R Assignment 2

2022-04-08

#Data

```
Data <- read.csv("C:/Users/prana/Downloads/archive (1)/Kaagle_Upload.csv", header=FALSE)
```

#Print Structure

```
str(Data)
```

```
## 'data.frame':    285332 obs. of  70 variables:
##  $ V1 : chr  "accident_index" "201506E098757" "201506E098766" "201506E098766" ...
##  $ V2 : chr  "vehicle_reference" "2" "1" "2" ...
##  $ V3 : chr  "vehicle_type" "9" "9" "9" ...
##  $ V4 : chr  "towing_and_articulation" "0" "0" "0" ...
##  $ V5 : chr  "vehicle_manoeuvre" "18" "9" "18" ...
##  $ V6 : chr  "vehicle_location-restricted_lane" "0" "0" "0" ...
##  $ V7 : chr  "junction_location" "8" "8" "8" ...
##  $ V8 : chr  "skidding_and_overturning" "0" "0" "0" ...
##  $ V9 : chr  "hit_object_in_carriageway" "0" "0" "0" ...
##  $ V10: chr  "vehicle_leaving_carriageway" "0" "0" "0" ...
##  $ V11: chr  "hit_object_off_carriageway" "0" "0" "0" ...
##  $ V12: chr  "1st_point_of_impact" "3" "4" "1" ...
##  $ V13: chr  "was_vehicle_left_hand_drive?" "1" "1" "1" ...
##  $ V14: chr  "journey_purpose_of_driver" "6" "6" "6" ...
##  $ V15: chr  "sex_of_driver" "1" "2" "1" ...
##  $ V16: chr  "age_of_driver" "45" "25" "51" ...
##  $ V17: chr  "age_band_of_driver" "7" "5" "8" ...
##  $ V18: chr  "engine_capacity_(cc)" "1794" "1582" "-1" ...
##  $ V19: chr  "propulsion_code" "1" "2" "-1" ...
##  $ V20: chr  "age_of_vehicle" "11" "1" "-1" ...
##  $ V21: chr  "driver_imd_decile" "-1" "-1" "-1" ...
##  $ V22: chr  "driver_home_area_type" "1" "-1" "1" ...
##  $ V23: chr  "vehicle_imd_decile" "-1" "-1" "-1" ...
##  $ V24: chr  "NUmber_of_Casualities_unique_to_accident_index" "1" "1" "1" ...
##  $ V25: chr  "No_of_Vehicles_involved_unique_to_accident_index" "2" "2" "2" ...
##  $ V26: chr  "location_easting_osgr" "384980" "383870" "383870" ...
##  $ V27: chr  "location_northing_osgr" "394830" "394420" "394420" ...
##  $ V28: chr  "longitude" "-2.227629" "-2.244322" "-2.244322" ...
##  $ V29: chr  "latitude" "53.450014" "53.446296" "53.446296" ...
##  $ V30: chr  "police_force" "6" "6" "6" ...
##  $ V31: chr  "accident_severity" "3" "3" "3" ...
##  $ V32: chr  "number_of_vehicles" "2" "2" "2" ...
##  $ V33: chr  "number_of_casualties" "1" "1" "1" ...
##  $ V34: chr  "date" "42250" "14/03/2015" "14/03/2015" ...
```

```
## $ V35: chr  "day_of_week" "2" "7" "7" ...
## $ V36: chr  "time" "1899-12-30 12:56:00" "1899-12-30 15:55:00" "1899-12-30 15:55:00" ...
## $ V37: chr  "local_authority_(district)" "102" "102" "102" ...
## $ V38: chr  "local_authority_(highway)" "E08000003" "E08000003" "E08000003" ...
## $ V39: chr  "1st_road_class" "5" "3" "3" ...
## $ V40: chr  "1st_road_number" "0" "5103" "5103" ...
## $ V41: chr  "road_type" "6" "3" "3" ...
## $ V42: chr  "speed_limit" "30" "40" "40" ...
## $ V43: chr  "junction_detail" "3" "6" "6" ...
## $ V44: chr  "junction_control" "4" "2" "2" ...
## $ V45: chr  "2nd_road_class" "6" "5" "5" ...
## $ V46: chr  "2nd_road_number" "0" "0" "0" ...
## $ V47: chr  "pedestrian_crossing-human_control" "0" "0" "0" ...
## $ V48: chr  "pedestrian_crossing-physical_facilities" "0" "5" "5" ...
## $ V49: chr  "light_conditions" "1" "1" "1" ...
## $ V50: chr  "weather_conditions" "1" "1" "1" ...
## $ V51: chr  "road_surface_conditions" "1" "1" "1" ...
## $ V52: chr  "special_conditions_at_site" "0" "0" "0" ...
## $ V53: chr  "carriageway_hazards" "0" "0" "0" ...
## $ V54: chr  "urban_or_rural_area" "1" "1" "1" ...
## $ V55: chr  "did_police_officer_attend_scene_of_accident" "2" "1" "1" ...
## $ V56: chr  "lsoa_of_accident_location" "E01005288" "E01005178" "E01005178" ...
## $ V57: chr  "casualty_reference" NA NA "1" ...
## $ V58: chr  "casualty_class" NA NA "1" ...
## $ V59: chr  "sex_of_casualty" NA NA "1" ...
## $ V60: chr  "age_of_casualty" NA NA "51" ...
## $ V61: chr  "age_band_of_casualty" NA NA "8" ...
## $ V62: chr  "casualty_severity" NA NA "3" ...
## $ V63: chr  "pedestrian_location" NA NA "0" ...
## $ V64: chr  "pedestrian_movement" NA NA "0" ...
## $ V65: chr  "car_passenger" NA NA "0" ...
## $ V66: chr  "bus_or_coach_passenger" NA NA "0" ...
## $ V67: chr  "pedestrian_road_maintenance_worker" NA NA "0" ...
## $ V68: chr  "casualty_type" NA NA "9" ...
## $ V69: chr  "casualty_home_area_type" NA NA "1" ...
## $ V70: chr  "casualty_imd_decile" NA NA "3" ...
```

#List Variables

```
ls(Data)
```

```
##  [1] "V1"  "V10" "V11" "V12" "V13" "V14" "V15" "V16" "V17" "V18" "V19" "V2"
## [13] "V20" "V21" "V22" "V23" "V24" "V25" "V26" "V27" "V28" "V29" "V3"  "V30"
## [25] "V31" "V32" "V33" "V34" "V35" "V36" "V37" "V38" "V39" "V4"  "V40" "V41"
## [37] "V42" "V43" "V44" "V45" "V46" "V47" "V48" "V49" "V5"  "V50" "V51" "V52"
## [49] "V53" "V54" "V55" "V56" "V57" "V58" "V59" "V6"  "V60" "V61" "V62" "V63"
## [61] "V64" "V65" "V66" "V67" "V68" "V69" "V7"  "V70" "V8"  "V9"
```

#Print the top 15 rows

```
head(Data, 15)
```

```
##                 V1               V2           V3                   V4
```

```
## 1  accident_index vehicle_reference vehicle_type towing_and_articulation
## 2   201506E098757                 2            9                        0
## 3   201506E098766                 1            9                        0
## 4   201506E098766                 2            9                        0
## 5   201506E098777                 1           20                        0
## 6   201506E098780                 1            9                        0
## 7   201506E098780                 2            1                        0
## 8   201506E098792                 1            3                        0
## 9   201506E098792                 2            9                        0
## 10  201506E098804                 1            9                        0
## 11  201506E098826                 1            9                        0
## 12  201506E098826                 2            8                        0
## 13  201506E098847                 1            1                        0
## 14  201506E098847                 2            9                        0
## 15  201506E098925                 1            9                        0
##               V5                           V6                 V7
## 1  vehicle_manoeuvre vehicle_location-restricted_lane junction_location
## 2                 18                            0                 8
## 3                  9                            0                 8
## 4                 18                            0                 8
## 5                  4                            0                 0
## 6                 15                            0                 1
## 7                  9                            0                 5
## 8                  4                            0                 2
## 9                  4                            0                 2
## 10                14                            0                 1
## 11                 4                            0                 0
## 12                 4                            0                 0
## 13                18                            0                 1
## 14                18                            0                 1
## 15                 5                            0                 8
##                    V8                       V9
## 1  skidding_and_overturning hit_object_in_carriageway
## 2                  0                        0
## 3                  0                        0
## 4                  0                        0
## 5                  0                        0
## 6                  0                        0
## 7                  0                        0
## 8                  0                        0
## 9                  0                        0
## 10                 0                        0
## 11                 0                        0
## 12                 0                        0
## 13                 0                        0
## 14                 0                        0
## 15                 0                        0
##                          V10                        V11              V12
## 1  vehicle_leaving_carriageway hit_object_off_carriageway 1st_point_of_impact
## 2                            0                          0                   3
## 3                            0                          0                   4
## 4                            0                          0                   1
## 5                            0                          0                   1
## 6                            0                          0                   4
```

```
## 7                                 0                       0            1
## 8                                 0                       0            1
## 9                                 0                       0            2
## 10                                0                       0            4
## 11                                0                       0            1
## 12                                0                       0            2
## 13                                0                       0            3
## 14                                0                       0            1
## 15                                0                       0            1
##                                 V13                     V14          V15
## 1  was_vehicle_left_hand_drive? journey_purpose_of_driver sex_of_driver
## 2                                 1                       6            1
## 3                                 1                       6            2
## 4                                 1                       6            1
## 5                                 1                       1            1
## 6                                 1                       6            1
## 7                                 1                       6            1
## 8                                 1                       1            2
## 9                                 1                       1            1
## 10                                1                       6            1
## 11                                1                       6            1
## 12                                1                       1            1
## 13                                1                       6            1
## 14                                1                       6            2
## 15                                1                       3            2
##              V16              V17                 V18              V19
## 1  age_of_driver age_band_of_driver engine_capacity_(cc) propulsion_code
## 2             45                7                1794                1
## 3             25                5                1582                2
## 4             51                8                  -1               -1
## 5             50                8                4462                2
## 6             27                6                1598                2
## 7             46                8                  -1               -1
## 8             27                6                  50                1
## 9             33                6                1995                2
## 10            24                5                1398                1
## 11            25                5                1686                2
## 12            43                7                1997                2
## 13            29                6                  -1               -1
## 14            43                7                1149                1
## 15            41                7                2967                2
##              V20              V21                   V22               V23
## 1  age_of_vehicle driver_imd_decile driver_home_area_type vehicle_imd_decile
## 2             11               -1                     1                -1
## 3              1               -1                    -1                -1
## 4             -1               -1                     1                -1
## 5              1               -1                     1                -1
## 6             -1               -1                     1                -1
## 7             -1               -1                     1                -1
## 8              8               -1                     1                -1
## 9             10               -1                     1                -1
## 10             1               -1                     1                -1
## 11             8               -1                     1                -1
## 12             6               -1                     1                -1
```

```
## 13            -1            -1              1            -1
## 14             5            -1              1            -1
## 15             1            -1              1            -1
##                                                V24
## 1  NUmber_of_Casualities_unique_to_accident_index
## 2                                                1
## 3                                                1
## 4                                                1
## 5                                                1
## 6                                                1
## 7                                                1
## 8                                                1
## 9                                                1
## 10                                               1
## 11                                               1
## 12                                               1
## 13                                               1
## 14                                               1
## 15                                               1
##                                                  V25              V26
## 1  No_of_Vehicles_involved_unique_to_accident_index location_easting_osgr
## 2                                                 2           384980
## 3                                                 2           383870
## 4                                                 2           383870
## 5                                                 1           386710
## 6                                                 2           384280
## 7                                                 2           384280
## 8                                                 2           383870
## 9                                                 2           383870
## 10                                                1           385110
## 11                                                2           384770
## 12                                                2           384770
## 13                                                2           383820
## 14                                                2           383820
## 15                                                5           382340
##                    V27       V28       V29        V30              V31
## 1  location_northing_osgr longitude  latitude police_force accident_severity
## 2                  394830 -2.227629 53.450014            6                3
## 3                  394420 -2.244322 53.446296            6                3
## 4                  394420 -2.244322 53.446296            6                3
## 5                  395700 -2.201617 53.457881            6                3
## 6                  395200 -2.238188 53.453319            6                3
## 7                  395200 -2.238188 53.453319            6                3
## 8                  393730 -2.244286 53.440094            6                3
## 9                  393730 -2.244286 53.440094            6                3
## 10                 395540 -2.225706   53.4564            6                3
## 11                 396880 -2.230891 53.468434            6                3
## 12                 396880 -2.230891 53.468434            6                3
## 13                 395860 -2.245149 53.459238            6                3
## 14                 395860 -2.245149 53.459238            6                3
## 15                 394040 -2.267336 53.442831            6                3
##                 V32                 V33      V34        V35
## 1  number_of_vehicles number_of_casualties     date day_of_week
## 2                   2                    1    42250          2
```

```
## 3                   2              1 14/03/2015          7
## 4                   2              1 14/03/2015          7
## 5                   1              1      42311          4
## 6                   2              1      42158          6
## 7                   2              1      42158          6
## 8                   2              1 19/03/2015          5
## 9                   2              1 19/03/2015          5
## 10                  1              1 19/03/2015          5
## 11                  2              1 19/03/2015          5
## 12                  2              1 19/03/2015          5
## 13                  2              1 18/03/2015          4
## 14                  2              1 18/03/2015          4
## 15                  5              1 18/03/2015          4
##                  V36                          V37                        V38
## 1              time local_authority_(district) local_authority_(highway)
## 2  1899-12-30 12:56:00                      102                 E08000003
## 3  1899-12-30 15:55:00                      102                 E08000003
## 4  1899-12-30 15:55:00                      102                 E08000003
## 5  1899-12-30 10:15:00                      102                 E08000003
## 6  1899-12-30 08:03:00                      102                 E08000003
## 7  1899-12-30 08:03:00                      102                 E08000003
## 8  1899-12-30 20:35:00                      102                 E08000003
## 9  1899-12-30 20:35:00                      102                 E08000003
## 10 1899-12-30 17:15:00                      102                 E08000003
## 11 1899-12-30 21:10:00                      102                 E08000003
## 12 1899-12-30 21:10:00                      102                 E08000003
## 13 1899-12-30 22:32:00                      102                 E08000003
## 14 1899-12-30 22:32:00                      102                 E08000003
## 15 1899-12-30 08:30:00                      102                 E08000003
##               V39            V40       V41       V42             V43
## 1  1st_road_class 1st_road_number road_type speed_limit junction_detail
## 2               5               0         6          30               3
## 3               3            5103         3          40               6
## 4               3            5103         3          40               6
## 5               3               6         6          30               0
## 6               5               0         6          30               3
## 7               5               0         6          30               3
## 8               3            5103         3          40               6
## 9               3            5103         3          40               6
## 10              4            5117         3          30               3
## 11              3              34         3          30               0
## 12              3              34         3          30               0
## 13              4            5219         3          30               6
## 14              4            5219         3          30               6
## 15              3            6010         6          30               6
##               V44            V45             V46
## 1  junction_control 2nd_road_class 2nd_road_number
## 2               4               6               0
## 3               2               5               0
## 4               2               5               0
## 5              -1              -1               0
## 6               4               6               0
## 7               4               6               0
## 8               2               5               0
```

6

```
## 9                    2             5              0
## 10                   2             6              0
## 11                  -1            -1              0
## 12                  -1            -1              0
## 13                   2             3           5103
## 14                   2             3           5103
## 15                   4             5              0
##                                     V47                                V48
## 1   pedestrian_crossing-human_control pedestrian_crossing-physical_facilities
## 2                                   0                                       0
## 3                                   0                                       5
## 4                                   0                                       5
## 5                                   0                                       4
## 6                                   0                                       0
## 7                                   0                                       0
## 8                                   0                                       5
## 9                                   0                                       5
## 10                                  0                                       5
## 11                                  0                                       4
## 12                                  0                                       4
## 13                                  0                                       5
## 14                                  0                                       5
## 15                                  0                                       0
##                V49                V50                      V51
## 1   light_conditions weather_conditions road_surface_conditions
## 2                  1                  1                        1
## 3                  1                  1                        1
## 4                  1                  1                        1
## 5                  1                  1                        1
## 6                  1                  1                        1
## 7                  1                  1                        1
## 8                  7                  1                        1
## 9                  7                  1                        1
## 10                 1                  1                        1
## 11                 4                  1                        1
## 12                 4                  1                        1
## 13                 4                  1                        1
## 14                 4                  1                        1
## 15                 1                  1                        1
##                          V52                 V53                V54
## 1   special_conditions_at_site carriageway_hazards urban_or_rural_area
## 2                            0                   0                   1
## 3                            0                   0                   1
## 4                            0                   0                   1
## 5                            0                   0                   1
## 6                            0                   0                   1
## 7                            0                   0                   1
## 8                            0                   0                   1
## 9                            0                   0                   1
## 10                           0                   0                   1
## 11                           0                   0                   1
## 12                           0                   0                   1
## 13                           0                   0                   1
## 14                           0                   0                   1
```

```
## 15                                         0                        0             1
##                                                              V55                      V56
## 1  did_police_officer_attend_scene_of_accident lsoa_of_accident_location
## 2                                              2                 E01005288
## 3                                              1                 E01005178
## 4                                              1                 E01005178
## 5                                              1                 E01005232
## 6                                              2                 E01005242
## 7                                              2                 E01005242
## 8                                              1                 E01005279
## 9                                              1                 E01005279
## 10                                             1                 E01005284
## 11                                             1                 E01005062
## 12                                             1                 E01005062
## 13                                             1                 E01005208
## 14                                             1                 E01005208
## 15                                             1                 E01005301
##                    V57              V58               V59              V60
## 1  casualty_reference casualty_class sex_of_casualty age_of_casualty
## 2                <NA>           <NA>              <NA>             <NA>
## 3                <NA>           <NA>              <NA>             <NA>
## 4                   1              1                 1               51
## 5                   1              3                 2               34
## 6                <NA>           <NA>              <NA>             <NA>
## 7                   1              1                 1               46
## 8                   1              1                 2               27
## 9                <NA>           <NA>              <NA>             <NA>
## 10                  1              3                 1               12
## 11                  1              2                 1               25
## 12               <NA>           <NA>              <NA>             <NA>
## 13                  1              1                 1               29
## 14               <NA>           <NA>              <NA>             <NA>
## 15               <NA>           <NA>              <NA>             <NA>
##                     V61                V62                 V63
## 1  age_band_of_casualty casualty_severity pedestrian_location
## 2                  <NA>              <NA>                <NA>
## 3                  <NA>              <NA>                <NA>
## 4                     8                 3                   0
## 5                     6                 3                   1
## 6                  <NA>              <NA>                <NA>
## 7                     8                 3                   0
## 8                     6                 3                   0
## 9                  <NA>              <NA>                <NA>
## 10                    3                 3                   1
## 11                    5                 3                   0
## 12                 <NA>              <NA>                <NA>
## 13                    6                 3                   0
## 14                 <NA>              <NA>                <NA>
## 15                 <NA>              <NA>                <NA>
##                     V64           V65                 V66
## 1  pedestrian_movement car_passenger bus_or_coach_passenger
## 2                 <NA>          <NA>                  <NA>
## 3                 <NA>          <NA>                  <NA>
## 4                    0             0                     0
```

8

```
## 5                          1              0                    0
## 6                       <NA>           <NA>                 <NA>
## 7                          0              0                    0
## 8                          0              0                    0
## 9                       <NA>           <NA>                 <NA>
## 10                         2              0                    0
## 11                         0              1                    0
## 12                      <NA>           <NA>                 <NA>
## 13                         0              0                    0
## 14                      <NA>           <NA>                 <NA>
## 15                      <NA>           <NA>                 <NA>
##                                       V67            V68                      V69
## 1    pedestrian_road_maintenance_worker casualty_type casualty_home_area_type
## 2                                      <NA>           <NA>                     <NA>
## 3                                      <NA>           <NA>                     <NA>
## 4                                         0              9                        1
## 5                                         0              0                        1
## 6                                      <NA>           <NA>                     <NA>
## 7                                         0              1                        1
## 8                                         0              3                        1
## 9                                      <NA>           <NA>                     <NA>
## 10                                        0              0                        1
## 11                                        0              9                        1
## 12                                     <NA>           <NA>                     <NA>
## 13                                        0              1                        1
## 14                                     <NA>           <NA>                     <NA>
## 15                                     <NA>           <NA>                     <NA>
##                     V70
## 1    casualty_imd_decile
## 2                   <NA>
## 3                   <NA>
## 4                      3
## 5                      1
## 6                   <NA>
## 7                      2
## 8                      3
## 9                   <NA>
## 10                     2
## 11                     1
## 12                  <NA>
## 13                     1
## 14                  <NA>
## 15                  <NA>
```

#User defined function and new data frame

```
MEAN <- function (x){
result <- mean(x)
print(result)
}
mydata <- data.frame(vehicle.m = c(18, 9, 4, 15, 9, 4, 14, 4, 18, 4, 14, 5, 18, 2 ,2), driver.age = c(4
MEAN(mydata$driver.age)
```

```
## [1] 35.46667
```

