no
5902	52	no
5903	40	no
5904	49	no
5905	23	no
5906	59	no
5907	28	no
5908	48	no
5909	47	no
5910	72	yes
5911	54	no
5912	36	no
5913	28	no
5914	32	no
5915	23	no
5916	55	no
5917	29	no
5918	72	yes
5919	64	yes
5920	58	no
5921	61	yes
5922	29	no
5923	47	no
5924	41	no
5925	35	no
5926	69	yes
5927	66	yes
5928	32	no
5929	16	no
5930	43	no
5931	39	no
5932	4	no
5933	17	no
5934	48	no
5935	46	no
5936	70	yes
5937	73	yes
5938	30	no
5939	80	yes

5940	64	yes
5941	47	no
5942	52	no
5943	64	yes
5944	13	no
5945	38	no
5946	27	no
5947	62	yes
5948	65	yes
5949	64	yes
5950	29	no
5951	44	no
5952	67	yes
5953	23	no
5954	26	no
5955	40	no
5956	63	yes
5957	19	no
5958	32	no
5959	42	no
5960	42	no
5961	36	no
5962	27	no
5963	46	no
5964	6	no
5965	49	no
5966	43	no
5967	38	no
5968	26	no
5969	77	yes
5970	51	no
5971	40	no
5972	62	yes
5973	56	no
5974	29	no
5975	43	no
5976	37	no
5977	46	no
5978	26	no
5979	53	no
5980	47	no
5981	2	no
5982	46	no

5983	77	yes
5984	22	no
5985	15	no
5986	72	yes
5987	23	no
5988	32	no
5989	60	no
5990	61	yes
5991	29	no
5992	55	no
5993	72	yes
5994	60	no
5995	25	no
5996	26	no
5997	39	no
5998	22	no
5999	32	no
6000	44	no
6001	42	no
6002	69	yes
6003	44	no
6004	26	no
6005	60	no
6006	25	no
6007	50	no
6008	65	yes
6009	32	no
6010	73	yes
6011	32	no
6012	51	no
6013	56	no
6014	52	no
6015	3	no
6016	40	no
6017	69	yes
6018	55	no
6019	58	no
6020	50	no
6021	36	no
6022	24	no
6023	28	no
6024	46	no
6025	66	yes



6026	37	no
6027	84	yes
6028	26	no
6029	29	no
6030	58	no
6031	64	yes
6032	31	no
6033	48	no
6034	71	yes
6035	67	yes
6036	32	no
6037	69	yes
6038	39	no
6039	24	no
6040	70	yes
6041	31	no
6042	51	no
6043	46	no
6044	9	no
6045	1	no
6046	32	no
6047	55	no
6048	36	no
6049	76	yes
6050	32	no
6051	33	no
6052	33	no
6053	44	no
6054	47	no
6055	45	no
6056	29	no
6057	57	no
6058	54	no
6059	25	no
6060	45	no
6061	42	no
6062	46	no
6063	54	no
6064	21	no
6065	49	no
6066	63	yes
6067	37	no
6068	71	yes

6069	46	no
6070	39	no
6071	76	yes
6072	31	no
6073	32	no
6074	83	yes
6075	61	yes
6076	25	no
6077	75	yes
6078	87	yes
6079	28	no
6080	65	yes
6081	13	no
6082	23	no
6083	53	no
6084	56	no
6085	56	no
6086	39	no
6087	39	no
6088	29	no
6089	63	yes
6090	27	no
6091	85	yes
6092	39	no
6093	27	no
6094	57	no
6095	30	no
6096	34	no
6097	48	no
6098	18	no
6099	2	no
6100	28	no
6101	65	yes
6102	43	no
6103	27	no
6104	65	yes
6105	42	no
6106	39	no
6107	59	no
6108	32	no
6109	29	no
6110	43	no
6111	23	no

6112	79	yes
6113	71	yes
6114	68	yes
6115	55	no
6116	62	yes
6117	34	no
6118	38	no
6119	66	yes
6120	48	no
6121	34	no
6122	60	no
6123	27	no
6124	50	no
6125	60	no
6126	56	no
6127	50	no
6128	79	yes
6129	43	no
6130	43	no
6131	1	no
6132	28	no
6133	28	no
6134	39	no
6135	43	no
6136	32	no
6137	31	no
6138	34	no
6139	39	no
6140	24	no
6141	1	no
6142	45	no
6143	22	no
6144	12	no
6145	63	yes
6146	34	no
6147	61	yes
6148	8	no
6149	69	yes
6150	22	no
6151	23	no
6152	33	no
6153	63	yes
6154	23	no

6155	47	no
6156	9	no
6157	67	yes
6158	17	no
6159	55	no
6160	49	no
6161	43	no
6162	27	no
6163	58	no
6164	27	no
6165	73	yes
6166	32	no
6167	79	yes
6168	30	no
6169	4	no
6170	33	no
6171	27	no
6172	60	no
6173	54	no
6174	44	no
6175	60	no
6176	48	no
6177	62	yes
6178	53	no
6179	32	no
6180	20	no
6181	11	no
6182	30	no
6183	64	yes
6184	40	no
6185	41	no
6186	28	no
6187	23	no
6188	14	no
6189	69	yes
6190	65	yes
6191	58	no
6192	42	no
6193	33	no
6194	39	no
6195	58	no
6196	27	no
6197	18	no

6198	68	yes
6199	44	no
6200	53	no
6201	51	no
6202	55	no
6203	22	no
6204	36	no
6205	29	no
6206	42	no
6207	22	no
6208	25	no
6209	35	no
6210	36	no
6211	67	yes
6212	25	no
6213	49	no
6214	52	no
6215	44	no
6216	44	no
6217	20	no
6218	27	no
6219	10	no
6220	48	no
6221	36	no
6222	79	yes
6223	43	no
6224	24	no
6225	45	no
6226	27	no
6227	0	no
6228	47	no
6229	32	no
6230	27	no
6231	26	no
6232	71	yes
6233	24	no
6234	61	yes
6235	24	no
6236	82	yes
6237	25	no
6238	21	no
6239	96	yes
6240	55	no

6241	13	no
6242	33	no
6243	63	yes
6244	53	no
6245	34	no
6246	32	no
6247	29	no
6248	36	no
6249	38	no
6250	56	no
6251	56	no
6252	33	no
6253	74	yes
6254	70	yes
6255	30	no
6256	30	no
6257	24	no
6258	58	no
6259	30	no
6260	38	no
6261	33	no
6262	65	yes
6263	29	no
6264	55	no
6265	32	no
6266	72	yes
6267	26	no
6268	12	no
6269	42	no
6270	49	no
6271	63	yes
6272	29	no
6273	32	no
6274	58	no
6275	6	no
6276	63	yes
6277	24	no
6278	20	no
6279	48	no
6280	47	no
6281	47	no
6282	68	yes
6283	33	no

6284	73	yes
6285	64	yes
6286	58	no
6287	47	no
6288	60	no
6289	71	yes
6290	22	no
6291	35	no
6292	7	no
6293	55	no
6294	44	no
6295	36	no
6296	67	yes
6297	58	no
6298	51	no
6299	70	yes
6300	50	no
6301	59	no
6302	39	no
6303	59	no
6304	68	yes
6305	72	yes
6306	33	no
6307	62	yes
6308	73	yes
6309	55	no
6310	23	no
6311	27	no
6312	41	no
6313	33	no
6314	70	yes
6315	39	no
6316	32	no
6317	70	yes
6318	32	no
6319	17	no
6320	73	yes
6321	39	no
6322	22	no
6323	47	no
6324	28	no
6325	13	no
6326	38	no

6327	29	no
6328	35	no
6329	25	no
6330	50	no
6331	29	no
6332	82	yes
6333	34	no
6334	82	yes
6335	51	no
6336	34	no
6337	58	no
6338	50	no
6339	88	yes
6340	14	no
6341	63	yes
6342	46	no
6343	40	no
6344	32	no
6345	27	no
6346	25	no
6347	28	no
6348	30	no
6349	39	no
6350	63	yes
6351	46	no
6352	50	no
6353	34	no
6354	42	no
6355	84	yes
6356	11	no
6357	56	no
6358	60	no
6359	36	no
6360	40	no
6361	53	no
6362	49	no
6363	44	no
6364	58	no
6365	29	no
6366	30	no
6367	23	no
6368	49	no
6369	41	no



6370	55	no
6371	30	no
6372	56	no
6373	34	no
6374	53	no
6375	44	no
6376	54	no
6377	43	no
6378	61	yes
6379	49	no
6380	41	no
6381	52	no
6382	56	no
6383	30	no
6384	48	no
6385	25	no
6386	41	no
6387	32	no
6388	53	no
6389	55	no
6390	58	no
6391	27	no
6392	30	no
6393	58	no
6394	41	no
6395	57	no
6396	55	no
6397	52	no
6398	42	no
6399	26	no
6400	74	yes
6401	40	no
6402	61	yes
6403	27	no
6404	39	no
6405	0	no
6406	70	yes
6407	50	no
6408	35	no
6409	30	no
6410	27	no
6411	30	no
6412	31	no

6413	33	no
6414	43	no
6415	77	yes
6416	49	no
6417	56	no
6418	60	no
6419	33	no
6420	58	no
6421	33	no
6422	28	no
6423	43	no
6424	57	no
6425	3	no
6426	81	yes
6427	33	no
6428	21	no
6429	50	no
6430	61	yes
6431	14	no
6432	42	no
6433	37	no
6434	34	no
6435	26	no
6436	32	no
6437	22	no
6438	39	no
6439	37	no
6440	58	no
6441	29	no
6442	31	no
6443	30	no
6444	36	no
6445	61	yes
6446	32	no
6447	45	no
6448	38	no
6449	31	no
6450	39	no
6451	63	yes
6452	85	yes
6453	54	no
6454	42	no
6455	73	yes

6456	63	yes
6457	61	yes
6458	54	no
6459	35	no
6460	61	yes
6461	28	no
6462	17	no
6463	60	no
6464	27	no
6465	22	no
6466	34	no
6467	31	no
6468	41	no
6469	63	yes
6470	93	yes
6471	20	no
6472	24	no
6473	70	yes
6474	2	no
6475	26	no
6476	24	no
6477	51	no
6478	22	no
6479	12	no
6480	32	no
6481	58	no
6482	22	no
6483	30	no
6484	54	no
6485	42	no
6486	34	no
6487	52	no
6488	31	no
6489	34	no
6490	20	no
6491	52	no
6492	36	no
6493	31	no
6494	44	no
6495	38	no
6496	27	no
6497	60	no
6498	21	no

6499	66	yes
6500	48	no
6501	32	no
6502	67	yes
6503	47	no
6504	51	no
6505	28	no
6506	3	no
6507	58	no
6508	53	no
6509	71	yes
6510	46	no
6511	63	yes
6512	28	no
6513	8	no
6514	19	no
6515	27	no
6516	22	no
6517	9	no
6518	70	yes
6519	55	no
6520	68	yes
6521	28	no
6522	10	no
6523	26	no
6524	28	no
6525	43	no
6526	33	no
6527	55	no
6528	40	no
6529	17	no
6530	7	no
6531	37	no
6532	48	no
6533	1	no
6534	50	no
6535	31	no
6536	30	no
6537	34	no
6538	21	no
6539	55	no
6540	35	no
6541	2	no

6542	9	no
6543	36	no
6544	39	no
6545	18	no
6546	43	no
6547	26	no
6548	21	no
6549	31	no
6550	23	no
6551	24	no
6552	28	no
6553	74	yes
6554	18	no
6555	25	no
6556	60	no
6557	25	no
6558	53	no
6559	62	yes
6560	21	no
6561	47	no
6562	27	no
6563	62	yes
6564	23	no
6565	19	no
6566	48	no
6567	42	no
6568	66	yes
6569	38	no
6570	26	no
6571	28	no
6572	22	no
6573	54	no
6574	53	no
6575	31	no
6576	38	no
6577	51	no
6578	25	no
6579	53	no
6580	58	no
6581	60	no
6582	54	no
6583	74	yes
6584	64	yes

6585	4	no
6586	31	no
6587	35	no
6588	37	no
6589	33	no
6590	67	yes
6591	10	no
6592	32	no
6593	43	no
6594	75	yes
6595	67	yes
6596	26	no
6597	57	no
6598	46	no
6599	70	yes
6600	21	no
6601	26	no
6602	24	no
6603	58	no
6604	32	no
6605	65	yes
6606	43	no
6607	50	no
6608	44	no
6609	37	no
6610	28	no
6611	79	yes
6612	38	no
6613	50	no
6614	0	no
6615	42	no
6616	37	no
6617	33	no
6618	32	no
6619	18	no
6620	52	no
6621	58	no
6622	67	yes
6623	75	yes
6624	52	no
6625	20	no
6626	40	no
6627	65	yes

6628	31	no
6629	62	yes
6630	29	no
6631	27	no
6632	69	yes
6633	27	no
6634	27	no
6635	54	no
6636	40	no
6637	23	no
6638	58	no
6639	50	no
6640	30	no
6641	41	no
6642	20	no
6643	32	no
6644	27	no
6645	27	no
6646	47	no
6647	46	no
6648	29	no
6649	17	no
6650	78	yes
6651	36	no
6652	55	no
6653	21	no
6654	77	yes
6655	28	no
6656	55	no
6657	30	no
6658	41	no
6659	70	yes
6660	40	no
6661	15	no
6662	29	no
6663	75	yes
6664	26	no
6665	44	no
6666	27	no
6667	29	no
6668	49	no
6669	38	no
6670	23	no

6671	36	no
6672	74	yes
6673	32	no
6674	32	no
6675	69	yes
6676	67	yes
6677	27	no
6678	41	no
6679	33	no
6680	52	no
6681	33	no
6682	25	no
6683	30	no
6684	37	no
6685	48	no
6686	74	yes
6687	29	no
6688	32	no
6689	27	no
6690	62	yes
6691	56	no
6692	NA	<NA>
6693	51	no
6694	33	no
6695	56	no
6696	33	no
6697	69	yes
6698	24	no
6699	26	no
6700	40	no
6701	50	no
6702	21	no
6703	53	no
6704	34	no
6705	36	no
6706	69	yes
6707	18	no
6708	57	no
6709	31	no
6710	35	no
6711	40	no
6712	55	no
6713	31	no