#Filter rows

```
print(filter(Data, "V16"=="45" & "V20"=="11"))
```

```
## Time Series:
## Start = 1
## End = 285332
## Frequency = 1
##         [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
##      1    0    0    0    0    0    0    0    0    0     0     0     0     0
##      2    0    0    0    0    0    0    0    0    0     0     0     0     0
##      3    0    0    0    0    0    0    0    0    0     0     0     0     0
##      4    0    0    0    0    0    0    0    0    0     0     0     0     0
##      5    0    0    0    0    0    0    0    0    0     0     0     0     0
##      6    0    0    0    0    0    0    0    0    0     0     0     0     0
##      7    0    0    0    0    0    0    0    0    0     0     0     0     0
##      8    0    0    0    0    0    0    0    0    0     0     0     0     0
##      9    0    0    0    0    0    0    0    0    0     0     0     0     0
##     10    0    0    0    0    0    0    0    0    0     0     0     0     0
##     11    0    0    0    0    0    0    0    0    0     0     0     0     0
##     12    0    0    0    0    0    0    0    0    0     0     0     0     0
##     13    0    0    0    0    0    0    0    0    0     0     0     0     0
##     14    0    0    0    0    0    0    0    0    0     0     0     0     0
##     15    0    0    0    0    0    0    0    0    0     0     0     0     0
##     16    0    0    0    0    0    0    0    0    0     0     0     0     0
##     17    0    0    0    0    0    0    0    0    0     0     0     0     0
##     18    0    0    0    0    0    0    0    0    0     0     0     0     0
##     19    0    0    0    0    0    0    0    0    0     0     0     0     0
##     20    0    0    0    0    0    0    0    0    0     0     0     0     0
##     21    0    0    0    0    0    0    0    0    0     0     0     0     0
##     22    0    0    0    0    0    0    0    0    0     0     0     0     0
##     23    0    0    0    0    0    0    0    0    0     0     0     0     0
##     24    0    0    0    0    0    0    0    0    0     0     0     0     0
##     25    0    0    0    0    0    0    0    0    0     0     0     0     0
##     26    0    0    0    0    0    0    0    0    0     0     0     0     0
##     27    0    0    0    0    0    0    0    0    0     0     0     0     0
##     28    0    0    0    0    0    0    0    0    0     0     0     0     0
##     29    0    0    0    0    0    0    0    0    0     0     0     0     0
##     30    0    0    0    0    0    0    0    0    0     0     0     0     0
##     31    0    0    0    0    0    0    0    0    0     0     0     0     0
##     32    0    0    0    0    0    0    0    0    0     0     0     0     0
##     33    0    0    0    0    0    0    0    0    0     0     0     0     0
##     34    0    0    0    0    0    0    0    0    0     0     0     0     0
##     35    0    0    0    0    0    0    0    0    0     0     0     0     0
##     36    0    0    0    0    0    0    0    0    0     0     0     0     0
##     37    0    0    0    0    0    0    0    0    0     0     0     0     0
##     38    0    0    0    0    0    0    0    0    0     0     0     0     0
##     39    0    0    0    0    0    0    0    0    0     0     0     0     0
##     40    0    0    0    0    0    0    0    0    0     0     0     0     0
##     41    0    0    0    0    0    0    0    0    0     0     0     0     0
##     42    0    0    0    0    0    0    0    0    0     0     0     0     0
##     43    0    0    0    0    0    0    0    0    0     0     0     0     0
##     44    0    0    0    0    0    0    0    0    0     0     0     0     0
##     45    0    0    0    0    0    0    0    0    0     0     0     0     0
```

```
## 46    0    0    0    0    0    0    0    0    0    0    0    0    0
## 47    0    0    0    0    0    0    0    0    0    0    0    0    0
## 48    0    0    0    0    0    0    0    0    0    0    0    0    0
## 49    0    0    0    0    0    0    0    0    0    0    0    0    0
## 50    0    0    0    0    0    0    0    0    0    0    0    0    0
## 51    0    0    0    0    0    0    0    0    0    0    0    0    0
## 52    0    0    0    0    0    0    0    0    0    0    0    0    0
## 53    0    0    0    0    0    0    0    0    0    0    0    0    0
## 54    0    0    0    0    0    0    0    0    0    0    0    0    0
## 55    0    0    0    0    0    0    0    0    0    0    0    0    0
## 56    0    0    0    0    0    0    0    0    0    0    0    0    0
## 57    0    0    0    0    0    0    0    0    0    0    0    0    0
## 58    0    0    0    0    0    0    0    0    0    0    0    0    0
## 59    0    0    0    0    0    0    0    0    0    0    0    0    0
## 60    0    0    0    0    0    0    0    0    0    0    0    0    0
## 61    0    0    0    0    0    0    0    0    0    0    0    0    0
## 62    0    0    0    0    0    0    0    0    0    0    0    0    0
## 63    0    0    0    0    0    0    0    0    0    0    0    0    0
## 64    0    0    0    0    0    0    0    0    0    0    0    0    0
## 65    0    0    0    0    0    0    0    0    0    0    0    0    0
## 66    0    0    0    0    0    0    0    0    0    0    0    0    0
## 67    0    0    0    0    0    0    0    0    0    0    0    0    0
## 68    0    0    0    0    0    0    0    0    0    0    0    0    0
## 69    0    0    0    0    0    0    0    0    0    0    0    0    0
## 70    0    0    0    0    0    0    0    0    0    0    0    0    0
## 71    0    0    0    0    0    0    0    0    0    0    0    0    0
## 72    0    0    0    0    0    0    0    0    0    0    0    0    0
## 73    0    0    0    0    0    0    0    0    0    0    0    0    0
## 74    0    0    0    0    0    0    0    0    0    0    0    0    0
## 75    0    0    0    0    0    0    0    0    0    0    0    0    0
## 76    0    0    0    0    0    0    0    0    0    0    0    0    0
## 77    0    0    0    0    0    0    0    0    0    0    0    0    0
## 78    0    0    0    0    0    0    0    0    0    0    0    0    0
## 79    0    0    0    0    0    0    0    0    0    0    0    0    0
## 80    0    0    0    0    0    0    0    0    0    0    0    0    0
## 81    0    0    0    0    0    0    0    0    0    0    0    0    0
## 82    0    0    0    0    0    0    0    0    0    0    0    0    0
## 83    0    0    0    0    0    0    0    0    0    0    0    0    0
## 84    0    0    0    0    0    0    0    0    0    0    0    0    0
## 85    0    0    0    0    0    0    0    0    0    0    0    0    0
## 86    0    0    0    0    0    0    0    0    0    0    0    0    0
## 87    0    0    0    0    0    0    0    0    0    0    0    0    0
## 88    0    0    0    0    0    0    0    0    0    0    0    0    0
## 89    0    0    0    0    0    0    0    0    0    0    0    0    0
## 90    0    0    0    0    0    0    0    0    0    0    0    0    0
## 91    0    0    0    0    0    0    0    0    0    0    0    0    0
## 92    0    0    0    0    0    0    0    0    0    0    0    0    0
## 93    0    0    0    0    0    0    0    0    0    0    0    0    0
## 94    0    0    0    0    0    0    0    0    0    0    0    0    0
## 95    0    0    0    0    0    0    0    0    0    0    0    0    0
## 96    0    0    0    0    0    0    0    0    0    0    0    0    0
## 97    0    0    0    0    0    0    0    0    0    0    0    0    0
## 98    0    0    0    0    0    0    0    0    0    0    0    0    0
## 99    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 100    0    0    0    0    0    0    0    0    0    0    0    0    0
## 101    0    0    0    0    0    0    0    0    0    0    0    0    0
## 102    0    0    0    0    0    0    0    0    0    0    0    0    0
## 103    0    0    0    0    0    0    0    0    0    0    0    0    0
## 104    0    0    0    0    0    0    0    0    0    0    0    0    0
## 105    0    0    0    0    0    0    0    0    0    0    0    0    0
## 106    0    0    0    0    0    0    0    0    0    0    0    0    0
## 107    0    0    0    0    0    0    0    0    0    0    0    0    0
## 108    0    0    0    0    0    0    0    0    0    0    0    0    0
## 109    0    0    0    0    0    0    0    0    0    0    0    0    0
## 110    0    0    0    0    0    0    0    0    0    0    0    0    0
## 111    0    0    0    0    0    0    0    0    0    0    0    0    0
## 112    0    0    0    0    0    0    0    0    0    0    0    0    0
## 113    0    0    0    0    0    0    0    0    0    0    0    0    0
## 114    0    0    0    0    0    0    0    0    0    0    0    0    0
## 115    0    0    0    0    0    0    0    0    0    0    0    0    0
## 116    0    0    0    0    0    0    0    0    0    0    0    0    0
## 117    0    0    0    0    0    0    0    0    0    0    0    0    0
## 118    0    0    0    0    0    0    0    0    0    0    0    0    0
## 119    0    0    0    0    0    0    0    0    0    0    0    0    0
## 120    0    0    0    0    0    0    0    0    0    0    0    0    0
## 121    0    0    0    0    0    0    0    0    0    0    0    0    0
## 122    0    0    0    0    0    0    0    0    0    0    0    0    0
## 123    0    0    0    0    0    0    0    0    0    0    0    0    0
## 124    0    0    0    0    0    0    0    0    0    0    0    0    0
## 125    0    0    0    0    0    0    0    0    0    0    0    0    0
## 126    0    0    0    0    0    0    0    0    0    0    0    0    0
## 127    0    0    0    0    0    0    0    0    0    0    0    0    0
## 128    0    0    0    0    0    0    0    0    0    0    0    0    0
## 129    0    0    0    0    0    0    0    0    0    0    0    0    0
## 130    0    0    0    0    0    0    0    0    0    0    0    0    0
## 131    0    0    0    0    0    0    0    0    0    0    0    0    0
## 132    0    0    0    0    0    0    0    0    0    0    0    0    0
## 133    0    0    0    0    0    0    0    0    0    0    0    0    0
## 134    0    0    0    0    0    0    0    0    0    0    0    0    0
## 135    0    0    0    0    0    0    0    0    0    0    0    0    0
## 136    0    0    0    0    0    0    0    0    0    0    0    0    0
## 137    0    0    0    0    0    0    0    0    0    0    0    0    0
## 138    0    0    0    0    0    0    0    0    0    0    0    0    0
## 139    0    0    0    0    0    0    0    0    0    0    0    0    0
## 140    0    0    0    0    0    0    0    0    0    0    0    0    0
## 141    0    0    0    0    0    0    0    0    0    0    0    0    0
## 142    0    0    0    0    0    0    0    0    0    0    0    0    0
## 143    0    0    0    0    0    0    0    0    0    0    0    0    0
## 144    0    0    0    0    0    0    0    0    0    0    0    0    0
## 145    0    0    0    0    0    0    0    0    0    0    0    0    0
## 146    0    0    0    0    0    0    0    0    0    0    0    0    0
## 147    0    0    0    0    0    0    0    0    0    0    0    0    0
## 148    0    0    0    0    0    0    0    0    0    0    0    0    0
## 149    0    0    0    0    0    0    0    0    0    0    0    0    0
## 150    0    0    0    0    0    0    0    0    0    0    0    0    0
## 151    0    0    0    0    0    0    0    0    0    0    0    0    0
## 152    0    0    0    0    0    0    0    0    0    0    0    0    0
## 153    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 154    0    0    0    0    0    0    0    0    0    0    0    0    0
## 155    0    0    0    0    0    0    0    0    0    0    0    0    0
## 156    0    0    0    0    0    0    0    0    0    0    0    0    0
## 157    0    0    0    0    0    0    0    0    0    0    0    0    0
## 158    0    0    0    0    0    0    0    0    0    0    0    0    0
## 159    0    0    0    0    0    0    0    0    0    0    0    0    0
## 160    0    0    0    0    0    0    0    0    0    0    0    0    0
## 161    0    0    0    0    0    0    0    0    0    0    0    0    0
## 162    0    0    0    0    0    0    0    0    0    0    0    0    0
## 163    0    0    0    0    0    0    0    0    0    0    0    0    0
## 164    0    0    0    0    0    0    0    0    0    0    0    0    0
## 165    0    0    0    0    0    0    0    0    0    0    0    0    0
## 166    0    0    0    0    0    0    0    0    0    0    0    0    0
## 167    0    0    0    0    0    0    0    0    0    0    0    0    0
## 168    0    0    0    0    0    0    0    0    0    0    0    0    0
## 169    0    0    0    0    0    0    0    0    0    0    0    0    0
## 170    0    0    0    0    0    0    0    0    0    0    0    0    0
## 171    0    0    0    0    0    0    0    0    0    0    0    0    0
## 172    0    0    0    0    0    0    0    0    0    0    0    0    0
## 173    0    0    0    0    0    0    0    0    0    0    0    0    0
## 174    0    0    0    0    0    0    0    0    0    0    0    0    0
## 175    0    0    0    0    0    0    0    0    0    0    0    0    0
## 176    0    0    0    0    0    0    0    0    0    0    0    0    0
## 177    0    0    0    0    0    0    0    0    0    0    0    0    0
## 178    0    0    0    0    0    0    0    0    0    0    0    0    0
## 179    0    0    0    0    0    0    0    0    0    0    0    0    0
## 180    0    0    0    0    0    0    0    0    0    0    0    0    0
## 181    0    0    0    0    0    0    0    0    0    0    0    0    0
## 182    0    0    0    0    0    0    0    0    0    0    0    0    0
## 183    0    0    0    0    0    0    0    0    0    0    0    0    0
## 184    0    0    0    0    0    0    0    0    0    0    0    0    0
## 185    0    0    0    0    0    0    0    0    0    0    0    0    0
## 186    0    0    0    0    0    0    0    0    0    0    0    0    0
## 187    0    0    0    0    0    0    0    0    0    0    0    0    0
## 188    0    0    0    0    0    0    0    0    0    0    0    0    0
## 189    0    0    0    0    0    0    0    0    0    0    0    0    0
## 190    0    0    0    0    0    0    0    0    0    0    0    0    0
## 191    0    0    0    0    0    0    0    0    0    0    0    0    0
## 192    0    0    0    0    0    0    0    0    0    0    0    0    0
## 193    0    0    0    0    0    0    0    0    0    0    0    0    0
## 194    0    0    0    0    0    0    0    0    0    0    0    0    0
## 195    0    0    0    0    0    0    0    0    0    0    0    0    0
## 196    0    0    0    0    0    0    0    0    0    0    0    0    0
## 197    0    0    0    0    0    0    0    0    0    0    0    0    0
## 198    0    0    0    0    0    0    0    0    0    0    0    0    0
## 199    0    0    0    0    0    0    0    0    0    0    0    0    0
## 200    0    0    0    0    0    0    0    0    0    0    0    0    0
## 201    0    0    0    0    0    0    0    0    0    0    0    0    0
## 202    0    0    0    0    0    0    0    0    0    0    0    0    0
## 203    0    0    0    0    0    0    0    0    0    0    0    0    0
## 204    0    0    0    0    0    0    0    0    0    0    0    0    0
## 205    0    0    0    0    0    0    0    0    0    0    0    0    0
## 206    0    0    0    0    0    0    0    0    0    0    0    0    0
## 207    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 208      0   0   0   0   0   0   0   0   0   0   0   0   0
## 209      0   0   0   0   0   0   0   0   0   0   0   0   0
## 210      0   0   0   0   0   0   0   0   0   0   0   0   0
## 211      0   0   0   0   0   0   0   0   0   0   0   0   0
## 212      0   0   0   0   0   0   0   0   0   0   0   0   0
## 213      0   0   0   0   0   0   0   0   0   0   0   0   0
## 214      0   0   0   0   0   0   0   0   0   0   0   0   0
## 215      0   0   0   0   0   0   0   0   0   0   0   0   0
## 216      0   0   0   0   0   0   0   0   0   0   0   0   0
## 217      0   0   0   0   0   0   0   0   0   0   0   0   0
## 218      0   0   0   0   0   0   0   0   0   0   0   0   0
## 219      0   0   0   0   0   0   0   0   0   0   0   0   0
## 220      0   0   0   0   0   0   0   0   0   0   0   0   0
## 221      0   0   0   0   0   0   0   0   0   0   0   0   0
## 222      0   0   0   0   0   0   0   0   0   0   0   0   0
## 223      0   0   0   0   0   0   0   0   0   0   0   0   0
## 224      0   0   0   0   0   0   0   0   0   0   0   0   0
## 225      0   0   0   0   0   0   0   0   0   0   0   0   0
## 226      0   0   0   0   0   0   0   0   0   0   0   0   0
## 227      0   0   0   0   0   0   0   0   0   0   0   0   0
## 228      0   0   0   0   0   0   0   0   0   0   0   0   0
## 229      0   0   0   0   0   0   0   0   0   0   0   0   0
## 230      0   0   0   0   0   0   0   0   0   0   0   0   0
## 231      0   0   0   0   0   0   0   0   0   0   0   0   0
## 232      0   0   0   0   0   0   0   0   0   0   0   0   0
## 233      0   0   0   0   0   0   0   0   0   0   0   0   0
## 234      0   0   0   0   0   0   0   0   0   0   0   0   0
## 235      0   0   0   0   0   0   0   0   0   0   0   0   0
## 236      0   0   0   0   0   0   0   0   0   0   0   0   0
## 237      0   0   0   0   0   0   0   0   0   0   0   0   0
## 238      0   0   0   0   0   0   0   0   0   0   0   0   0
## 239      0   0   0   0   0   0   0   0   0   0   0   0   0
## 240      0   0   0   0   0   0   0   0   0   0   0   0   0
## 241      0   0   0   0   0   0   0   0   0   0   0   0   0
## 242      0   0   0   0   0   0   0   0   0   0   0   0   0
## 243      0   0   0   0   0   0   0   0   0   0   0   0   0
## 244      0   0   0   0   0   0   0   0   0   0   0   0   0
## 245      0   0   0   0   0   0   0   0   0   0   0   0   0
## 246      0   0   0   0   0   0   0   0   0   0   0   0   0
## 247      0   0   0   0   0   0   0   0   0   0   0   0   0
## 248      0   0   0   0   0   0   0   0   0   0   0   0   0
## 249      0   0   0   0   0   0   0   0   0   0   0   0   0
## 250      0   0   0   0   0   0   0   0   0   0   0   0   0
## 251      0   0   0   0   0   0   0   0   0   0   0   0   0
## 252      0   0   0   0   0   0   0   0   0   0   0   0   0
## 253      0   0   0   0   0   0   0   0   0   0   0   0   0
## 254      0   0   0   0   0   0   0   0   0   0   0   0   0
## 255      0   0   0   0   0   0   0   0   0   0   0   0   0
## 256      0   0   0   0   0   0   0   0   0   0   0   0   0
## 257      0   0   0   0   0   0   0   0   0   0   0   0   0
## 258      0   0   0   0   0   0   0   0   0   0   0   0   0
## 259      0   0   0   0   0   0   0   0   0   0   0   0   0
## 260      0   0   0   0   0   0   0   0   0   0   0   0   0
## 261      0   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 262    0    0    0    0    0    0    0    0    0    0    0    0    0
## 263    0    0    0    0    0    0    0    0    0    0    0    0    0
## 264    0    0    0    0    0    0    0    0    0    0    0    0    0
## 265    0    0    0    0    0    0    0    0    0    0    0    0    0
## 266    0    0    0    0    0    0    0    0    0    0    0    0    0
## 267    0    0    0    0    0    0    0    0    0    0    0    0    0
## 268    0    0    0    0    0    0    0    0    0    0    0    0    0
## 269    0    0    0    0    0    0    0    0    0    0    0    0    0
## 270    0    0    0    0    0    0    0    0    0    0    0    0    0
## 271    0    0    0    0    0    0    0    0    0    0    0    0    0
## 272    0    0    0    0    0    0    0    0    0    0    0    0    0
## 273    0    0    0    0    0    0    0    0    0    0    0    0    0
## 274    0    0    0    0    0    0    0    0    0    0    0    0    0
## 275    0    0    0    0    0    0    0    0    0    0    0    0    0
## 276    0    0    0    0    0    0    0    0    0    0    0    0    0
## 277    0    0    0    0    0    0    0    0    0    0    0    0    0
## 278    0    0    0    0    0    0    0    0    0    0    0    0    0
## 279    0    0    0    0    0    0    0    0    0    0    0    0    0
## 280    0    0    0    0    0    0    0    0    0    0    0    0    0
## 281    0    0    0    0    0    0    0    0    0    0    0    0    0
## 282    0    0    0    0    0    0    0    0    0    0    0    0    0
## 283    0    0    0    0    0    0    0    0    0    0    0    0    0
## 284    0    0    0    0    0    0    0    0    0    0    0    0    0
## 285    0    0    0    0    0    0    0    0    0    0    0    0    0
## 286    0    0    0    0    0    0    0    0    0    0    0    0    0
## 287    0    0    0    0    0    0    0    0    0    0    0    0    0
## 288    0    0    0    0    0    0    0    0    0    0    0    0    0
## 289    0    0    0    0    0    0    0    0    0    0    0    0    0
## 290    0    0    0    0    0    0    0    0    0    0    0    0    0
## 291    0    0    0    0    0    0    0    0    0    0    0    0    0
## 292    0    0    0    0    0    0    0    0    0    0    0    0    0
## 293    0    0    0    0    0    0    0    0    0    0    0    0    0
## 294    0    0    0    0    0    0    0    0    0    0    0    0    0
## 295    0    0    0    0    0    0    0    0    0    0    0    0    0
## 296    0    0    0    0    0    0    0    0    0    0    0    0    0
## 297    0    0    0    0    0    0    0    0    0    0    0    0    0
## 298    0    0    0    0    0    0    0    0    0    0    0    0    0
## 299    0    0    0    0    0    0    0    0    0    0    0    0    0
## 300    0    0    0    0    0    0    0    0    0    0    0    0    0
## 301    0    0    0    0    0    0    0    0    0    0    0    0    0
## 302    0    0    0    0    0    0    0    0    0    0    0    0    0
## 303    0    0    0    0    0    0    0    0    0    0    0    0    0
## 304    0    0    0    0    0    0    0    0    0    0    0    0    0
## 305    0    0    0    0    0    0    0    0    0    0    0    0    0
## 306    0    0    0    0    0    0    0    0    0    0    0    0    0
## 307    0    0    0    0    0    0    0    0    0    0    0    0    0
## 308    0    0    0    0    0    0    0    0    0    0    0    0    0
## 309    0    0    0    0    0    0    0    0    0    0    0    0    0
## 310    0    0    0    0    0    0    0    0    0    0    0    0    0
## 311    0    0    0    0    0    0    0    0    0    0    0    0    0
## 312    0    0    0    0    0    0    0    0    0    0    0    0    0
## 313    0    0    0    0    0    0    0    0    0    0    0    0    0
## 314    0    0    0    0    0    0    0    0    0    0    0    0    0
## 315    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 316    0    0    0    0    0    0    0    0    0    0    0    0    0
## 317    0    0    0    0    0    0    0    0    0    0    0    0    0
## 318    0    0    0    0    0    0    0    0    0    0    0    0    0
## 319    0    0    0    0    0    0    0    0    0    0    0    0    0
## 320    0    0    0    0    0    0    0    0    0    0    0    0    0
## 321    0    0    0    0    0    0    0    0    0    0    0    0    0
## 322    0    0    0    0    0    0    0    0    0    0    0    0    0
## 323    0    0    0    0    0    0    0    0    0    0    0    0    0
## 324    0    0    0    0    0    0    0    0    0    0    0    0    0
## 325    0    0    0    0    0    0    0    0    0    0    0    0    0
## 326    0    0    0    0    0    0    0    0    0    0    0    0    0
## 327    0    0    0    0    0    0    0    0    0    0    0    0    0
## 328    0    0    0    0    0    0    0    0    0    0    0    0    0
## 329    0    0    0    0    0    0    0    0    0    0    0    0    0
## 330    0    0    0    0    0    0    0    0    0    0    0    0    0
## 331    0    0    0    0    0    0    0    0    0    0    0    0    0
## 332    0    0    0    0    0    0    0    0    0    0    0    0    0
## 333    0    0    0    0    0    0    0    0    0    0    0    0    0
## 334    0    0    0    0    0    0    0    0    0    0    0    0    0
## 335    0    0    0    0    0    0    0    0    0    0    0    0    0
## 336    0    0    0    0    0    0    0    0    0    0    0    0    0
## 337    0    0    0    0    0    0    0    0    0    0    0    0    0
## 338    0    0    0    0    0    0    0    0    0    0    0    0    0
## 339    0    0    0    0    0    0    0    0    0    0    0    0    0
## 340    0    0    0    0    0    0    0    0    0    0    0    0    0
## 341    0    0    0    0    0    0    0    0    0    0    0    0    0
## 342    0    0    0    0    0    0    0    0    0    0    0    0    0
## 343    0    0    0    0    0    0    0    0    0    0    0    0    0
## 344    0    0    0    0    0    0    0    0    0    0    0    0    0
## 345    0    0    0    0    0    0    0    0    0    0    0    0    0
## 346    0    0    0    0    0    0    0    0    0    0    0    0    0
## 347    0    0    0    0    0    0    0    0    0    0    0    0    0
## 348    0    0    0    0    0    0    0    0    0    0    0    0    0
## 349    0    0    0    0    0    0    0    0    0    0    0    0    0
## 350    0    0    0    0    0    0    0    0    0    0    0    0    0
## 351    0    0    0    0    0    0    0    0    0    0    0    0    0
## 352    0    0    0    0    0    0    0    0    0    0    0    0    0
## 353    0    0    0    0    0    0    0    0    0    0    0    0    0
## 354    0    0    0    0    0    0    0    0    0    0    0    0    0
## 355    0    0    0    0    0    0    0    0    0    0    0    0    0
## 356    0    0    0    0    0    0    0    0    0    0    0    0    0
## 357    0    0    0    0    0    0    0    0    0    0    0    0    0
## 358    0    0    0    0    0    0    0    0    0    0    0    0    0
## 359    0    0    0    0    0    0    0    0    0    0    0    0    0
## 360    0    0    0    0    0    0    0    0    0    0    0    0    0
## 361    0    0    0    0    0    0    0    0    0    0    0    0    0
## 362    0    0    0    0    0    0    0    0    0    0    0    0    0
## 363    0    0    0    0    0    0    0    0    0    0    0    0    0
## 364    0    0    0    0    0    0    0    0    0    0    0    0    0
## 365    0    0    0    0    0    0    0    0    0    0    0    0    0
## 366    0    0    0    0    0    0    0    0    0    0    0    0    0
## 367    0    0    0    0    0    0    0    0    0    0    0    0    0
## 368    0    0    0    0    0    0    0    0    0    0    0    0    0
## 369    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 370      0      0      0      0      0      0      0      0      0      0      0      0      0
## 371      0      0      0      0      0      0      0      0      0      0      0      0      0
## 372      0      0      0      0      0      0      0      0      0      0      0      0      0
## 373      0      0      0      0      0      0      0      0      0      0      0      0      0
## 374      0      0      0      0      0      0      0      0      0      0      0      0      0
## 375      0      0      0      0      0      0      0      0      0      0      0      0      0
## 376      0      0      0      0      0      0      0      0      0      0      0      0      0
## 377      0      0      0      0      0      0      0      0      0      0      0      0      0
## 378      0      0      0      0      0      0      0      0      0      0      0      0      0
## 379      0      0      0      0      0      0      0      0      0      0      0      0      0
## 380      0      0      0      0      0      0      0      0      0      0      0      0      0
## 381      0      0      0      0      0      0      0      0      0      0      0      0      0
## 382      0      0      0      0      0      0      0      0      0      0      0      0      0
## 383      0      0      0      0      0      0      0      0      0      0      0      0      0
## 384      0      0      0      0      0      0      0      0      0      0      0      0      0
## 385      0      0      0      0      0      0      0      0      0      0      0      0      0
## 386      0      0      0      0      0      0      0      0      0      0      0      0      0
## 387      0      0      0      0      0      0      0      0      0      0      0      0      0
## 388      0      0      0      0      0      0      0      0      0      0      0      0      0
## 389      0      0      0      0      0      0      0      0      0      0      0      0      0
## 390      0      0      0      0      0      0      0      0      0      0      0      0      0
## 391      0      0      0      0      0      0      0      0      0      0      0      0      0
## 392      0      0      0      0      0      0      0      0      0      0      0      0      0
## 393      0      0      0      0      0      0      0      0      0      0      0      0      0
## 394      0      0      0      0      0      0      0      0      0      0      0      0      0
## 395      0      0      0      0      0      0      0      0      0      0      0      0      0
## 396      0      0      0      0      0      0      0      0      0      0      0      0      0
## 397      0      0      0      0      0      0      0      0      0      0      0      0      0
## 398      0      0      0      0      0      0      0      0      0      0      0      0      0
## 399      0      0      0      0      0      0      0      0      0      0      0      0      0
## 400      0      0      0      0      0      0      0      0      0      0      0      0      0
## 401      0      0      0      0      0      0      0      0      0      0      0      0      0
## 402      0      0      0      0      0      0      0      0      0      0      0      0      0
## 403      0      0      0      0      0      0      0      0      0      0      0      0      0
## 404      0      0      0      0      0      0      0      0      0      0      0      0      0
## 405      0      0      0      0      0      0      0      0      0      0      0      0      0
## 406      0      0      0      0      0      0      0      0      0      0      0      0      0
## 407      0      0      0      0      0      0      0      0      0      0      0      0      0
## 408      0      0      0      0      0      0      0      0      0      0      0      0      0
## 409      0      0      0      0      0      0      0      0      0      0      0      0      0
## 410      0      0      0      0      0      0      0      0      0      0      0      0      0
## 411      0      0      0      0      0      0      0      0      0      0      0      0      0
## 412      0      0      0      0      0      0      0      0      0      0      0      0      0
## 413      0      0      0      0      0      0      0      0      0      0      0      0      0
## 414      0      0      0      0      0      0      0      0      0      0      0      0      0
## 415      0      0      0      0      0      0      0      0      0      0      0      0      0
## 416      0      0      0      0      0      0      0      0      0      0      0      0      0
## 417      0      0      0      0      0      0      0      0      0      0      0      0      0
## 418      0      0      0      0      0      0      0      0      0      0      0      0      0
## 419      0      0      0      0      0      0      0      0      0      0      0      0      0
## 420      0      0      0      0      0      0      0      0      0      0      0      0      0
## 421      0      0      0      0      0      0      0      0      0      0      0      0      0
## 422      0      0      0      0      0      0      0      0      0      0      0      0      0
## 423      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 424   0   0   0   0   0   0   0   0   0   0   0   0   0
## 425   0   0   0   0   0   0   0   0   0   0   0   0   0
## 426   0   0   0   0   0   0   0   0   0   0   0   0   0
## 427   0   0   0   0   0   0   0   0   0   0   0   0   0
## 428   0   0   0   0   0   0   0   0   0   0   0   0   0
## 429   0   0   0   0   0   0   0   0   0   0   0   0   0
## 430   0   0   0   0   0   0   0   0   0   0   0   0   0
## 431   0   0   0   0   0   0   0   0   0   0   0   0   0
## 432   0   0   0   0   0   0   0   0   0   0   0   0   0
## 433   0   0   0   0   0   0   0   0   0   0   0   0   0
## 434   0   0   0   0   0   0   0   0   0   0   0   0   0
## 435   0   0   0   0   0   0   0   0   0   0   0   0   0
## 436   0   0   0   0   0   0   0   0   0   0   0   0   0
## 437   0   0   0   0   0   0   0   0   0   0   0   0   0
## 438   0   0   0   0   0   0   0   0   0   0   0   0   0
## 439   0   0   0   0   0   0   0   0   0   0   0   0   0
## 440   0   0   0   0   0   0   0   0   0   0   0   0   0
## 441   0   0   0   0   0   0   0   0   0   0   0   0   0
## 442   0   0   0   0   0   0   0   0   0   0   0   0   0
## 443   0   0   0   0   0   0   0   0   0   0   0   0   0
## 444   0   0   0   0   0   0   0   0   0   0   0   0   0
## 445   0   0   0   0   0   0   0   0   0   0   0   0   0
## 446   0   0   0   0   0   0   0   0   0   0   0   0   0
## 447   0   0   0   0   0   0   0   0   0   0   0   0   0
## 448   0   0   0   0   0   0   0   0   0   0   0   0   0
## 449   0   0   0   0   0   0   0   0   0   0   0   0   0
## 450   0   0   0   0   0   0   0   0   0   0   0   0   0
## 451   0   0   0   0   0   0   0   0   0   0   0   0   0
## 452   0   0   0   0   0   0   0   0   0   0   0   0   0
## 453   0   0   0   0   0   0   0   0   0   0   0   0   0
## 454   0   0   0   0   0   0   0   0   0   0   0   0   0
## 455   0   0   0   0   0   0   0   0   0   0   0   0   0
## 456   0   0   0   0   0   0   0   0   0   0   0   0   0
## 457   0   0   0   0   0   0   0   0   0   0   0   0   0
## 458   0   0   0   0   0   0   0   0   0   0   0   0   0
## 459   0   0   0   0   0   0   0   0   0   0   0   0   0
## 460   0   0   0   0   0   0   0   0   0   0   0   0   0
## 461   0   0   0   0   0   0   0   0   0   0   0   0   0
## 462   0   0   0   0   0   0   0   0   0   0   0   0   0
## 463   0   0   0   0   0   0   0   0   0   0   0   0   0
## 464   0   0   0   0   0   0   0   0   0   0   0   0   0
## 465   0   0   0   0   0   0   0   0   0   0   0   0   0
## 466   0   0   0   0   0   0   0   0   0   0   0   0   0
## 467   0   0   0   0   0   0   0   0   0   0   0   0   0
## 468   0   0   0   0   0   0   0   0   0   0   0   0   0
## 469   0   0   0   0   0   0   0   0   0   0   0   0   0
## 470   0   0   0   0   0   0   0   0   0   0   0   0   0
## 471   0   0   0   0   0   0   0   0   0   0   0   0   0
## 472   0   0   0   0   0   0   0   0   0   0   0   0   0
## 473   0   0   0   0   0   0   0   0   0   0   0   0   0
## 474   0   0   0   0   0   0   0   0   0   0   0   0   0
## 475   0   0   0   0   0   0   0   0   0   0   0   0   0
## 476   0   0   0   0   0   0   0   0   0   0   0   0   0
## 477   0   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 478    0    0    0    0    0    0    0    0    0    0    0    0    0
## 479    0    0    0    0    0    0    0    0    0    0    0    0    0
## 480    0    0    0    0    0    0    0    0    0    0    0    0    0
## 481    0    0    0    0    0    0    0    0    0    0    0    0    0
## 482    0    0    0    0    0    0    0    0    0    0    0    0    0
## 483    0    0    0    0    0    0    0    0    0    0    0    0    0
## 484    0    0    0    0    0    0    0    0    0    0    0    0    0
## 485    0    0    0    0    0    0    0    0    0    0    0    0    0
## 486    0    0    0    0    0    0    0    0    0    0    0    0    0
## 487    0    0    0    0    0    0    0    0    0    0    0    0    0
## 488    0    0    0    0    0    0    0    0    0    0    0    0    0
## 489    0    0    0    0    0    0    0    0    0    0    0    0    0
## 490    0    0    0    0    0    0    0    0    0    0    0    0    0
## 491    0    0    0    0    0    0    0    0    0    0    0    0    0
## 492    0    0    0    0    0    0    0    0    0    0    0    0    0
## 493    0    0    0    0    0    0    0    0    0    0    0    0    0
## 494    0    0    0    0    0    0    0    0    0    0    0    0    0
## 495    0    0    0    0    0    0    0    0    0    0    0    0    0
## 496    0    0    0    0    0    0    0    0    0    0    0    0    0
## 497    0    0    0    0    0    0    0    0    0    0    0    0    0
## 498    0    0    0    0    0    0    0    0    0    0    0    0    0
## 499    0    0    0    0    0    0    0    0    0    0    0    0    0
## 500    0    0    0    0    0    0    0    0    0    0    0    0    0
## 501    0    0    0    0    0    0    0    0    0    0    0    0    0
## 502    0    0    0    0    0    0    0    0    0    0    0    0    0
## 503    0    0    0    0    0    0    0    0    0    0    0    0    0
## 504    0    0    0    0    0    0    0    0    0    0    0    0    0
## 505    0    0    0    0    0    0    0    0    0    0    0    0    0
## 506    0    0    0    0    0    0    0    0    0    0    0    0    0
## 507    0    0    0    0    0    0    0    0    0    0    0    0    0
## 508    0    0    0    0    0    0    0    0    0    0    0    0    0
## 509    0    0    0    0    0    0    0    0    0    0    0    0    0
## 510    0    0    0    0    0    0    0    0    0    0    0    0    0
## 511    0    0    0    0    0    0    0    0    0    0    0    0    0
## 512    0    0    0    0    0    0    0    0    0    0    0    0    0
## 513    0    0    0    0    0    0    0    0    0    0    0    0    0
## 514    0    0    0    0    0    0    0    0    0    0    0    0    0
## 515    0    0    0    0    0    0    0    0    0    0    0    0    0
## 516    0    0    0    0    0    0    0    0    0    0    0    0    0
## 517    0    0    0    0    0    0    0    0    0    0    0    0    0
## 518    0    0    0    0    0    0    0    0    0    0    0    0    0
## 519    0    0    0    0    0    0    0    0    0    0    0    0    0
## 520    0    0    0    0    0    0    0    0    0    0    0    0    0
## 521    0    0    0    0    0    0    0    0    0    0    0    0    0
## 522    0    0    0    0    0    0    0    0    0    0    0    0    0
## 523    0    0    0    0    0    0    0    0    0    0    0    0    0
## 524    0    0    0    0    0    0    0    0    0    0    0    0    0
## 525    0    0    0    0    0    0    0    0    0    0    0    0    0
## 526    0    0    0    0    0    0    0    0    0    0    0    0    0
## 527    0    0    0    0    0    0    0    0    0    0    0    0    0
## 528    0    0    0    0    0    0    0    0    0    0    0    0    0
## 529    0    0    0    0    0    0    0    0    0    0    0    0    0
## 530    0    0    0    0    0    0    0    0    0    0    0    0    0
## 531    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 532    0    0    0    0    0    0    0    0    0    0    0    0    0
## 533    0    0    0    0    0    0    0    0    0    0    0    0    0
## 534    0    0    0    0    0    0    0    0    0    0    0    0    0
## 535    0    0    0    0    0    0    0    0    0    0    0    0    0
## 536    0    0    0    0    0    0    0    0    0    0    0    0    0
## 537    0    0    0    0    0    0    0    0    0    0    0    0    0
## 538    0    0    0    0    0    0    0    0    0    0    0    0    0
## 539    0    0    0    0    0    0    0    0    0    0    0    0    0
## 540    0    0    0    0    0    0    0    0    0    0    0    0    0
## 541    0    0    0    0    0    0    0    0    0    0    0    0    0
## 542    0    0    0    0    0    0    0    0    0    0    0    0    0
## 543    0    0    0    0    0    0    0    0    0    0    0    0    0
## 544    0    0    0    0    0    0    0    0    0    0    0    0    0
## 545    0    0    0    0    0    0    0    0    0    0    0    0    0
## 546    0    0    0    0    0    0    0    0    0    0    0    0    0
## 547    0    0    0    0    0    0    0    0    0    0    0    0    0
## 548    0    0    0    0    0    0    0    0    0    0    0    0    0
## 549    0    0    0    0    0    0    0    0    0    0    0    0    0
## 550    0    0    0    0    0    0    0    0    0    0    0    0    0
## 551    0    0    0    0    0    0    0    0    0    0    0    0    0
## 552    0    0    0    0    0    0    0    0    0    0    0    0    0
## 553    0    0    0    0    0    0    0    0    0    0    0    0    0
## 554    0    0    0    0    0    0    0    0    0    0    0    0    0
## 555    0    0    0    0    0    0    0    0    0    0    0    0    0
## 556    0    0    0    0    0    0    0    0    0    0    0    0    0
## 557    0    0    0    0    0    0    0    0    0    0    0    0    0
## 558    0    0    0    0    0    0    0    0    0    0    0    0    0
## 559    0    0    0    0    0    0    0    0    0    0    0    0    0
## 560    0    0    0    0    0    0    0    0    0    0    0    0    0
## 561    0    0    0    0    0    0    0    0    0    0    0    0    0
## 562    0    0    0    0    0    0    0    0    0    0    0    0    0
## 563    0    0    0    0    0    0    0    0    0    0    0    0    0
## 564    0    0    0    0    0    0    0    0    0    0    0    0    0
## 565    0    0    0    0    0    0    0    0    0    0    0    0    0
## 566    0    0    0    0    0    0    0    0    0    0    0    0    0
## 567    0    0    0    0    0    0    0    0    0    0    0    0    0
## 568    0    0    0    0    0    0    0    0    0    0    0    0    0
## 569    0    0    0    0    0    0    0    0    0    0    0    0    0
## 570    0    0    0    0    0    0    0    0    0    0    0    0    0
## 571    0    0    0    0    0    0    0    0    0    0    0    0    0
## 572    0    0    0    0    0    0    0    0    0    0    0    0    0
## 573    0    0    0    0    0    0    0    0    0    0    0    0    0
## 574    0    0    0    0    0    0    0    0    0    0    0    0    0
## 575    0    0    0    0    0    0    0    0    0    0    0    0    0
## 576    0    0    0    0    0    0    0    0    0    0    0    0    0
## 577    0    0    0    0    0    0    0    0    0    0    0    0    0
## 578    0    0    0    0    0    0    0    0    0    0    0    0    0
## 579    0    0    0    0    0    0    0    0    0    0    0    0    0
## 580    0    0    0    0    0    0    0    0    0    0    0    0    0
## 581    0    0    0    0    0    0    0    0    0    0    0    0    0
## 582    0    0    0    0    0    0    0    0    0    0    0    0    0
## 583    0    0    0    0    0    0    0    0    0    0    0    0    0
## 584    0    0    0    0    0    0    0    0    0    0    0    0    0
## 585    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 586    0    0    0    0    0    0    0    0    0    0    0    0    0
## 587    0    0    0    0    0    0    0    0    0    0    0    0    0
## 588    0    0    0    0    0    0    0    0    0    0    0    0    0
## 589    0    0    0    0    0    0    0    0    0    0    0    0    0
## 590    0    0    0    0    0    0    0    0    0    0    0    0    0
## 591    0    0    0    0    0    0    0    0    0    0    0    0    0
## 592    0    0    0    0    0    0    0    0    0    0    0    0    0
## 593    0    0    0    0    0    0    0    0    0    0    0    0    0
## 594    0    0    0    0    0    0    0    0    0    0    0    0    0
## 595    0    0    0    0    0    0    0    0    0    0    0    0    0
## 596    0    0    0    0    0    0    0    0    0    0    0    0    0
## 597    0    0    0    0    0    0    0    0    0    0    0    0    0
## 598    0    0    0    0    0    0    0    0    0    0    0    0    0
## 599    0    0    0    0    0    0    0    0    0    0    0    0    0
## 600    0    0    0    0    0    0    0    0    0    0    0    0    0
## 601    0    0    0    0    0    0    0    0    0    0    0    0    0
## 602    0    0    0    0    0    0    0    0    0    0    0    0    0
## 603    0    0    0    0    0    0    0    0    0    0    0    0    0
## 604    0    0    0    0    0    0    0    0    0    0    0    0    0
## 605    0    0    0    0    0    0    0    0    0    0    0    0    0
## 606    0    0    0    0    0    0    0    0    0    0    0    0    0
## 607    0    0    0    0    0    0    0    0    0    0    0    0    0
## 608    0    0    0    0    0    0    0    0    0    0    0    0    0
## 609    0    0    0    0    0    0    0    0    0    0    0    0    0
## 610    0    0    0    0    0    0    0    0    0    0    0    0    0
## 611    0    0    0    0    0    0    0    0    0    0    0    0    0
## 612    0    0    0    0    0    0    0    0    0    0    0    0    0
## 613    0    0    0    0    0    0    0    0    0    0    0    0    0
## 614    0    0    0    0    0    0    0    0    0    0    0    0    0
## 615    0    0    0    0    0    0    0    0    0    0    0    0    0
## 616    0    0    0    0    0    0    0    0    0    0    0    0    0
## 617    0    0    0    0    0    0    0    0    0    0    0    0    0
## 618    0    0    0    0    0    0    0    0    0    0    0    0    0
## 619    0    0    0    0    0    0    0    0    0    0    0    0    0
## 620    0    0    0    0    0    0    0    0    0    0    0    0    0
## 621    0    0    0    0    0    0    0    0    0    0    0    0    0
## 622    0    0    0    0    0    0    0    0    0    0    0    0    0
## 623    0    0    0    0    0    0    0    0    0    0    0    0    0
## 624    0    0    0    0    0    0    0    0    0    0    0    0    0
## 625    0    0    0    0    0    0    0    0    0    0    0    0    0
## 626    0    0    0    0    0    0    0    0    0    0    0    0    0
## 627    0    0    0    0    0    0    0    0    0    0    0    0    0
## 628    0    0    0    0    0    0    0    0    0    0    0    0    0
## 629    0    0    0    0    0    0    0    0    0    0    0    0    0
## 630    0    0    0    0    0    0    0    0    0    0    0    0    0
## 631    0    0    0    0    0    0    0    0    0    0    0    0    0
## 632    0    0    0    0    0    0    0    0    0    0    0    0    0
## 633    0    0    0    0    0    0    0    0    0    0    0    0    0
## 634    0    0    0    0    0    0    0    0    0    0    0    0    0
## 635    0    0    0    0    0    0    0    0    0    0    0    0    0
## 636    0    0    0    0    0    0    0    0    0    0    0    0    0
## 637    0    0    0    0    0    0    0    0    0    0    0    0    0
## 638    0    0    0    0    0    0    0    0    0    0    0    0    0
## 639    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 640     0     0     0     0     0     0     0     0     0     0     0     0     0
## 641     0     0     0     0     0     0     0     0     0     0     0     0     0
## 642     0     0     0     0     0     0     0     0     0     0     0     0     0
## 643     0     0     0     0     0     0     0     0     0     0     0     0     0
## 644     0     0     0     0     0     0     0     0     0     0     0     0     0
## 645     0     0     0     0     0     0     0     0     0     0     0     0     0
## 646     0     0     0     0     0     0     0     0     0     0     0     0     0
## 647     0     0     0     0     0     0     0     0     0     0     0     0     0
## 648     0     0     0     0     0     0     0     0     0     0     0     0     0
## 649     0     0     0     0     0     0     0     0     0     0     0     0     0
## 650     0     0     0     0     0     0     0     0     0     0     0     0     0
## 651     0     0     0     0     0     0     0     0     0     0     0     0     0
## 652     0     0     0     0     0     0     0     0     0     0     0     0     0
## 653     0     0     0     0     0     0     0     0     0     0     0     0     0
## 654     0     0     0     0     0     0     0     0     0     0     0     0     0
## 655     0     0     0     0     0     0     0     0     0     0     0     0     0
## 656     0     0     0     0     0     0     0     0     0     0     0     0     0
## 657     0     0     0     0     0     0     0     0     0     0     0     0     0
## 658     0     0     0     0     0     0     0     0     0     0     0     0     0
## 659     0     0     0     0     0     0     0     0     0     0     0     0     0
## 660     0     0     0     0     0     0     0     0     0     0     0     0     0
## 661     0     0     0     0     0     0     0     0     0     0     0     0     0
## 662     0     0     0     0     0     0     0     0     0     0     0     0     0
## 663     0     0     0     0     0     0     0     0     0     0     0     0     0
## 664     0     0     0     0     0     0     0     0     0     0     0     0     0
## 665     0     0     0     0     0     0     0     0     0     0     0     0     0
## 666     0     0     0     0     0     0     0     0     0     0     0     0     0
## 667     0     0     0     0     0     0     0     0     0     0     0     0     0
## 668     0     0     0     0     0     0     0     0     0     0     0     0     0
## 669     0     0     0     0     0     0     0     0     0     0     0     0     0
## 670     0     0     0     0     0     0     0     0     0     0     0     0     0
## 671     0     0     0     0     0     0     0     0     0     0     0     0     0
## 672     0     0     0     0     0     0     0     0     0     0     0     0     0
## 673     0     0     0     0     0     0     0     0     0     0     0     0     0
## 674     0     0     0     0     0     0     0     0     0     0     0     0     0
## 675     0     0     0     0     0     0     0     0     0     0     0     0     0
## 676     0     0     0     0     0     0     0     0     0     0     0     0     0
## 677     0     0     0     0     0     0     0     0     0     0     0     0     0
## 678     0     0     0     0     0     0     0     0     0     0     0     0     0
## 679     0     0     0     0     0     0     0     0     0     0     0     0     0
## 680     0     0     0     0     0     0     0     0     0     0     0     0     0
## 681     0     0     0     0     0     0     0     0     0     0     0     0     0
## 682     0     0     0     0     0     0     0     0     0     0     0     0     0
## 683     0     0     0     0     0     0     0     0     0     0     0     0     0
## 684     0     0     0     0     0     0     0     0     0     0     0     0     0
## 685     0     0     0     0     0     0     0     0     0     0     0     0     0
## 686     0     0     0     0     0     0     0     0     0     0     0     0     0
## 687     0     0     0     0     0     0     0     0     0     0     0     0     0
## 688     0     0     0     0     0     0     0     0     0     0     0     0     0
## 689     0     0     0     0     0     0     0     0     0     0     0     0     0
## 690     0     0     0     0     0     0     0     0     0     0     0     0     0
## 691     0     0     0     0     0     0     0     0     0     0     0     0     0
## 692     0     0     0     0     0     0     0     0     0     0     0     0     0
## 693     0     0     0     0     0     0     0     0     0     0     0     0     0
```

##	694	0	0	0	0	0	0	0	0	0	0	0	0	0
##	695	0	0	0	0	0	0	0	0	0	0	0	0	0
##	696	0	0	0	0	0	0	0	0	0	0	0	0	0
##	697	0	0	0	0	0	0	0	0	0	0	0	0	0
##	698	0	0	0	0	0	0	0	0	0	0	0	0	0
##	699	0	0	0	0	0	0	0	0	0	0	0	0	0
##	700	0	0	0	0	0	0	0	0	0	0	0	0	0
##	701	0	0	0	0	0	0	0	0	0	0	0	0	0
##	702	0	0	0	0	0	0	0	0	0	0	0	0	0
##	703	0	0	0	0	0	0	0	0	0	0	0	0	0
##	704	0	0	0	0	0	0	0	0	0	0	0	0	0
##	705	0	0	0	0	0	0	0	0	0	0	0	0	0
##	706	0	0	0	0	0	0	0	0	0	0	0	0	0
##	707	0	0	0	0	0	0	0	0	0	0	0	0	0
##	708	0	0	0	0	0	0	0	0	0	0	0	0	0
##	709	0	0	0	0	0	0	0	0	0	0	0	0	0
##	710	0	0	0	0	0	0	0	0	0	0	0	0	0
##	711	0	0	0	0	0	0	0	0	0	0	0	0	0
##	712	0	0	0	0	0	0	0	0	0	0	0	0	0
##	713	0	0	0	0	0	0	0	0	0	0	0	0	0
##	714	0	0	0	0	0	0	0	0	0	0	0	0	0
##	715	0	0	0	0	0	0	0	0	0	0	0	0	0
##	716	0	0	0	0	0	0	0	0	0	0	0	0	0
##	717	0	0	0	0	0	0	0	0	0	0	0	0	0
##	718	0	0	0	0	0	0	0	0	0	0	0	0	0
##	719	0	0	0	0	0	0	0	0	0	0	0	0	0
##	720	0	0	0	0	0	0	0	0	0	0	0	0	0
##	721	0	0	0	0	0	0	0	0	0	0	0	0	0
##	722	0	0	0	0	0	0	0	0	0	0	0	0	0
##	723	0	0	0	0	0	0	0	0	0	0	0	0	0
##	724	0	0	0	0	0	0	0	0	0	0	0	0	0
##	725	0	0	0	0	0	0	0	0	0	0	0	0	0
##	726	0	0	0	0	0	0	0	0	0	0	0	0	0
##	727	0	0	0	0	0	0	0	0	0	0	0	0	0
##	728	0	0	0	0	0	0	0	0	0	0	0	0	0
##	729	0	0	0	0	0	0	0	0	0	0	0	0	0
##	730	0	0	0	0	0	0	0	0	0	0	0	0	0
##	731	0	0	0	0	0	0	0	0	0	0	0	0	0
##	732	0	0	0	0	0	0	0	0	0	0	0	0	0
##	733	0	0	0	0	0	0	0	0	0	0	0	0	0
##	734	0	0	0	0	0	0	0	0	0	0	0	0	0
##	735	0	0	0	0	0	0	0	0	0	0	0	0	0
##	736	0	0	0	0	0	0	0	0	0	0	0	0	0
##	737	0	0	0	0	0	0	0	0	0	0	0	0	0
##	738	0	0	0	0	0	0	0	0	0	0	0	0	0
##	739	0	0	0	0	0	0	0	0	0	0	0	0	0
##	740	0	0	0	0	0	0	0	0	0	0	0	0	0
##	741	0	0	0	0	0	0	0	0	0	0	0	0	0
##	742	0	0	0	0	0	0	0	0	0	0	0	0	0
##	743	0	0	0	0	0	0	0	0	0	0	0	0	0
##	744	0	0	0	0	0	0	0	0	0	0	0	0	0
##	745	0	0	0	0	0	0	0	0	0	0	0	0	0
##	746	0	0	0	0	0	0	0	0	0	0	0	0	0
##	747	0	0	0	0	0	0	0	0	0	0	0	0	0

```
## 748   0   0   0   0   0   0   0   0   0   0   0   0   0
## 749   0   0   0   0   0   0   0   0   0   0   0   0   0
## 750   0   0   0   0   0   0   0   0   0   0   0   0   0
## 751   0   0   0   0   0   0   0   0   0   0   0   0   0
## 752   0   0   0   0   0   0   0   0   0   0   0   0   0
## 753   0   0   0   0   0   0   0   0   0   0   0   0   0
## 754   0   0   0   0   0   0   0   0   0   0   0   0   0
## 755   0   0   0   0   0   0   0   0   0   0   0   0   0
## 756   0   0   0   0   0   0   0   0   0   0   0   0   0
## 757   0   0   0   0   0   0   0   0   0   0   0   0   0
## 758   0   0   0   0   0   0   0   0   0   0   0   0   0
## 759   0   0   0   0   0   0   0   0   0   0   0   0   0
## 760   0   0   0   0   0   0   0   0   0   0   0   0   0
## 761   0   0   0   0   0   0   0   0   0   0   0   0   0
## 762   0   0   0   0   0   0   0   0   0   0   0   0   0
## 763   0   0   0   0   0   0   0   0   0   0   0   0   0
## 764   0   0   0   0   0   0   0   0   0   0   0   0   0
## 765   0   0   0   0   0   0   0   0   0   0   0   0   0
## 766   0   0   0   0   0   0   0   0   0   0   0   0   0
## 767   0   0   0   0   0   0   0   0   0   0   0   0   0
## 768   0   0   0   0   0   0   0   0   0   0   0   0   0
## 769   0   0   0   0   0   0   0   0   0   0   0   0   0
## 770   0   0   0   0   0   0   0   0   0   0   0   0   0
## 771   0   0   0   0   0   0   0   0   0   0   0   0   0
## 772   0   0   0   0   0   0   0   0   0   0   0   0   0
## 773   0   0   0   0   0   0   0   0   0   0   0   0   0
## 774   0   0   0   0   0   0   0   0   0   0   0   0   0
## 775   0   0   0   0   0   0   0   0   0   0   0   0   0
## 776   0   0   0   0   0   0   0   0   0   0   0   0   0
## 777   0   0   0   0   0   0   0   0   0   0   0   0   0
## 778   0   0   0   0   0   0   0   0   0   0   0   0   0
## 779   0   0   0   0   0   0   0   0   0   0   0   0   0
## 780   0   0   0   0   0   0   0   0   0   0   0   0   0
## 781   0   0   0   0   0   0   0   0   0   0   0   0   0
## 782   0   0   0   0   0   0   0   0   0   0   0   0   0
## 783   0   0   0   0   0   0   0   0   0   0   0   0   0
## 784   0   0   0   0   0   0   0   0   0   0   0   0   0
## 785   0   0   0   0   0   0   0   0   0   0   0   0   0
## 786   0   0   0   0   0   0   0   0   0   0   0   0   0
## 787   0   0   0   0   0   0   0   0   0   0   0   0   0
## 788   0   0   0   0   0   0   0   0   0   0   0   0   0
## 789   0   0   0   0   0   0   0   0   0   0   0   0   0
## 790   0   0   0   0   0   0   0   0   0   0   0   0   0
## 791   0   0   0   0   0   0   0   0   0   0   0   0   0
## 792   0   0   0   0   0   0   0   0   0   0   0   0   0
## 793   0   0   0   0   0   0   0   0   0   0   0   0   0
## 794   0   0   0   0   0   0   0   0   0   0   0   0   0
## 795   0   0   0   0   0   0   0   0   0   0   0   0   0
## 796   0   0   0   0   0   0   0   0   0   0   0   0   0
## 797   0   0   0   0   0   0   0   0   0   0   0   0   0
## 798   0   0   0   0   0   0   0   0   0   0   0   0   0
## 799   0   0   0   0   0   0   0   0   0   0   0   0   0
## 800   0   0   0   0   0   0   0   0   0   0   0   0   0
## 801   0   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 802    0    0    0    0    0    0    0    0    0    0    0    0    0
## 803    0    0    0    0    0    0    0    0    0    0    0    0    0
## 804    0    0    0    0    0    0    0    0    0    0    0    0    0
## 805    0    0    0    0    0    0    0    0    0    0    0    0    0
## 806    0    0    0    0    0    0    0    0    0    0    0    0    0
## 807    0    0    0    0    0    0    0    0    0    0    0    0    0
## 808    0    0    0    0    0    0    0    0    0    0    0    0    0
## 809    0    0    0    0    0    0    0    0    0    0    0    0    0
## 810    0    0    0    0    0    0    0    0    0    0    0    0    0
## 811    0    0    0    0    0    0    0    0    0    0    0    0    0
## 812    0    0    0    0    0    0    0    0    0    0    0    0    0
## 813    0    0    0    0    0    0    0    0    0    0    0    0    0
## 814    0    0    0    0    0    0    0    0    0    0    0    0    0
## 815    0    0    0    0    0    0    0    0    0    0    0    0    0
## 816    0    0    0    0    0    0    0    0    0    0    0    0    0
## 817    0    0    0    0    0    0    0    0    0    0    0    0    0
## 818    0    0    0    0    0    0    0    0    0    0    0    0    0
## 819    0    0    0    0    0    0    0    0    0    0    0    0    0
## 820    0    0    0    0    0    0    0    0    0    0    0    0    0
## 821    0    0    0    0    0    0    0    0    0    0    0    0    0
## 822    0    0    0    0    0    0    0    0    0    0    0    0    0
## 823    0    0    0    0    0    0    0    0    0    0    0    0    0
## 824    0    0    0    0    0    0    0    0    0    0    0    0    0
## 825    0    0    0    0    0    0    0    0    0    0    0    0    0
## 826    0    0    0    0    0    0    0    0    0    0    0    0    0
## 827    0    0    0    0    0    0    0    0    0    0    0    0    0
## 828    0    0    0    0    0    0    0    0    0    0    0    0    0
## 829    0    0    0    0    0    0    0    0    0    0    0    0    0
## 830    0    0    0    0    0    0    0    0    0    0    0    0    0
## 831    0    0    0    0    0    0    0    0    0    0    0    0    0
## 832    0    0    0    0    0    0    0    0    0    0    0    0    0
## 833    0    0    0    0    0    0    0    0    0    0    0    0    0
## 834    0    0    0    0    0    0    0    0    0    0    0    0    0
## 835    0    0    0    0    0    0    0    0    0    0    0    0    0
## 836    0    0    0    0    0    0    0    0    0    0    0    0    0
## 837    0    0    0    0    0    0    0    0    0    0    0    0    0
## 838    0    0    0    0    0    0    0    0    0    0    0    0    0
## 839    0    0    0    0    0    0    0    0    0    0    0    0    0
## 840    0    0    0    0    0    0    0    0    0    0    0    0    0
## 841    0    0    0    0    0    0    0    0    0    0    0    0    0
## 842    0    0    0    0    0    0    0    0    0    0    0    0    0
## 843    0    0    0    0    0    0    0    0    0    0    0    0    0
## 844    0    0    0    0    0    0    0    0    0    0    0    0    0
## 845    0    0    0    0    0    0    0    0    0    0    0    0    0
## 846    0    0    0    0    0    0    0    0    0    0    0    0    0
## 847    0    0    0    0    0    0    0    0    0    0    0    0    0
## 848    0    0    0    0    0    0    0    0    0    0    0    0    0
## 849    0    0    0    0    0    0    0    0    0    0    0    0    0
## 850    0    0    0    0    0    0    0    0    0    0    0    0    0
## 851    0    0    0    0    0    0    0    0    0    0    0    0    0
## 852    0    0    0    0    0    0    0    0    0    0    0    0    0
## 853    0    0    0    0    0    0    0    0    0    0    0    0    0
## 854    0    0    0    0    0    0    0    0    0    0    0    0    0
## 855    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 856      0    0    0    0    0    0    0    0    0    0    0    0    0
## 857      0    0    0    0    0    0    0    0    0    0    0    0    0
## 858      0    0    0    0    0    0    0    0    0    0    0    0    0
## 859      0    0    0    0    0    0    0    0    0    0    0    0    0
## 860      0    0    0    0    0    0    0    0    0    0    0    0    0
## 861      0    0    0    0    0    0    0    0    0    0    0    0    0
## 862      0    0    0    0    0    0    0    0    0    0    0    0    0
## 863      0    0    0    0    0    0    0    0    0    0    0    0    0
## 864      0    0    0    0    0    0    0    0    0    0    0    0    0
## 865      0    0    0    0    0    0    0    0    0    0    0    0    0
## 866      0    0    0    0    0    0    0    0    0    0    0    0    0
## 867      0    0    0    0    0    0    0    0    0    0    0    0    0
## 868      0    0    0    0    0    0    0    0    0    0    0    0    0
## 869      0    0    0    0    0    0    0    0    0    0    0    0    0
## 870      0    0    0    0    0    0    0    0    0    0    0    0    0
## 871      0    0    0    0    0    0    0    0    0    0    0    0    0
## 872      0    0    0    0    0    0    0    0    0    0    0    0    0
## 873      0    0    0    0    0    0    0    0    0    0    0    0    0
## 874      0    0    0    0    0    0    0    0    0    0    0    0    0
## 875      0    0    0    0    0    0    0    0    0    0    0    0    0
## 876      0    0    0    0    0    0    0    0    0    0    0    0    0
## 877      0    0    0    0    0    0    0    0    0    0    0    0    0
## 878      0    0    0    0    0    0    0    0    0    0    0    0    0
## 879      0    0    0    0    0    0    0    0    0    0    0    0    0
## 880      0    0    0    0    0    0    0    0    0    0    0    0    0
## 881      0    0    0    0    0    0    0    0    0    0    0    0    0
## 882      0    0    0    0    0    0    0    0    0    0    0    0    0
## 883      0    0    0    0    0    0    0    0    0    0    0    0    0
## 884      0    0    0    0    0    0    0    0    0    0    0    0    0
## 885      0    0    0    0    0    0    0    0    0    0    0    0    0
## 886      0    0    0    0    0    0    0    0    0    0    0    0    0
## 887      0    0    0    0    0    0    0    0    0    0    0    0    0
## 888      0    0    0    0    0    0    0    0    0    0    0    0    0
## 889      0    0    0    0    0    0    0    0    0    0    0    0    0
## 890      0    0    0    0    0    0    0    0    0    0    0    0    0
## 891      0    0    0    0    0    0    0    0    0    0    0    0    0
## 892      0    0    0    0    0    0    0    0    0    0    0    0    0
## 893      0    0    0    0    0    0    0    0    0    0    0    0    0
## 894      0    0    0    0    0    0    0    0    0    0    0    0    0
## 895      0    0    0    0    0    0    0    0    0    0    0    0    0
## 896      0    0    0    0    0    0    0    0    0    0    0    0    0
## 897      0    0    0    0    0    0    0    0    0    0    0    0    0
## 898      0    0    0    0    0    0    0    0    0    0    0    0    0
## 899      0    0    0    0    0    0    0    0    0    0    0    0    0
## 900      0    0    0    0    0    0    0    0    0    0    0    0    0
## 901      0    0    0    0    0    0    0    0    0    0    0    0    0
## 902      0    0    0    0    0    0    0    0    0    0    0    0    0
## 903      0    0    0    0    0    0    0    0    0    0    0    0    0
## 904      0    0    0    0    0    0    0    0    0    0    0    0    0
## 905      0    0    0    0    0    0    0    0    0    0    0    0    0
## 906      0    0    0    0    0    0    0    0    0    0    0    0    0
## 907      0    0    0    0    0    0    0    0    0    0    0    0    0
## 908      0    0    0    0    0    0    0    0    0    0    0    0    0
## 909      0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 910     0    0    0    0    0    0    0    0    0    0    0    0    0
## 911     0    0    0    0    0    0    0    0    0    0    0    0    0
## 912     0    0    0    0    0    0    0    0    0    0    0    0    0
## 913     0    0    0    0    0    0    0    0    0    0    0    0    0
## 914     0    0    0    0    0    0    0    0    0    0    0    0    0
## 915     0    0    0    0    0    0    0    0    0    0    0    0    0
## 916     0    0    0    0    0    0    0    0    0    0    0    0    0
## 917     0    0    0    0    0    0    0    0    0    0    0    0    0
## 918     0    0    0    0    0    0    0    0    0    0    0    0    0
## 919     0    0    0    0    0    0    0    0    0    0    0    0    0
## 920     0    0    0    0    0    0    0    0    0    0    0    0    0
## 921     0    0    0    0    0    0    0    0    0    0    0    0    0
## 922     0    0    0    0    0    0    0    0    0    0    0    0    0
## 923     0    0    0    0    0    0    0    0    0    0    0    0    0
## 924     0    0    0    0    0    0    0    0    0    0    0    0    0
## 925     0    0    0    0    0    0    0    0    0    0    0    0    0
## 926     0    0    0    0    0    0    0    0    0    0    0    0    0
## 927     0    0    0    0    0    0    0    0    0    0    0    0    0
## 928     0    0    0    0    0    0    0    0    0    0    0    0    0
## 929     0    0    0    0    0    0    0    0    0    0    0    0    0
## 930     0    0    0    0    0    0    0    0    0    0    0    0    0
## 931     0    0    0    0    0    0    0    0    0    0    0    0    0
## 932     0    0    0    0    0    0    0    0    0    0    0    0    0
## 933     0    0    0    0    0    0    0    0    0    0    0    0    0
## 934     0    0    0    0    0    0    0    0    0    0    0    0    0
## 935     0    0    0    0    0    0    0    0    0    0    0    0    0
## 936     0    0    0    0    0    0    0    0    0    0    0    0    0
## 937     0    0    0    0    0    0    0    0    0    0    0    0    0
## 938     0    0    0    0    0    0    0    0    0    0    0    0    0
## 939     0    0    0    0    0    0    0    0    0    0    0    0    0
## 940     0    0    0    0    0    0    0    0    0    0    0    0    0
## 941     0    0    0    0    0    0    0    0    0    0    0    0    0
## 942     0    0    0    0    0    0    0    0    0    0    0    0    0
## 943     0    0    0    0    0    0    0    0    0    0    0    0    0
## 944     0    0    0    0    0    0    0    0    0    0    0    0    0
## 945     0    0    0    0    0    0    0    0    0    0    0    0    0
## 946     0    0    0    0    0    0    0    0    0    0    0    0    0
## 947     0    0    0    0    0    0    0    0    0    0    0    0    0
## 948     0    0    0    0    0    0    0    0    0    0    0    0    0
## 949     0    0    0    0    0    0    0    0    0    0    0    0    0
## 950     0    0    0    0    0    0    0    0    0    0    0    0    0
## 951     0    0    0    0    0    0    0    0    0    0    0    0    0
## 952     0    0    0    0    0    0    0    0    0    0    0    0    0
## 953     0    0    0    0    0    0    0    0    0    0    0    0    0
## 954     0    0    0    0    0    0    0    0    0    0    0    0    0
## 955     0    0    0    0    0    0    0    0    0    0    0    0    0
## 956     0    0    0    0    0    0    0    0    0    0    0    0    0
## 957     0    0    0    0    0    0    0    0    0    0    0    0    0
## 958     0    0    0    0    0    0    0    0    0    0    0    0    0
## 959     0    0    0    0    0    0    0    0    0    0    0    0    0
## 960     0    0    0    0    0    0    0    0    0    0    0    0    0
## 961     0    0    0    0    0    0    0    0    0    0    0    0    0
## 962     0    0    0    0    0    0    0    0    0    0    0    0    0
## 963     0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 964      0   0   0   0   0   0   0   0   0   0   0   0   0
## 965      0   0   0   0   0   0   0   0   0   0   0   0   0
## 966      0   0   0   0   0   0   0   0   0   0   0   0   0
## 967      0   0   0   0   0   0   0   0   0   0   0   0   0
## 968      0   0   0   0   0   0   0   0   0   0   0   0   0
## 969      0   0   0   0   0   0   0   0   0   0   0   0   0
## 970      0   0   0   0   0   0   0   0   0   0   0   0   0
## 971      0   0   0   0   0   0   0   0   0   0   0   0   0
## 972      0   0   0   0   0   0   0   0   0   0   0   0   0
## 973      0   0   0   0   0   0   0   0   0   0   0   0   0
## 974      0   0   0   0   0   0   0   0   0   0   0   0   0
## 975      0   0   0   0   0   0   0   0   0   0   0   0   0
## 976      0   0   0   0   0   0   0   0   0   0   0   0   0
## 977      0   0   0   0   0   0   0   0   0   0   0   0   0
## 978      0   0   0   0   0   0   0   0   0   0   0   0   0
## 979      0   0   0   0   0   0   0   0   0   0   0   0   0
## 980      0   0   0   0   0   0   0   0   0   0   0   0   0
## 981      0   0   0   0   0   0   0   0   0   0   0   0   0
## 982      0   0   0   0   0   0   0   0   0   0   0   0   0
## 983      0   0   0   0   0   0   0   0   0   0   0   0   0
## 984      0   0   0   0   0   0   0   0   0   0   0   0   0
## 985      0   0   0   0   0   0   0   0   0   0   0   0   0
## 986      0   0   0   0   0   0   0   0   0   0   0   0   0
## 987      0   0   0   0   0   0   0   0   0   0   0   0   0
## 988      0   0   0   0   0   0   0   0   0   0   0   0   0
## 989      0   0   0   0   0   0   0   0   0   0   0   0   0
## 990      0   0   0   0   0   0   0   0   0   0   0   0   0
## 991      0   0   0   0   0   0   0   0   0   0   0   0   0
## 992      0   0   0   0   0   0   0   0   0   0   0   0   0
## 993      0   0   0   0   0   0   0   0   0   0   0   0   0
## 994      0   0   0   0   0   0   0   0   0   0   0   0   0
## 995      0   0   0   0   0   0   0   0   0   0   0   0   0
## 996      0   0   0   0   0   0   0   0   0   0   0   0   0
## 997      0   0   0   0   0   0   0   0   0   0   0   0   0
## 998      0   0   0   0   0   0   0   0   0   0   0   0   0
## 999      0   0   0   0   0   0   0   0   0   0   0   0   0
## 1000     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1001     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1002     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1003     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1004     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1005     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1006     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1007     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1008     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1009     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1010     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1011     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1012     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1013     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1014     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1015     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1016     0   0   0   0   0   0   0   0   0   0   0   0   0
## 1017     0   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 1018      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1019      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1020      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1021      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1022      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1023      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1024      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1025      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1026      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1027      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1028      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1029      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1030      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1031      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1032      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1033      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1034      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1035      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1036      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1037      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1038      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1039      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1040      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1041      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1042      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1043      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1044      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1045      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1046      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1047      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1048      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1049      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1050      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1051      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1052      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1053      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1054      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1055      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1056      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1057      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1058      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1059      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1060      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1061      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1062      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1063      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1064      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1065      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1066      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1067      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1068      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1069      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1070      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1071      0      0      0      0      0      0      0      0      0      0      0      0      0
```