6714	27	no
6715	19	no
6716	26	no
6717	54	no
6718	20	no
6719	34	no
6720	30	no
6721	69	yes
6722	32	no
6723	47	no
6724	45	no
6725	55	no
6726	25	no
6727	49	no
6728	29	no
6729	26	no
6730	25	no
6731	49	no
6732	50	no
6733	35	no
6734	29	no
6735	29	no
6736	25	no
6737	47	no
6738	28	no
6739	60	no
6740	23	no
6741	59	no
6742	43	no
6743	29	no
6744	24	no
6745	34	no
6746	41	no
6747	30	no
6748	52	no
6749	64	yes
6750	73	yes
6751	30	no
6752	35	no
6753	44	no
6754	48	no
6755	48	no
6756	49	no

6757	36	no
6758	58	no
6759	22	no
6760	47	no
6761	39	no
6762	38	no
6763	53	no
6764	48	no
6765	36	no
6766	42	no
6767	24	no
6768	74	yes
6769	35	no
6770	49	no
6771	27	no
6772	32	no
6773	53	no
6774	33	no
6775	42	no
6776	38	no
6777	72	yes
6778	23	no
6779	37	no
6780	31	no
6781	29	no
6782	51	no
6783	11	no
6784	20	no
6785	53	no
6786	72	yes
6787	28	no
6788	44	no
6789	30	no
6790	61	yes
6791	49	no
6792	30	no
6793	36	no
6794	28	no
6795	26	no
6796	22	no
6797	33	no
6798	32	no
6799	25	no

6800	24	no
6801	45	no
6802	72	yes
6803	30	no
6804	29	no
6805	63	yes
6806	55	no
6807	41	no
6808	33	no
6809	51	no
6810	30	no
6811	50	no
6812	26	no
6813	26	no
6814	55	no
6815	33	no
6816	28	no
6817	60	no
6818	35	no
6819	46	no
6820	28	no
6821	32	no
6822	28	no
6823	45	no
6824	27	no
6825	76	yes
6826	58	no
6827	23	no
6828	35	no
6829	48	no
6830	36	no
6831	24	no
6832	21	no
6833	51	no
6834	40	no
6835	53	no
6836	58	no
6837	27	no
6838	23	no
6839	28	no
6840	50	no
6841	64	yes
6842	53	no

6843	19	no
6844	51	no
6845	43	no
6846	48	no
6847	40	no
6848	29	no
6849	32	no
6850	46	no
6851	35	no
6852	22	no
6853	30	no
6854	30	no
6855	48	no
6856	40	no
6857	30	no
6858	27	no
6859	45	no
6860	64	yes
6861	42	no
6862	38	no
6863	58	no
6864	29	no
6865	28	no
6866	39	no
6867	22	no
6868	45	no
6869	64	yes
6870	15	no
6871	65	yes
6872	27	no
6873	51	no
6874	52	no
6875	30	no
6876	31	no
6877	33	no
6878	66	yes
6879	4	no
6880	43	no
6881	40	no
6882	45	no
6883	64	yes
6884	23	no
6885	39	no

6886	46	no
6887	47	no
6888	67	yes
6889	45	no
6890	29	no
6891	39	no
6892	66	yes
6893	40	no
6894	21	no
6895	38	no
6896	32	no
6897	30	no
6898	36	no
6899	41	no
6900	33	no
6901	29	no
6902	32	no
6903	53	no
6904	44	no
6905	73	yes
6906	75	yes
6907	36	no
6908	35	no
6909	28	no
6910	58	no
6911	50	no
6912	44	no
6913	30	no
6914	75	yes
6915	30	no
6916	36	no
6917	38	no
6918	53	no
6919	62	yes
6920	37	no
6921	42	no
6922	40	no
6923	47	no
6924	38	no
6925	59	no
6926	45	no
6927	64	yes
6928	5	no

6929	36	no
6930	45	no
6931	66	yes
6932	52	no
6933	49	no
6934	35	no
6935	58	no
6936	27	no
6937	36	no
6938	52	no
6939	26	no
6940	47	no
6941	32	no
6942	39	no
6943	38	no
6944	63	yes
6945	33	no
6946	28	no
6947	30	no
6948	65	yes
6949	39	no
6950	30	no
6951	24	no
6952	23	no
6953	32	no
6954	37	no
6955	61	yes
6956	45	no
6957	49	no
6958	43	no
6959	34	no
6960	20	no
6961	33	no
6962	33	no
6963	28	no
6964	20	no
6965	36	no
6966	49	no
6967	63	yes
6968	31	no
6969	32	no
6970	48	no
6971	43	no

6972	47	no
6973	37	no
6974	38	no
6975	31	no
6976	32	no
6977	52	no
6978	69	yes
6979	28	no
6980	37	no
6981	26	no
6982	29	no
6983	39	no
6984	65	yes
6985	81	yes
6986	42	no
6987	38	no
6988	32	no
6989	35	no
6990	30	no
6991	52	no
6992	59	no
6993	30	no
6994	77	yes
6995	28	no
6996	21	no
6997	34	no
6998	38	no
6999	49	no
7000	56	no
7001	36	no
7002	67	yes
7003	32	no
7004	60	no
7005	23	no
7006	44	no
7007	40	no
7008	51	no
7009	51	no
7010	23	no
7011	23	no
7012	29	no
7013	23	no
7014	70	yes

7015	39	no
7016	38	no
7017	4	no
7018	35	no
7019	57	no
7020	64	yes
7021	72	yes
7022	46	no
7023	26	no
7024	0	no
7025	56	no
7026	26	no
7027	87	yes
7028	23	no
7029	23	no
7030	30	no
7031	19	no
7032	54	no
7033	59	no
7034	20	no
7035	80	yes
7036	33	no
7037	28	no
7038	50	no
7039	29	no
7040	34	no
7041	50	no
7042	47	no
7043	28	no
7044	35	no
7045	48	no
7046	73	yes
7047	38	no
7048	20	no
7049	54	no
7050	58	no
7051	35	no
7052	51	no
7053	55	no
7054	35	no
7055	36	no
7056	42	no
7057	30	no



7058	66	yes
7059	39	no
7060	24	no
7061	51	no
7062	22	no
7063	39	no
7064	55	no
7065	60	no
7066	27	no
7067	33	no
7068	54	no
7069	77	yes
7070	30	no
7071	59	no
7072	57	no
7073	38	no
7074	54	no
7075	39	no
7076	20	no
7077	48	no
7078	73	yes
7079	36	no
7080	44	no
7081	28	no
7082	41	no
7083	60	no
7084	36	no
7085	36	no
7086	70	yes
7087	37	no
7088	42	no
7089	33	no
7090	24	no
7091	29	no
7092	34	no
7093	30	no
7094	43	no
7095	55	no
7096	68	yes
7097	28	no
7098	36	no
7099	45	no
7100	29	no

7101	20	no
7102	42	no
7103	29	no
7104	22	no
7105	51	no
7106	22	no
7107	40	no
7108	72	yes
7109	46	no
7110	25	no
7111	57	no
7112	48	no
7113	63	yes
7114	51	no
7115	47	no
7116	33	no
7117	20	no
7118	29	no
7119	37	no
7120	27	no
7121	28	no
7122	28	no
7123	31	no
7124	43	no
7125	35	no
7126	36	no
7127	23	no
7128	52	no
7129	43	no
7130	40	no
7131	41	no
7132	31	no
7133	19	no
7134	63	yes
7135	57	no
7136	56	no
7137	28	no
7138	48	no
7139	30	no
7140	33	no
7141	49	no
7142	53	no
7143	14	no

7144	30	no
7145	61	yes
7146	46	no
7147	44	no
7148	41	no
7149	11	no
7150	43	no
7151	67	yes
7152	50	no
7153	28	no
7154	64	yes
7155	64	yes
7156	31	no
7157	32	no
7158	43	no
7159	30	no
7160	75	yes
7161	21	no
7162	50	no
7163	45	no
7164	74	yes
7165	72	yes
7166	26	no
7167	38	no
7168	38	no
7169	42	no
7170	24	no
7171	34	no
7172	44	no
7173	42	no
7174	45	no
7175	30	no
7176	68	yes
7177	42	no
7178	70	yes
7179	74	yes
7180	67	yes
7181	65	yes
7182	44	no
7183	26	no
7184	50	no
7185	55	no
7186	31	no

7187	52	no
7188	30	no
7189	64	yes
7190	47	no
7191	57	no
7192	33	no
7193	46	no
7194	52	no
7195	28	no
7196	54	no
7197	61	yes
7198	31	no
7199	3	no
7200	29	no
7201	66	yes
7202	83	yes
7203	39	no
7204	47	no
7205	31	no
7206	65	yes
7207	27	no
7208	18	no
7209	27	no
7210	8	no
7211	19	no
7212	37	no
7213	47	no
7214	46	no
7215	67	yes
7216	29	no
7217	24	no
7218	67	yes
7219	23	no
7220	40	no
7221	50	no
7222	21	no
7223	71	yes
7224	38	no
7225	37	no
7226	23	no
7227	39	no
7228	55	no
7229	32	no

7230	37	no
7231	25	no
7232	10	no
7233	68	yes
7234	36	no
7235	48	no
7236	41	no
7237	23	no
7238	48	no
7239	23	no
7240	30	no
7241	63	yes
7242	23	no
7243	56	no
7244	54	no
7245	49	no
7246	67	yes
7247	39	no
7248	42	no
7249	65	yes
7250	31	no
7251	52	no
7252	7	no
7253	38	no
7254	53	no
7255	69	yes
7256	41	no
7257	67	yes
7258	28	no
7259	32	no
7260	24	no
7261	58	no
7262	30	no
7263	45	no
7264	64	yes
7265	42	no
7266	30	no
7267	25	no
7268	89	yes
7269	35	no
7270	25	no
7271	30	no
7272	36	no

7273	80	yes
7274	60	no
7275	42	no
7276	35	no
7277	35	no
7278	24	no
7279	30	no
7280	42	no
7281	33	no
7282	26	no
7283	50	no
7284	72	yes
7285	27	no
7286	30	no
7287	29	no
7288	29	no
7289	77	yes
7290	28	no
7291	9	no
7292	41	no
7293	54	no
7294	34	no
7295	49	no
7296	43	no
7297	80	yes
7298	49	no
7299	52	no
7300	32	no
7301	58	no
7302	51	no
7303	39	no
7304	41	no
7305	46	no
7306	28	no
7307	28	no
7308	62	yes
7309	56	no
7310	1	no
7311	48	no
7312	47	no
7313	9	no
7314	51	no
7315	37	no

7316	26	no
7317	50	no
7318	62	yes
7319	0	no
7320	38	no
7321	36	no
7322	54	no
7323	38	no
7324	37	no
7325	68	yes
7326	71	yes
7327	67	yes
7328	41	no
7329	45	no
7330	9	no
7331	33	no
7332	60	no
7333	30	no
7334	22	no
7335	33	no
7336	50	no
7337	31	no
7338	33	no
7339	44	no
7340	66	yes
7341	60	no
7342	21	no
7343	43	no
7344	87	yes
7345	50	no
7346	29	no
7347	28	no
7348	30	no
7349	62	yes
7350	35	no
7351	21	no
7352	44	no
7353	17	no
7354	0	no
7355	61	yes
7356	26	no
7357	26	no
7358	93	yes

7359	26	no
7360	32	no
7361	48	no
7362	34	no
7363	47	no
7364	63	yes
7365	57	no
7366	77	yes
7367	65	yes
7368	40	no
7369	34	no
7370	35	no
7371	29	no
7372	25	no
7373	18	no
7374	47	no
7375	53	no
7376	43	no
7377	13	no
7378	68	yes
7379	48	no
7380	58	no
7381	49	no
7382	51	no
7383	31	no
7384	44	no
7385	40	no
7386	63	yes
7387	42	no
7388	40	no
7389	50	no
7390	27	no
7391	27	no
7392	63	yes
7393	46	no
7394	28	no
7395	42	no
7396	59	no
7397	62	yes
7398	48	no
7399	76	yes
7400	27	no
7401	49	no



7402	25	no
7403	50	no
7404	33	no
7405	41	no
7406	45	no
7407	24	no
7408	29	no
7409	37	no
7410	45	no
7411	24	no
7412	40	no
7413	57	no
7414	38	no
7415	28	no
7416	71	yes
7417	28	no
7418	32	no
7419	34	no
7420	51	no
7421	52	no
7422	40	no
7423	36	no
7424	15	no
7425	58	no
7426	47	no
7427	64	yes
7428	25	no
7429	41	no
7430	63	yes
7431	26	no
7432	60	no
7433	69	yes
7434	65	yes
7435	43	no
7436	49	no
7437	28	no
7438	78	yes
7439	43	no
7440	28	no
7441	32	no
7442	45	no
7443	27	no
7444	52	no

7445	19	no
7446	22	no
7447	36	no
7448	50	no
7449	78	yes
7450	29	no
7451	42	no
7452	71	yes
7453	29	no
7454	33	no
7455	57	no
7456	44	no
7457	29	no
7458	29	no
7459	23	no
7460	36	no
7461	75	yes
7462	14	no
7463	47	no
7464	30	no
7465	40	no
7466	33	no
7467	33	no
7468	27	no
7469	73	yes
7470	34	no
7471	41	no
7472	52	no
7473	31	no
7474	84	yes
7475	80	yes
7476	27	no
7477	41	no
7478	46	no
7479	46	no
7480	44	no
7481	33	no
7482	48	no
7483	34	no
7484	69	yes
7485	63	yes
7486	30	no
7487	27	no

7488	62	yes
7489	68	yes
7490	44	no
7491	1	no
7492	51	no
7493	30	no
7494	52	no
7495	29	no
7496	67	yes
7497	61	yes
7498	57	no
7499	28	no
7500	53	no
7501	32	no
7502	32	no
7503	39	no
7504	35	no
7505	39	no
7506	NA	<NA>
7507	44	no
7508	31	no
7509	25	no
7510	39	no
7511	36	no
7512	52	no
7513	33	no
7514	55	no
7515	43	no
7516	31	no
7517	44	no
7518	73	yes
7519	53	no
7520	34	no
7521	49	no
7522	63	yes
7523	73	yes
7524	24	no
7525	46	no
7526	52	no
7527	21	no
7528	46	no
7529	37	no
7530	88	yes