##	1072	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1073	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1074	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1075	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1076	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1077	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1078	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1079	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1080	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1081	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1082	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1083	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1084	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1085	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1086	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1087	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1088	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1089	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1090	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1091	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1092	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1093	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1094	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1095	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1096	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1097	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1098	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1099	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1100	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1101	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1102	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1103	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1104	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1105	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1106	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1107	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1108	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1109	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1110	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1111	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1112	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1113	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1114	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1115	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1116	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1117	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1118	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1119	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1120	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1121	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1122	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1123	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1124	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1125	0	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1126      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1127      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1128      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1129      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1130      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1131      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1132      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1133      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1134      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1135      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1136      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1137      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1138      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1139      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1140      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1141      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1142      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1143      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1144      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1145      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1146      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1147      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1148      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1149      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1150      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1151      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1152      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1153      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1154      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1155      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1156      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1157      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1158      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1159      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1160      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1161      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1162      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1163      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1164      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1165      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1166      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1167      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1168      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1169      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1170      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1171      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1172      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1173      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1174      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1175      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1176      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1177      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1178      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1179      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 1180      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1181      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1182      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1183      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1184      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1185      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1186      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1187      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1188      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1189      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1190      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1191      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1192      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1193      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1194      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1195      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1196      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1197      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1198      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1199      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1200      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1201      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1202      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1203      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1204      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1205      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1206      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1207      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1208      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1209      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1210      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1211      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1212      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1213      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1214      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1215      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1216      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1217      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1218      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1219      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1220      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1221      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1222      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1223      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1224      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1225      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1226      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1227      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1228      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1229      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1230      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1231      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1232      0      0      0      0      0      0      0      0      0      0      0      0      0
## 1233      0      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 1234       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1235       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1236       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1237       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1238       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1239       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1240       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1241       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1242       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1243       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1244       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1245       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1246       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1247       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1248       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1249       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1250       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1251       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1252       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1253       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1254       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1255       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1256       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1257       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1258       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1259       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1260       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1261       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1262       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1263       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1264       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1265       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1266       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1267       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1268       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1269       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1270       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1271       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1272       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1273       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1274       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1275       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1276       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1277       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1278       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1279       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1280       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1281       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1282       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1283       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1284       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1285       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1286       0    0    0    0    0    0    0    0    0    0    0    0    0
## 1287       0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1288    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1289    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1290    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1291    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1292    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1293    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1294    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1295    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1296    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1297    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1298    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1299    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1300    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1301    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1302    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1303    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1304    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1305    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1306    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1307    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1308    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1309    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1310    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1311    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1312    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1313    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1314    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1315    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1316    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1317    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1318    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1319    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1320    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1321    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1322    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1323    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1324    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1325    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1326    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1327    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1328    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1329    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1330    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1331    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1332    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1333    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1334    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1335    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1336    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1337    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1338    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1339    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1340    0    0    0    0    0    0    0    0    0    0    0    0    0
## 1341    0    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1342   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1343   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1344   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1345   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1346   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1347   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1348   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1349   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1350   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1351   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1352   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1353   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1354   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1355   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1356   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1357   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1358   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1359   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1360   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1361   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1362   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1363   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1364   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1365   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1366   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1367   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1368   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1369   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1370   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1371   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1372   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1373   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1374   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1375   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1376   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1377   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1378   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1379   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1380   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1381   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1382   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1383   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1384   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1385   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1386   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1387   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1388   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1389   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1390   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1391   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1392   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1393   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1394   0   0   0   0   0   0   0   0   0   0   0   0   0
## 1395   0   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 1396     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1397     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1398     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1399     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1400     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1401     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1402     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1403     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1404     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1405     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1406     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1407     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1408     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1409     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1410     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1411     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1412     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1413     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1414     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1415     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1416     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1417     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1418     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1419     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1420     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1421     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1422     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1423     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1424     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1425     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1426     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1427     0     0     0     0     0     0     0     0     0     0     0     0     0
## 1428     0     0     0     0     0     0     0     0     0     0     0     0     0
##       [,14] [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25]
##     1     0     0     0     0     0     0     0     0     0     0     0     0
##     2     0     0     0     0     0     0     0     0     0     0     0     0
##     3     0     0     0     0     0     0     0     0     0     0     0     0
##     4     0     0     0     0     0     0     0     0     0     0     0     0
##     5     0     0     0     0     0     0     0     0     0     0     0     0
##     6     0     0     0     0     0     0     0     0     0     0     0     0
##     7     0     0     0     0     0     0     0     0     0     0     0     0
##     8     0     0     0     0     0     0     0     0     0     0     0     0
##     9     0     0     0     0     0     0     0     0     0     0     0     0
##    10     0     0     0     0     0     0     0     0     0     0     0     0
##    11     0     0     0     0     0     0     0     0     0     0     0     0
##    12     0     0     0     0     0     0     0     0     0     0     0     0
##    13     0     0     0     0     0     0     0     0     0     0     0     0
##    14     0     0     0     0     0     0     0     0     0     0     0     0
##    15     0     0     0     0     0     0     0     0     0     0     0     0
##    16     0     0     0     0     0     0     0     0     0     0     0     0
##    17     0     0     0     0     0     0     0     0     0     0     0     0
##    18     0     0     0     0     0     0     0     0     0     0     0     0
##    19     0     0     0     0     0     0     0     0     0     0     0     0
##    20     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 21      0     0     0     0     0     0     0     0     0     0     0     0
## 22      0     0     0     0     0     0     0     0     0     0     0     0
## 23      0     0     0     0     0     0     0     0     0     0     0     0
## 24      0     0     0     0     0     0     0     0     0     0     0     0
## 25      0     0     0     0     0     0     0     0     0     0     0     0
## 26      0     0     0     0     0     0     0     0     0     0     0     0
## 27      0     0     0     0     0     0     0     0     0     0     0     0
## 28      0     0     0     0     0     0     0     0     0     0     0     0
## 29      0     0     0     0     0     0     0     0     0     0     0     0
## 30      0     0     0     0     0     0     0     0     0     0     0     0
## 31      0     0     0     0     0     0     0     0     0     0     0     0
## 32      0     0     0     0     0     0     0     0     0     0     0     0
## 33      0     0     0     0     0     0     0     0     0     0     0     0
## 34      0     0     0     0     0     0     0     0     0     0     0     0
## 35      0     0     0     0     0     0     0     0     0     0     0     0
## 36      0     0     0     0     0     0     0     0     0     0     0     0
## 37      0     0     0     0     0     0     0     0     0     0     0     0
## 38      0     0     0     0     0     0     0     0     0     0     0     0
## 39      0     0     0     0     0     0     0     0     0     0     0     0
## 40      0     0     0     0     0     0     0     0     0     0     0     0
## 41      0     0     0     0     0     0     0     0     0     0     0     0
## 42      0     0     0     0     0     0     0     0     0     0     0     0
## 43      0     0     0     0     0     0     0     0     0     0     0     0
## 44      0     0     0     0     0     0     0     0     0     0     0     0
## 45      0     0     0     0     0     0     0     0     0     0     0     0
## 46      0     0     0     0     0     0     0     0     0     0     0     0
## 47      0     0     0     0     0     0     0     0     0     0     0     0
## 48      0     0     0     0     0     0     0     0     0     0     0     0
## 49      0     0     0     0     0     0     0     0     0     0     0     0
## 50      0     0     0     0     0     0     0     0     0     0     0     0
## 51      0     0     0     0     0     0     0     0     0     0     0     0
## 52      0     0     0     0     0     0     0     0     0     0     0     0
## 53      0     0     0     0     0     0     0     0     0     0     0     0
## 54      0     0     0     0     0     0     0     0     0     0     0     0
## 55      0     0     0     0     0     0     0     0     0     0     0     0
## 56      0     0     0     0     0     0     0     0     0     0     0     0
## 57      0     0     0     0     0     0     0     0     0     0     0     0
## 58      0     0     0     0     0     0     0     0     0     0     0     0
## 59      0     0     0     0     0     0     0     0     0     0     0     0
## 60      0     0     0     0     0     0     0     0     0     0     0     0
## 61      0     0     0     0     0     0     0     0     0     0     0     0
## 62      0     0     0     0     0     0     0     0     0     0     0     0
## 63      0     0     0     0     0     0     0     0     0     0     0     0
## 64      0     0     0     0     0     0     0     0     0     0     0     0
## 65      0     0     0     0     0     0     0     0     0     0     0     0
## 66      0     0     0     0     0     0     0     0     0     0     0     0
## 67      0     0     0     0     0     0     0     0     0     0     0     0
## 68      0     0     0     0     0     0     0     0     0     0     0     0
## 69      0     0     0     0     0     0     0     0     0     0     0     0
## 70      0     0     0     0     0     0     0     0     0     0     0     0
## 71      0     0     0     0     0     0     0     0     0     0     0     0
## 72      0     0     0     0     0     0     0     0     0     0     0     0
## 73      0     0     0     0     0     0     0     0     0     0     0     0
## 74      0     0     0     0     0     0     0     0     0     0     0     0
```

```
##     75     0     0     0     0     0     0     0     0     0     0     0     0
##     76     0     0     0     0     0     0     0     0     0     0     0     0
##     77     0     0     0     0     0     0     0     0     0     0     0     0
##     78     0     0     0     0     0     0     0     0     0     0     0     0
##     79     0     0     0     0     0     0     0     0     0     0     0     0
##     80     0     0     0     0     0     0     0     0     0     0     0     0
##     81     0     0     0     0     0     0     0     0     0     0     0     0
##     82     0     0     0     0     0     0     0     0     0     0     0     0
##     83     0     0     0     0     0     0     0     0     0     0     0     0
##     84     0     0     0     0     0     0     0     0     0     0     0     0
##     85     0     0     0     0     0     0     0     0     0     0     0     0
##     86     0     0     0     0     0     0     0     0     0     0     0     0
##     87     0     0     0     0     0     0     0     0     0     0     0     0
##     88     0     0     0     0     0     0     0     0     0     0     0     0
##     89     0     0     0     0     0     0     0     0     0     0     0     0
##     90     0     0     0     0     0     0     0     0     0     0     0     0
##     91     0     0     0     0     0     0     0     0     0     0     0     0
##     92     0     0     0     0     0     0     0     0     0     0     0     0
##     93     0     0     0     0     0     0     0     0     0     0     0     0
##     94     0     0     0     0     0     0     0     0     0     0     0     0
##     95     0     0     0     0     0     0     0     0     0     0     0     0
##     96     0     0     0     0     0     0     0     0     0     0     0     0
##     97     0     0     0     0     0     0     0     0     0     0     0     0
##     98     0     0     0     0     0     0     0     0     0     0     0     0
##     99     0     0     0     0     0     0     0     0     0     0     0     0
##    100     0     0     0     0     0     0     0     0     0     0     0     0
##    101     0     0     0     0     0     0     0     0     0     0     0     0
##    102     0     0     0     0     0     0     0     0     0     0     0     0
##    103     0     0     0     0     0     0     0     0     0     0     0     0
##    104     0     0     0     0     0     0     0     0     0     0     0     0
##    105     0     0     0     0     0     0     0     0     0     0     0     0
##    106     0     0     0     0     0     0     0     0     0     0     0     0
##    107     0     0     0     0     0     0     0     0     0     0     0     0
##    108     0     0     0     0     0     0     0     0     0     0     0     0
##    109     0     0     0     0     0     0     0     0     0     0     0     0
##    110     0     0     0     0     0     0     0     0     0     0     0     0
##    111     0     0     0     0     0     0     0     0     0     0     0     0
##    112     0     0     0     0     0     0     0     0     0     0     0     0
##    113     0     0     0     0     0     0     0     0     0     0     0     0
##    114     0     0     0     0     0     0     0     0     0     0     0     0
##    115     0     0     0     0     0     0     0     0     0     0     0     0
##    116     0     0     0     0     0     0     0     0     0     0     0     0
##    117     0     0     0     0     0     0     0     0     0     0     0     0
##    118     0     0     0     0     0     0     0     0     0     0     0     0
##    119     0     0     0     0     0     0     0     0     0     0     0     0
##    120     0     0     0     0     0     0     0     0     0     0     0     0
##    121     0     0     0     0     0     0     0     0     0     0     0     0
##    122     0     0     0     0     0     0     0     0     0     0     0     0
##    123     0     0     0     0     0     0     0     0     0     0     0     0
##    124     0     0     0     0     0     0     0     0     0     0     0     0
##    125     0     0     0     0     0     0     0     0     0     0     0     0
##    126     0     0     0     0     0     0     0     0     0     0     0     0
##    127     0     0     0     0     0     0     0     0     0     0     0     0
##    128     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 129    0    0    0    0    0    0    0    0    0    0    0    0
## 130    0    0    0    0    0    0    0    0    0    0    0    0
## 131    0    0    0    0    0    0    0    0    0    0    0    0
## 132    0    0    0    0    0    0    0    0    0    0    0    0
## 133    0    0    0    0    0    0    0    0    0    0    0    0
## 134    0    0    0    0    0    0    0    0    0    0    0    0
## 135    0    0    0    0    0    0    0    0    0    0    0    0
## 136    0    0    0    0    0    0    0    0    0    0    0    0
## 137    0    0    0    0    0    0    0    0    0    0    0    0
## 138    0    0    0    0    0    0    0    0    0    0    0    0
## 139    0    0    0    0    0    0    0    0    0    0    0    0
## 140    0    0    0    0    0    0    0    0    0    0    0    0
## 141    0    0    0    0    0    0    0    0    0    0    0    0
## 142    0    0    0    0    0    0    0    0    0    0    0    0
## 143    0    0    0    0    0    0    0    0    0    0    0    0
## 144    0    0    0    0    0    0    0    0    0    0    0    0
## 145    0    0    0    0    0    0    0    0    0    0    0    0
## 146    0    0    0    0    0    0    0    0    0    0    0    0
## 147    0    0    0    0    0    0    0    0    0    0    0    0
## 148    0    0    0    0    0    0    0    0    0    0    0    0
## 149    0    0    0    0    0    0    0    0    0    0    0    0
## 150    0    0    0    0    0    0    0    0    0    0    0    0
## 151    0    0    0    0    0    0    0    0    0    0    0    0
## 152    0    0    0    0    0    0    0    0    0    0    0    0
## 153    0    0    0    0    0    0    0    0    0    0    0    0
## 154    0    0    0    0    0    0    0    0    0    0    0    0
## 155    0    0    0    0    0    0    0    0    0    0    0    0
## 156    0    0    0    0    0    0    0    0    0    0    0    0
## 157    0    0    0    0    0    0    0    0    0    0    0    0
## 158    0    0    0    0    0    0    0    0    0    0    0    0
## 159    0    0    0    0    0    0    0    0    0    0    0    0
## 160    0    0    0    0    0    0    0    0    0    0    0    0
## 161    0    0    0    0    0    0    0    0    0    0    0    0
## 162    0    0    0    0    0    0    0    0    0    0    0    0
## 163    0    0    0    0    0    0    0    0    0    0    0    0
## 164    0    0    0    0    0    0    0    0    0    0    0    0
## 165    0    0    0    0    0    0    0    0    0    0    0    0
## 166    0    0    0    0    0    0    0    0    0    0    0    0
## 167    0    0    0    0    0    0    0    0    0    0    0    0
## 168    0    0    0    0    0    0    0    0    0    0    0    0
## 169    0    0    0    0    0    0    0    0    0    0    0    0
## 170    0    0    0    0    0    0    0    0    0    0    0    0
## 171    0    0    0    0    0    0    0    0    0    0    0    0
## 172    0    0    0    0    0    0    0    0    0    0    0    0
## 173    0    0    0    0    0    0    0    0    0    0    0    0
## 174    0    0    0    0    0    0    0    0    0    0    0    0
## 175    0    0    0    0    0    0    0    0    0    0    0    0
## 176    0    0    0    0    0    0    0    0    0    0    0    0
## 177    0    0    0    0    0    0    0    0    0    0    0    0
## 178    0    0    0    0    0    0    0    0    0    0    0    0
## 179    0    0    0    0    0    0    0    0    0    0    0    0
## 180    0    0    0    0    0    0    0    0    0    0    0    0
## 181    0    0    0    0    0    0    0    0    0    0    0    0
## 182    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 183        0        0        0        0        0        0        0        0        0        0        0        0
## 184        0        0        0        0        0        0        0        0        0        0        0        0
## 185        0        0        0        0        0        0        0        0        0        0        0        0
## 186        0        0        0        0        0        0        0        0        0        0        0        0
## 187        0        0        0        0        0        0        0        0        0        0        0        0
## 188        0        0        0        0        0        0        0        0        0        0        0        0
## 189        0        0        0        0        0        0        0        0        0        0        0        0
## 190        0        0        0        0        0        0        0        0        0        0        0        0
## 191        0        0        0        0        0        0        0        0        0        0        0        0
## 192        0        0        0        0        0        0        0        0        0        0        0        0
## 193        0        0        0        0        0        0        0        0        0        0        0        0
## 194        0        0        0        0        0        0        0        0        0        0        0        0
## 195        0        0        0        0        0        0        0        0        0        0        0        0
## 196        0        0        0        0        0        0        0        0        0        0        0        0
## 197        0        0        0        0        0        0        0        0        0        0        0        0
## 198        0        0        0        0        0        0        0        0        0        0        0        0
## 199        0        0        0        0        0        0        0        0        0        0        0        0
## 200        0        0        0        0        0        0        0        0        0        0        0        0
## 201        0        0        0        0        0        0        0        0        0        0        0        0
## 202        0        0        0        0        0        0        0        0        0        0        0        0
## 203        0        0        0        0        0        0        0        0        0        0        0        0
## 204        0        0        0        0        0        0        0        0        0        0        0        0
## 205        0        0        0        0        0        0        0        0        0        0        0        0
## 206        0        0        0        0        0        0        0        0        0        0        0        0
## 207        0        0        0        0        0        0        0        0        0        0        0        0
## 208        0        0        0        0        0        0        0        0        0        0        0        0
## 209        0        0        0        0        0        0        0        0        0        0        0        0
## 210        0        0        0        0        0        0        0        0        0        0        0        0
## 211        0        0        0        0        0        0        0        0        0        0        0        0
## 212        0        0        0        0        0        0        0        0        0        0        0        0
## 213        0        0        0        0        0        0        0        0        0        0        0        0
## 214        0        0        0        0        0        0        0        0        0        0        0        0
## 215        0        0        0        0        0        0        0        0        0        0        0        0
## 216        0        0        0        0        0        0        0        0        0        0        0        0
## 217        0        0        0        0        0        0        0        0        0        0        0        0
## 218        0        0        0        0        0        0        0        0        0        0        0        0
## 219        0        0        0        0        0        0        0        0        0        0        0        0
## 220        0        0        0        0        0        0        0        0        0        0        0        0
## 221        0        0        0        0        0        0        0        0        0        0        0        0
## 222        0        0        0        0        0        0        0        0        0        0        0        0
## 223        0        0        0        0        0        0        0        0        0        0        0        0
## 224        0        0        0        0        0        0        0        0        0        0        0        0
## 225        0        0        0        0        0        0        0        0        0        0        0        0
## 226        0        0        0        0        0        0        0        0        0        0        0        0
## 227        0        0        0        0        0        0        0        0        0        0        0        0
## 228        0        0        0        0        0        0        0        0        0        0        0        0
## 229        0        0        0        0        0        0        0        0        0        0        0        0
## 230        0        0        0        0        0        0        0        0        0        0        0        0
## 231        0        0        0        0        0        0        0        0        0        0        0        0
## 232        0        0        0        0        0        0        0        0        0        0        0        0
## 233        0        0        0        0        0        0        0        0        0        0        0        0
## 234        0        0        0        0        0        0        0        0        0        0        0        0
## 235        0        0        0        0        0        0        0        0        0        0        0        0
## 236        0        0        0        0        0        0        0        0        0        0        0        0
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## 237    0    0    0    0    0    0    0    0    0    0    0    0
## 238    0    0    0    0    0    0    0    0    0    0    0    0
## 239    0    0    0    0    0    0    0    0    0    0    0    0
## 240    0    0    0    0    0    0    0    0    0    0    0    0
## 241    0    0    0    0    0    0    0    0    0    0    0    0
## 242    0    0    0    0    0    0    0    0    0    0    0    0
## 243    0    0    0    0    0    0    0    0    0    0    0    0
## 244    0    0    0    0    0    0    0    0    0    0    0    0
## 245    0    0    0    0    0    0    0    0    0    0    0    0
## 246    0    0    0    0    0    0    0    0    0    0    0    0
## 247    0    0    0    0    0    0    0    0    0    0    0    0
## 248    0    0    0    0    0    0    0    0    0    0    0    0
## 249    0    0    0    0    0    0    0    0    0    0    0    0
## 250    0    0    0    0    0    0    0    0    0    0    0    0
## 251    0    0    0    0    0    0    0    0    0    0    0    0
## 252    0    0    0    0    0    0    0    0    0    0    0    0
## 253    0    0    0    0    0    0    0    0    0    0    0    0
## 254    0    0    0    0    0    0    0    0    0    0    0    0
## 255    0    0    0    0    0    0    0    0    0    0    0    0
## 256    0    0    0    0    0    0    0    0    0    0    0    0
## 257    0    0    0    0    0    0    0    0    0    0    0    0
## 258    0    0    0    0    0    0    0    0    0    0    0    0
## 259    0    0    0    0    0    0    0    0    0    0    0    0
## 260    0    0    0    0    0    0    0    0    0    0    0    0
## 261    0    0    0    0    0    0    0    0    0    0    0    0
## 262    0    0    0    0    0    0    0    0    0    0    0    0
## 263    0    0    0    0    0    0    0    0    0    0    0    0
## 264    0    0    0    0    0    0    0    0    0    0    0    0
## 265    0    0    0    0    0    0    0    0    0    0    0    0
## 266    0    0    0    0    0    0    0    0    0    0    0    0
## 267    0    0    0    0    0    0    0    0    0    0    0    0
## 268    0    0    0    0    0    0    0    0    0    0    0    0
## 269    0    0    0    0    0    0    0    0    0    0    0    0
## 270    0    0    0    0    0    0    0    0    0    0    0    0
## 271    0    0    0    0    0    0    0    0    0    0    0    0
## 272    0    0    0    0    0    0    0    0    0    0    0    0
## 273    0    0    0    0    0    0    0    0    0    0    0    0
## 274    0    0    0    0    0    0    0    0    0    0    0    0
## 275    0    0    0    0    0    0    0    0    0    0    0    0
## 276    0    0    0    0    0    0    0    0    0    0    0    0
## 277    0    0    0    0    0    0    0    0    0    0    0    0
## 278    0    0    0    0    0    0    0    0    0    0    0    0
## 279    0    0    0    0    0    0    0    0    0    0    0    0
## 280    0    0    0    0    0    0    0    0    0    0    0    0
## 281    0    0    0    0    0    0    0    0    0    0    0    0
## 282    0    0    0    0    0    0    0    0    0    0    0    0
## 283    0    0    0    0    0    0    0    0    0    0    0    0
## 284    0    0    0    0    0    0    0    0    0    0    0    0
## 285    0    0    0    0    0    0    0    0    0    0    0    0
## 286    0    0    0    0    0    0    0    0    0    0    0    0
## 287    0    0    0    0    0    0    0    0    0    0    0    0
## 288    0    0    0    0    0    0    0    0    0    0    0    0
## 289    0    0    0    0    0    0    0    0    0    0    0    0
## 290    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 291     0     0     0     0     0     0     0     0     0     0     0     0
## 292     0     0     0     0     0     0     0     0     0     0     0     0
## 293     0     0     0     0     0     0     0     0     0     0     0     0
## 294     0     0     0     0     0     0     0     0     0     0     0     0
## 295     0     0     0     0     0     0     0     0     0     0     0     0
## 296     0     0     0     0     0     0     0     0     0     0     0     0
## 297     0     0     0     0     0     0     0     0     0     0     0     0
## 298     0     0     0     0     0     0     0     0     0     0     0     0
## 299     0     0     0     0     0     0     0     0     0     0     0     0
## 300     0     0     0     0     0     0     0     0     0     0     0     0
## 301     0     0     0     0     0     0     0     0     0     0     0     0
## 302     0     0     0     0     0     0     0     0     0     0     0     0
## 303     0     0     0     0     0     0     0     0     0     0     0     0
## 304     0     0     0     0     0     0     0     0     0     0     0     0
## 305     0     0     0     0     0     0     0     0     0     0     0     0
## 306     0     0     0     0     0     0     0     0     0     0     0     0
## 307     0     0     0     0     0     0     0     0     0     0     0     0
## 308     0     0     0     0     0     0     0     0     0     0     0     0
## 309     0     0     0     0     0     0     0     0     0     0     0     0
## 310     0     0     0     0     0     0     0     0     0     0     0     0
## 311     0     0     0     0     0     0     0     0     0     0     0     0
## 312     0     0     0     0     0     0     0     0     0     0     0     0
## 313     0     0     0     0     0     0     0     0     0     0     0     0
## 314     0     0     0     0     0     0     0     0     0     0     0     0
## 315     0     0     0     0     0     0     0     0     0     0     0     0
## 316     0     0     0     0     0     0     0     0     0     0     0     0
## 317     0     0     0     0     0     0     0     0     0     0     0     0
## 318     0     0     0     0     0     0     0     0     0     0     0     0
## 319     0     0     0     0     0     0     0     0     0     0     0     0
## 320     0     0     0     0     0     0     0     0     0     0     0     0
## 321     0     0     0     0     0     0     0     0     0     0     0     0
## 322     0     0     0     0     0     0     0     0     0     0     0     0
## 323     0     0     0     0     0     0     0     0     0     0     0     0
## 324     0     0     0     0     0     0     0     0     0     0     0     0
## 325     0     0     0     0     0     0     0     0     0     0     0     0
## 326     0     0     0     0     0     0     0     0     0     0     0     0
## 327     0     0     0     0     0     0     0     0     0     0     0     0
## 328     0     0     0     0     0     0     0     0     0     0     0     0
## 329     0     0     0     0     0     0     0     0     0     0     0     0
## 330     0     0     0     0     0     0     0     0     0     0     0     0
## 331     0     0     0     0     0     0     0     0     0     0     0     0
## 332     0     0     0     0     0     0     0     0     0     0     0     0
## 333     0     0     0     0     0     0     0     0     0     0     0     0
## 334     0     0     0     0     0     0     0     0     0     0     0     0
## 335     0     0     0     0     0     0     0     0     0     0     0     0
## 336     0     0     0     0     0     0     0     0     0     0     0     0
## 337     0     0     0     0     0     0     0     0     0     0     0     0
## 338     0     0     0     0     0     0     0     0     0     0     0     0
## 339     0     0     0     0     0     0     0     0     0     0     0     0
## 340     0     0     0     0     0     0     0     0     0     0     0     0
## 341     0     0     0     0     0     0     0     0     0     0     0     0
## 342     0     0     0     0     0     0     0     0     0     0     0     0
## 343     0     0     0     0     0     0     0     0     0     0     0     0
## 344     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 345    0    0    0    0    0    0    0    0    0    0    0    0
## 346    0    0    0    0    0    0    0    0    0    0    0    0
## 347    0    0    0    0    0    0    0    0    0    0    0    0
## 348    0    0    0    0    0    0    0    0    0    0    0    0
## 349    0    0    0    0    0    0    0    0    0    0    0    0
## 350    0    0    0    0    0    0    0    0    0    0    0    0
## 351    0    0    0    0    0    0    0    0    0    0    0    0
## 352    0    0    0    0    0    0    0    0    0    0    0    0
## 353    0    0    0    0    0    0    0    0    0    0    0    0
## 354    0    0    0    0    0    0    0    0    0    0    0    0
## 355    0    0    0    0    0    0    0    0    0    0    0    0
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## 357    0    0    0    0    0    0    0    0    0    0    0    0
## 358    0    0    0    0    0    0    0    0    0    0    0    0
## 359    0    0    0    0    0    0    0    0    0    0    0    0
## 360    0    0    0    0    0    0    0    0    0    0    0    0
## 361    0    0    0    0    0    0    0    0    0    0    0    0
## 362    0    0    0    0    0    0    0    0    0    0    0    0
## 363    0    0    0    0    0    0    0    0    0    0    0    0
## 364    0    0    0    0    0    0    0    0    0    0    0    0
## 365    0    0    0    0    0    0    0    0    0    0    0    0
## 366    0    0    0    0    0    0    0    0    0    0    0    0
## 367    0    0    0    0    0    0    0    0    0    0    0    0
## 368    0    0    0    0    0    0    0    0    0    0    0    0
## 369    0    0    0    0    0    0    0    0    0    0    0    0
## 370    0    0    0    0    0    0    0    0    0    0    0    0
## 371    0    0    0    0    0    0    0    0    0    0    0    0
## 372    0    0    0    0    0    0    0    0    0    0    0    0
## 373    0    0    0    0    0    0    0    0    0    0    0    0
## 374    0    0    0    0    0    0    0    0    0    0    0    0
## 375    0    0    0    0    0    0    0    0    0    0    0    0
## 376    0    0    0    0    0    0    0    0    0    0    0    0
## 377    0    0    0    0    0    0    0    0    0    0    0    0
## 378    0    0    0    0    0    0    0    0    0    0    0    0
## 379    0    0    0    0    0    0    0    0    0    0    0    0
## 380    0    0    0    0    0    0    0    0    0    0    0    0
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## 382    0    0    0    0    0    0    0    0    0    0    0    0
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## 386    0    0    0    0    0    0    0    0    0    0    0    0
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## 388    0    0    0    0    0    0    0    0    0    0    0    0
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## 390    0    0    0    0    0    0    0    0    0    0    0    0
## 391    0    0    0    0    0    0    0    0    0    0    0    0
## 392    0    0    0    0    0    0    0    0    0    0    0    0
## 393    0    0    0    0    0    0    0    0    0    0    0    0
## 394    0    0    0    0    0    0    0    0    0    0    0    0
## 395    0    0    0    0    0    0    0    0    0    0    0    0
## 396    0    0    0    0    0    0    0    0    0    0    0    0
## 397    0    0    0    0    0    0    0    0    0    0    0    0
## 398    0    0    0    0    0    0    0    0    0    0    0    0
```

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## 399      0    0    0    0    0    0    0    0    0    0    0    0
## 400      0    0    0    0    0    0    0    0    0    0    0    0
## 401      0    0    0    0    0    0    0    0    0    0    0    0
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## 403      0    0    0    0    0    0    0    0    0    0    0    0
## 404      0    0    0    0    0    0    0    0    0    0    0    0
## 405      0    0    0    0    0    0    0    0    0    0    0    0
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## 408      0    0    0    0    0    0    0    0    0    0    0    0
## 409      0    0    0    0    0    0    0    0    0    0    0    0
## 410      0    0    0    0    0    0    0    0    0    0    0    0
## 411      0    0    0    0    0    0    0    0    0    0    0    0
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## 413      0    0    0    0    0    0    0    0    0    0    0    0
## 414      0    0    0    0    0    0    0    0    0    0    0    0
## 415      0    0    0    0    0    0    0    0    0    0    0    0
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## 417      0    0    0    0    0    0    0    0    0    0    0    0
## 418      0    0    0    0    0    0    0    0    0    0    0    0
## 419      0    0    0    0    0    0    0    0    0    0    0    0
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## 421      0    0    0    0    0    0    0    0    0    0    0    0
## 422      0    0    0    0    0    0    0    0    0    0    0    0
## 423      0    0    0    0    0    0    0    0    0    0    0    0
## 424      0    0    0    0    0    0    0    0    0    0    0    0
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## 426      0    0    0    0    0    0    0    0    0    0    0    0
## 427      0    0    0    0    0    0    0    0    0    0    0    0
## 428      0    0    0    0    0    0    0    0    0    0    0    0
## 429      0    0    0    0    0    0    0    0    0    0    0    0
## 430      0    0    0    0    0    0    0    0    0    0    0    0
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## 432      0    0    0    0    0    0    0    0    0    0    0    0
## 433      0    0    0    0    0    0    0    0    0    0    0    0
## 434      0    0    0    0    0    0    0    0    0    0    0    0
## 435      0    0    0    0    0    0    0    0    0    0    0    0
## 436      0    0    0    0    0    0    0    0    0    0    0    0
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## 438      0    0    0    0    0    0    0    0    0    0    0    0
## 439      0    0    0    0    0    0    0    0    0    0    0    0
## 440      0    0    0    0    0    0    0    0    0    0    0    0
## 441      0    0    0    0    0    0    0    0    0    0    0    0
## 442      0    0    0    0    0    0    0    0    0    0    0    0
## 443      0    0    0    0    0    0    0    0    0    0    0    0
## 444      0    0    0    0    0    0    0    0    0    0    0    0
## 445      0    0    0    0    0    0    0    0    0    0    0    0
## 446      0    0    0    0    0    0    0    0    0    0    0    0
## 447      0    0    0    0    0    0    0    0    0    0    0    0
## 448      0    0    0    0    0    0    0    0    0    0    0    0
## 449      0    0    0    0    0    0    0    0    0    0    0    0
## 450      0    0    0    0    0    0    0    0    0    0    0    0
## 451      0    0    0    0    0    0    0    0    0    0    0    0
## 452      0    0    0    0    0    0    0    0    0    0    0    0
```

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## 453    0    0    0    0    0    0    0    0    0    0    0    0
## 454    0    0    0    0    0    0    0    0    0    0    0    0
## 455    0    0    0    0    0    0    0    0    0    0    0    0
## 456    0    0    0    0    0    0    0    0    0    0    0    0
## 457    0    0    0    0    0    0    0    0    0    0    0    0
## 458    0    0    0    0    0    0    0    0    0    0    0    0
## 459    0    0    0    0    0    0    0    0    0    0    0    0
## 460    0    0    0    0    0    0    0    0    0    0    0    0
## 461    0    0    0    0    0    0    0    0    0    0    0    0
## 462    0    0    0    0    0    0    0    0    0    0    0    0
## 463    0    0    0    0    0    0    0    0    0    0    0    0
## 464    0    0    0    0    0    0    0    0    0    0    0    0
## 465    0    0    0    0    0    0    0    0    0    0    0    0
## 466    0    0    0    0    0    0    0    0    0    0    0    0
## 467    0    0    0    0    0    0    0    0    0    0    0    0
## 468    0    0    0    0    0    0    0    0    0    0    0    0
## 469    0    0    0    0    0    0    0    0    0    0    0    0
## 470    0    0    0    0    0    0    0    0    0    0    0    0
## 471    0    0    0    0    0    0    0    0    0    0    0    0
## 472    0    0    0    0    0    0    0    0    0    0    0    0
## 473    0    0    0    0    0    0    0    0    0    0    0    0
## 474    0    0    0    0    0    0    0    0    0    0    0    0
## 475    0    0    0    0    0    0    0    0    0    0    0    0
## 476    0    0    0    0    0    0    0    0    0    0    0    0
## 477    0    0    0    0    0    0    0    0    0    0    0    0
## 478    0    0    0    0    0    0    0    0    0    0    0    0
## 479    0    0    0    0    0    0    0    0    0    0    0    0
## 480    0    0    0    0    0    0    0    0    0    0    0    0
## 481    0    0    0    0    0    0    0    0    0    0    0    0
## 482    0    0    0    0    0    0    0    0    0    0    0    0
## 483    0    0    0    0    0    0    0    0    0    0    0    0
## 484    0    0    0    0    0    0    0    0    0    0    0    0
## 485    0    0    0    0    0    0    0    0    0    0    0    0
## 486    0    0    0    0    0    0    0    0    0    0    0    0
## 487    0    0    0    0    0    0    0    0    0    0    0    0
## 488    0    0    0    0    0    0    0    0    0    0    0    0
## 489    0    0    0    0    0    0    0    0    0    0    0    0
## 490    0    0    0    0    0    0    0    0    0    0    0    0
## 491    0    0    0    0    0    0    0    0    0    0    0    0
## 492    0    0    0    0    0    0    0    0    0    0    0    0
## 493    0    0    0    0    0    0    0    0    0    0    0    0
## 494    0    0    0    0    0    0    0    0    0    0    0    0
## 495    0    0    0    0    0    0    0    0    0    0    0    0
## 496    0    0    0    0    0    0    0    0    0    0    0    0
## 497    0    0    0    0    0    0    0    0    0    0    0    0
## 498    0    0    0    0    0    0    0    0    0    0    0    0
## 499    0    0    0    0    0    0    0    0    0    0    0    0
## 500    0    0    0    0    0    0    0    0    0    0    0    0
## 501    0    0    0    0    0    0    0    0    0    0    0    0
## 502    0    0    0    0    0    0    0    0    0    0    0    0
## 503    0    0    0    0    0    0    0    0    0    0    0    0
## 504    0    0    0    0    0    0    0    0    0    0    0    0
## 505    0    0    0    0    0    0    0    0    0    0    0    0
## 506    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 507      0      0      0      0      0      0      0      0      0      0      0      0
## 508      0      0      0      0      0      0      0      0      0      0      0      0
## 509      0      0      0      0      0      0      0      0      0      0      0      0
## 510      0      0      0      0      0      0      0      0      0      0      0      0
## 511      0      0      0      0      0      0      0      0      0      0      0      0
## 512      0      0      0      0      0      0      0      0      0      0      0      0
## 513      0      0      0      0      0      0      0      0      0      0      0      0
## 514      0      0      0      0      0      0      0      0      0      0      0      0
## 515      0      0      0      0      0      0      0      0      0      0      0      0
## 516      0      0      0      0      0      0      0      0      0      0      0      0
## 517      0      0      0      0      0      0      0      0      0      0      0      0
## 518      0      0      0      0      0      0      0      0      0      0      0      0
## 519      0      0      0      0      0      0      0      0      0      0      0      0
## 520      0      0      0      0      0      0      0      0      0      0      0      0
## 521      0      0      0      0      0      0      0      0      0      0      0      0
## 522      0      0      0      0      0      0      0      0      0      0      0      0
## 523      0      0      0      0      0      0      0      0      0      0      0      0
## 524      0      0      0      0      0      0      0      0      0      0      0      0
## 525      0      0      0      0      0      0      0      0      0      0      0      0
## 526      0      0      0      0      0      0      0      0      0      0      0      0
## 527      0      0      0      0      0      0      0      0      0      0      0      0
## 528      0      0      0      0      0      0      0      0      0      0      0      0
## 529      0      0      0      0      0      0      0      0      0      0      0      0
## 530      0      0      0      0      0      0      0      0      0      0      0      0
## 531      0      0      0      0      0      0      0      0      0      0      0      0
## 532      0      0      0      0      0      0      0      0      0      0      0      0
## 533      0      0      0      0      0      0      0      0      0      0      0      0
## 534      0      0      0      0      0      0      0      0      0      0      0      0
## 535      0      0      0      0      0      0      0      0      0      0      0      0
## 536      0      0      0      0      0      0      0      0      0      0      0      0
## 537      0      0      0      0      0      0      0      0      0      0      0      0
## 538      0      0      0      0      0      0      0      0      0      0      0      0
## 539      0      0      0      0      0      0      0      0      0      0      0      0
## 540      0      0      0      0      0      0      0      0      0      0      0      0
## 541      0      0      0      0      0      0      0      0      0      0      0      0
## 542      0      0      0      0      0      0      0      0      0      0      0      0
## 543      0      0      0      0      0      0      0      0      0      0      0      0
## 544      0      0      0      0      0      0      0      0      0      0      0      0
## 545      0      0      0      0      0      0      0      0      0      0      0      0
## 546      0      0      0      0      0      0      0      0      0      0      0      0
## 547      0      0      0      0      0      0      0      0      0      0      0      0
## 548      0      0      0      0      0      0      0      0      0      0      0      0
## 549      0      0      0      0      0      0      0      0      0      0      0      0
## 550      0      0      0      0      0      0      0      0      0      0      0      0
## 551      0      0      0      0      0      0      0      0      0      0      0      0
## 552      0      0      0      0      0      0      0      0      0      0      0      0
## 553      0      0      0      0      0      0      0      0      0      0      0      0
## 554      0      0      0      0      0      0      0      0      0      0      0      0
## 555      0      0      0      0      0      0      0      0      0      0      0      0
## 556      0      0      0      0      0      0      0      0      0      0      0      0
## 557      0      0      0      0      0      0      0      0      0      0      0      0
## 558      0      0      0      0      0      0      0      0      0      0      0      0
## 559      0      0      0      0      0      0      0      0      0      0      0      0
## 560      0      0      0      0      0      0      0      0      0      0      0      0
```

##	561	0	0	0	0	0	0	0	0	0	0	0	0
##	562	0	0	0	0	0	0	0	0	0	0	0	0
##	563	0	0	0	0	0	0	0	0	0	0	0	0
##	564	0	0	0	0	0	0	0	0	0	0	0	0
##	565	0	0	0	0	0	0	0	0	0	0	0	0
##	566	0	0	0	0	0	0	0	0	0	0	0	0
##	567	0	0	0	0	0	0	0	0	0	0	0	0
##	568	0	0	0	0	0	0	0	0	0	0	0	0
##	569	0	0	0	0	0	0	0	0	0	0	0	0
##	570	0	0	0	0	0	0	0	0	0	0	0	0
##	571	0	0	0	0	0	0	0	0	0	0	0	0
##	572	0	0	0	0	0	0	0	0	0	0	0	0
##	573	0	0	0	0	0	0	0	0	0	0	0	0
##	574	0	0	0	0	0	0	0	0	0	0	0	0
##	575	0	0	0	0	0	0	0	0	0	0	0	0
##	576	0	0	0	0	0	0	0	0	0	0	0	0
##	577	0	0	0	0	0	0	0	0	0	0	0	0
##	578	0	0	0	0	0	0	0	0	0	0	0	0
##	579	0	0	0	0	0	0	0	0	0	0	0	0
##	580	0	0	0	0	0	0	0	0	0	0	0	0
##	581	0	0	0	0	0	0	0	0	0	0	0	0
##	582	0	0	0	0	0	0	0	0	0	0	0	0
##	583	0	0	0	0	0	0	0	0	0	0	0	0
##	584	0	0	0	0	0	0	0	0	0	0	0	0
##	585	0	0	0	0	0	0	0	0	0	0	0	0
##	586	0	0	0	0	0	0	0	0	0	0	0	0
##	587	0	0	0	0	0	0	0	0	0	0	0	0
##	588	0	0	0	0	0	0	0	0	0	0	0	0
##	589	0	0	0	0	0	0	0	0	0	0	0	0
##	590	0	0	0	0	0	0	0	0	0	0	0	0
##	591	0	0	0	0	0	0	0	0	0	0	0	0
##	592	0	0	0	0	0	0	0	0	0	0	0	0
##	593	0	0	0	0	0	0	0	0	0	0	0	0
##	594	0	0	0	0	0	0	0	0	0	0	0	0
##	595	0	0	0	0	0	0	0	0	0	0	0	0
##	596	0	0	0	0	0	0	0	0	0	0	0	0
##	597	0	0	0	0	0	0	0	0	0	0	0	0
##	598	0	0	0	0	0	0	0	0	0	0	0	0
##	599	0	0	0	0	0	0	0	0	0	0	0	0
##	600	0	0	0	0	0	0	0	0	0	0	0	0
##	601	0	0	0	0	0	0	0	0	0	0	0	0
##	602	0	0	0	0	0	0	0	0	0	0	0	0
##	603	0	0	0	0	0	0	0	0	0	0	0	0
##	604	0	0	0	0	0	0	0	0	0	0	0	0
##	605	0	0	0	0	0	0	0	0	0	0	0	0
##	606	0	0	0	0	0	0	0	0	0	0	0	0
##	607	0	0	0	0	0	0	0	0	0	0	0	0
##	608	0	0	0	0	0	0	0	0	0	0	0	0
##	609	0	0	0	0	0	0	0	0	0	0	0	0
##	610	0	0	0	0	0	0	0	0	0	0	0	0
##	611	0	0	0	0	0	0	0	0	0	0	0	0
##	612	0	0	0	0	0	0	0	0	0	0	0	0
##	613	0	0	0	0	0	0	0	0	0	0	0	0
##	614	0	0	0	0	0	0	0	0	0	0	0	0