7531	28	no
7532	37	no
7533	58	no
7534	0	no
7535	41	no
7536	59	no
7537	28	no
7538	53	no
7539	50	no
7540	28	no
7541	65	yes
7542	58	no
7543	25	no
7544	30	no
7545	21	no
7546	70	yes
7547	44	no
7548	41	no
7549	45	no
7550	33	no
7551	33	no
7552	53	no
7553	26	no
7554	27	no
7555	51	no
7556	23	no
7557	59	no
7558	16	no
7559	34	no
7560	34	no
7561	14	no
7562	52	no
7563	40	no
7564	67	yes
7565	48	no
7566	54	no
7567	55	no
7568	42	no
7569	29	no
7570	25	no
7571	49	no
7572	45	no
7573	59	no

7574	46	no
7575	72	yes
7576	30	no
7577	36	no
7578	48	no
7579	53	no
7580	42	no
7581	NA	<NA>
7582	57	no
7583	28	no
7584	28	no
7585	33	no
7586	54	no
7587	33	no
7588	26	no
7589	24	no
7590	56	no
7591	23	no
7592	23	no
7593	26	no
7594	32	no
7595	28	no
7596	34	no
7597	54	no
7598	36	no
7599	56	no
7600	62	yes
7601	64	yes
7602	74	yes
7603	27	no
7604	27	no
7605	19	no
7606	61	yes
7607	23	no
7608	23	no
7609	73	yes
7610	25	no
7611	57	no
7612	61	yes
7613	30	no
7614	30	no
7615	26	no
7616	48	no

7617	29	no
7618	48	no
7619	77	yes
7620	61	yes
7621	63	yes
7622	45	no
7623	51	no
7624	32	no
7625	14	no
7626	31	no
7627	64	yes
7628	40	no
7629	44	no
7630	25	no
7631	54	no
7632	30	no
7633	34	no
7634	68	yes
7635	38	no
7636	75	yes
7637	61	yes
7638	26	no
7639	14	no
7640	18	no
7641	41	no
7642	52	no
7643	40	no
7644	62	yes
7645	64	yes
7646	65	yes
7647	36	no
7648	38	no
7649	69	yes
7650	24	no
7651	40	no
7652	59	no
7653	57	no
7654	46	no
7655	27	no
7656	57	no
7657	6	no
7658	29	no
7659	67	yes

7660	77	yes
7661	81	yes
7662	26	no
7663	31	no
7664	35	no
7665	32	no
7666	68	yes
7667	35	no
7668	13	no
7669	69	yes
7670	30	no
7671	46	no
7672	23	no
7673	29	no
7674	26	no
7675	67	yes
7676	48	no
7677	73	yes
7678	60	no
7679	34	no
7680	59	no
7681	46	no
7682	27	no
7683	43	no
7684	35	no
7685	55	no
7686	66	yes
7687	54	no
7688	45	no
7689	82	yes
7690	34	no
7691	35	no
7692	46	no
7693	44	no
7694	43	no
7695	36	no
7696	60	no
7697	25	no
7698	36	no
7699	29	no
7700	77	yes
7701	65	yes
7702	50	no

7703	62	yes
7704	28	no
7705	52	no
7706	43	no
7707	65	yes
7708	59	no
7709	27	no
7710	57	no
7711	22	no
7712	50	no
7713	61	yes
7714	58	no
7715	58	no
7716	36	no
7717	49	no
7718	59	no
7719	49	no
7720	47	no
7721	36	no
7722	37	no
7723	56	no
7724	38	no
7725	34	no
7726	30	no
7727	44	no
7728	22	no
7729	29	no
7730	52	no
7731	50	no
7732	43	no
7733	31	no
7734	31	no
7735	28	no
7736	43	no
7737	31	no
7738	25	no
7739	13	no
7740	34	no
7741	41	no
7742	59	no
7743	38	no
7744	14	no
7745	63	yes



7746	71	yes
7747	55	no
7748	67	yes
7749	28	no
7750	48	no
7751	50	no
7752	54	no
7753	28	no
7754	67	yes
7755	4	no
7756	47	no
7757	10	no
7758	85	yes
7759	40	no
7760	23	no
7761	30	no
7762	28	no
7763	31	no
7764	14	no
7765	44	no
7766	32	no
7767	5	no
7768	67	yes
7769	29	no
7770	52	no
7771	59	no
7772	33	no
7773	60	no
7774	26	no
7775	45	no
7776	62	yes
7777	54	no
7778	22	no
7779	47	no
7780	28	no
7781	31	no
7782	20	no
7783	29	no
7784	33	no
7785	25	no
7786	23	no
7787	61	yes
7788	31	no

7789	46	no
7790	52	no
7791	57	no
7792	52	no
7793	63	yes
7794	44	no
7795	47	no
7796	42	no
7797	29	no
7798	51	no
7799	63	yes
7800	23	no
7801	46	no
7802	59	no
7803	73	yes
7804	35	no
7805	63	yes
7806	55	no
7807	37	no
7808	23	no
7809	52	no
7810	15	no
7811	57	no
7812	49	no
7813	37	no
7814	22	no
7815	63	yes
7816	NA	<NA>
7817	58	no
7818	41	no
7819	8	no
7820	62	yes
7821	28	no
7822	25	no
7823	38	no
7824	62	yes
7825	16	no
7826	48	no
7827	22	no
7828	25	no
7829	43	no
7830	66	yes
7831	50	no

7832	22	no
7833	25	no
7834	31	no
7835	54	no
7836	16	no
7837	21	no
7838	28	no
7839	47	no
7840	49	no
7841	74	yes
7842	39	no
7843	67	yes
7844	39	no
7845	24	no
7846	32	no
7847	29	no
7848	83	yes
7849	66	yes
7850	62	yes
7851	74	yes
7852	8	no
7853	58	no
7854	36	no
7855	61	yes
7856	28	no
7857	18	no
7858	57	no
7859	58	no
7860	46	no
7861	90	yes
7862	31	no
7863	56	no
7864	59	no
7865	46	no
7866	62	yes
7867	49	no
7868	45	no
7869	11	no
7870	37	no
7871	50	no
7872	53	no
7873	33	no
7874	22	no

7875	80	yes
7876	1	no
7877	15	no
7878	71	yes
7879	46	no
7880	22	no
7881	28	no
7882	43	no
7883	19	no
7884	24	no
7885	48	no
7886	49	no
7887	63	yes
7888	13	no
7889	52	no
7890	57	no
7891	39	no
7892	30	no
7893	52	no
7894	25	no
7895	49	no
7896	39	no
7897	31	no
7898	28	no
7899	36	no
7900	58	no
7901	77	yes
7902	45	no
7903	56	no
7904	17	no
7905	27	no
7906	45	no
7907	28	no
7908	55	no
7909	34	no
7910	49	no
7911	30	no
7912	19	no
7913	3	no
7914	29	no
7915	51	no
7916	39	no
7917	31	no

7918	59	no
7919	30	no
7920	30	no
7921	24	no
7922	33	no
7923	20	no
7924	30	no
7925	75	yes
7926	48	no
7927	71	yes
7928	54	no
7929	35	no
7930	27	no
7931	21	no
7932	34	no
7933	38	no
7934	39	no
7935	57	no
7936	65	yes
7937	67	yes
7938	50	no
7939	27	no
7940	50	no
7941	49	no
7942	26	no
7943	25	no
7944	67	yes
7945	61	yes
7946	65	yes
7947	30	no
7948	41	no
7949	57	no
7950	38	no
7951	30	no
7952	31	no
7953	39	no
7954	28	no
7955	37	no
7956	45	no
7957	26	no
7958	52	no
7959	80	yes
7960	79	yes

7961	36	no
7962	37	no
7963	48	no
7964	37	no
7965	0	no
7966	21	no
7967	25	no
7968	60	no
7969	61	yes
7970	29	no
7971	42	no
7972	43	no
7973	33	no
7974	51	no
7975	31	no
7976	36	no
7977	62	yes
7978	56	no
7979	57	no
7980	45	no
7981	49	no
7982	31	no
7983	20	no
7984	44	no
7985	37	no
7986	26	no
7987	38	no
7988	44	no
7989	60	no
7990	42	no
7991	30	no
7992	74	yes
7993	74	yes
7994	51	no
7995	43	no
7996	51	no
7997	31	no
7998	37	no
7999	18	no
8000	31	no
8001	61	yes
8002	57	no
8003	51	no

8004	36	no
8005	29	no
8006	52	no
8007	36	no
8008	72	yes
8009	51	no
8010	28	no
8011	51	no
8012	27	no
8013	55	no
8014	32	no
8015	56	no
8016	28	no
8017	48	no
8018	52	no
8019	26	no
8020	26	no
8021	50	no
8022	45	no
8023	31	no
8024	24	no
8025	53	no
8026	26	no
8027	36	no
8028	59	no
8029	26	no
8030	26	no
8031	43	no
8032	72	yes
8033	36	no
8034	26	no
8035	23	no
8036	21	no
8037	33	no
8038	NA	<NA>
8039	30	no
8040	62	yes
8041	45	no
8042	59	no
8043	13	no
8044	20	no
8045	23	no
8046	3	no

8047	33	no
8048	47	no
8049	57	no
8050	39	no
8051	25	no
8052	74	yes
8053	50	no
8054	57	no
8055	44	no
8056	7	no
8057	37	no
8058	0	no
8059	29	no
8060	87	yes
8061	26	no
8062	48	no
8063	46	no
8064	60	no
8065	23	no
8066	25	no
8067	56	no
8068	25	no
8069	22	no
8070	26	no
8071	23	no
8072	79	yes
8073	32	no
8074	32	no
8075	61	yes
8076	15	no
8077	23	no
8078	31	no
8079	24	no
8080	61	yes
8081	26	no
8082	27	no
8083	49	no
8084	85	yes
8085	50	no
8086	32	no
8087	47	no
8088	57	no
8089	26	no



8090	44	no
8091	75	yes
8092	70	yes
8093	58	no
8094	46	no
8095	49	no
8096	40	no
8097	29	no
8098	45	no
8099	26	no
8100	2	no
8101	27	no
8102	43	no
8103	47	no
8104	31	no
8105	49	no
8106	34	no
8107	30	no
8108	47	no
8109	45	no
8110	55	no
8111	30	no
8112	33	no
8113	3	no
8114	22	no
8115	42	no
8116	40	no
8117	49	no
8118	51	no
8119	37	no
8120	55	no
8121	25	no
8122	8	no
8123	38	no
8124	59	no
8125	13	no
8126	34	no
8127	32	no
8128	21	no
8129	45	no
8130	29	no
8131	89	yes
8132	23	no

8133	53	no
8134	58	no
8135	49	no
8136	39	no
8137	56	no
8138	56	no
8139	33	no
8140	34	no
8141	29	no
8142	21	no
8143	46	no
8144	8	no
8145	29	no
8146	23	no
8147	30	no
8148	32	no
8149	33	no
8150	72	yes
8151	28	no
8152	30	no
8153	54	no
8154	37	no
8155	25	no
8156	39	no
8157	22	no
8158	34	no
8159	41	no
8160	70	yes
8161	37	no
8162	69	yes
8163	57	no
8164	16	no
8165	23	no
8166	64	yes
8167	40	no
8168	23	no
8169	28	no
8170	31	no
8171	60	no
8172	34	no
8173	24	no
8174	65	yes
8175	30	no

8176	70	yes
8177	27	no
8178	50	no
8179	51	no
8180	27	no
8181	42	no
8182	70	yes
8183	33	no
8184	33	no
8185	15	no
8186	29	no
8187	25	no
8188	21	no
8189	21	no
8190	48	no
8191	48	no
8192	41	no
8193	63	yes
8194	35	no
8195	69	yes
8196	31	no
8197	54	no
8198	43	no
8199	32	no
8200	60	no
8201	34	no
8202	29	no
8203	47	no
8204	77	yes
8205	27	no
8206	59	no
8207	46	no
8208	31	no
8209	22	no
8210	79	yes
8211	40	no
8212	38	no
8213	44	no
8214	52	no
8215	11	no
8216	54	no
8217	50	no
8218	24	no

8219	59	no
8220	60	no
8221	28	no
8222	13	no
8223	35	no
8224	44	no
8225	30	no
8226	49	no
8227	62	yes
8228	82	yes
8229	28	no
8230	2	no
8231	30	no
8232	33	no
8233	54	no
8234	45	no
8235	35	no
8236	32	no
8237	51	no
8238	13	no
8239	11	no
8240	35	no
8241	38	no
8242	46	no
8243	31	no
8244	46	no
8245	6	no
8246	30	no
8247	54	no
8248	32	no
8249	5	no
8250	59	no
8251	24	no
8252	2	no
8253	32	no
8254	38	no
8255	33	no
8256	79	yes
8257	7	no
8258	8	no
8259	62	yes
8260	36	no
8261	62	yes

8262	41	no
8263	33	no
8264	65	yes
8265	31	no
8266	25	no
8267	62	yes
8268	26	no
8269	12	no
8270	49	no
8271	61	yes
8272	60	no
8273	19	no
8274	78	yes
8275	60	no
8276	35	no
8277	31	no
8278	28	no
8279	40	no
8280	16	no
8281	18	no
8282	24	no
8283	62	yes
8284	53	no
8285	25	no
8286	78	yes
8287	36	no
8288	43	no
8289	35	no
8290	0	no
8291	65	yes
8292	29	no
8293	26	no
8294	29	no
8295	33	no
8296	39	no
8297	18	no
8298	26	no
8299	32	no
8300	20	no
8301	26	no
8302	33	no
8303	56	no
8304	70	yes

8305	84	yes
8306	29	no
8307	66	yes
8308	38	no
8309	0	no
8310	42	no
8311	38	no
8312	42	no
8313	30	no
8314	31	no
8315	27	no
8316	39	no
8317	39	no
8318	30	no
8319	29	no
8320	38	no
8321	65	yes
8322	12	no
8323	32	no
8324	65	yes
8325	36	no
8326	50	no
8327	48	no
8328	33	no
8329	25	no
8330	30	no
8331	56	no
8332	46	no
8333	38	no
8334	46	no
8335	20	no
8336	31	no
8337	8	no
8338	55	no
8339	45	no
8340	31	no
8341	48	no
8342	58	no
8343	81	yes
8344	15	no
8345	21	no
8346	80	yes
8347	22	no

8348	29	no
8349	78	yes
8350	26	no
8351	76	yes
8352	50	no
8353	67	yes
8354	69	yes
8355	25	no
8356	22	no
8357	32	no
8358	70	yes
8359	63	yes
8360	42	no
8361	37	no
8362	0	no
8363	61	yes
8364	72	yes
8365	31	no
8366	36	no
8367	52	no
8368	31	no
8369	67	yes
8370	21	no
8371	21	no
8372	22	no
8373	46	no
8374	55	no
8375	17	no
8376	41	no
8377	41	no
8378	44	no
8379	34	no
8380	44	no
8381	55	no
8382	28	no
8383	56	no
8384	30	no
8385	71	yes
8386	64	yes
8387	44	no
8388	30	no
8389	30	no
8390	15	no

8391	10	no
8392	29	no
8393	24	no
8394	58	no
8395	47	no
8396	50	no
8397	35	no
8398	34	no
8399	49	no
8400	32	no
8401	74	yes
8402	30	no
8403	28	no
8404	36	no
8405	33	no
8406	33	no
8407	32	no
8408	NA	<NA>
8409	45	no
8410	61	yes
8411	38	no
8412	61	yes
8413	56	no
8414	39	no
8415	56	no
8416	40	no
8417	33	no
8418	32	no
8419	59	no
8420	19	no
8421	43	no
8422	28	no
8423	33	no
8424	26	no
8425	56	no
8426	22	no
8427	42	no
8428	19	no
8429	62	yes
8430	43	no
8431	34	no
8432	40	no
8433	54	no



8434	25	no
8435	28	no
8436	71	yes
8437	31	no
8438	58	no
8439	13	no
8440	2	no
8441	61	yes
8442	50	no
8443	27	no
8444	24	no
8445	37	no
8446	66	yes
8447	50	no
8448	51	no
8449	48	no
8450	35	no
8451	44	no
8452	39	no
8453	20	no
8454	26	no
8455	48	no
8456	50	no
8457	39	no
8458	37	no
8459	22	no
8460	54	no
8461	28	no
8462	40	no
8463	31	no
8464	40	no
8465	74	yes
8466	28	no
8467	60	no
8468	34	no
8469	47	no
8470	16	no
8471	38	no
8472	22	no
8473	59	no
8474	15	no
8475	35	no
8476	24	no

8477	54	no
8478	49	no
8479	23	no
8480	44	no
8481	42	no
8482	33	no
8483	52	no
8484	39	no
8485	38	no
8486	35	no
8487	58	no
8488	54	no
8489	54	no
8490	29	no
8491	8	no
8492	41	no
8493	70	yes
8494	20	no
8495	55	no
8496	53	no
8497	49	no
8498	51	no
8499	32	no
8500	60	no
8501	15	no
8502	35	no
8503	30	no
8504	29	no
8505	23	no
8506	44	no
8507	40	no
8508	26	no
8509	45	no
8510	85	yes
8511	51	no
8512	39	no
8513	23	no
8514	61	yes
8515	7	no
8516	48	no
8517	42	no
8518	50	no
8519	28	no

8520	53	no
8521	50	no
8522	NA	<NA>
8523	28	no
8524	74	yes
8525	51	no
8526	21	no
8527	42	no
8528	50	no
8529	37	no
8530	33	no
8531	24	no
8532	40	no
8533	2	no
8534	28	no
8535	34	no
8536	37	no
8537	43	no
8538	52	no
8539	20	no
8540	45	no
8541	31	no
8542	47	no
8543	45	no
8544	56	no
8545	47	no
8546	53	no
8547	36	no
8548	38	no
8549	24	no
8550	22	no
8551	19	no
8552	42	no
8553	59	no
8554	44	no
8555	60	no
8556	59	no
8557	38	no
8558	54	no
8559	32	no
8560	19	no
8561	29	no
8562	96	yes

8563	29	no
8564	33	no
8565	33	no
8566	55	no
8567	35	no
8568	19	no
8569	30	no
8570	46	no
8571	56	no
8572	31	no
8573	36	no
8574	65	yes
8575	56	no
8576	38	no
8577	71	yes
8578	37	no
8579	40	no
8580	16	no
8581	59	no
8582	37	no
8583	30	no
8584	66	yes
8585	26	no
8586	32	no
8587	27	no
8588	25	no
8589	67	yes
8590	1	no
8591	28	no
8592	32	no
8593	62	yes
8594	24	no
8595	21	no
8596	4	no
8597	33	no
8598	65	yes
8599	48	no
8600	0	no
8601	87	yes
8602	28	no
8603	56	no
8604	28	no
8605	56	no

8606	44	no
8607	69	yes
8608	55	no
8609	25	no
8610	14	no
8611	43	no
8612	50	no
8613	43	no
8614	33	no
8615	49	no
8616	8	no
8617	50	no
8618	33	no
8619	25	no
8620	48	no
8621	48	no
8622	27	no
8623	23	no
8624	38	no
8625	51	no
8626	54	no
8627	26	no
8628	78	yes
8629	40	no
8630	24	no
8631	32	no
8632	79	yes
8633	36	no
8634	45	no
8635	38	no
8636	47	no
8637	30	no
8638	55	no
8639	32	no
8640	25	no
8641	58	no
8642	67	yes
8643	26	no
8644	8	no
8645	14	no
8646	27	no
8647	89	yes
8648	30	no

8649	51	no
8650	20	no
8651	53	no
8652	7	no
8653	49	no
8654	58	no
8655	40	no
8656	33	no
8657	40	no
8658	31	no
8659	45	no
8660	43	no
8661	29	no
8662	31	no
8663	48	no
8664	42	no
8665	30	no
8666	40	no
8667	32	no
8668	39	no
8669	33	no
8670	32	no
8671	21	no
8672	52	no
8673	34	no
8674	28	no
8675	37	no
8676	44	no
8677	37	no
8678	7	no
8679	25	no
8680	24	no
8681	58	no
8682	49	no
8683	50	no
8684	47	no
8685	49	no
8686	34	no
8687	71	yes
8688	32	no
8689	63	yes
8690	40	no
8691	35	no

8692	46	no
8693	58	no
8694	33	no
8695	16	no
8696	42	no
8697	37	no
8698	60	no
8699	39	no
8700	13	no
8701	20	no
8702	43	no
8703	22	no
8704	56	no
8705	63	yes
8706	60	no
8707	42	no
8708	52	no
8709	30	no
8710	22	no
8711	33	no
8712	60	no
8713	46	no
8714	28	no
8715	25	no
8716	47	no
8717	59	no
8718	23	no
8719	31	no
8720	29	no
8721	94	yes
8722	34	no
8723	49	no
8724	43	no
8725	25	no
8726	63	yes
8727	27	no
8728	39	no
8729	26	no
8730	80	yes
8731	3	no
8732	80	yes
8733	39	no
8734	26	no

8735	15	no
8736	44	no
8737	51	no
8738	44	no
8739	39	no
8740	29	no
8741	29	no
8742	24	no
8743	30	no
8744	40	no
8745	51	no
8746	40	no
8747	58	no
8748	22	no
8749	19	no
8750	41	no
8751	39	no
8752	30	no
8753	48	no
8754	40	no
8755	70	yes
8756	41	no
8757	1	no
8758	36	no
8759	49	no
8760	36	no
8761	48	no
8762	15	no
8763	39	no
8764	45	no
8765	33	no
8766	38	no
8767	56	no
8768	21	no
8769	37	no
8770	35	no
8771	19	no
8772	28	no
8773	91	yes
8774	22	no
8775	33	no
8776	2	no
8777	44	no



8778	21	no
8779	16	no
8780	26	no
8781	29	no
8782	38	no
8783	23	no
8784	NA	<NA>
8785	0	no
8786	77	yes
8787	33	no
8788	17	no
8789	33	no
8790	23	no
8791	6	no
8792	32	no
8793	31	no
8794	65	yes
8795	70	yes
8796	34	no
8797	41	no
8798	30	no
8799	10	no
8800	26	no
8801	58	no
8802	5	no
8803	18	no
8804	3	no
8805	42	no
8806	26	no
8807	75	yes
8808	51	no
8809	39	no
8810	34	no
8811	37	no
8812	37	no
8813	15	no
8814	38	no
8815	91	yes
8816	72	yes
8817	66	yes
8818	41	no
8819	27	no
8820	50	no

8821	67	yes
8822	19	no
8823	66	yes
8824	68	yes
8825	33	no
8826	48	no
8827	58	no
8828	57	no
8829	55	no
8830	30	no
8831	28	no
8832	31	no
8833	42	no
8834	53	no
8835	26	no
8836	38	no
8837	15	no
8838	28	no
8839	32	no
8840	25	no
8841	56	no
8842	26	no
8843	48	no
8844	34	no
8845	19	no
8846	58	no
8847	70	yes
8848	33	no
8849	33	no
8850	47	no
8851	50	no
8852	23	no
8853	39	no
8854	33	no
8855	31	no
8856	70	yes
8857	29	no
8858	35	no
8859	67	yes
8860	14	no
8861	36	no
8862	23	no
8863	32	no

8864	37	no
8865	47	no
8866	37	no
8867	30	no
8868	47	no
8869	35	no
8870	48	no
8871	45	no
8872	73	yes
8873	23	no
8874	25	no
8875	27	no
8876	14	no
8877	75	yes
8878	27	no
8879	12	no
8880	23	no
8881	56	no
8882	31	no
8883	77	yes
8884	47	no
8885	33	no
8886	17	no
8887	41	no
8888	48	no
8889	39	no
8890	31	no
8891	37	no
8892	59	no
8893	38	no
8894	34	no
8895	48	no
8896	31	no
8897	59	no
8898	44	no
8899	56	no
8900	27	no
8901	42	no
8902	15	no
8903	28	no
8904	61	yes
8905	39	no
8906	53	no

8907	43	no
8908	31	no
8909	44	no
8910	48	no
8911	48	no
8912	74	yes
8913	42	no
8914	28	no
8915	60	no
8916	62	yes
8917	25	no
8918	36	no
8919	22	no
8920	42	no
8921	31	no
8922	33	no
8923	68	yes
8924	26	no
8925	69	yes
8926	31	no
8927	43	no
8928	37	no
8929	31	no
8930	59	no
8931	24	no
8932	41	no
8933	58	no
8934	23	no
8935	62	yes
8936	66	yes
8937	39	no
8938	32	no
8939	34	no
8940	38	no
8941	30	no
8942	61	yes
8943	29	no
8944	44	no
8945	39	no
8946	15	no
8947	60	no
8948	32	no
8949	16	no

8950	21	no
8951	45	no
8952	47	no
8953	31	no
8954	33	no
8955	25	no
8956	43	no
8957	19	no
8958	37	no
8959	82	yes
8960	33	no
8961	74	yes
8962	61	yes
8963	46	no
8964	87	yes
8965	20	no
8966	45	no
8967	76	yes
8968	20	no
8969	32	no
8970	10	no
8971	38	no
8972	30	no
8973	59	no
8974	18	no
8975	36	no
8976	31	no
8977	21	no
8978	30	no
8979	47	no
8980	29	no
8981	59	no
8982	9	no
8983	78	yes
8984	39	no
8985	21	no
8986	61	yes
8987	44	no
8988	35	no
8989	31	no
8990	52	no
8991	16	no
8992	69	yes

8993	27	no
8994	38	no
8995	55	no
8996	40	no
8997	38	no
8998	30	no
8999	12	no
9000	20	no
9001	60	no
9002	25	no
9003	39	no
9004	37	no
9005	32	no
9006	57	no
9007	32	no
9008	23	no
9009	27	no
9010	51	no
9011	27	no
9012	17	no
9013	72	yes
9014	30	no
9015	57	no
9016	64	yes
9017	47	no
9018	36	no
9019	24	no
9020	77	yes
9021	59	no
9022	32	no
9023	20	no
9024	15	no
9025	30	no
9026	13	no
9027	32	no
9028	68	yes
9029	37	no
9030	26	no
9031	46	no
9032	58	no
9033	25	no
9034	32	no
9035	26	no

9036	72	yes
9037	49	no
9038	9	no
9039	20	no
9040	27	no
9041	62	yes
9042	82	yes
9043	61	yes
9044	52	no
9045	33	no
9046	26	no
9047	27	no
9048	53	no
9049	63	yes
9050	48	no
9051	58	no
9052	44	no
9053	64	yes
9054	31	no
9055	29	no
9056	57	no
9057	21	no
9058	37	no
9059	25	no
9060	72	yes
9061	28	no
9062	35	no
9063	25	no
9064	27	no
9065	28	no
9066	33	no
9067	30	no
9068	42	no
9069	32	no
9070	47	no
9071	38	no
9072	49	no
9073	48	no
9074	21	no
9075	27	no
9076	73	yes
9077	51	no
9078	17	no

9079	64	yes
9080	30	no
9081	34	no
9082	30	no
9083	86	yes
9084	29	no
9085	51	no
9086	29	no
9087	9	no
9088	54	no
9089	18	no
9090	38	no
9091	33	no
9092	21	no
9093	40	no
9094	23	no
9095	26	no
9096	56	no
9097	35	no
9098	30	no
9099	45	no
9100	52	no
9101	2	no
9102	41	no
9103	62	yes
9104	31	no
9105	37	no
9106	47	no
9107	26	no
9108	49	no
9109	22	no
9110	42	no
9111	19	no
9112	51	no
9113	32	no
9114	34	no
9115	61	yes
9116	45	no
9117	26	no
9118	30	no
9119	68	yes
9120	36	no
9121	32	no



9122	55	no
9123	81	yes
9124	55	no
9125	56	no
9126	22	no
9127	30	no
9128	50	no
9129	31	no
9130	36	no
9131	35	no
9132	27	no
9133	22	no
9134	35	no
9135	59	no
9136	0	no
9137	58	no
9138	26	no
9139	1	no
9140	42	no
9141	30	no
9142	18	no
9143	5	no
9144	45	no
9145	62	yes
9146	5	no
9147	68	yes
9148	50	no
9149	71	yes
9150	25	no
9151	43	no
9152	52	no
9153	37	no
9154	29	no
9155	65	yes
9156	31	no
9157	23	no
9158	56	no
9159	44	no
9160	29	no
9161	21	no
9162	62	yes
9163	58	no
9164	56	no

9165	64	yes
9166	60	no
9167	58	no
9168	37	no
9169	29	no
9170	46	no
9171	54	no
9172	62	yes
9173	24	no
9174	22	no
9175	0	no
9176	20	no
9177	32	no
9178	29	no
9179	55	no
9180	52	no
9181	23	no
9182	50	no
9183	68	yes
9184	25	no
9185	64	yes
9186	21	no
9187	23	no
9188	30	no
9189	11	no
9190	44	no
9191	16	no
9192	33	no
9193	46	no
9194	56	no
9195	13	no
9196	27	no
9197	52	no
9198	56	no
9199	46	no
9200	68	yes
9201	24	no
9202	44	no
9203	13	no
9204	30	no
9205	28	no
9206	46	no
9207	11	no