```
## 615   0   0   0   0   0   0   0   0   0   0   0   0
## 616   0   0   0   0   0   0   0   0   0   0   0   0
## 617   0   0   0   0   0   0   0   0   0   0   0   0
## 618   0   0   0   0   0   0   0   0   0   0   0   0
## 619   0   0   0   0   0   0   0   0   0   0   0   0
## 620   0   0   0   0   0   0   0   0   0   0   0   0
## 621   0   0   0   0   0   0   0   0   0   0   0   0
## 622   0   0   0   0   0   0   0   0   0   0   0   0
## 623   0   0   0   0   0   0   0   0   0   0   0   0
## 624   0   0   0   0   0   0   0   0   0   0   0   0
## 625   0   0   0   0   0   0   0   0   0   0   0   0
## 626   0   0   0   0   0   0   0   0   0   0   0   0
## 627   0   0   0   0   0   0   0   0   0   0   0   0
## 628   0   0   0   0   0   0   0   0   0   0   0   0
## 629   0   0   0   0   0   0   0   0   0   0   0   0
## 630   0   0   0   0   0   0   0   0   0   0   0   0
## 631   0   0   0   0   0   0   0   0   0   0   0   0
## 632   0   0   0   0   0   0   0   0   0   0   0   0
## 633   0   0   0   0   0   0   0   0   0   0   0   0
## 634   0   0   0   0   0   0   0   0   0   0   0   0
## 635   0   0   0   0   0   0   0   0   0   0   0   0
## 636   0   0   0   0   0   0   0   0   0   0   0   0
## 637   0   0   0   0   0   0   0   0   0   0   0   0
## 638   0   0   0   0   0   0   0   0   0   0   0   0
## 639   0   0   0   0   0   0   0   0   0   0   0   0
## 640   0   0   0   0   0   0   0   0   0   0   0   0
## 641   0   0   0   0   0   0   0   0   0   0   0   0
## 642   0   0   0   0   0   0   0   0   0   0   0   0
## 643   0   0   0   0   0   0   0   0   0   0   0   0
## 644   0   0   0   0   0   0   0   0   0   0   0   0
## 645   0   0   0   0   0   0   0   0   0   0   0   0
## 646   0   0   0   0   0   0   0   0   0   0   0   0
## 647   0   0   0   0   0   0   0   0   0   0   0   0
## 648   0   0   0   0   0   0   0   0   0   0   0   0
## 649   0   0   0   0   0   0   0   0   0   0   0   0
## 650   0   0   0   0   0   0   0   0   0   0   0   0
## 651   0   0   0   0   0   0   0   0   0   0   0   0
## 652   0   0   0   0   0   0   0   0   0   0   0   0
## 653   0   0   0   0   0   0   0   0   0   0   0   0
## 654   0   0   0   0   0   0   0   0   0   0   0   0
## 655   0   0   0   0   0   0   0   0   0   0   0   0
## 656   0   0   0   0   0   0   0   0   0   0   0   0
## 657   0   0   0   0   0   0   0   0   0   0   0   0
## 658   0   0   0   0   0   0   0   0   0   0   0   0
## 659   0   0   0   0   0   0   0   0   0   0   0   0
## 660   0   0   0   0   0   0   0   0   0   0   0   0
## 661   0   0   0   0   0   0   0   0   0   0   0   0
## 662   0   0   0   0   0   0   0   0   0   0   0   0
## 663   0   0   0   0   0   0   0   0   0   0   0   0
## 664   0   0   0   0   0   0   0   0   0   0   0   0
## 665   0   0   0   0   0   0   0   0   0   0   0   0
## 666   0   0   0   0   0   0   0   0   0   0   0   0
## 667   0   0   0   0   0   0   0   0   0   0   0   0
## 668   0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 669     0    0    0    0    0    0    0    0    0    0    0    0
## 670     0    0    0    0    0    0    0    0    0    0    0    0
## 671     0    0    0    0    0    0    0    0    0    0    0    0
## 672     0    0    0    0    0    0    0    0    0    0    0    0
## 673     0    0    0    0    0    0    0    0    0    0    0    0
## 674     0    0    0    0    0    0    0    0    0    0    0    0
## 675     0    0    0    0    0    0    0    0    0    0    0    0
## 676     0    0    0    0    0    0    0    0    0    0    0    0
## 677     0    0    0    0    0    0    0    0    0    0    0    0
## 678     0    0    0    0    0    0    0    0    0    0    0    0
## 679     0    0    0    0    0    0    0    0    0    0    0    0
## 680     0    0    0    0    0    0    0    0    0    0    0    0
## 681     0    0    0    0    0    0    0    0    0    0    0    0
## 682     0    0    0    0    0    0    0    0    0    0    0    0
## 683     0    0    0    0    0    0    0    0    0    0    0    0
## 684     0    0    0    0    0    0    0    0    0    0    0    0
## 685     0    0    0    0    0    0    0    0    0    0    0    0
## 686     0    0    0    0    0    0    0    0    0    0    0    0
## 687     0    0    0    0    0    0    0    0    0    0    0    0
## 688     0    0    0    0    0    0    0    0    0    0    0    0
## 689     0    0    0    0    0    0    0    0    0    0    0    0
## 690     0    0    0    0    0    0    0    0    0    0    0    0
## 691     0    0    0    0    0    0    0    0    0    0    0    0
## 692     0    0    0    0    0    0    0    0    0    0    0    0
## 693     0    0    0    0    0    0    0    0    0    0    0    0
## 694     0    0    0    0    0    0    0    0    0    0    0    0
## 695     0    0    0    0    0    0    0    0    0    0    0    0
## 696     0    0    0    0    0    0    0    0    0    0    0    0
## 697     0    0    0    0    0    0    0    0    0    0    0    0
## 698     0    0    0    0    0    0    0    0    0    0    0    0
## 699     0    0    0    0    0    0    0    0    0    0    0    0
## 700     0    0    0    0    0    0    0    0    0    0    0    0
## 701     0    0    0    0    0    0    0    0    0    0    0    0
## 702     0    0    0    0    0    0    0    0    0    0    0    0
## 703     0    0    0    0    0    0    0    0    0    0    0    0
## 704     0    0    0    0    0    0    0    0    0    0    0    0
## 705     0    0    0    0    0    0    0    0    0    0    0    0
## 706     0    0    0    0    0    0    0    0    0    0    0    0
## 707     0    0    0    0    0    0    0    0    0    0    0    0
## 708     0    0    0    0    0    0    0    0    0    0    0    0
## 709     0    0    0    0    0    0    0    0    0    0    0    0
## 710     0    0    0    0    0    0    0    0    0    0    0    0
## 711     0    0    0    0    0    0    0    0    0    0    0    0
## 712     0    0    0    0    0    0    0    0    0    0    0    0
## 713     0    0    0    0    0    0    0    0    0    0    0    0
## 714     0    0    0    0    0    0    0    0    0    0    0    0
## 715     0    0    0    0    0    0    0    0    0    0    0    0
## 716     0    0    0    0    0    0    0    0    0    0    0    0
## 717     0    0    0    0    0    0    0    0    0    0    0    0
## 718     0    0    0    0    0    0    0    0    0    0    0    0
## 719     0    0    0    0    0    0    0    0    0    0    0    0
## 720     0    0    0    0    0    0    0    0    0    0    0    0
## 721     0    0    0    0    0    0    0    0    0    0    0    0
## 722     0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 723    0    0    0    0    0    0    0    0    0    0    0    0
## 724    0    0    0    0    0    0    0    0    0    0    0    0
## 725    0    0    0    0    0    0    0    0    0    0    0    0
## 726    0    0    0    0    0    0    0    0    0    0    0    0
## 727    0    0    0    0    0    0    0    0    0    0    0    0
## 728    0    0    0    0    0    0    0    0    0    0    0    0
## 729    0    0    0    0    0    0    0    0    0    0    0    0
## 730    0    0    0    0    0    0    0    0    0    0    0    0
## 731    0    0    0    0    0    0    0    0    0    0    0    0
## 732    0    0    0    0    0    0    0    0    0    0    0    0
## 733    0    0    0    0    0    0    0    0    0    0    0    0
## 734    0    0    0    0    0    0    0    0    0    0    0    0
## 735    0    0    0    0    0    0    0    0    0    0    0    0
## 736    0    0    0    0    0    0    0    0    0    0    0    0
## 737    0    0    0    0    0    0    0    0    0    0    0    0
## 738    0    0    0    0    0    0    0    0    0    0    0    0
## 739    0    0    0    0    0    0    0    0    0    0    0    0
## 740    0    0    0    0    0    0    0    0    0    0    0    0
## 741    0    0    0    0    0    0    0    0    0    0    0    0
## 742    0    0    0    0    0    0    0    0    0    0    0    0
## 743    0    0    0    0    0    0    0    0    0    0    0    0
## 744    0    0    0    0    0    0    0    0    0    0    0    0
## 745    0    0    0    0    0    0    0    0    0    0    0    0
## 746    0    0    0    0    0    0    0    0    0    0    0    0
## 747    0    0    0    0    0    0    0    0    0    0    0    0
## 748    0    0    0    0    0    0    0    0    0    0    0    0
## 749    0    0    0    0    0    0    0    0    0    0    0    0
## 750    0    0    0    0    0    0    0    0    0    0    0    0
## 751    0    0    0    0    0    0    0    0    0    0    0    0
## 752    0    0    0    0    0    0    0    0    0    0    0    0
## 753    0    0    0    0    0    0    0    0    0    0    0    0
## 754    0    0    0    0    0    0    0    0    0    0    0    0
## 755    0    0    0    0    0    0    0    0    0    0    0    0
## 756    0    0    0    0    0    0    0    0    0    0    0    0
## 757    0    0    0    0    0    0    0    0    0    0    0    0
## 758    0    0    0    0    0    0    0    0    0    0    0    0
## 759    0    0    0    0    0    0    0    0    0    0    0    0
## 760    0    0    0    0    0    0    0    0    0    0    0    0
## 761    0    0    0    0    0    0    0    0    0    0    0    0
## 762    0    0    0    0    0    0    0    0    0    0    0    0
## 763    0    0    0    0    0    0    0    0    0    0    0    0
## 764    0    0    0    0    0    0    0    0    0    0    0    0
## 765    0    0    0    0    0    0    0    0    0    0    0    0
## 766    0    0    0    0    0    0    0    0    0    0    0    0
## 767    0    0    0    0    0    0    0    0    0    0    0    0
## 768    0    0    0    0    0    0    0    0    0    0    0    0
## 769    0    0    0    0    0    0    0    0    0    0    0    0
## 770    0    0    0    0    0    0    0    0    0    0    0    0
## 771    0    0    0    0    0    0    0    0    0    0    0    0
## 772    0    0    0    0    0    0    0    0    0    0    0    0
## 773    0    0    0    0    0    0    0    0    0    0    0    0
## 774    0    0    0    0    0    0    0    0    0    0    0    0
## 775    0    0    0    0    0    0    0    0    0    0    0    0
## 776    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 777     0     0     0     0     0     0     0     0     0     0     0     0
## 778     0     0     0     0     0     0     0     0     0     0     0     0
## 779     0     0     0     0     0     0     0     0     0     0     0     0
## 780     0     0     0     0     0     0     0     0     0     0     0     0
## 781     0     0     0     0     0     0     0     0     0     0     0     0
## 782     0     0     0     0     0     0     0     0     0     0     0     0
## 783     0     0     0     0     0     0     0     0     0     0     0     0
## 784     0     0     0     0     0     0     0     0     0     0     0     0
## 785     0     0     0     0     0     0     0     0     0     0     0     0
## 786     0     0     0     0     0     0     0     0     0     0     0     0
## 787     0     0     0     0     0     0     0     0     0     0     0     0
## 788     0     0     0     0     0     0     0     0     0     0     0     0
## 789     0     0     0     0     0     0     0     0     0     0     0     0
## 790     0     0     0     0     0     0     0     0     0     0     0     0
## 791     0     0     0     0     0     0     0     0     0     0     0     0
## 792     0     0     0     0     0     0     0     0     0     0     0     0
## 793     0     0     0     0     0     0     0     0     0     0     0     0
## 794     0     0     0     0     0     0     0     0     0     0     0     0
## 795     0     0     0     0     0     0     0     0     0     0     0     0
## 796     0     0     0     0     0     0     0     0     0     0     0     0
## 797     0     0     0     0     0     0     0     0     0     0     0     0
## 798     0     0     0     0     0     0     0     0     0     0     0     0
## 799     0     0     0     0     0     0     0     0     0     0     0     0
## 800     0     0     0     0     0     0     0     0     0     0     0     0
## 801     0     0     0     0     0     0     0     0     0     0     0     0
## 802     0     0     0     0     0     0     0     0     0     0     0     0
## 803     0     0     0     0     0     0     0     0     0     0     0     0
## 804     0     0     0     0     0     0     0     0     0     0     0     0
## 805     0     0     0     0     0     0     0     0     0     0     0     0
## 806     0     0     0     0     0     0     0     0     0     0     0     0
## 807     0     0     0     0     0     0     0     0     0     0     0     0
## 808     0     0     0     0     0     0     0     0     0     0     0     0
## 809     0     0     0     0     0     0     0     0     0     0     0     0
## 810     0     0     0     0     0     0     0     0     0     0     0     0
## 811     0     0     0     0     0     0     0     0     0     0     0     0
## 812     0     0     0     0     0     0     0     0     0     0     0     0
## 813     0     0     0     0     0     0     0     0     0     0     0     0
## 814     0     0     0     0     0     0     0     0     0     0     0     0
## 815     0     0     0     0     0     0     0     0     0     0     0     0
## 816     0     0     0     0     0     0     0     0     0     0     0     0
## 817     0     0     0     0     0     0     0     0     0     0     0     0
## 818     0     0     0     0     0     0     0     0     0     0     0     0
## 819     0     0     0     0     0     0     0     0     0     0     0     0
## 820     0     0     0     0     0     0     0     0     0     0     0     0
## 821     0     0     0     0     0     0     0     0     0     0     0     0
## 822     0     0     0     0     0     0     0     0     0     0     0     0
## 823     0     0     0     0     0     0     0     0     0     0     0     0
## 824     0     0     0     0     0     0     0     0     0     0     0     0
## 825     0     0     0     0     0     0     0     0     0     0     0     0
## 826     0     0     0     0     0     0     0     0     0     0     0     0
## 827     0     0     0     0     0     0     0     0     0     0     0     0
## 828     0     0     0     0     0     0     0     0     0     0     0     0
## 829     0     0     0     0     0     0     0     0     0     0     0     0
## 830     0     0     0     0     0     0     0     0     0     0     0     0
```

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## 831     0     0     0     0     0     0     0     0     0     0     0     0
## 832     0     0     0     0     0     0     0     0     0     0     0     0
## 833     0     0     0     0     0     0     0     0     0     0     0     0
## 834     0     0     0     0     0     0     0     0     0     0     0     0
## 835     0     0     0     0     0     0     0     0     0     0     0     0
## 836     0     0     0     0     0     0     0     0     0     0     0     0
## 837     0     0     0     0     0     0     0     0     0     0     0     0
## 838     0     0     0     0     0     0     0     0     0     0     0     0
## 839     0     0     0     0     0     0     0     0     0     0     0     0
## 840     0     0     0     0     0     0     0     0     0     0     0     0
## 841     0     0     0     0     0     0     0     0     0     0     0     0
## 842     0     0     0     0     0     0     0     0     0     0     0     0
## 843     0     0     0     0     0     0     0     0     0     0     0     0
## 844     0     0     0     0     0     0     0     0     0     0     0     0
## 845     0     0     0     0     0     0     0     0     0     0     0     0
## 846     0     0     0     0     0     0     0     0     0     0     0     0
## 847     0     0     0     0     0     0     0     0     0     0     0     0
## 848     0     0     0     0     0     0     0     0     0     0     0     0
## 849     0     0     0     0     0     0     0     0     0     0     0     0
## 850     0     0     0     0     0     0     0     0     0     0     0     0
## 851     0     0     0     0     0     0     0     0     0     0     0     0
## 852     0     0     0     0     0     0     0     0     0     0     0     0
## 853     0     0     0     0     0     0     0     0     0     0     0     0
## 854     0     0     0     0     0     0     0     0     0     0     0     0
## 855     0     0     0     0     0     0     0     0     0     0     0     0
## 856     0     0     0     0     0     0     0     0     0     0     0     0
## 857     0     0     0     0     0     0     0     0     0     0     0     0
## 858     0     0     0     0     0     0     0     0     0     0     0     0
## 859     0     0     0     0     0     0     0     0     0     0     0     0
## 860     0     0     0     0     0     0     0     0     0     0     0     0
## 861     0     0     0     0     0     0     0     0     0     0     0     0
## 862     0     0     0     0     0     0     0     0     0     0     0     0
## 863     0     0     0     0     0     0     0     0     0     0     0     0
## 864     0     0     0     0     0     0     0     0     0     0     0     0
## 865     0     0     0     0     0     0     0     0     0     0     0     0
## 866     0     0     0     0     0     0     0     0     0     0     0     0
## 867     0     0     0     0     0     0     0     0     0     0     0     0
## 868     0     0     0     0     0     0     0     0     0     0     0     0
## 869     0     0     0     0     0     0     0     0     0     0     0     0
## 870     0     0     0     0     0     0     0     0     0     0     0     0
## 871     0     0     0     0     0     0     0     0     0     0     0     0
## 872     0     0     0     0     0     0     0     0     0     0     0     0
## 873     0     0     0     0     0     0     0     0     0     0     0     0
## 874     0     0     0     0     0     0     0     0     0     0     0     0
## 875     0     0     0     0     0     0     0     0     0     0     0     0
## 876     0     0     0     0     0     0     0     0     0     0     0     0
## 877     0     0     0     0     0     0     0     0     0     0     0     0
## 878     0     0     0     0     0     0     0     0     0     0     0     0
## 879     0     0     0     0     0     0     0     0     0     0     0     0
## 880     0     0     0     0     0     0     0     0     0     0     0     0
## 881     0     0     0     0     0     0     0     0     0     0     0     0
## 882     0     0     0     0     0     0     0     0     0     0     0     0
## 883     0     0     0     0     0     0     0     0     0     0     0     0
## 884     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 885       0       0       0       0       0       0       0       0       0       0       0       0
## 886       0       0       0       0       0       0       0       0       0       0       0       0
## 887       0       0       0       0       0       0       0       0       0       0       0       0
## 888       0       0       0       0       0       0       0       0       0       0       0       0
## 889       0       0       0       0       0       0       0       0       0       0       0       0
## 890       0       0       0       0       0       0       0       0       0       0       0       0
## 891       0       0       0       0       0       0       0       0       0       0       0       0
## 892       0       0       0       0       0       0       0       0       0       0       0       0
## 893       0       0       0       0       0       0       0       0       0       0       0       0
## 894       0       0       0       0       0       0       0       0       0       0       0       0
## 895       0       0       0       0       0       0       0       0       0       0       0       0
## 896       0       0       0       0       0       0       0       0       0       0       0       0
## 897       0       0       0       0       0       0       0       0       0       0       0       0
## 898       0       0       0       0       0       0       0       0       0       0       0       0
## 899       0       0       0       0       0       0       0       0       0       0       0       0
## 900       0       0       0       0       0       0       0       0       0       0       0       0
## 901       0       0       0       0       0       0       0       0       0       0       0       0
## 902       0       0       0       0       0       0       0       0       0       0       0       0
## 903       0       0       0       0       0       0       0       0       0       0       0       0
## 904       0       0       0       0       0       0       0       0       0       0       0       0
## 905       0       0       0       0       0       0       0       0       0       0       0       0
## 906       0       0       0       0       0       0       0       0       0       0       0       0
## 907       0       0       0       0       0       0       0       0       0       0       0       0
## 908       0       0       0       0       0       0       0       0       0       0       0       0
## 909       0       0       0       0       0       0       0       0       0       0       0       0
## 910       0       0       0       0       0       0       0       0       0       0       0       0
## 911       0       0       0       0       0       0       0       0       0       0       0       0
## 912       0       0       0       0       0       0       0       0       0       0       0       0
## 913       0       0       0       0       0       0       0       0       0       0       0       0
## 914       0       0       0       0       0       0       0       0       0       0       0       0
## 915       0       0       0       0       0       0       0       0       0       0       0       0
## 916       0       0       0       0       0       0       0       0       0       0       0       0
## 917       0       0       0       0       0       0       0       0       0       0       0       0
## 918       0       0       0       0       0       0       0       0       0       0       0       0
## 919       0       0       0       0       0       0       0       0       0       0       0       0
## 920       0       0       0       0       0       0       0       0       0       0       0       0
## 921       0       0       0       0       0       0       0       0       0       0       0       0
## 922       0       0       0       0       0       0       0       0       0       0       0       0
## 923       0       0       0       0       0       0       0       0       0       0       0       0
## 924       0       0       0       0       0       0       0       0       0       0       0       0
## 925       0       0       0       0       0       0       0       0       0       0       0       0
## 926       0       0       0       0       0       0       0       0       0       0       0       0
## 927       0       0       0       0       0       0       0       0       0       0       0       0
## 928       0       0       0       0       0       0       0       0       0       0       0       0
## 929       0       0       0       0       0       0       0       0       0       0       0       0
## 930       0       0       0       0       0       0       0       0       0       0       0       0
## 931       0       0       0       0       0       0       0       0       0       0       0       0
## 932       0       0       0       0       0       0       0       0       0       0       0       0
## 933       0       0       0       0       0       0       0       0       0       0       0       0
## 934       0       0       0       0       0       0       0       0       0       0       0       0
## 935       0       0       0       0       0       0       0       0       0       0       0       0
## 936       0       0       0       0       0       0       0       0       0       0       0       0
## 937       0       0       0       0       0       0       0       0       0       0       0       0
## 938       0       0       0       0       0       0       0       0       0       0       0       0
```

```
## 939     0     0     0     0     0     0     0     0     0     0     0     0
## 940     0     0     0     0     0     0     0     0     0     0     0     0
## 941     0     0     0     0     0     0     0     0     0     0     0     0
## 942     0     0     0     0     0     0     0     0     0     0     0     0
## 943     0     0     0     0     0     0     0     0     0     0     0     0
## 944     0     0     0     0     0     0     0     0     0     0     0     0
## 945     0     0     0     0     0     0     0     0     0     0     0     0
## 946     0     0     0     0     0     0     0     0     0     0     0     0
## 947     0     0     0     0     0     0     0     0     0     0     0     0
## 948     0     0     0     0     0     0     0     0     0     0     0     0
## 949     0     0     0     0     0     0     0     0     0     0     0     0
## 950     0     0     0     0     0     0     0     0     0     0     0     0
## 951     0     0     0     0     0     0     0     0     0     0     0     0
## 952     0     0     0     0     0     0     0     0     0     0     0     0
## 953     0     0     0     0     0     0     0     0     0     0     0     0
## 954     0     0     0     0     0     0     0     0     0     0     0     0
## 955     0     0     0     0     0     0     0     0     0     0     0     0
## 956     0     0     0     0     0     0     0     0     0     0     0     0
## 957     0     0     0     0     0     0     0     0     0     0     0     0
## 958     0     0     0     0     0     0     0     0     0     0     0     0
## 959     0     0     0     0     0     0     0     0     0     0     0     0
## 960     0     0     0     0     0     0     0     0     0     0     0     0
## 961     0     0     0     0     0     0     0     0     0     0     0     0
## 962     0     0     0     0     0     0     0     0     0     0     0     0
## 963     0     0     0     0     0     0     0     0     0     0     0     0
## 964     0     0     0     0     0     0     0     0     0     0     0     0
## 965     0     0     0     0     0     0     0     0     0     0     0     0
## 966     0     0     0     0     0     0     0     0     0     0     0     0
## 967     0     0     0     0     0     0     0     0     0     0     0     0
## 968     0     0     0     0     0     0     0     0     0     0     0     0
## 969     0     0     0     0     0     0     0     0     0     0     0     0
## 970     0     0     0     0     0     0     0     0     0     0     0     0
## 971     0     0     0     0     0     0     0     0     0     0     0     0
## 972     0     0     0     0     0     0     0     0     0     0     0     0
## 973     0     0     0     0     0     0     0     0     0     0     0     0
## 974     0     0     0     0     0     0     0     0     0     0     0     0
## 975     0     0     0     0     0     0     0     0     0     0     0     0
## 976     0     0     0     0     0     0     0     0     0     0     0     0
## 977     0     0     0     0     0     0     0     0     0     0     0     0
## 978     0     0     0     0     0     0     0     0     0     0     0     0
## 979     0     0     0     0     0     0     0     0     0     0     0     0
## 980     0     0     0     0     0     0     0     0     0     0     0     0
## 981     0     0     0     0     0     0     0     0     0     0     0     0
## 982     0     0     0     0     0     0     0     0     0     0     0     0
## 983     0     0     0     0     0     0     0     0     0     0     0     0
## 984     0     0     0     0     0     0     0     0     0     0     0     0
## 985     0     0     0     0     0     0     0     0     0     0     0     0
## 986     0     0     0     0     0     0     0     0     0     0     0     0
## 987     0     0     0     0     0     0     0     0     0     0     0     0
## 988     0     0     0     0     0     0     0     0     0     0     0     0
## 989     0     0     0     0     0     0     0     0     0     0     0     0
## 990     0     0     0     0     0     0     0     0     0     0     0     0
## 991     0     0     0     0     0     0     0     0     0     0     0     0
## 992     0     0     0     0     0     0     0     0     0     0     0     0
```

```
##    993    0    0    0    0    0    0    0    0    0    0    0    0
##    994    0    0    0    0    0    0    0    0    0    0    0    0
##    995    0    0    0    0    0    0    0    0    0    0    0    0
##    996    0    0    0    0    0    0    0    0    0    0    0    0
##    997    0    0    0    0    0    0    0    0    0    0    0    0
##    998    0    0    0    0    0    0    0    0    0    0    0    0
##    999    0    0    0    0    0    0    0    0    0    0    0    0
##   1000    0    0    0    0    0    0    0    0    0    0    0    0
##   1001    0    0    0    0    0    0    0    0    0    0    0    0
##   1002    0    0    0    0    0    0    0    0    0    0    0    0
##   1003    0    0    0    0    0    0    0    0    0    0    0    0
##   1004    0    0    0    0    0    0    0    0    0    0    0    0
##   1005    0    0    0    0    0    0    0    0    0    0    0    0
##   1006    0    0    0    0    0    0    0    0    0    0    0    0
##   1007    0    0    0    0    0    0    0    0    0    0    0    0
##   1008    0    0    0    0    0    0    0    0    0    0    0    0
##   1009    0    0    0    0    0    0    0    0    0    0    0    0
##   1010    0    0    0    0    0    0    0    0    0    0    0    0
##   1011    0    0    0    0    0    0    0    0    0    0    0    0
##   1012    0    0    0    0    0    0    0    0    0    0    0    0
##   1013    0    0    0    0    0    0    0    0    0    0    0    0
##   1014    0    0    0    0    0    0    0    0    0    0    0    0
##   1015    0    0    0    0    0    0    0    0    0    0    0    0
##   1016    0    0    0    0    0    0    0    0    0    0    0    0
##   1017    0    0    0    0    0    0    0    0    0    0    0    0
##   1018    0    0    0    0    0    0    0    0    0    0    0    0
##   1019    0    0    0    0    0    0    0    0    0    0    0    0
##   1020    0    0    0    0    0    0    0    0    0    0    0    0
##   1021    0    0    0    0    0    0    0    0    0    0    0    0
##   1022    0    0    0    0    0    0    0    0    0    0    0    0
##   1023    0    0    0    0    0    0    0    0    0    0    0    0
##   1024    0    0    0    0    0    0    0    0    0    0    0    0
##   1025    0    0    0    0    0    0    0    0    0    0    0    0
##   1026    0    0    0    0    0    0    0    0    0    0    0    0
##   1027    0    0    0    0    0    0    0    0    0    0    0    0
##   1028    0    0    0    0    0    0    0    0    0    0    0    0
##   1029    0    0    0    0    0    0    0    0    0    0    0    0
##   1030    0    0    0    0    0    0    0    0    0    0    0    0
##   1031    0    0    0    0    0    0    0    0    0    0    0    0
##   1032    0    0    0    0    0    0    0    0    0    0    0    0
##   1033    0    0    0    0    0    0    0    0    0    0    0    0
##   1034    0    0    0    0    0    0    0    0    0    0    0    0
##   1035    0    0    0    0    0    0    0    0    0    0    0    0
##   1036    0    0    0    0    0    0    0    0    0    0    0    0
##   1037    0    0    0    0    0    0    0    0    0    0    0    0
##   1038    0    0    0    0    0    0    0    0    0    0    0    0
##   1039    0    0    0    0    0    0    0    0    0    0    0    0
##   1040    0    0    0    0    0    0    0    0    0    0    0    0
##   1041    0    0    0    0    0    0    0    0    0    0    0    0
##   1042    0    0    0    0    0    0    0    0    0    0    0    0
##   1043    0    0    0    0    0    0    0    0    0    0    0    0
##   1044    0    0    0    0    0    0    0    0    0    0    0    0
##   1045    0    0    0    0    0    0    0    0    0    0    0    0
##   1046    0    0    0    0    0    0    0    0    0    0    0    0
```

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## 1047      0   0   0   0   0   0   0   0   0   0   0   0
## 1048      0   0   0   0   0   0   0   0   0   0   0   0
## 1049      0   0   0   0   0   0   0   0   0   0   0   0
## 1050      0   0   0   0   0   0   0   0   0   0   0   0
## 1051      0   0   0   0   0   0   0   0   0   0   0   0
## 1052      0   0   0   0   0   0   0   0   0   0   0   0
## 1053      0   0   0   0   0   0   0   0   0   0   0   0
## 1054      0   0   0   0   0   0   0   0   0   0   0   0
## 1055      0   0   0   0   0   0   0   0   0   0   0   0
## 1056      0   0   0   0   0   0   0   0   0   0   0   0
## 1057      0   0   0   0   0   0   0   0   0   0   0   0
## 1058      0   0   0   0   0   0   0   0   0   0   0   0
## 1059      0   0   0   0   0   0   0   0   0   0   0   0
## 1060      0   0   0   0   0   0   0   0   0   0   0   0
## 1061      0   0   0   0   0   0   0   0   0   0   0   0
## 1062      0   0   0   0   0   0   0   0   0   0   0   0
## 1063      0   0   0   0   0   0   0   0   0   0   0   0
## 1064      0   0   0   0   0   0   0   0   0   0   0   0
## 1065      0   0   0   0   0   0   0   0   0   0   0   0
## 1066      0   0   0   0   0   0   0   0   0   0   0   0
## 1067      0   0   0   0   0   0   0   0   0   0   0   0
## 1068      0   0   0   0   0   0   0   0   0   0   0   0
## 1069      0   0   0   0   0   0   0   0   0   0   0   0
## 1070      0   0   0   0   0   0   0   0   0   0   0   0
## 1071      0   0   0   0   0   0   0   0   0   0   0   0
## 1072      0   0   0   0   0   0   0   0   0   0   0   0
## 1073      0   0   0   0   0   0   0   0   0   0   0   0
## 1074      0   0   0   0   0   0   0   0   0   0   0   0
## 1075      0   0   0   0   0   0   0   0   0   0   0   0
## 1076      0   0   0   0   0   0   0   0   0   0   0   0
## 1077      0   0   0   0   0   0   0   0   0   0   0   0
## 1078      0   0   0   0   0   0   0   0   0   0   0   0
## 1079      0   0   0   0   0   0   0   0   0   0   0   0
## 1080      0   0   0   0   0   0   0   0   0   0   0   0
## 1081      0   0   0   0   0   0   0   0   0   0   0   0
## 1082      0   0   0   0   0   0   0   0   0   0   0   0
## 1083      0   0   0   0   0   0   0   0   0   0   0   0
## 1084      0   0   0   0   0   0   0   0   0   0   0   0
## 1085      0   0   0   0   0   0   0   0   0   0   0   0
## 1086      0   0   0   0   0   0   0   0   0   0   0   0
## 1087      0   0   0   0   0   0   0   0   0   0   0   0
## 1088      0   0   0   0   0   0   0   0   0   0   0   0
## 1089      0   0   0   0   0   0   0   0   0   0   0   0
## 1090      0   0   0   0   0   0   0   0   0   0   0   0
## 1091      0   0   0   0   0   0   0   0   0   0   0   0
## 1092      0   0   0   0   0   0   0   0   0   0   0   0
## 1093      0   0   0   0   0   0   0   0   0   0   0   0
## 1094      0   0   0   0   0   0   0   0   0   0   0   0
## 1095      0   0   0   0   0   0   0   0   0   0   0   0
## 1096      0   0   0   0   0   0   0   0   0   0   0   0
## 1097      0   0   0   0   0   0   0   0   0   0   0   0
## 1098      0   0   0   0   0   0   0   0   0   0   0   0
## 1099      0   0   0   0   0   0   0   0   0   0   0   0
## 1100      0   0   0   0   0   0   0   0   0   0   0   0
```