9208	40	no
9209	34	no
9210	44	no
9211	47	no
9212	56	no
9213	48	no
9214	57	no
9215	44	no
9216	23	no
9217	35	no
9218	44	no
9219	14	no
9220	24	no
9221	56	no
9222	28	no
9223	81	yes
9224	49	no
9225	29	no
9226	23	no
9227	41	no
9228	52	no
9229	28	no
9230	39	no
9231	15	no
9232	80	yes
9233	23	no
9234	27	no
9235	42	no
9236	52	no
9237	52	no
9238	49	no
9239	32	no
9240	27	no
9241	19	no
9242	53	no
9243	22	no
9244	46	no
9245	45	no
9246	36	no
9247	30	no
9248	37	no
9249	25	no
9250	43	no

9251	43	no
9252	59	no
9253	44	no
9254	42	no
9255	35	no
9256	25	no
9257	37	no
9258	60	no
9259	62	yes
9260	65	yes
9261	61	yes
9262	36	no
9263	60	no
9264	46	no
9265	46	no
9266	28	no
9267	35	no
9268	33	no
9269	44	no
9270	73	yes
9271	23	no
9272	52	no
9273	27	no
9274	47	no
9275	27	no
9276	25	no
9277	29	no
9278	56	no
9279	31	no
9280	57	no
9281	34	no
9282	52	no
9283	56	no
9284	35	no
9285	32	no
9286	33	no
9287	47	no
9288	48	no
9289	55	no
9290	45	no
9291	49	no
9292	53	no
9293	46	no

9294	11	no
9295	31	no
9296	35	no
9297	46	no
9298	22	no
9299	63	yes
9300	67	yes
9301	24	no
9302	35	no
9303	55	no
9304	44	no
9305	29	no
9306	50	no
9307	39	no
9308	30	no
9309	43	no
9310	35	no
9311	28	no
9312	25	no
9313	64	yes
9314	12	no
9315	29	no
9316	53	no
9317	74	yes
9318	36	no
9319	64	yes
9320	39	no
9321	55	no
9322	25	no
9323	27	no
9324	26	no
9325	37	no
9326	25	no
9327	50	no
9328	58	no
9329	18	no
9330	7	no
9331	26	no
9332	44	no
9333	68	yes
9334	63	yes
9335	40	no
9336	30	no

9337	34	no
9338	48	no
9339	35	no
9340	35	no
9341	91	yes
9342	11	no
9343	51	no
9344	26	no
9345	33	no
9346	54	no
9347	47	no
9348	42	no
9349	22	no
9350	29	no
9351	34	no
9352	29	no
9353	42	no
9354	20	no
9355	26	no
9356	25	no
9357	9	no
9358	41	no
9359	53	no
9360	39	no
9361	48	no
9362	20	no
9363	54	no
9364	40	no
9365	37	no
9366	54	no
9367	21	no
9368	36	no
9369	33	no
9370	29	no
9371	56	no
9372	30	no
9373	34	no
9374	47	no
9375	32	no
9376	37	no
9377	37	no
9378	42	no
9379	71	yes

9380	48	no
9381	51	no
9382	67	yes
9383	16	no
9384	59	no
9385	48	no
9386	39	no
9387	37	no
9388	27	no
9389	36	no
9390	37	no
9391	26	no
9392	54	no
9393	44	no
9394	18	no
9395	40	no
9396	64	yes
9397	39	no
9398	41	no
9399	53	no
9400	28	no
9401	25	no
9402	34	no
9403	24	no
9404	45	no
9405	9	no
9406	54	no
9407	12	no
9408	54	no
9409	39	no
9410	51	no
9411	37	no
9412	68	yes
9413	25	no
9414	23	no
9415	32	no
9416	35	no
9417	40	no
9418	15	no
9419	43	no
9420	48	no
9421	29	no
9422	39	no

9423	31	no
9424	99	yes
9425	32	no
9426	27	no
9427	40	no
9428	33	no
9429	35	no
9430	23	no
9431	35	no
9432	37	no
9433	45	no
9434	27	no
9435	23	no
9436	21	no
9437	61	yes
9438	51	no
9439	32	no
9440	24	no
9441	51	no
9442	27	no
9443	29	no
9444	42	no
9445	15	no
9446	32	no
9447	26	no
9448	39	no
9449	63	yes
9450	29	no
9451	34	no
9452	25	no
9453	24	no
9454	34	no
9455	44	no
9456	36	no
9457	41	no
9458	34	no
9459	22	no
9460	24	no
9461	58	no
9462	19	no
9463	78	yes
9464	42	no
9465	28	no



9466	57	no
9467	26	no
9468	42	no
9469	28	no
9470	33	no
9471	1	no
9472	55	no
9473	0	no
9474	57	no
9475	43	no
9476	24	no
9477	52	no
9478	34	no
9479	29	no
9480	25	no
9481	85	yes
9482	42	no
9483	37	no
9484	37	no
9485	30	no
9486	54	no
9487	78	yes
9488	62	yes
9489	39	no
9490	57	no
9491	20	no
9492	32	no
9493	59	no
9494	29	no
9495	55	no
9496	15	no
9497	75	yes
9498	52	no
9499	54	no
9500	47	no
9501	0	no
9502	56	no
9503	26	no
9504	16	no
9505	19	no
9506	51	no
9507	33	no
9508	36	no

9509	30	no
9510	63	yes
9511	34	no
9512	21	no
9513	39	no
9514	56	no
9515	89	yes
9516	36	no
9517	24	no
9518	39	no
9519	43	no
9520	26	no
9521	41	no
9522	25	no
9523	40	no
9524	30	no
9525	80	yes
9526	53	no
9527	50	no
9528	52	no
9529	34	no
9530	29	no
9531	2	no
9532	24	no
9533	24	no
9534	28	no
9535	27	no
9536	44	no
9537	59	no
9538	71	yes
9539	18	no
9540	81	yes
9541	38	no
9542	55	no
9543	36	no
9544	37	no
9545	21	no
9546	82	yes
9547	38	no
9548	29	no
9549	70	yes
9550	32	no
9551	44	no

9552	64	yes
9553	26	no
9554	36	no
9555	52	no
9556	55	no
9557	32	no
9558	44	no
9559	45	no
9560	56	no
9561	65	yes
9562	22	no
9563	33	no
9564	31	no
9565	42	no
9566	32	no
9567	31	no
9568	60	no
9569	27	no
9570	67	yes
9571	45	no
9572	23	no
9573	26	no
9574	17	no
9575	62	yes
9576	29	no
9577	26	no
9578	45	no
9579	61	yes
9580	47	no
9581	30	no
9582	36	no
9583	32	no
9584	7	no
9585	42	no
9586	80	yes
9587	27	no
9588	32	no
9589	52	no
9590	57	no
9591	28	no
9592	59	no
9593	50	no
9594	32	no

9595	34	no
9596	50	no
9597	80	yes
9598	32	no
9599	1	no
9600	83	yes
9601	57	no
9602	8	no
9603	58	no
9604	31	no
9605	6	no
9606	61	yes
9607	60	no
9608	30	no
9609	78	yes
9610	32	no
9611	52	no
9612	33	no
9613	63	yes
9614	50	no
9615	32	no
9616	34	no
9617	31	no
9618	47	no
9619	33	no
9620	35	no
9621	58	no
9622	49	no
9623	31	no
9624	18	no
9625	41	no
9626	41	no
9627	56	no
9628	30	no
9629	35	no
9630	25	no
9631	31	no
9632	16	no
9633	72	yes
9634	60	no
9635	46	no
9636	80	yes
9637	41	no

9638	23	no
9639	44	no
9640	33	no
9641	54	no
9642	21	no
9643	28	no
9644	13	no
9645	72	yes
9646	30	no
9647	22	no
9648	31	no
9649	38	no
9650	59	no
9651	73	yes
9652	57	no
9653	28	no
9654	55	no
9655	48	no
9656	28	no
9657	33	no
9658	46	no
9659	60	no
9660	24	no
9661	67	yes
9662	3	no
9663	56	no
9664	36	no
9665	49	no
9666	31	no
9667	35	no
9668	55	no
9669	6	no
9670	47	no
9671	44	no
9672	NA	<NA>
9673	29	no
9674	42	no
9675	5	no
9676	36	no
9677	56	no
9678	31	no
9679	60	no
9680	33	no

9681	27	no
9682	27	no
9683	27	no
9684	24	no
9685	25	no
9686	31	no
9687	NA	<NA>
9688	60	no
9689	48	no
9690	34	no
9691	19	no
9692	48	no
9693	73	yes
9694	0	no
9695	27	no
9696	67	yes
9697	20	no
9698	47	no
9699	59	no
9700	58	no
9701	35	no
9702	26	no
9703	29	no
9704	13	no
9705	74	yes
9706	17	no
9707	73	yes
9708	43	no
9709	36	no
9710	50	no
9711	8	no
9712	72	yes
9713	32	no
9714	70	yes
9715	79	yes
9716	26	no
9717	64	yes
9718	64	yes
9719	21	no
9720	34	no
9721	37	no
9722	30	no
9723	20	no

9724	67	yes
9725	42	no
9726	34	no
9727	62	yes
9728	45	no
9729	38	no
9730	18	no
9731	44	no
9732	43	no
9733	50	no
9734	49	no
9735	73	yes
9736	36	no
9737	73	yes
9738	15	no
9739	61	yes
9740	15	no
9741	47	no
9742	25	no
9743	67	yes
9744	NA	<NA>
9745	79	yes
9746	8	no
9747	28	no
9748	2	no
9749	37	no
9750	57	no
9751	18	no
9752	70	yes
9753	50	no
9754	23	no
9755	28	no
9756	25	no
9757	34	no
9758	27	no
9759	77	yes
9760	31	no
9761	25	no
9762	24	no
9763	69	yes
9764	25	no
9765	42	no
9766	21	no

9767	19	no
9768	72	yes
9769	15	no
9770	59	no
9771	14	no
9772	20	no
9773	19	no
9774	60	no
9775	16	no
9776	30	no
9777	25	no
9778	52	no
9779	31	no
9780	57	no
9781	44	no
9782	49	no
9783	48	no
9784	41	no
9785	16	no
9786	48	no
9787	40	no
9788	18	no
9789	55	no
9790	53	no
9791	34	no
9792	29	no
9793	17	no
9794	15	no
9795	24	no
9796	22	no
9797	87	yes
9798	83	yes
9799	50	no
9800	34	no
9801	41	no
9802	45	no
9803	41	no
9804	65	yes
9805	25	no
9806	10	no
9807	24	no
9808	4	no
9809	67	yes



9810	57	no
9811	19	no
9812	50	no
9813	33	no
9814	41	no
9815	73	yes
9816	16	no
9817	24	no
9818	66	yes
9819	48	no
9820	25	no
9821	46	no
9822	34	no
9823	53	no
9824	22	no
9825	35	no
9826	78	yes
9827	26	no
9828	40	no
9829	19	no
9830	11	no
9831	47	no
9832	43	no
9833	55	no
9834	38	no
9835	77	yes
9836	24	no
9837	30	no
9838	8	no
9839	28	no
9840	37	no
9841	NA	<NA>
9842	29	no
9843	43	no
9844	55	no
9845	63	yes
9846	58	no
9847	25	no
9848	49	no
9849	20	no
9850	68	yes
9851	53	no
9852	62	yes

9853	26	no
9854	73	yes
9855	29	no
9856	32	no
9857	17	no
9858	44	no
9859	12	no
9860	26	no
9861	22	no
9862	34	no
9863	33	no
9864	46	no
9865	33	no
9866	57	no
9867	34	no
9868	21	no
9869	59	no
9870	36	no
9871	56	no
9872	48	no
9873	33	no
9874	65	yes
9875	53	no
9876	51	no
9877	22	no
9878	20	no
9879	70	yes
9880	51	no
9881	33	no
9882	53	no
9883	61	yes
9884	46	no
9885	40	no
9886	47	no
9887	65	yes
9888	9	no
9889	34	no
9890	37	no
9891	58	no
9892	24	no
9893	69	yes
9894	71	yes
9895	26	no

9896	75	yes
9897	34	no
9898	60	no
9899	22	no
9900	52	no
9901	39	no
9902	45	no
9903	1	no
9904	41	no
9905	29	no
9906	20	no
9907	37	no
9908	38	no
9909	45	no
9910	33	no
9911	36	no
9912	58	no
9913	24	no
9914	31	no
9915	41	no
9916	42	no
9917	41	no
9918	52	no
9919	29	no
9920	33	no
9921	69	yes
9922	68	yes
9923	55	no
9924	71	yes
9925	52	no
9926	33	no
9927	62	yes
9928	33	no
9929	23	no
9930	10	no
9931	39	no
9932	32	no
9933	33	no
9934	37	no
9935	27	no
9936	32	no
9937	24	no
9938	67	yes

9939	36	no
9940	24	no
9941	18	no
9942	3	no
9943	50	no
9944	30	no
9945	0	no
9946	24	no
9947	4	no
9948	45	no
9949	63	yes
9950	20	no
9951	69	yes
9952	53	no
9953	15	no
9954	36	no
9955	30	no
9956	24	no
9957	38	no
9958	62	yes
9959	62	yes
9960	60	no
9961	18	no
9962	20	no
9963	64	yes
9964	41	no
9965	48	no
9966	46	no
9967	62	yes
9968	66	yes
9969	27	no
9970	56	no
9971	44	no
9972	75	yes
9973	73	yes
9974	15	no
9975	39	no
9976	64	yes
9977	30	no
9978	48	no
9979	32	no
9980	29	no
9981	35	no

9982	59	no
9983	27	no
9984	56	no
9985	23	no
9986	35	no
9987	31	no
9988	51	no
9989	21	no
9990	14	no
9991	5	no
9992	11	no
9993	39	no
9994	36	no
9995	22	no
9996	18	no
9997	27	no
9998	23	no
9999	74	yes
10000	37	no
10001	11	no
10002	21	no
10003	23	no
10004	59	no
10005	50	no
10006	32	no
10007	43	no
10008	41	no
10009	36	no
10010	29	no
10011	44	no
10012	31	no
10013	17	no
10014	43	no
10015	21	no
10016	15	no
10017	40	no
10018	13	no
10019	27	no
10020	50	no
10021	67	yes
10022	16	no
10023	41	no
10024	86	yes

10025	10	no
10026	16	no
10027	29	no
10028	69	yes
10029	16	no
10030	59	no
10031	34	no
10032	8	no
10033	24	no
10034	52	no
10035	31	no
10036	44	no
10037	12	no
10038	30	no
10039	15	no
10040	27	no
10041	67	yes
10042	27	no
10043	19	no
10044	64	yes
10045	27	no
10046	53	no
10047	59	no
10048	66	yes
10049	56	no
10050	30	no
10051	82	yes
10052	30	no
10053	33	no
10054	10	no
10055	7	no
10056	19	no
10057	27	no
10058	85	yes
10059	30	no
10060	60	no
10061	11	no
10062	31	no
10063	57	no
10064	51	no
10065	45	no
10066	38	no
10067	10	no

10068	46	no
10069	15	no
10070	31	no
10071	34	no
10072	23	no
10073	31	no
10074	28	no
10075	73	yes
10076	49	no
10077	39	no
10078	50	no
10079	23	no
10080	21	no
10081	27	no
10082	8	no
10083	43	no
10084	43	no
10085	30	no
10086	31	no
10087	24	no
10088	51	no
10089	9	no
10090	49	no
10091	48	no
10092	35	no
10093	31	no
10094	48	no
10095	29	no
10096	54	no
10097	32	no
10098	6	no
10099	68	yes
10100	48	no
10101	50	no
10102	27	no
10103	34	no
10104	19	no
10105	7	no
10106	11	no
10107	19	no
10108	28	no
10109	29	no
10110	36	no

10111	30	no
10112	47	no
10113	8	no
10114	36	no
10115	48	no
10116	14	no
10117	23	no
10118	33	no
10119	54	no
10120	7	no
10121	70	yes
10122	41	no
10123	32	no
10124	21	no
10125	55	no
10126	67	yes
10127	25	no
10128	14	no
10129	67	yes
10130	24	no
10131	27	no
10132	18	no
10133	49	no
10134	11	no
10135	45	no
10136	28	no
10137	32	no
10138	42	no
10139	31	no
10140	13	no
10141	34	no
10142	31	no
10143	90	yes
10144	19	no
10145	12	no
10146	61	yes
10147	19	no
10148	33	no
10149	61	yes
10150	22	no
10151	55	no
10152	37	no
10153	40	no



10154	24	no
10155	11	no
10156	65	yes
10157	32	no
10158	18	no
10159	53	no
10160	72	yes
10161	8	no
10162	23	no
10163	17	no
10164	30	no
10165	50	no
10166	16	no
10167	23	no
10168	35	no
10169	43	no
10170	31	no
10171	70	yes
10172	47	no
10173	30	no
10174	47	no
10175	41	no
10176	53	no
10177	25	no
10178	38	no
10179	76	yes
10180	21	no
10181	55	no
10182	53	no
10183	63	yes
10184	14	no
10185	42	no
10186	61	yes
10187	35	no
10188	9	no
10189	24	no
10190	28	no
10191	12	no
10192	40	no
10193	27	no
10194	25	no
10195	48	no
10196	17	no

10197	71	yes
10198	34	no
10199	37	no
10200	9	no
10201	26	no
10202	28	no
10203	30	no
10204	16	no
10205	17	no
10206	40	no
10207	37	no
10208	27	no
10209	33	no
10210	46	no
10211	52	no
10212	39	no
10213	84	yes
10214	36	no
10215	12	no
10216	11	no
10217	52	no
10218	19	no
10219	19	no
10220	71	yes
10221	15	no
10222	53	no
10223	72	yes
10224	23	no
10225	39	no
10226	22	no
10227	25	no
10228	18	no
10229	21	no
10230	48	no
10231	26	no
10232	29	no
10233	43	no
10234	45	no
10235	29	no
10236	12	no
10237	23	no
10238	36	no
10239	66	yes

10240	35	no
10241	71	yes
10242	47	no
10243	28	no
10244	49	no
10245	32	no
10246	33	no
10247	45	no
10248	22	no
10249	41	no
10250	32	no
10251	45	no
10252	60	no
10253	70	yes
10254	6	no
10255	14	no
10256	66	yes
10257	54	no
10258	31	no
10259	69	yes
10260	29	no
10261	38	no
10262	44	no
10263	19	no
10264	29	no
10265	17	no
10266	20	no
10267	41	no
10268	81	yes
10269	30	no
10270	30	no
10271	35	no
10272	28	no
10273	47	no
10274	32	no
10275	22	no
10276	35	no
10277	31	no
10278	23	no
10279	30	no
10280	58	no
10281	15	no
10282	26	no

10283	40	no
10284	27	no
10285	26	no
10286	22	no
10287	46	no
10288	37	no
10289	20	no
10290	51	no
10291	21	no
10292	24	no
10293	40	no
10294	44	no
10295	18	no
10296	46	no
10297	42	no
10298	29	no
10299	51	no
10300	25	no
10301	24	no
10302	23	no
10303	17	no
10304	15	no
10305	29	no
10306	32	no
10307	30	no
10308	14	no
10309	24	no
10310	58	no
10311	19	no
10312	57	no
10313	15	no
10314	31	no
10315	0	no
10316	46	no
10317	17	no
10318	18	no
10319	77	yes
10320	46	no
10321	23	no
10322	32	no
10323	29	no
10324	13	no
10325	59	no

10326	38	no
10327	25	no
10328	30	no
10329	12	no
10330	59	no
10331	37	no
10332	54	no
10333	37	no
10334	72	yes
10335	36	no
10336	54	no
10337	30	no
10338	16	no
10339	57	no
10340	31	no
10341	18	no
10342	18	no
10343	12	no
10344	21	no
10345	33	no
10346	8	no
10347	39	no
10348	40	no
10349	24	no
10350	56	no
10351	42	no
10352	46	no
10353	64	yes
10354	24	no
10355	39	no
10356	52	no
10357	21	no
10358	62	yes
10359	81	yes
10360	52	no
10361	57	no
10362	15	no
10363	74	yes
10364	36	no
10365	19	no
10366	53	no
10367	29	no
10368	22	no

10369	60	no
10370	55	no
10371	21	no
10372	22	no
10373	41	no
10374	72	yes
10375	56	no
10376	62	yes
10377	32	no
10378	31	no
10379	3	no
10380	36	no
10381	44	no
10382	77	yes
10383	54	no
10384	73	yes
10385	40	no
10386	33	no
10387	21	no
10388	85	yes
10389	61	yes
10390	62	yes
10391	45	no
10392	29	no
10393	31	no
10394	61	yes
10395	44	no
10396	11	no
10397	30	no
10398	17	no
10399	44	no
10400	11	no
10401	50	no
10402	66	yes
10403	49	no
10404	55	no
10405	20	no
10406	25	no
10407	46	no
10408	59	no
10409	49	no
10410	50	no
10411	32	no

10412	29	no
10413	74	yes
10414	68	yes
10415	18	no
10416	49	no
10417	39	no
10418	65	yes
10419	7	no
10420	19	no
10421	57	no
10422	27	no
10423	39	no
10424	53	no
10425	50	no
10426	12	no
10427	70	yes
10428	28	no
10429	47	no
10430	62	yes
10431	48	no
10432	66	yes
10433	53	no
10434	57	no
10435	63	yes
10436	76	yes
10437	38	no
10438	43	no
10439	68	yes
10440	47	no
10441	2	no
10442	80	yes
10443	44	no
10444	61	yes
10445	54	no
10446	34	no
10447	10	no
10448	28	no
10449	22	no
10450	88	yes
10451	28	no
10452	54	no
10453	46	no
10454	25	no

10455	79	yes
10456	26	no
10457	3	no
10458	53	no
10459	21	no
10460	23	no
10461	9	no
10462	30	no
10463	26	no
10464	61	yes
10465	24	no
10466	33	no
10467	44	no
10468	37	no
10469	69	yes
10470	45	no
10471	1	no
10472	67	yes
10473	73	yes
10474	32	no
10475	29	no
10476	48	no
10477	61	yes
10478	24	no
10479	21	no
10480	54	no
10481	61	yes
10482	47	no
10483	28	no
10484	18	no
10485	13	no
10486	51	no
10487	24	no
10488	87	yes
10489	39	no
10490	36	no
10491	28	no
10492	0	no
10493	62	yes
10494	80	yes
10495	29	no
10496	54	no
10497	20	no



10498	35	no
10499	38	no
10500	15	no
10501	49	no
10502	44	no
10503	34	no
10504	48	no
10505	54	no
10506	33	no
10507	36	no
10508	57	no
10509	21	no
10510	61	yes
10511	27	no
10512	50	no
10513	89	yes
10514	43	no
10515	54	no
10516	49	no
10517	44	no
10518	30	no
10519	48	no
10520	27	no
10521	54	no
10522	62	yes
10523	42	no
10524	30	no
10525	34	no
10526	59	no
10527	11	no
10528	38	no
10529	48	no
10530	45	no
10531	58	no
10532	50	no
10533	28	no
10534	20	no
10535	51	no
10536	42	no
10537	32	no
10538	47	no
10539	52	no
10540	63	yes

10541	67	yes
10542	58	no
10543	20	no
10544	65	yes
10545	53	no
10546	25	no
10547	84	yes
10548	39	no
10549	31	no
10550	25	no
10551	32	no
10552	46	no
10553	70	yes
10554	58	no
10555	42	no
10556	30	no
10557	67	yes
10558	50	no
10559	56	no
10560	67	yes
10561	22	no
10562	44	no
10563	43	no
10564	24	no
10565	51	no
10566	18	no
10567	33	no
10568	63	yes
10569	33	no
10570	54	no
10571	26	no
10572	32	no
10573	35	no
10574	40	no
10575	18	no
10576	28	no
10577	60	no
10578	64	yes
10579	31	no
10580	52	no
10581	28	no
10582	35	no
10583	16	no

10584	57	no
10585	16	no
10586	38	no
10587	39	no
10588	47	no
10589	48	no
10590	22	no
10591	28	no
10592	67	yes
10593	32	no
10594	24	no
10595	47	no
10596	29	no
10597	39	no
10598	25	no
10599	62	yes
10600	36	no
10601	22	no
10602	32	no
10603	18	no
10604	48	no
10605	44	no
10606	32	no
10607	18	no
10608	63	yes
10609	29	no
10610	26	no
10611	11	no
10612	18	no
10613	53	no
10614	29	no
10615	80	yes
10616	47	no
10617	63	yes
10618	42	no
10619	62	yes
10620	64	yes
10621	26	no
10622	89	yes
10623	34	no
10624	22	no
10625	27	no
10626	82	yes

10627	53	no
10628	24	no
10629	18	no
10630	55	no
10631	28	no
10632	27	no
10633	39	no
10634	71	yes
10635	14	no
10636	29	no
10637	47	no
10638	54	no
10639	69	yes
10640	17	no
10641	69	yes
10642	47	no
10643	51	no
10644	40	no
10645	22	no
10646	67	yes
10647	70	yes
10648	70	yes
10649	30	no
10650	39	no
10651	29	no
10652	35	no
10653	54	no
10654	28	no
10655	64	yes
10656	44	no
10657	44	no
10658	37	no
10659	48	no
10660	1	no
10661	11	no
10662	8	no
10663	31	no
10664	10	no
10665	40	no
10666	11	no
10667	6	no
10668	59	no
10669	38	no

10670	19	no
10671	24	no
10672	39	no
10673	62	yes
10674	34	no
10675	36	no
10676	85	yes
10677	0	no
10678	35	no
10679	61	yes
10680	64	yes
10681	36	no
10682	31	no
10683	21	no
10684	24	no
10685	17	no
10686	52	no
10687	31	no
10688	38	no
10689	33	no
10690	11	no
10691	44	no
10692	61	yes
10693	52	no
10694	43	no
10695	47	no
10696	46	no
10697	26	no
10698	35	no
10699	72	yes
10700	61	yes
10701	36	no
10702	24	no
10703	24	no
10704	38	no
10705	19	no
10706	60	no
10707	20	no
10708	34	no
10709	29	no
10710	22	no
10711	56	no
10712	23	no

10713	38	no
10714	49	no
10715	25	no
10716	46	no
10717	32	no
10718	31	no
10719	38	no
10720	32	no
10721	63	yes
10722	29	no
10723	29	no
10724	43	no
10725	64	yes
10726	36	no
10727	39	no
10728	31	no
10729	24	no
10730	19	no
10731	27	no
10732	8	no
10733	27	no
10734	56	no
10735	24	no
10736	40	no
10737	63	yes
10738	63	yes
10739	77	yes
10740	18	no
10741	61	yes
10742	56	no
10743	71	yes
10744	42	no
10745	28	no
10746	28	no
10747	88	yes
10748	33	no
10749	83	yes
10750	66	yes
10751	63	yes
10752	56	no
10753	21	no
10754	38	no
10755	46	no

10756	1	no
10757	30	no
10758	58	no
10759	55	no
10760	11	no
10761	22	no
10762	14	no
10763	18	no
10764	55	no
10765	55	no
10766	30	no
10767	38	no
10768	40	no
10769	36	no
10770	16	no
10771	46	no
10772	16	no
10773	61	yes
10774	16	no
10775	50	no
10776	32	no
10777	12	no
10778	17	no
10779	30	no
10780	22	no
10781	32	no
10782	23	no
10783	29	no
10784	38	no
10785	28	no
10786	32	no
10787	59	no
10788	76	yes
10789	15	no
10790	48	no
10791	53	no
10792	27	no
10793	61	yes
10794	34	no
10795	53	no
10796	24	no
10797	54	no
10798	34	no

10799	9	no
10800	26	no
10801	0	no
10802	62	yes
10803	15	no
10804	32	no
10805	24	no
10806	57	no
10807	60	no
10808	27	no
10809	51	no
10810	60	no
10811	53	no
10812	30	no
10813	67	yes
10814	22	no
10815	24	no
10816	44	no
10817	53	no
10818	25	no
10819	29	no
10820	19	no
10821	33	no
10822	31	no
10823	25	no
10824	60	no
10825	27	no
10826	50	no
10827	34	no
10828	36	no
10829	54	no
10830	36	no
10831	20	no
10832	36	no
10833	21	no
10834	39	no
10835	28	no
10836	34	no
10837	57	no
10838	57	no
10839	72	yes
10840	54	no
10841	60	no