```
## 1101      0      0      0      0      0      0      0      0      0      0      0      0
## 1102      0      0      0      0      0      0      0      0      0      0      0      0
## 1103      0      0      0      0      0      0      0      0      0      0      0      0
## 1104      0      0      0      0      0      0      0      0      0      0      0      0
## 1105      0      0      0      0      0      0      0      0      0      0      0      0
## 1106      0      0      0      0      0      0      0      0      0      0      0      0
## 1107      0      0      0      0      0      0      0      0      0      0      0      0
## 1108      0      0      0      0      0      0      0      0      0      0      0      0
## 1109      0      0      0      0      0      0      0      0      0      0      0      0
## 1110      0      0      0      0      0      0      0      0      0      0      0      0
## 1111      0      0      0      0      0      0      0      0      0      0      0      0
## 1112      0      0      0      0      0      0      0      0      0      0      0      0
## 1113      0      0      0      0      0      0      0      0      0      0      0      0
## 1114      0      0      0      0      0      0      0      0      0      0      0      0
## 1115      0      0      0      0      0      0      0      0      0      0      0      0
## 1116      0      0      0      0      0      0      0      0      0      0      0      0
## 1117      0      0      0      0      0      0      0      0      0      0      0      0
## 1118      0      0      0      0      0      0      0      0      0      0      0      0
## 1119      0      0      0      0      0      0      0      0      0      0      0      0
## 1120      0      0      0      0      0      0      0      0      0      0      0      0
## 1121      0      0      0      0      0      0      0      0      0      0      0      0
## 1122      0      0      0      0      0      0      0      0      0      0      0      0
## 1123      0      0      0      0      0      0      0      0      0      0      0      0
## 1124      0      0      0      0      0      0      0      0      0      0      0      0
## 1125      0      0      0      0      0      0      0      0      0      0      0      0
## 1126      0      0      0      0      0      0      0      0      0      0      0      0
## 1127      0      0      0      0      0      0      0      0      0      0      0      0
## 1128      0      0      0      0      0      0      0      0      0      0      0      0
## 1129      0      0      0      0      0      0      0      0      0      0      0      0
## 1130      0      0      0      0      0      0      0      0      0      0      0      0
## 1131      0      0      0      0      0      0      0      0      0      0      0      0
## 1132      0      0      0      0      0      0      0      0      0      0      0      0
## 1133      0      0      0      0      0      0      0      0      0      0      0      0
## 1134      0      0      0      0      0      0      0      0      0      0      0      0
## 1135      0      0      0      0      0      0      0      0      0      0      0      0
## 1136      0      0      0      0      0      0      0      0      0      0      0      0
## 1137      0      0      0      0      0      0      0      0      0      0      0      0
## 1138      0      0      0      0      0      0      0      0      0      0      0      0
## 1139      0      0      0      0      0      0      0      0      0      0      0      0
## 1140      0      0      0      0      0      0      0      0      0      0      0      0
## 1141      0      0      0      0      0      0      0      0      0      0      0      0
## 1142      0      0      0      0      0      0      0      0      0      0      0      0
## 1143      0      0      0      0      0      0      0      0      0      0      0      0
## 1144      0      0      0      0      0      0      0      0      0      0      0      0
## 1145      0      0      0      0      0      0      0      0      0      0      0      0
## 1146      0      0      0      0      0      0      0      0      0      0      0      0
## 1147      0      0      0      0      0      0      0      0      0      0      0      0
## 1148      0      0      0      0      0      0      0      0      0      0      0      0
## 1149      0      0      0      0      0      0      0      0      0      0      0      0
## 1150      0      0      0      0      0      0      0      0      0      0      0      0
## 1151      0      0      0      0      0      0      0      0      0      0      0      0
## 1152      0      0      0      0      0      0      0      0      0      0      0      0
## 1153      0      0      0      0      0      0      0      0      0      0      0      0
## 1154      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 1155    0    0    0    0    0    0    0    0    0    0    0    0
## 1156    0    0    0    0    0    0    0    0    0    0    0    0
## 1157    0    0    0    0    0    0    0    0    0    0    0    0
## 1158    0    0    0    0    0    0    0    0    0    0    0    0
## 1159    0    0    0    0    0    0    0    0    0    0    0    0
## 1160    0    0    0    0    0    0    0    0    0    0    0    0
## 1161    0    0    0    0    0    0    0    0    0    0    0    0
## 1162    0    0    0    0    0    0    0    0    0    0    0    0
## 1163    0    0    0    0    0    0    0    0    0    0    0    0
## 1164    0    0    0    0    0    0    0    0    0    0    0    0
## 1165    0    0    0    0    0    0    0    0    0    0    0    0
## 1166    0    0    0    0    0    0    0    0    0    0    0    0
## 1167    0    0    0    0    0    0    0    0    0    0    0    0
## 1168    0    0    0    0    0    0    0    0    0    0    0    0
## 1169    0    0    0    0    0    0    0    0    0    0    0    0
## 1170    0    0    0    0    0    0    0    0    0    0    0    0
## 1171    0    0    0    0    0    0    0    0    0    0    0    0
## 1172    0    0    0    0    0    0    0    0    0    0    0    0
## 1173    0    0    0    0    0    0    0    0    0    0    0    0
## 1174    0    0    0    0    0    0    0    0    0    0    0    0
## 1175    0    0    0    0    0    0    0    0    0    0    0    0
## 1176    0    0    0    0    0    0    0    0    0    0    0    0
## 1177    0    0    0    0    0    0    0    0    0    0    0    0
## 1178    0    0    0    0    0    0    0    0    0    0    0    0
## 1179    0    0    0    0    0    0    0    0    0    0    0    0
## 1180    0    0    0    0    0    0    0    0    0    0    0    0
## 1181    0    0    0    0    0    0    0    0    0    0    0    0
## 1182    0    0    0    0    0    0    0    0    0    0    0    0
## 1183    0    0    0    0    0    0    0    0    0    0    0    0
## 1184    0    0    0    0    0    0    0    0    0    0    0    0
## 1185    0    0    0    0    0    0    0    0    0    0    0    0
## 1186    0    0    0    0    0    0    0    0    0    0    0    0
## 1187    0    0    0    0    0    0    0    0    0    0    0    0
## 1188    0    0    0    0    0    0    0    0    0    0    0    0
## 1189    0    0    0    0    0    0    0    0    0    0    0    0
## 1190    0    0    0    0    0    0    0    0    0    0    0    0
## 1191    0    0    0    0    0    0    0    0    0    0    0    0
## 1192    0    0    0    0    0    0    0    0    0    0    0    0
## 1193    0    0    0    0    0    0    0    0    0    0    0    0
## 1194    0    0    0    0    0    0    0    0    0    0    0    0
## 1195    0    0    0    0    0    0    0    0    0    0    0    0
## 1196    0    0    0    0    0    0    0    0    0    0    0    0
## 1197    0    0    0    0    0    0    0    0    0    0    0    0
## 1198    0    0    0    0    0    0    0    0    0    0    0    0
## 1199    0    0    0    0    0    0    0    0    0    0    0    0
## 1200    0    0    0    0    0    0    0    0    0    0    0    0
## 1201    0    0    0    0    0    0    0    0    0    0    0    0
## 1202    0    0    0    0    0    0    0    0    0    0    0    0
## 1203    0    0    0    0    0    0    0    0    0    0    0    0
## 1204    0    0    0    0    0    0    0    0    0    0    0    0
## 1205    0    0    0    0    0    0    0    0    0    0    0    0
## 1206    0    0    0    0    0    0    0    0    0    0    0    0
## 1207    0    0    0    0    0    0    0    0    0    0    0    0
## 1208    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1209       0       0       0       0       0       0       0       0       0       0       0       0
## 1210       0       0       0       0       0       0       0       0       0       0       0       0
## 1211       0       0       0       0       0       0       0       0       0       0       0       0
## 1212       0       0       0       0       0       0       0       0       0       0       0       0
## 1213       0       0       0       0       0       0       0       0       0       0       0       0
## 1214       0       0       0       0       0       0       0       0       0       0       0       0
## 1215       0       0       0       0       0       0       0       0       0       0       0       0
## 1216       0       0       0       0       0       0       0       0       0       0       0       0
## 1217       0       0       0       0       0       0       0       0       0       0       0       0
## 1218       0       0       0       0       0       0       0       0       0       0       0       0
## 1219       0       0       0       0       0       0       0       0       0       0       0       0
## 1220       0       0       0       0       0       0       0       0       0       0       0       0
## 1221       0       0       0       0       0       0       0       0       0       0       0       0
## 1222       0       0       0       0       0       0       0       0       0       0       0       0
## 1223       0       0       0       0       0       0       0       0       0       0       0       0
## 1224       0       0       0       0       0       0       0       0       0       0       0       0
## 1225       0       0       0       0       0       0       0       0       0       0       0       0
## 1226       0       0       0       0       0       0       0       0       0       0       0       0
## 1227       0       0       0       0       0       0       0       0       0       0       0       0
## 1228       0       0       0       0       0       0       0       0       0       0       0       0
## 1229       0       0       0       0       0       0       0       0       0       0       0       0
## 1230       0       0       0       0       0       0       0       0       0       0       0       0
## 1231       0       0       0       0       0       0       0       0       0       0       0       0
## 1232       0       0       0       0       0       0       0       0       0       0       0       0
## 1233       0       0       0       0       0       0       0       0       0       0       0       0
## 1234       0       0       0       0       0       0       0       0       0       0       0       0
## 1235       0       0       0       0       0       0       0       0       0       0       0       0
## 1236       0       0       0       0       0       0       0       0       0       0       0       0
## 1237       0       0       0       0       0       0       0       0       0       0       0       0
## 1238       0       0       0       0       0       0       0       0       0       0       0       0
## 1239       0       0       0       0       0       0       0       0       0       0       0       0
## 1240       0       0       0       0       0       0       0       0       0       0       0       0
## 1241       0       0       0       0       0       0       0       0       0       0       0       0
## 1242       0       0       0       0       0       0       0       0       0       0       0       0
## 1243       0       0       0       0       0       0       0       0       0       0       0       0
## 1244       0       0       0       0       0       0       0       0       0       0       0       0
## 1245       0       0       0       0       0       0       0       0       0       0       0       0
## 1246       0       0       0       0       0       0       0       0       0       0       0       0
## 1247       0       0       0       0       0       0       0       0       0       0       0       0
## 1248       0       0       0       0       0       0       0       0       0       0       0       0
## 1249       0       0       0       0       0       0       0       0       0       0       0       0
## 1250       0       0       0       0       0       0       0       0       0       0       0       0
## 1251       0       0       0       0       0       0       0       0       0       0       0       0
## 1252       0       0       0       0       0       0       0       0       0       0       0       0
## 1253       0       0       0       0       0       0       0       0       0       0       0       0
## 1254       0       0       0       0       0       0       0       0       0       0       0       0
## 1255       0       0       0       0       0       0       0       0       0       0       0       0
## 1256       0       0       0       0       0       0       0       0       0       0       0       0
## 1257       0       0       0       0       0       0       0       0       0       0       0       0
## 1258       0       0       0       0       0       0       0       0       0       0       0       0
## 1259       0       0       0       0       0       0       0       0       0       0       0       0
## 1260       0       0       0       0       0       0       0       0       0       0       0       0
## 1261       0       0       0       0       0       0       0       0       0       0       0       0
## 1262       0       0       0       0       0       0       0       0       0       0       0       0
```

```
## 1263      0      0      0      0      0      0      0      0      0      0      0      0
## 1264      0      0      0      0      0      0      0      0      0      0      0      0
## 1265      0      0      0      0      0      0      0      0      0      0      0      0
## 1266      0      0      0      0      0      0      0      0      0      0      0      0
## 1267      0      0      0      0      0      0      0      0      0      0      0      0
## 1268      0      0      0      0      0      0      0      0      0      0      0      0
## 1269      0      0      0      0      0      0      0      0      0      0      0      0
## 1270      0      0      0      0      0      0      0      0      0      0      0      0
## 1271      0      0      0      0      0      0      0      0      0      0      0      0
## 1272      0      0      0      0      0      0      0      0      0      0      0      0
## 1273      0      0      0      0      0      0      0      0      0      0      0      0
## 1274      0      0      0      0      0      0      0      0      0      0      0      0
## 1275      0      0      0      0      0      0      0      0      0      0      0      0
## 1276      0      0      0      0      0      0      0      0      0      0      0      0
## 1277      0      0      0      0      0      0      0      0      0      0      0      0
## 1278      0      0      0      0      0      0      0      0      0      0      0      0
## 1279      0      0      0      0      0      0      0      0      0      0      0      0
## 1280      0      0      0      0      0      0      0      0      0      0      0      0
## 1281      0      0      0      0      0      0      0      0      0      0      0      0
## 1282      0      0      0      0      0      0      0      0      0      0      0      0
## 1283      0      0      0      0      0      0      0      0      0      0      0      0
## 1284      0      0      0      0      0      0      0      0      0      0      0      0
## 1285      0      0      0      0      0      0      0      0      0      0      0      0
## 1286      0      0      0      0      0      0      0      0      0      0      0      0
## 1287      0      0      0      0      0      0      0      0      0      0      0      0
## 1288      0      0      0      0      0      0      0      0      0      0      0      0
## 1289      0      0      0      0      0      0      0      0      0      0      0      0
## 1290      0      0      0      0      0      0      0      0      0      0      0      0
## 1291      0      0      0      0      0      0      0      0      0      0      0      0
## 1292      0      0      0      0      0      0      0      0      0      0      0      0
## 1293      0      0      0      0      0      0      0      0      0      0      0      0
## 1294      0      0      0      0      0      0      0      0      0      0      0      0
## 1295      0      0      0      0      0      0      0      0      0      0      0      0
## 1296      0      0      0      0      0      0      0      0      0      0      0      0
## 1297      0      0      0      0      0      0      0      0      0      0      0      0
## 1298      0      0      0      0      0      0      0      0      0      0      0      0
## 1299      0      0      0      0      0      0      0      0      0      0      0      0
## 1300      0      0      0      0      0      0      0      0      0      0      0      0
## 1301      0      0      0      0      0      0      0      0      0      0      0      0
## 1302      0      0      0      0      0      0      0      0      0      0      0      0
## 1303      0      0      0      0      0      0      0      0      0      0      0      0
## 1304      0      0      0      0      0      0      0      0      0      0      0      0
## 1305      0      0      0      0      0      0      0      0      0      0      0      0
## 1306      0      0      0      0      0      0      0      0      0      0      0      0
## 1307      0      0      0      0      0      0      0      0      0      0      0      0
## 1308      0      0      0      0      0      0      0      0      0      0      0      0
## 1309      0      0      0      0      0      0      0      0      0      0      0      0
## 1310      0      0      0      0      0      0      0      0      0      0      0      0
## 1311      0      0      0      0      0      0      0      0      0      0      0      0
## 1312      0      0      0      0      0      0      0      0      0      0      0      0
## 1313      0      0      0      0      0      0      0      0      0      0      0      0
## 1314      0      0      0      0      0      0      0      0      0      0      0      0
## 1315      0      0      0      0      0      0      0      0      0      0      0      0
## 1316      0      0      0      0      0      0      0      0      0      0      0      0
```

##	1317	0	0	0	0	0	0	0	0	0	0	0	0
##	1318	0	0	0	0	0	0	0	0	0	0	0	0
##	1319	0	0	0	0	0	0	0	0	0	0	0	0
##	1320	0	0	0	0	0	0	0	0	0	0	0	0
##	1321	0	0	0	0	0	0	0	0	0	0	0	0
##	1322	0	0	0	0	0	0	0	0	0	0	0	0
##	1323	0	0	0	0	0	0	0	0	0	0	0	0
##	1324	0	0	0	0	0	0	0	0	0	0	0	0
##	1325	0	0	0	0	0	0	0	0	0	0	0	0
##	1326	0	0	0	0	0	0	0	0	0	0	0	0
##	1327	0	0	0	0	0	0	0	0	0	0	0	0
##	1328	0	0	0	0	0	0	0	0	0	0	0	0
##	1329	0	0	0	0	0	0	0	0	0	0	0	0
##	1330	0	0	0	0	0	0	0	0	0	0	0	0
##	1331	0	0	0	0	0	0	0	0	0	0	0	0
##	1332	0	0	0	0	0	0	0	0	0	0	0	0
##	1333	0	0	0	0	0	0	0	0	0	0	0	0
##	1334	0	0	0	0	0	0	0	0	0	0	0	0
##	1335	0	0	0	0	0	0	0	0	0	0	0	0
##	1336	0	0	0	0	0	0	0	0	0	0	0	0
##	1337	0	0	0	0	0	0	0	0	0	0	0	0
##	1338	0	0	0	0	0	0	0	0	0	0	0	0
##	1339	0	0	0	0	0	0	0	0	0	0	0	0
##	1340	0	0	0	0	0	0	0	0	0	0	0	0
##	1341	0	0	0	0	0	0	0	0	0	0	0	0
##	1342	0	0	0	0	0	0	0	0	0	0	0	0
##	1343	0	0	0	0	0	0	0	0	0	0	0	0
##	1344	0	0	0	0	0	0	0	0	0	0	0	0
##	1345	0	0	0	0	0	0	0	0	0	0	0	0
##	1346	0	0	0	0	0	0	0	0	0	0	0	0
##	1347	0	0	0	0	0	0	0	0	0	0	0	0
##	1348	0	0	0	0	0	0	0	0	0	0	0	0
##	1349	0	0	0	0	0	0	0	0	0	0	0	0
##	1350	0	0	0	0	0	0	0	0	0	0	0	0
##	1351	0	0	0	0	0	0	0	0	0	0	0	0
##	1352	0	0	0	0	0	0	0	0	0	0	0	0
##	1353	0	0	0	0	0	0	0	0	0	0	0	0
##	1354	0	0	0	0	0	0	0	0	0	0	0	0
##	1355	0	0	0	0	0	0	0	0	0	0	0	0
##	1356	0	0	0	0	0	0	0	0	0	0	0	0
##	1357	0	0	0	0	0	0	0	0	0	0	0	0
##	1358	0	0	0	0	0	0	0	0	0	0	0	0
##	1359	0	0	0	0	0	0	0	0	0	0	0	0
##	1360	0	0	0	0	0	0	0	0	0	0	0	0
##	1361	0	0	0	0	0	0	0	0	0	0	0	0
##	1362	0	0	0	0	0	0	0	0	0	0	0	0
##	1363	0	0	0	0	0	0	0	0	0	0	0	0
##	1364	0	0	0	0	0	0	0	0	0	0	0	0
##	1365	0	0	0	0	0	0	0	0	0	0	0	0
##	1366	0	0	0	0	0	0	0	0	0	0	0	0
##	1367	0	0	0	0	0	0	0	0	0	0	0	0
##	1368	0	0	0	0	0	0	0	0	0	0	0	0
##	1369	0	0	0	0	0	0	0	0	0	0	0	0
##	1370	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1371      0      0      0      0      0      0      0      0      0      0      0      0
## 1372      0      0      0      0      0      0      0      0      0      0      0      0
## 1373      0      0      0      0      0      0      0      0      0      0      0      0
## 1374      0      0      0      0      0      0      0      0      0      0      0      0
## 1375      0      0      0      0      0      0      0      0      0      0      0      0
## 1376      0      0      0      0      0      0      0      0      0      0      0      0
## 1377      0      0      0      0      0      0      0      0      0      0      0      0
## 1378      0      0      0      0      0      0      0      0      0      0      0      0
## 1379      0      0      0      0      0      0      0      0      0      0      0      0
## 1380      0      0      0      0      0      0      0      0      0      0      0      0
## 1381      0      0      0      0      0      0      0      0      0      0      0      0
## 1382      0      0      0      0      0      0      0      0      0      0      0      0
## 1383      0      0      0      0      0      0      0      0      0      0      0      0
## 1384      0      0      0      0      0      0      0      0      0      0      0      0
## 1385      0      0      0      0      0      0      0      0      0      0      0      0
## 1386      0      0      0      0      0      0      0      0      0      0      0      0
## 1387      0      0      0      0      0      0      0      0      0      0      0      0
## 1388      0      0      0      0      0      0      0      0      0      0      0      0
## 1389      0      0      0      0      0      0      0      0      0      0      0      0
## 1390      0      0      0      0      0      0      0      0      0      0      0      0
## 1391      0      0      0      0      0      0      0      0      0      0      0      0
## 1392      0      0      0      0      0      0      0      0      0      0      0      0
## 1393      0      0      0      0      0      0      0      0      0      0      0      0
## 1394      0      0      0      0      0      0      0      0      0      0      0      0
## 1395      0      0      0      0      0      0      0      0      0      0      0      0
## 1396      0      0      0      0      0      0      0      0      0      0      0      0
## 1397      0      0      0      0      0      0      0      0      0      0      0      0
## 1398      0      0      0      0      0      0      0      0      0      0      0      0
## 1399      0      0      0      0      0      0      0      0      0      0      0      0
## 1400      0      0      0      0      0      0      0      0      0      0      0      0
## 1401      0      0      0      0      0      0      0      0      0      0      0      0
## 1402      0      0      0      0      0      0      0      0      0      0      0      0
## 1403      0      0      0      0      0      0      0      0      0      0      0      0
## 1404      0      0      0      0      0      0      0      0      0      0      0      0
## 1405      0      0      0      0      0      0      0      0      0      0      0      0
## 1406      0      0      0      0      0      0      0      0      0      0      0      0
## 1407      0      0      0      0      0      0      0      0      0      0      0      0
## 1408      0      0      0      0      0      0      0      0      0      0      0      0
## 1409      0      0      0      0      0      0      0      0      0      0      0      0
## 1410      0      0      0      0      0      0      0      0      0      0      0      0
## 1411      0      0      0      0      0      0      0      0      0      0      0      0
## 1412      0      0      0      0      0      0      0      0      0      0      0      0
## 1413      0      0      0      0      0      0      0      0      0      0      0      0
## 1414      0      0      0      0      0      0      0      0      0      0      0      0
## 1415      0      0      0      0      0      0      0      0      0      0      0      0
## 1416      0      0      0      0      0      0      0      0      0      0      0      0
## 1417      0      0      0      0      0      0      0      0      0      0      0      0
## 1418      0      0      0      0      0      0      0      0      0      0      0      0
## 1419      0      0      0      0      0      0      0      0      0      0      0      0
## 1420      0      0      0      0      0      0      0      0      0      0      0      0
## 1421      0      0      0      0      0      0      0      0      0      0      0      0
## 1422      0      0      0      0      0      0      0      0      0      0      0      0
## 1423      0      0      0      0      0      0      0      0      0      0      0      0
## 1424      0      0      0      0      0      0      0      0      0      0      0      0
```

```
##   1425    0    0    0    0    0    0    0    0    0    0    0    0
##   1426    0    0    0    0    0    0    0    0    0    0    0    0
##   1427    0    0    0    0    0    0    0    0    0    0    0    0
##   1428    0    0    0    0    0    0    0    0    0    0    0    0
##        [,26] [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37]
##      1    0    0    0    0    0    0    0    0    0    0    0    0
##      2    0    0    0    0    0    0    0    0    0    0    0    0
##      3    0    0    0    0    0    0    0    0    0    0    0    0
##      4    0    0    0    0    0    0    0    0    0    0    0    0
##      5    0    0    0    0    0    0    0    0    0    0    0    0
##      6    0    0    0    0    0    0    0    0    0    0    0    0
##      7    0    0    0    0    0    0    0    0    0    0    0    0
##      8    0    0    0    0    0    0    0    0    0    0    0    0
##      9    0    0    0    0    0    0    0    0    0    0    0    0
##     10    0    0    0    0    0    0    0    0    0    0    0    0
##     11    0    0    0    0    0    0    0    0    0    0    0    0
##     12    0    0    0    0    0    0    0    0    0    0    0    0
##     13    0    0    0    0    0    0    0    0    0    0    0    0
##     14    0    0    0    0    0    0    0    0    0    0    0    0
##     15    0    0    0    0    0    0    0    0    0    0    0    0
##     16    0    0    0    0    0    0    0    0    0    0    0    0
##     17    0    0    0    0    0    0    0    0    0    0    0    0
##     18    0    0    0    0    0    0    0    0    0    0    0    0
##     19    0    0    0    0    0    0    0    0    0    0    0    0
##     20    0    0    0    0    0    0    0    0    0    0    0    0
##     21    0    0    0    0    0    0    0    0    0    0    0    0
##     22    0    0    0    0    0    0    0    0    0    0    0    0
##     23    0    0    0    0    0    0    0    0    0    0    0    0
##     24    0    0    0    0    0    0    0    0    0    0    0    0
##     25    0    0    0    0    0    0    0    0    0    0    0    0
##     26    0    0    0    0    0    0    0    0    0    0    0    0
##     27    0    0    0    0    0    0    0    0    0    0    0    0
##     28    0    0    0    0    0    0    0    0    0    0    0    0
##     29    0    0    0    0    0    0    0    0    0    0    0    0
##     30    0    0    0    0    0    0    0    0    0    0    0    0
##     31    0    0    0    0    0    0    0    0    0    0    0    0
##     32    0    0    0    0    0    0    0    0    0    0    0    0
##     33    0    0    0    0    0    0    0    0    0    0    0    0
##     34    0    0    0    0    0    0    0    0    0    0    0    0
##     35    0    0    0    0    0    0    0    0    0    0    0    0
##     36    0    0    0    0    0    0    0    0    0    0    0    0
##     37    0    0    0    0    0    0    0    0    0    0    0    0
##     38    0    0    0    0    0    0    0    0    0    0    0    0
##     39    0    0    0    0    0    0    0    0    0    0    0    0
##     40    0    0    0    0    0    0    0    0    0    0    0    0
##     41    0    0    0    0    0    0    0    0    0    0    0    0
##     42    0    0    0    0    0    0    0    0    0    0    0    0
##     43    0    0    0    0    0    0    0    0    0    0    0    0
##     44    0    0    0    0    0    0    0    0    0    0    0    0
##     45    0    0    0    0    0    0    0    0    0    0    0    0
##     46    0    0    0    0    0    0    0    0    0    0    0    0
##     47    0    0    0    0    0    0    0    0    0    0    0    0
##     48    0    0    0    0    0    0    0    0    0    0    0    0
##     49    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 50    0    0    0    0    0    0    0    0    0    0    0    0
## 51    0    0    0    0    0    0    0    0    0    0    0    0
## 52    0    0    0    0    0    0    0    0    0    0    0    0
## 53    0    0    0    0    0    0    0    0    0    0    0    0
## 54    0    0    0    0    0    0    0    0    0    0    0    0
## 55    0    0    0    0    0    0    0    0    0    0    0    0
## 56    0    0    0    0    0    0    0    0    0    0    0    0
## 57    0    0    0    0    0    0    0    0    0    0    0    0
## 58    0    0    0    0    0    0    0    0    0    0    0    0
## 59    0    0    0    0    0    0    0    0    0    0    0    0
## 60    0    0    0    0    0    0    0    0    0    0    0    0
## 61    0    0    0    0    0    0    0    0    0    0    0    0
## 62    0    0    0    0    0    0    0    0    0    0    0    0
## 63    0    0    0    0    0    0    0    0    0    0    0    0
## 64    0    0    0    0    0    0    0    0    0    0    0    0
## 65    0    0    0    0    0    0    0    0    0    0    0    0
## 66    0    0    0    0    0    0    0    0    0    0    0    0
## 67    0    0    0    0    0    0    0    0    0    0    0    0
## 68    0    0    0    0    0    0    0    0    0    0    0    0
## 69    0    0    0    0    0    0    0    0    0    0    0    0
## 70    0    0    0    0    0    0    0    0    0    0    0    0
## 71    0    0    0    0    0    0    0    0    0    0    0    0
## 72    0    0    0    0    0    0    0    0    0    0    0    0
## 73    0    0    0    0    0    0    0    0    0    0    0    0
## 74    0    0    0    0    0    0    0    0    0    0    0    0
## 75    0    0    0    0    0    0    0    0    0    0    0    0
## 76    0    0    0    0    0    0    0    0    0    0    0    0
## 77    0    0    0    0    0    0    0    0    0    0    0    0
## 78    0    0    0    0    0    0    0    0    0    0    0    0
## 79    0    0    0    0    0    0    0    0    0    0    0    0
## 80    0    0    0    0    0    0    0    0    0    0    0    0
## 81    0    0    0    0    0    0    0    0    0    0    0    0
## 82    0    0    0    0    0    0    0    0    0    0    0    0
## 83    0    0    0    0    0    0    0    0    0    0    0    0
## 84    0    0    0    0    0    0    0    0    0    0    0    0
## 85    0    0    0    0    0    0    0    0    0    0    0    0
## 86    0    0    0    0    0    0    0    0    0    0    0    0
## 87    0    0    0    0    0    0    0    0    0    0    0    0
## 88    0    0    0    0    0    0    0    0    0    0    0    0
## 89    0    0    0    0    0    0    0    0    0    0    0    0
## 90    0    0    0    0    0    0    0    0    0    0    0    0
## 91    0    0    0    0    0    0    0    0    0    0    0    0
## 92    0    0    0    0    0    0    0    0    0    0    0    0
## 93    0    0    0    0    0    0    0    0    0    0    0    0
## 94    0    0    0    0    0    0    0    0    0    0    0    0
## 95    0    0    0    0    0    0    0    0    0    0    0    0
## 96    0    0    0    0    0    0    0    0    0    0    0    0
## 97    0    0    0    0    0    0    0    0    0    0    0    0
## 98    0    0    0    0    0    0    0    0    0    0    0    0
## 99    0    0    0    0    0    0    0    0    0    0    0    0
## 100   0    0    0    0    0    0    0    0    0    0    0    0
## 101   0    0    0    0    0    0    0    0    0    0    0    0
## 102   0    0    0    0    0    0    0    0    0    0    0    0
## 103   0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 104     0     0     0     0     0     0     0     0     0     0     0     0
## 105     0     0     0     0     0     0     0     0     0     0     0     0
## 106     0     0     0     0     0     0     0     0     0     0     0     0
## 107     0     0     0     0     0     0     0     0     0     0     0     0
## 108     0     0     0     0     0     0     0     0     0     0     0     0
## 109     0     0     0     0     0     0     0     0     0     0     0     0
## 110     0     0     0     0     0     0     0     0     0     0     0     0
## 111     0     0     0     0     0     0     0     0     0     0     0     0
## 112     0     0     0     0     0     0     0     0     0     0     0     0
## 113     0     0     0     0     0     0     0     0     0     0     0     0
## 114     0     0     0     0     0     0     0     0     0     0     0     0
## 115     0     0     0     0     0     0     0     0     0     0     0     0
## 116     0     0     0     0     0     0     0     0     0     0     0     0
## 117     0     0     0     0     0     0     0     0     0     0     0     0
## 118     0     0     0     0     0     0     0     0     0     0     0     0
## 119     0     0     0     0     0     0     0     0     0     0     0     0
## 120     0     0     0     0     0     0     0     0     0     0     0     0
## 121     0     0     0     0     0     0     0     0     0     0     0     0
## 122     0     0     0     0     0     0     0     0     0     0     0     0
## 123     0     0     0     0     0     0     0     0     0     0     0     0
## 124     0     0     0     0     0     0     0     0     0     0     0     0
## 125     0     0     0     0     0     0     0     0     0     0     0     0
## 126     0     0     0     0     0     0     0     0     0     0     0     0
## 127     0     0     0     0     0     0     0     0     0     0     0     0
## 128     0     0     0     0     0     0     0     0     0     0     0     0
## 129     0     0     0     0     0     0     0     0     0     0     0     0
## 130     0     0     0     0     0     0     0     0     0     0     0     0
## 131     0     0     0     0     0     0     0     0     0     0     0     0
## 132     0     0     0     0     0     0     0     0     0     0     0     0
## 133     0     0     0     0     0     0     0     0     0     0     0     0
## 134     0     0     0     0     0     0     0     0     0     0     0     0
## 135     0     0     0     0     0     0     0     0     0     0     0     0
## 136     0     0     0     0     0     0     0     0     0     0     0     0
## 137     0     0     0     0     0     0     0     0     0     0     0     0
## 138     0     0     0     0     0     0     0     0     0     0     0     0
## 139     0     0     0     0     0     0     0     0     0     0     0     0
## 140     0     0     0     0     0     0     0     0     0     0     0     0
## 141     0     0     0     0     0     0     0     0     0     0     0     0
## 142     0     0     0     0     0     0     0     0     0     0     0     0
## 143     0     0     0     0     0     0     0     0     0     0     0     0
## 144     0     0     0     0     0     0     0     0     0     0     0     0
## 145     0     0     0     0     0     0     0     0     0     0     0     0
## 146     0     0     0     0     0     0     0     0     0     0     0     0
## 147     0     0     0     0     0     0     0     0     0     0     0     0
## 148     0     0     0     0     0     0     0     0     0     0     0     0
## 149     0     0     0     0     0     0     0     0     0     0     0     0
## 150     0     0     0     0     0     0     0     0     0     0     0     0
## 151     0     0     0     0     0     0     0     0     0     0     0     0
## 152     0     0     0     0     0     0     0     0     0     0     0     0
## 153     0     0     0     0     0     0     0     0     0     0     0     0
## 154     0     0     0     0     0     0     0     0     0     0     0     0
## 155     0     0     0     0     0     0     0     0     0     0     0     0
## 156     0     0     0     0     0     0     0     0     0     0     0     0
## 157     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 158    0    0    0    0    0    0    0    0    0    0    0    0
## 159    0    0    0    0    0    0    0    0    0    0    0    0
## 160    0    0    0    0    0    0    0    0    0    0    0    0
## 161    0    0    0    0    0    0    0    0    0    0    0    0
## 162    0    0    0    0    0    0    0    0    0    0    0    0
## 163    0    0    0    0    0    0    0    0    0    0    0    0
## 164    0    0    0    0    0    0    0    0    0    0    0    0
## 165    0    0    0    0    0    0    0    0    0    0    0    0
## 166    0    0    0    0    0    0    0    0    0    0    0    0
## 167    0    0    0    0    0    0    0    0    0    0    0    0
## 168    0    0    0    0    0    0    0    0    0    0    0    0
## 169    0    0    0    0    0    0    0    0    0    0    0    0
## 170    0    0    0    0    0    0    0    0    0    0    0    0
## 171    0    0    0    0    0    0    0    0    0    0    0    0
## 172    0    0    0    0    0    0    0    0    0    0    0    0
## 173    0    0    0    0    0    0    0    0    0    0    0    0
## 174    0    0    0    0    0    0    0    0    0    0    0    0
## 175    0    0    0    0    0    0    0    0    0    0    0    0
## 176    0    0    0    0    0    0    0    0    0    0    0    0
## 177    0    0    0    0    0    0    0    0    0    0    0    0
## 178    0    0    0    0    0    0    0    0    0    0    0    0
## 179    0    0    0    0    0    0    0    0    0    0    0    0
## 180    0    0    0    0    0    0    0    0    0    0    0    0
## 181    0    0    0    0    0    0    0    0    0    0    0    0
## 182    0    0    0    0    0    0    0    0    0    0    0    0
## 183    0    0    0    0    0    0    0    0    0    0    0    0
## 184    0    0    0    0    0    0    0    0    0    0    0    0
## 185    0    0    0    0    0    0    0    0    0    0    0    0
## 186    0    0    0    0    0    0    0    0    0    0    0    0
## 187    0    0    0    0    0    0    0    0    0    0    0    0
## 188    0    0    0    0    0    0    0    0    0    0    0    0
## 189    0    0    0    0    0    0    0    0    0    0    0    0
## 190    0    0    0    0    0    0    0    0    0    0    0    0
## 191    0    0    0    0    0    0    0    0    0    0    0    0
## 192    0    0    0    0    0    0    0    0    0    0    0    0
## 193    0    0    0    0    0    0    0    0    0    0    0    0
## 194    0    0    0    0    0    0    0    0    0    0    0    0
## 195    0    0    0    0    0    0    0    0    0    0    0    0
## 196    0    0    0    0    0    0    0    0    0    0    0    0
## 197    0    0    0    0    0    0    0    0    0    0    0    0
## 198    0    0    0    0    0    0    0    0    0    0    0    0
## 199    0    0    0    0    0    0    0    0    0    0    0    0
## 200    0    0    0    0    0    0    0    0    0    0    0    0
## 201    0    0    0    0    0    0    0    0    0    0    0    0
## 202    0    0    0    0    0    0    0    0    0    0    0    0
## 203    0    0    0    0    0    0    0    0    0    0    0    0
## 204    0    0    0    0    0    0    0    0    0    0    0    0
## 205    0    0    0    0    0    0    0    0    0    0    0    0
## 206    0    0    0    0    0    0    0    0    0    0    0    0
## 207    0    0    0    0    0    0    0    0    0    0    0    0
## 208    0    0    0    0    0    0    0    0    0    0    0    0
## 209    0    0    0    0    0    0    0    0    0    0    0    0
## 210    0    0    0    0    0    0    0    0    0    0    0    0
## 211    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 212       0      0      0      0      0      0      0      0      0      0      0      0
## 213       0      0      0      0      0      0      0      0      0      0      0      0
## 214       0      0      0      0      0      0      0      0      0      0      0      0
## 215       0      0      0      0      0      0      0      0      0      0      0      0
## 216       0      0      0      0      0      0      0      0      0      0      0      0
## 217       0      0      0      0      0      0      0      0      0      0      0      0
## 218       0      0      0      0      0      0      0      0      0      0      0      0
## 219       0      0      0      0      0      0      0      0      0      0      0      0
## 220       0      0      0      0      0      0      0      0      0      0      0      0
## 221       0      0      0      0      0      0      0      0      0      0      0      0
## 222       0      0      0      0      0      0      0      0      0      0      0      0
## 223       0      0      0      0      0      0      0      0      0      0      0      0
## 224       0      0      0      0      0      0      0      0      0      0      0      0
## 225       0      0      0      0      0      0      0      0      0      0      0      0
## 226       0      0      0      0      0      0      0      0      0      0      0      0
## 227       0      0      0      0      0      0      0      0      0      0      0      0
## 228       0      0      0      0      0      0      0      0      0      0      0      0
## 229       0      0      0      0      0      0      0      0      0      0      0      0
## 230       0      0      0      0      0      0      0      0      0      0      0      0
## 231       0      0      0      0      0      0      0      0      0      0      0      0
## 232       0      0      0      0      0      0      0      0      0      0      0      0
## 233       0      0      0      0      0      0      0      0      0      0      0      0
## 234       0      0      0      0      0      0      0      0      0      0      0      0
## 235       0      0      0      0      0      0      0      0      0      0      0      0
## 236       0      0      0      0      0      0      0      0      0      0      0      0
## 237       0      0      0      0      0      0      0      0      0      0      0      0
## 238       0      0      0      0      0      0      0      0      0      0      0      0
## 239       0      0      0      0      0      0      0      0      0      0      0      0
## 240       0      0      0      0      0      0      0      0      0      0      0      0
## 241       0      0      0      0      0      0      0      0      0      0      0      0
## 242       0      0      0      0      0      0      0      0      0      0      0      0
## 243       0      0      0      0      0      0      0      0      0      0      0      0
## 244       0      0      0      0      0      0      0      0      0      0      0      0
## 245       0      0      0      0      0      0      0      0      0      0      0      0
## 246       0      0      0      0      0      0      0      0      0      0      0      0
## 247       0      0      0      0      0      0      0      0      0      0      0      0
## 248       0      0      0      0      0      0      0      0      0      0      0      0
## 249       0      0      0      0      0      0      0      0      0      0      0      0
## 250       0      0      0      0      0      0      0      0      0      0      0      0
## 251       0      0      0      0      0      0      0      0      0      0      0      0
## 252       0      0      0      0      0      0      0      0      0      0      0      0
## 253       0      0      0      0      0      0      0      0      0      0      0      0
## 254       0      0      0      0      0      0      0      0      0      0      0      0
## 255       0      0      0      0      0      0      0      0      0      0      0      0
## 256       0      0      0      0      0      0      0      0      0      0      0      0
## 257       0      0      0      0      0      0      0      0      0      0      0      0
## 258       0      0      0      0      0      0      0      0      0      0      0      0
## 259       0      0      0      0      0      0      0      0      0      0      0      0
## 260       0      0      0      0      0      0      0      0      0      0      0      0
## 261       0      0      0      0      0      0      0      0      0      0      0      0
## 262       0      0      0      0      0      0      0      0      0      0      0      0
## 263       0      0      0      0      0      0      0      0      0      0      0      0
## 264       0      0      0      0      0      0      0      0      0      0      0      0
## 265       0      0      0      0      0      0      0      0      0      0      0      0
```