10842	41	no
10843	9	no
10844	51	no
10845	55	no
10846	24	no
10847	1	no
10848	26	no
10849	20	no
10850	46	no
10851	77	yes
10852	30	no
10853	6	no
10854	28	no
10855	40	no
10856	59	no
10857	75	yes
10858	25	no
10859	69	yes
10860	19	no
10861	61	yes
10862	25	no
10863	46	no
10864	53	no
10865	30	no
10866	32	no
10867	46	no
10868	39	no
10869	36	no
10870	4	no
10871	4	no
10872	38	no
10873	45	no
10874	52	no
10875	52	no
10876	29	no
10877	19	no
10878	60	no
10879	21	no
10880	19	no
10881	67	yes
10882	3	no
10883	33	no
10884	37	no

10885	10	no
10886	41	no
10887	51	no
10888	26	no
10889	20	no
10890	50	no
10891	67	yes
10892	51	no
10893	58	no
10894	42	no
10895	69	yes
10896	33	no
10897	22	no
10898	31	no
10899	21	no
10900	30	no
10901	24	no
10902	63	yes
10903	30	no
10904	56	no
10905	20	no
10906	44	no
10907	41	no
10908	25	no
10909	29	no
10910	41	no
10911	48	no
10912	36	no
10913	18	no
10914	30	no
10915	25	no
10916	46	no
10917	50	no
10918	4	no
10919	41	no
10920	30	no
10921	44	no
10922	84	yes
10923	8	no
10924	NA	<NA>
10925	56	no
10926	23	no
10927	6	no

10928	34	no
10929	53	no
10930	49	no
10931	34	no
10932	19	no
10933	44	no
10934	55	no
10935	63	yes
10936	18	no
10937	37	no
10938	26	no
10939	21	no
10940	11	no
10941	74	yes
10942	41	no
10943	32	no
10944	24	no
10945	67	yes
10946	0	no
10947	32	no
10948	33	no
10949	62	yes
10950	37	no
10951	34	no
10952	24	no
10953	81	yes
10954	39	no
10955	35	no
10956	26	no
10957	15	no
10958	31	no
10959	13	no
10960	38	no
10961	38	no
10962	47	no
10963	10	no
10964	41	no
10965	43	no
10966	26	no
10967	34	no
10968	28	no
10969	45	no
10970	36	no

10971	17	no
10972	23	no
10973	28	no
10974	60	no
10975	29	no
10976	34	no
10977	8	no
10978	65	yes
10979	76	yes
10980	1	no
10981	26	no
10982	51	no
10983	5	no
10984	34	no
10985	70	yes
10986	61	yes
10987	42	no
10988	20	no
10989	41	no
10990	59	no
10991	1	no
10992	36	no
10993	25	no
10994	48	no
10995	0	no
10996	24	no
10997	17	no
10998	19	no
10999	74	yes
11000	30	no
11001	81	yes
11002	23	no
11003	61	yes
11004	74	yes
11005	46	no
11006	65	yes
11007	79	yes
11008	37	no
11009	44	no
11010	25	no
11011	76	yes
11012	50	no
11013	40	no

11014	29	no
11015	27	no
11016	28	no
11017	45	no
11018	43	no
11019	38	no
11020	39	no
11021	29	no
11022	31	no
11023	29	no
11024	49	no
11025	27	no
11026	22	no
11027	47	no
11028	39	no
11029	8	no
11030	2	no
11031	34	no
11032	15	no
11033	26	no
11034	23	no
11035	59	no
11036	2	no
11037	32	no
11038	45	no
11039	30	no
11040	28	no
11041	88	yes
11042	79	yes
11043	29	no
11044	32	no
11045	58	no
11046	7	no
11047	61	yes
11048	50	no
11049	11	no
11050	49	no
11051	23	no
11052	10	no
11053	27	no
11054	34	no
11055	17	no
11056	41	no

11057	62	yes
11058	40	no
11059	31	no
11060	3	no
11061	59	no
11062	44	no
11063	55	no
11064	0	no
11065	45	no
11066	49	no
11067	6	no
11068	24	no
11069	87	yes
11070	23	no
11071	16	no
11072	21	no
11073	43	no
11074	58	no
11075	76	yes
11076	42	no
11077	68	yes
11078	59	no
11079	27	no
11080	19	no
11081	13	no
11082	52	no
11083	49	no
11084	43	no
11085	3	no
11086	47	no
11087	44	no
11088	21	no
11089	27	no
11090	41	no
11091	59	no
11092	40	no
11093	35	no
11094	44	no
11095	64	yes
11096	23	no
11097	31	no
11098	60	no
11099	56	no

11100	29	no
11101	27	no
11102	29	no
11103	57	no
11104	38	no
11105	44	no
11106	60	no
11107	57	no
11108	33	no
11109	13	no
11110	34	no
11111	49	no
11112	45	no
11113	46	no
11114	76	yes
11115	40	no
11116	41	no
11117	20	no
11118	39	no
11119	27	no
11120	15	no
11121	59	no
11122	66	yes
11123	49	no
11124	48	no
11125	52	no
11126	41	no
11127	33	no
11128	27	no
11129	50	no
11130	60	no
11131	52	no
11132	46	no
11133	39	no
11134	34	no
11135	43	no
11136	24	no
11137	46	no
11138	35	no
11139	32	no
11140	26	no
11141	44	no
11142	62	yes

11143	22	no
11144	71	yes
11145	46	no
11146	26	no
11147	41	no
11148	62	yes
11149	58	no
11150	81	yes
11151	38	no
11152	32	no
11153	21	no
11154	47	no
11155	34	no
11156	43	no
11157	39	no
11158	73	yes
11159	99	yes
11160	26	no
11161	30	no
11162	36	no
11163	35	no
11164	10	no
11165	31	no
11166	58	no
11167	65	yes
11168	31	no
11169	29	no
11170	51	no
11171	28	no
11172	43	no
11173	57	no
11174	75	yes
11175	58	no
11176	74	yes
11177	41	no
11178	42	no
11179	36	no
11180	68	yes
11181	31	no
11182	24	no
11183	33	no
11184	71	yes
11185	59	no



11186	19	no
11187	41	no
11188	58	no
11189	34	no
11190	30	no
11191	28	no
11192	31	no
11193	23	no
11194	55	no
11195	39	no
11196	49	no
11197	42	no
11198	29	no
11199	35	no
11200	36	no
11201	22	no
11202	59	no
11203	41	no
11204	0	no
11205	39	no
11206	35	no
11207	58	no
11208	37	no
11209	19	no
11210	57	no
11211	52	no
11212	12	no
11213	30	no
11214	65	yes
11215	42	no
11216	31	no
11217	57	no
11218	62	yes
11219	36	no
11220	49	no
11221	28	no
11222	37	no
11223	32	no
11224	57	no
11225	46	no
11226	48	no
11227	42	no
11228	57	no

11229	28	no
11230	32	no
11231	31	no
11232	26	no
11233	8	no
11234	23	no
11235	35	no
11236	61	yes
11237	43	no
11238	32	no
11239	16	no
11240	39	no
11241	6	no
11242	23	no
11243	40	no
11244	39	no
11245	81	yes
11246	54	no
11247	41	no
11248	28	no
11249	58	no
11250	52	no
11251	37	no
11252	58	no
11253	60	no
11254	19	no
11255	32	no
11256	48	no
11257	51	no
11258	48	no
11259	71	yes
11260	66	yes
11261	76	yes
11262	41	no
11263	34	no
11264	9	no
11265	40	no
11266	18	no
11267	31	no
11268	59	no
11269	10	no
11270	15	no
11271	45	no

11272	10	no
11273	26	no
11274	24	no
11275	39	no
11276	58	no
11277	44	no
11278	50	no
11279	2	no
11280	39	no
11281	12	no
11282	27	no
11283	45	no
11284	42	no
11285	48	no
11286	13	no
11287	28	no
11288	0	no
11289	69	yes
11290	31	no
11291	35	no
11292	52	no
11293	21	no
11294	58	no
11295	37	no
11296	38	no
11297	29	no
11298	66	yes
11299	40	no
11300	34	no
11301	50	no
11302	33	no
11303	27	no
11304	13	no
11305	58	no
11306	27	no
11307	54	no
11308	23	no
11309	38	no
11310	8	no
11311	25	no
11312	63	yes
11313	56	no
11314	27	no

11315	78	yes
11316	30	no
11317	59	no
11318	21	no
11319	51	no
11320	50	no
11321	21	no
11322	72	yes
11323	27	no
11324	8	no
11325	49	no
11326	44	no
11327	45	no
11328	72	yes
11329	36	no
11330	58	no
11331	31	no
11332	33	no
11333	44	no
11334	24	no
11335	59	no
11336	0	no
11337	47	no
11338	11	no
11339	38	no
11340	39	no
11341	52	no
11342	NA	<NA>
11343	21	no
11344	63	yes
11345	67	yes
11346	49	no
11347	18	no
11348	39	no
11349	87	yes
11350	52	no
11351	29	no
11352	43	no
11353	40	no
11354	37	no
11355	34	no
11356	40	no
11357	22	no

11358	53	no
11359	33	no
11360	27	no
11361	60	no
11362	32	no
11363	40	no
11364	49	no
11365	32	no
11366	66	yes
11367	28	no
11368	10	no
11369	40	no
11370	58	no
11371	42	no
11372	34	no
11373	44	no
11374	51	no
11375	48	no
11376	33	no
11377	52	no
11378	35	no
11379	42	no
11380	36	no
11381	66	yes
11382	67	yes
11383	32	no
11384	41	no
11385	65	yes
11386	62	yes
11387	16	no
11388	32	no
11389	33	no
11390	42	no
11391	25	no
11392	35	no
11393	22	no
11394	42	no
11395	28	no
11396	36	no
11397	42	no
11398	21	no
11399	58	no
11400	34	no

11401	27	no
11402	38	no
11403	58	no
11404	38	no
11405	30	no
11406	31	no
11407	32	no
11408	57	no
11409	23	no
11410	43	no
11411	43	no
11412	61	yes
11413	46	no
11414	22	no
11415	34	no
11416	42	no
11417	40	no
11418	69	yes
11419	10	no
11420	27	no
11421	56	no
11422	57	no
11423	14	no
11424	54	no
11425	22	no
11426	29	no
11427	40	no
11428	31	no
11429	39	no
11430	30	no
11431	49	no
11432	42	no
11433	39	no
11434	53	no
11435	28	no
11436	20	no
11437	20	no
11438	57	no
11439	NA	<NA>
11440	56	no
11441	59	no
11442	17	no
11443	53	no

11444	0	no
11445	59	no
11446	31	no
11447	51	no
11448	28	no
11449	39	no
11450	27	no
11451	43	no
11452	45	no
11453	51	no
11454	2	no
11455	56	no
11456	57	no
11457	43	no
11458	38	no
11459	60	no
11460	37	no
11461	68	yes
11462	38	no
11463	60	no
11464	9	no
11465	28	no
11466	12	no
11467	31	no
11468	34	no
11469	8	no
11470	36	no
11471	44	no
11472	24	no
11473	17	no
11474	43	no
11475	42	no
11476	35	no
11477	34	no
11478	20	no
11479	29	no
11480	38	no
11481	58	no
11482	23	no
11483	62	yes
11484	47	no
11485	24	no
11486	34	no

11487	NA	<NA>
11488	56	no
11489	23	no
11490	39	no
11491	34	no
11492	59	no
11493	39	no
11494	41	no
11495	53	no
11496	34	no
11497	45	no
11498	55	no
11499	40	no
11500	37	no
11501	NA	<NA>
11502	64	yes
11503	26	no
11504	59	no
11505	14	no
11506	30	no
11507	5	no
11508	61	yes
11509	40	no
11510	68	yes
11511	38	no
11512	24	no
11513	18	no
11514	57	no
11515	54	no
11516	29	no
11517	24	no
11518	52	no
11519	17	no
11520	24	no
11521	38	no
11522	35	no
11523	45	no
11524	46	no
11525	30	no
11526	21	no
11527	32	no
11528	66	yes
11529	0	no



11530	11	no
11531	70	yes
11532	56	no
11533	58	no
11534	43	no
11535	54	no
11536	39	no
11537	12	no
11538	23	no
11539	42	no
11540	22	no
11541	31	no
11542	19	no
11543	29	no
11544	46	no
11545	51	no
11546	54	no
11547	54	no
11548	23	no
11549	46	no
11550	50	no
11551	28	no
11552	51	no
11553	NA	<NA>
11554	30	no
11555	44	no
11556	52	no
11557	48	no
11558	44	no
11559	52	no
11560	48	no
11561	49	no
11562	49	no
11563	50	no
11564	40	no
11565	0	no
11566	46	no
11567	51	no
11568	35	no
11569	11	no
11570	11	no
11571	48	no
11572	30	no

11573	38	no
11574	65	yes
11575	36	no
11576	26	no
11577	40	no
11578	26	no
11579	38	no
11580	19	no
11581	37	no
11582	33	no
11583	40	no
11584	22	no
11585	49	no
11586	27	no
11587	29	no
11588	25	no
11589	29	no
11590	63	yes
11591	45	no
11592	3	no
11593	19	no
11594	42	no
11595	35	no
11596	25	no
11597	64	yes
11598	36	no
11599	54	no
11600	46	no
11601	32	no
11602	27	no
11603	34	no
11604	30	no
11605	41	no
11606	21	no
11607	61	yes
11608	27	no
11609	65	yes
11610	67	yes
11611	30	no
11612	34	no
11613	30	no
11614	22	no
11615	66	yes

11616	27	no
11617	62	yes
11618	42	no
11619	1	no
11620	39	no
11621	41	no
11622	39	no
11623	68	yes
11624	32	no
11625	38	no
11626	57	no
11627	51	no
11628	59	no
11629	35	no
11630	32	no
11631	15	no
11632	63	yes
11633	50	no
11634	46	no
11635	37	no
11636	46	no
11637	43	no
11638	29	no
11639	50	no
11640	29	no
11641	52	no
11642	59	no
11643	25	no
11644	60	no
11645	50	no
11646	45	no
11647	47	no
11648	42	no
11649	24	no
11650	52	no
11651	34	no
11652	16	no
11653	24	no
11654	13	no
11655	83	yes
11656	33	no
11657	53	no
11658	66	yes

11659	58	no
11660	65	yes
11661	67	yes
11662	NA	<NA>
11663	45	no
11664	6	no
11665	58	no
11666	28	no
11667	28	no
11668	13	no
11669	26	no
11670	48	no
11671	17	no
11672	47	no
11673	44	no
11674	38	no
11675	59	no
11676	49	no
11677	57	no
11678	37	no
11679	46	no
11680	4	no
11681	40	no
11682	48	no
11683	52	no
11684	59	no
11685	32	no
11686	27	no
11687	29	no
11688	28	no
11689	71	yes
11690	37	no
11691	52	no
11692	26	no
11693	33	no
11694	65	yes
11695	29	no
11696	49	no
11697	51	no
11698	37	no
11699	37	no
11700	48	no
11701	30	no

11702	61	yes
11703	34	no
11704	72	yes
11705	13	no
11706	19	no
11707	57	no
11708	51	no
11709	39	no
11710	20	no
11711	54	no
11712	31	no
11713	27	no
11714	47	no
11715	34	no
11716	33	no
11717	52	no
11718	0	no
11719	25	no
11720	58	no
11721	49	no
11722	52	no
11723	0	no
11724	29	no
11725	40	no
11726	48	no
11727	22	no
11728	23	no
11729	26	no
11730	46	no
11731	42	no
11732	77	yes
11733	63	yes
11734	24	no
11735	17	no
11736	12	no
11737	29	no
11738	23	no
11739	48	no
11740	43	no
11741	61	yes
11742	25	no
11743	46	no
11744	13	no

11745	35	no
11746	75	yes
11747	45	no
11748	35	no
11749	56	no
11750	28	no
11751	42	no
11752	23	no
11753	28	no
11754	13	no
11755	73	yes
11756	14	no
11757	31	no
11758	43	no
11759	53	no
11760	57	no
11761	19	no
11762	30	no
11763	46	no
11764	28	no
11765	49	no
11766	29	no
11767	20	no
11768	6	no
11769	65	yes
11770	10	no
11771	60	no
11772	50	no
11773	46	no
11774	30	no
11775	29	no
11776	45	no
11777	34	no
11778	58	no
11779	15	no
11780	17	no
11781	29	no
11782	83	yes
11783	66	yes
11784	51	no
11785	21	no
11786	52	no
11787	31	no

11788	21	no
11789	43	no
11790	24	no
11791	27	no
11792	30	no
11793	80	yes
11794	40	no
11795	60	no
11796	66	yes
11797	28	no
11798	48	no
11799	48	no
11800	83	yes
11801	21	no
11802	47	no
11803	25	no
11804	37	no
11805	28	no
11806	26	no
11807	28	no
11808	33	no
11809	36	no
11810	52	no
11811	25	no
11812	61	yes
11813	51	no
11814	47	no
11815	53	no
11816	31	no
11817	32	no
11818	14	no
11819	87	yes
11820	84	yes
11821	1	no
11822	53	no
11823	45	no
11824	50	no
11825	46	no
11826	36	no
11827	39	no
11828	61	yes
11829	13	no
11830	32	no

11831	67	yes
11832	56	no
11833	36	no
11834	61	yes
11835	55	no
11836	69	yes
11837	56	no
11838	40	no
11839	31	no
11840	35	no
11841	39	no
11842	32	no
11843	56	no
11844	13	no
11845	63	yes
11846	44	no
11847	58	no
11848	32	no
11849	44	no
11850	28	no
11851	27	no
11852	26	no
11853	61	yes
11854	48	no
11855	30	no
11856	64	yes
11857	59	no
11858	42	no
11859	23	no
11860	22	no
11861	17	no
11862	46	no
11863	65	yes
11864	62	yes
11865	35	no
11866	27	no
11867	43	no
11868	33	no
11869	21	no
11870	35	no
11871	63	yes
11872	63	yes
11873	25	no



11874	50	no
11875	47	no
11876	59	no
11877	25	no
11878	48	no
11879	39	no
11880	35	no
11881	36	no
11882	46	no
11883	78	yes
11884	36	no
11885	39	no
11886	64	yes
11887	47	no
11888	40	no
11889	39	no
11890	78	yes
11891	37	no
11892	76	yes
11893	25	no
11894	44	no
11895	12	no
11896	41	no
11897	48	no
11898	41	no
11899	64	yes
11900	42	no
11901	29	no
11902	81	yes
11903	67	yes
11904	57	no
11905	74	yes
11906	47	no
11907	26	no
11908	49	no
11909	1	no
11910	57	no
11911	49	no
11912	48	no
11913	52	no
11914	45	no
11915	66	yes
11916	8	no

11917	38	no
11918	33	no
11919	39	no
11920	44	no
11921	64	yes
11922	32	no
11923	29	no
11924	44	no
11925	54	no
11926	34	no
11927	29	no
11928	22	no
11929	25	no
11930	25	no
11931	84	yes
11932	81	yes
11933	53	no
11934	60	no
11935	25	no
11936	43	no
11937	38	no
11938	44	no
11939	46	no
11940	65	yes
11941	47	no
11942	41	no
11943	47	no
11944	53	no
11945	63	yes
11946	38	no
11947	64	yes
11948	1	no
11949	34	no
11950	29	no
11951	25	no
11952	23	no
11953	30	no
11954	27	no
11955	23	no
11956	53	no
11957	52	no
11958	67	yes
11959	77	yes

11960	24	no
11961	31	no
11962	54	no
11963	37	no
11964	67	yes
11965	54	no
11966	0	no
11967	31	no
11968	26	no
11969	46	no
11970	37	no
11971	61	yes
11972	44	no
11973	35	no
11974	43	no
11975	46	no
11976	42	no
11977	21	no
11978	0	no
11979	46	no
11980	50	no
11981	33	no
11982	43	no
11983	54	no
11984	49	no
11985	42	no
11986	0	no
11987	55	no
11988	44	no
11989	27	no
11990	26	no
11991	72	yes
11992	21	no
11993	63	yes
11994	35	no
11995	41	no
11996	35	no
11997	44	no
11998	35	no
11999	48	no
12000	42	no
12001	72	yes
12002	37	no

12003	35	no
12004	53	no
12005	26	no
12006	72	yes
12007	36	no
12008	34	no
12009	39	no
12010	80	yes
12011	23	no
12012	23	no
12013	32	no
12014	20	no
12015	33	no
12016	77	yes
12017	47	no
12018	44	no
12019	73	yes
12020	33	no
12021	53	no
12022	8	no
12023	NA	<NA>
12024	36	no
12025	25	no
12026	13	no
12027	32	no
12028	46	no
12029	61	yes
12030	46	no
12031	29	no
12032	26	no
12033	32	no
12034	9	no
12035	33	no
12036	23	no
12037	29	no
12038	36	no
12039	95	yes
12040	0	no
12041	21	no
12042	20	no
12043	62	yes
12044	44	no
12045	37	no

12046	40	no
12047	60	no
12048	31	no
12049	43	no
12050	24	no
12051	9	no
12052	47	no
12053	58	no
12054	46	no
12055	53	no
12056	52	no
12057	38	no
12058	7	no
12059	79	yes
12060	27	no
12061	32	no
12062	11	no
12063	33	no
12064	58	no
12065	45	no
12066	72	yes
12067	28	no
12068	22	no
12069	0	no
12070	0	no
12071	37	no
12072	54	no
12073	24	no
12074	66	yes
12075	66	yes
12076	73	yes
12077	26	no
12078	45	no
12079	65	yes
12080	57	no
12081	7	no
12082	31	no
12083	34	no
12084	53	no
12085	22	no
12086	45	no
12087	35	no
12088	37	no

12089	62	yes
12090	18	no
12091	50	no

## 6.8 select()

`select()` allows you to rapidly zoom in on a useful subset using operations based on the names of the variables. This is helpful when the datasets have hundreds of columns.

### 6.8.1 By Name

```
flights |>
  select(carrier,dep_delay,month,day)
```

```
# A tibble: 336,776 x 4
  carrier dep_delay month   day
  <chr>      <dbl> <int> <int>
1 UA          2      1      1
2 UA          4      1      1
3 AA          2      1      1
4 B6         -1      1      1
5 DL         -6      1      1
6 UA         -4      1      1
7 B6         -5      1      1
8 EV         -3      1      1
9 B6         -3      1      1
10 AA        -2      1      1
# i 336,766 more rows
```

### 6.8.2 By Range

```
flights |>
  select(year:carrier)
```

```
# A tibble: 336,776 x 10
  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     1     1     517           515           2     830           819
```

```

2  2013      1      1      533              529          4      850              830
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      1      1      554              558         -4      740              728
7  2013      1      1      555              600         -5      913              854
8  2013      1      1      557              600         -3      709              723
9  2013      1      1      557              600         -3      838              846
10 2013      1      1      558              600         -2      753              745
# i 336,766 more rows
# i 2 more variables: arr_delay <dbl>, carrier <chr>

```

### 6.8.3 By Exclusion

```

flights |>
  select(!c(year,month,day))

```

```

# A tibble: 336,776 x 16
   dep_time sched_dep_time dep_delay arr_time sched_arr_time arr_delay carrier
   <int>         <int>         <dbl>   <int>         <int>         <dbl> <chr>
1     517           515           2     830           819          11 UA
2     533           529           4     850           830          20 UA
3     542           540           2     923           850          33 AA
4     544           545          -1    1004          1022         -18 B6
5     554           600          -6     812           837         -25 DL
6     554           558          -4     740           728          12 UA
7     555           600          -5     913           854          19 B6
8     557           600          -3     709           723         -14 EV
9     557           600          -3     838           846          -8 B6
10    558           600          -2     753           745           8 AA
# i 336,766 more rows
# i 9 more variables: flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
#   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

## 7 Group Operations

### 7.1 Groups

The `tidyverse` also enables us to work in groups. Commonly used functions include `group_by()` and `summarize()`.

## 7.2 group\_by()

`group_by()` divides the dataset into groups useful for your analysis. These are commonly used in conjunction with other functions.

The R output indicates whether your data frame is grouped.

```
flights |> group_by(carrier)
```

```
# A tibble: 336,776 x 19
```

```
# Groups:   carrier [16]
```

	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	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
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	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854
8	2013	1	1	557	600	-3	709	723
9	2013	1	1	557	600	-3	838	846
10	2013	1	1	558	600	-2	753	745

```
# i 336,766 more rows
```

```
# i 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 <dtm>
```

## 7.3 ungroup()

`ungroup()` removes the grouping set by `group_by()`. This is helpful when calculating

## 7.4 summarize()

When calculating summary statistics from the data frame, we want to reduce the frame to a single row for each group. This can be done using `summarize()` or `summarise()`.

These summary statistics can be calculated for the entire data frame, or by group.



## 7.5 Example 1

Suppose we want to calculate the average and standard deviation of the departure delay time.

### 7.5.1 All Flights

```
flights |>
  summarize(mean = mean(dep_delay, na.rm=T),
            sd = sd(dep_delay, na.rm=T),
            median = quantile(dep_delay, 0.5, na.rm=T),
            minimum = min(dep_delay, na.rm=T),
            maximum = max(dep_delay, na.rm=T))
```

```
# A tibble: 1 x 5
  mean    sd median minimum maximum
  <dbl> <dbl> <dbl>   <dbl>   <dbl>
1  12.6  40.2    -2     -43    1301
```

### 7.5.2 By Carrier

```
flights |>
  group_by(carrier) |>
  summarize(mean = mean(dep_delay, na.rm=T),
            sd = sd(dep_delay, na.rm=T),
            median = quantile(dep_delay, 0.5, na.rm=T),
            minimum = min(dep_delay, na.rm=T),
            maximum = max(dep_delay, na.rm=T))
```

```
# A tibble: 16 x 6
  carrier mean    sd median minimum maximum
  <chr>   <dbl> <dbl> <dbl>   <dbl>   <dbl>
1 9E      16.7  45.9   -2     -24     747
2 AA       8.59  37.4   -3     -24    1014
3 AS       5.80  31.4   -3     -21     225
4 B6      13.0  38.5   -1     -43     502
5 DL       9.26  39.7   -2     -33     960
6 EV      20.0  46.6   -1     -32     548
7 F9      20.2  58.4   0.5    -27     853
8 FL      18.7  52.7    1     -22     602
```

9	HA	4.90	74.1	-4	-16	1301
10	MQ	10.6	39.2	-3	-26	1137
11	OO	12.6	43.1	-6	-14	154
12	UA	12.1	35.7	0	-20	483
13	US	3.78	28.1	-4	-19	500
14	VX	12.9	44.8	0	-20	653
15	WN	17.7	43.3	1	-13	471
16	YV	19.0	49.2	-2	-16	387

## 7.6 Example 2

Suppose we want to count how many times a carrier's flight was delayed in each month.

```
flights |>
  mutate(late = ifelse(dep_delay > 0, "Late", "NotLate"), .keep="all") |>
  group_by(carrier, month, .drop=F) |>
  count(late)
```

```
# A tibble: 508 x 4
# Groups:   carrier, month [185]
  carrier month late      n
  <chr>    <int> <chr>   <int>
1 9E        1 Late     574
2 9E        1 NotLate  924
3 9E        1 <NA>     75
4 9E        2 Late     511
5 9E        2 NotLate  842
6 9E        2 <NA>    106
7 9E        3 Late     538
8 9E        3 NotLate  976
9 9E        3 <NA>    113
10 9E       4 Late     471
# i 498 more rows
```

## 7.7 Exercise

### 7.7.1 Exercise 1

Using the `case_information` data set, calculate the average and standard deviation of age for each status category.

### 7.7.2 Answer 1

```
case_information |>
group_by(status,.drop=F) |>
summarize(Mean = mean(age,na.rm=T), SD = sd(age,na.rm=T))
```

```
# A tibble: 5 x 3
  status      Mean    SD
  <chr>      <dbl> <dbl>
1 Admitted    48.8  18.4
2 Died        63.7  15.4
3 For validation 40.2  17.6
4 Home quarantined 41.1  15.6
5 Recovered   46.5  16.5
```

### 7.7.3 Exercise 2

Using the case\_information data set, count the number of each status category for each age group and sex. Calculate the relative proportion within each agegroup/sex group.

### 7.7.4 Answer 2

```
case_information |>
group_by(age_group,sex,.drop=F) |>
count(status)
```

```
# A tibble: 173 x 4
# Groups:   age_group, sex [36]
  age_group sex      status      n
  <chr>      <chr>   <chr>    <int>
1 0 to 4    Female Admitted    10
2 0 to 4    Female Died       2
3 0 to 4    Female For validation 37
4 0 to 4    Female Home quarantined 3
5 0 to 4    Female Recovered    5
6 0 to 4    Male   Admitted    12
7 0 to 4    Male   Died       5
8 0 to 4    Male   For validation 63
9 0 to 4    Male   Home quarantined 8
10 0 to 4   Male   Recovered    9
# i 163 more rows
```

**8 Chapter Done! Click here to go back to the [home page](#)!**