##	266	0	0	0	0	0	0	0	0	0	0	0	0
##	267	0	0	0	0	0	0	0	0	0	0	0	0
##	268	0	0	0	0	0	0	0	0	0	0	0	0
##	269	0	0	0	0	0	0	0	0	0	0	0	0
##	270	0	0	0	0	0	0	0	0	0	0	0	0
##	271	0	0	0	0	0	0	0	0	0	0	0	0
##	272	0	0	0	0	0	0	0	0	0	0	0	0
##	273	0	0	0	0	0	0	0	0	0	0	0	0
##	274	0	0	0	0	0	0	0	0	0	0	0	0
##	275	0	0	0	0	0	0	0	0	0	0	0	0
##	276	0	0	0	0	0	0	0	0	0	0	0	0
##	277	0	0	0	0	0	0	0	0	0	0	0	0
##	278	0	0	0	0	0	0	0	0	0	0	0	0
##	279	0	0	0	0	0	0	0	0	0	0	0	0
##	280	0	0	0	0	0	0	0	0	0	0	0	0
##	281	0	0	0	0	0	0	0	0	0	0	0	0
##	282	0	0	0	0	0	0	0	0	0	0	0	0
##	283	0	0	0	0	0	0	0	0	0	0	0	0
##	284	0	0	0	0	0	0	0	0	0	0	0	0
##	285	0	0	0	0	0	0	0	0	0	0	0	0
##	286	0	0	0	0	0	0	0	0	0	0	0	0
##	287	0	0	0	0	0	0	0	0	0	0	0	0
##	288	0	0	0	0	0	0	0	0	0	0	0	0
##	289	0	0	0	0	0	0	0	0	0	0	0	0
##	290	0	0	0	0	0	0	0	0	0	0	0	0
##	291	0	0	0	0	0	0	0	0	0	0	0	0
##	292	0	0	0	0	0	0	0	0	0	0	0	0
##	293	0	0	0	0	0	0	0	0	0	0	0	0
##	294	0	0	0	0	0	0	0	0	0	0	0	0
##	295	0	0	0	0	0	0	0	0	0	0	0	0
##	296	0	0	0	0	0	0	0	0	0	0	0	0
##	297	0	0	0	0	0	0	0	0	0	0	0	0
##	298	0	0	0	0	0	0	0	0	0	0	0	0
##	299	0	0	0	0	0	0	0	0	0	0	0	0
##	300	0	0	0	0	0	0	0	0	0	0	0	0
##	301	0	0	0	0	0	0	0	0	0	0	0	0
##	302	0	0	0	0	0	0	0	0	0	0	0	0
##	303	0	0	0	0	0	0	0	0	0	0	0	0
##	304	0	0	0	0	0	0	0	0	0	0	0	0
##	305	0	0	0	0	0	0	0	0	0	0	0	0
##	306	0	0	0	0	0	0	0	0	0	0	0	0
##	307	0	0	0	0	0	0	0	0	0	0	0	0
##	308	0	0	0	0	0	0	0	0	0	0	0	0
##	309	0	0	0	0	0	0	0	0	0	0	0	0
##	310	0	0	0	0	0	0	0	0	0	0	0	0
##	311	0	0	0	0	0	0	0	0	0	0	0	0
##	312	0	0	0	0	0	0	0	0	0	0	0	0
##	313	0	0	0	0	0	0	0	0	0	0	0	0
##	314	0	0	0	0	0	0	0	0	0	0	0	0
##	315	0	0	0	0	0	0	0	0	0	0	0	0
##	316	0	0	0	0	0	0	0	0	0	0	0	0
##	317	0	0	0	0	0	0	0	0	0	0	0	0
##	318	0	0	0	0	0	0	0	0	0	0	0	0
##	319	0	0	0	0	0	0	0	0	0	0	0	0

```
## 320   0   0   0   0   0   0   0   0   0   0   0   0
## 321   0   0   0   0   0   0   0   0   0   0   0   0
## 322   0   0   0   0   0   0   0   0   0   0   0   0
## 323   0   0   0   0   0   0   0   0   0   0   0   0
## 324   0   0   0   0   0   0   0   0   0   0   0   0
## 325   0   0   0   0   0   0   0   0   0   0   0   0
## 326   0   0   0   0   0   0   0   0   0   0   0   0
## 327   0   0   0   0   0   0   0   0   0   0   0   0
## 328   0   0   0   0   0   0   0   0   0   0   0   0
## 329   0   0   0   0   0   0   0   0   0   0   0   0
## 330   0   0   0   0   0   0   0   0   0   0   0   0
## 331   0   0   0   0   0   0   0   0   0   0   0   0
## 332   0   0   0   0   0   0   0   0   0   0   0   0
## 333   0   0   0   0   0   0   0   0   0   0   0   0
## 334   0   0   0   0   0   0   0   0   0   0   0   0
## 335   0   0   0   0   0   0   0   0   0   0   0   0
## 336   0   0   0   0   0   0   0   0   0   0   0   0
## 337   0   0   0   0   0   0   0   0   0   0   0   0
## 338   0   0   0   0   0   0   0   0   0   0   0   0
## 339   0   0   0   0   0   0   0   0   0   0   0   0
## 340   0   0   0   0   0   0   0   0   0   0   0   0
## 341   0   0   0   0   0   0   0   0   0   0   0   0
## 342   0   0   0   0   0   0   0   0   0   0   0   0
## 343   0   0   0   0   0   0   0   0   0   0   0   0
## 344   0   0   0   0   0   0   0   0   0   0   0   0
## 345   0   0   0   0   0   0   0   0   0   0   0   0
## 346   0   0   0   0   0   0   0   0   0   0   0   0
## 347   0   0   0   0   0   0   0   0   0   0   0   0
## 348   0   0   0   0   0   0   0   0   0   0   0   0
## 349   0   0   0   0   0   0   0   0   0   0   0   0
## 350   0   0   0   0   0   0   0   0   0   0   0   0
## 351   0   0   0   0   0   0   0   0   0   0   0   0
## 352   0   0   0   0   0   0   0   0   0   0   0   0
## 353   0   0   0   0   0   0   0   0   0   0   0   0
## 354   0   0   0   0   0   0   0   0   0   0   0   0
## 355   0   0   0   0   0   0   0   0   0   0   0   0
## 356   0   0   0   0   0   0   0   0   0   0   0   0
## 357   0   0   0   0   0   0   0   0   0   0   0   0
## 358   0   0   0   0   0   0   0   0   0   0   0   0
## 359   0   0   0   0   0   0   0   0   0   0   0   0
## 360   0   0   0   0   0   0   0   0   0   0   0   0
## 361   0   0   0   0   0   0   0   0   0   0   0   0
## 362   0   0   0   0   0   0   0   0   0   0   0   0
## 363   0   0   0   0   0   0   0   0   0   0   0   0
## 364   0   0   0   0   0   0   0   0   0   0   0   0
## 365   0   0   0   0   0   0   0   0   0   0   0   0
## 366   0   0   0   0   0   0   0   0   0   0   0   0
## 367   0   0   0   0   0   0   0   0   0   0   0   0
## 368   0   0   0   0   0   0   0   0   0   0   0   0
## 369   0   0   0   0   0   0   0   0   0   0   0   0
## 370   0   0   0   0   0   0   0   0   0   0   0   0
## 371   0   0   0   0   0   0   0   0   0   0   0   0
## 372   0   0   0   0   0   0   0   0   0   0   0   0
## 373   0   0   0   0   0   0   0   0   0   0   0   0
```

##	374	0	0	0	0	0	0	0	0	0	0	0	0
##	375	0	0	0	0	0	0	0	0	0	0	0	0
##	376	0	0	0	0	0	0	0	0	0	0	0	0
##	377	0	0	0	0	0	0	0	0	0	0	0	0
##	378	0	0	0	0	0	0	0	0	0	0	0	0
##	379	0	0	0	0	0	0	0	0	0	0	0	0
##	380	0	0	0	0	0	0	0	0	0	0	0	0
##	381	0	0	0	0	0	0	0	0	0	0	0	0
##	382	0	0	0	0	0	0	0	0	0	0	0	0
##	383	0	0	0	0	0	0	0	0	0	0	0	0
##	384	0	0	0	0	0	0	0	0	0	0	0	0
##	385	0	0	0	0	0	0	0	0	0	0	0	0
##	386	0	0	0	0	0	0	0	0	0	0	0	0
##	387	0	0	0	0	0	0	0	0	0	0	0	0
##	388	0	0	0	0	0	0	0	0	0	0	0	0
##	389	0	0	0	0	0	0	0	0	0	0	0	0
##	390	0	0	0	0	0	0	0	0	0	0	0	0
##	391	0	0	0	0	0	0	0	0	0	0	0	0
##	392	0	0	0	0	0	0	0	0	0	0	0	0
##	393	0	0	0	0	0	0	0	0	0	0	0	0
##	394	0	0	0	0	0	0	0	0	0	0	0	0
##	395	0	0	0	0	0	0	0	0	0	0	0	0
##	396	0	0	0	0	0	0	0	0	0	0	0	0
##	397	0	0	0	0	0	0	0	0	0	0	0	0
##	398	0	0	0	0	0	0	0	0	0	0	0	0
##	399	0	0	0	0	0	0	0	0	0	0	0	0
##	400	0	0	0	0	0	0	0	0	0	0	0	0
##	401	0	0	0	0	0	0	0	0	0	0	0	0
##	402	0	0	0	0	0	0	0	0	0	0	0	0
##	403	0	0	0	0	0	0	0	0	0	0	0	0
##	404	0	0	0	0	0	0	0	0	0	0	0	0
##	405	0	0	0	0	0	0	0	0	0	0	0	0
##	406	0	0	0	0	0	0	0	0	0	0	0	0
##	407	0	0	0	0	0	0	0	0	0	0	0	0
##	408	0	0	0	0	0	0	0	0	0	0	0	0
##	409	0	0	0	0	0	0	0	0	0	0	0	0
##	410	0	0	0	0	0	0	0	0	0	0	0	0
##	411	0	0	0	0	0	0	0	0	0	0	0	0
##	412	0	0	0	0	0	0	0	0	0	0	0	0
##	413	0	0	0	0	0	0	0	0	0	0	0	0
##	414	0	0	0	0	0	0	0	0	0	0	0	0
##	415	0	0	0	0	0	0	0	0	0	0	0	0
##	416	0	0	0	0	0	0	0	0	0	0	0	0
##	417	0	0	0	0	0	0	0	0	0	0	0	0
##	418	0	0	0	0	0	0	0	0	0	0	0	0
##	419	0	0	0	0	0	0	0	0	0	0	0	0
##	420	0	0	0	0	0	0	0	0	0	0	0	0
##	421	0	0	0	0	0	0	0	0	0	0	0	0
##	422	0	0	0	0	0	0	0	0	0	0	0	0
##	423	0	0	0	0	0	0	0	0	0	0	0	0
##	424	0	0	0	0	0	0	0	0	0	0	0	0
##	425	0	0	0	0	0	0	0	0	0	0	0	0
##	426	0	0	0	0	0	0	0	0	0	0	0	0
##	427	0	0	0	0	0	0	0	0	0	0	0	0

```
## 428    0    0    0    0    0    0    0    0    0    0    0    0
## 429    0    0    0    0    0    0    0    0    0    0    0    0
## 430    0    0    0    0    0    0    0    0    0    0    0    0
## 431    0    0    0    0    0    0    0    0    0    0    0    0
## 432    0    0    0    0    0    0    0    0    0    0    0    0
## 433    0    0    0    0    0    0    0    0    0    0    0    0
## 434    0    0    0    0    0    0    0    0    0    0    0    0
## 435    0    0    0    0    0    0    0    0    0    0    0    0
## 436    0    0    0    0    0    0    0    0    0    0    0    0
## 437    0    0    0    0    0    0    0    0    0    0    0    0
## 438    0    0    0    0    0    0    0    0    0    0    0    0
## 439    0    0    0    0    0    0    0    0    0    0    0    0
## 440    0    0    0    0    0    0    0    0    0    0    0    0
## 441    0    0    0    0    0    0    0    0    0    0    0    0
## 442    0    0    0    0    0    0    0    0    0    0    0    0
## 443    0    0    0    0    0    0    0    0    0    0    0    0
## 444    0    0    0    0    0    0    0    0    0    0    0    0
## 445    0    0    0    0    0    0    0    0    0    0    0    0
## 446    0    0    0    0    0    0    0    0    0    0    0    0
## 447    0    0    0    0    0    0    0    0    0    0    0    0
## 448    0    0    0    0    0    0    0    0    0    0    0    0
## 449    0    0    0    0    0    0    0    0    0    0    0    0
## 450    0    0    0    0    0    0    0    0    0    0    0    0
## 451    0    0    0    0    0    0    0    0    0    0    0    0
## 452    0    0    0    0    0    0    0    0    0    0    0    0
## 453    0    0    0    0    0    0    0    0    0    0    0    0
## 454    0    0    0    0    0    0    0    0    0    0    0    0
## 455    0    0    0    0    0    0    0    0    0    0    0    0
## 456    0    0    0    0    0    0    0    0    0    0    0    0
## 457    0    0    0    0    0    0    0    0    0    0    0    0
## 458    0    0    0    0    0    0    0    0    0    0    0    0
## 459    0    0    0    0    0    0    0    0    0    0    0    0
## 460    0    0    0    0    0    0    0    0    0    0    0    0
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## 462    0    0    0    0    0    0    0    0    0    0    0    0
## 463    0    0    0    0    0    0    0    0    0    0    0    0
## 464    0    0    0    0    0    0    0    0    0    0    0    0
## 465    0    0    0    0    0    0    0    0    0    0    0    0
## 466    0    0    0    0    0    0    0    0    0    0    0    0
## 467    0    0    0    0    0    0    0    0    0    0    0    0
## 468    0    0    0    0    0    0    0    0    0    0    0    0
## 469    0    0    0    0    0    0    0    0    0    0    0    0
## 470    0    0    0    0    0    0    0    0    0    0    0    0
## 471    0    0    0    0    0    0    0    0    0    0    0    0
## 472    0    0    0    0    0    0    0    0    0    0    0    0
## 473    0    0    0    0    0    0    0    0    0    0    0    0
## 474    0    0    0    0    0    0    0    0    0    0    0    0
## 475    0    0    0    0    0    0    0    0    0    0    0    0
## 476    0    0    0    0    0    0    0    0    0    0    0    0
## 477    0    0    0    0    0    0    0    0    0    0    0    0
## 478    0    0    0    0    0    0    0    0    0    0    0    0
## 479    0    0    0    0    0    0    0    0    0    0    0    0
## 480    0    0    0    0    0    0    0    0    0    0    0    0
## 481    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 482    0    0    0    0    0    0    0    0    0    0    0    0
## 483    0    0    0    0    0    0    0    0    0    0    0    0
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## 491    0    0    0    0    0    0    0    0    0    0    0    0
## 492    0    0    0    0    0    0    0    0    0    0    0    0
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## 494    0    0    0    0    0    0    0    0    0    0    0    0
## 495    0    0    0    0    0    0    0    0    0    0    0    0
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## 497    0    0    0    0    0    0    0    0    0    0    0    0
## 498    0    0    0    0    0    0    0    0    0    0    0    0
## 499    0    0    0    0    0    0    0    0    0    0    0    0
## 500    0    0    0    0    0    0    0    0    0    0    0    0
## 501    0    0    0    0    0    0    0    0    0    0    0    0
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## 504    0    0    0    0    0    0    0    0    0    0    0    0
## 505    0    0    0    0    0    0    0    0    0    0    0    0
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## 507    0    0    0    0    0    0    0    0    0    0    0    0
## 508    0    0    0    0    0    0    0    0    0    0    0    0
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## 510    0    0    0    0    0    0    0    0    0    0    0    0
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## 512    0    0    0    0    0    0    0    0    0    0    0    0
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## 534    0    0    0    0    0    0    0    0    0    0    0    0
## 535    0    0    0    0    0    0    0    0    0    0    0    0
```

```
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## 541    0    0    0    0    0    0    0    0    0    0    0    0
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## 543    0    0    0    0    0    0    0    0    0    0    0    0
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## 555    0    0    0    0    0    0    0    0    0    0    0    0
## 556    0    0    0    0    0    0    0    0    0    0    0    0
## 557    0    0    0    0    0    0    0    0    0    0    0    0
## 558    0    0    0    0    0    0    0    0    0    0    0    0
## 559    0    0    0    0    0    0    0    0    0    0    0    0
## 560    0    0    0    0    0    0    0    0    0    0    0    0
## 561    0    0    0    0    0    0    0    0    0    0    0    0
## 562    0    0    0    0    0    0    0    0    0    0    0    0
## 563    0    0    0    0    0    0    0    0    0    0    0    0
## 564    0    0    0    0    0    0    0    0    0    0    0    0
## 565    0    0    0    0    0    0    0    0    0    0    0    0
## 566    0    0    0    0    0    0    0    0    0    0    0    0
## 567    0    0    0    0    0    0    0    0    0    0    0    0
## 568    0    0    0    0    0    0    0    0    0    0    0    0
## 569    0    0    0    0    0    0    0    0    0    0    0    0
## 570    0    0    0    0    0    0    0    0    0    0    0    0
## 571    0    0    0    0    0    0    0    0    0    0    0    0
## 572    0    0    0    0    0    0    0    0    0    0    0    0
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## 574    0    0    0    0    0    0    0    0    0    0    0    0
## 575    0    0    0    0    0    0    0    0    0    0    0    0
## 576    0    0    0    0    0    0    0    0    0    0    0    0
## 577    0    0    0    0    0    0    0    0    0    0    0    0
## 578    0    0    0    0    0    0    0    0    0    0    0    0
## 579    0    0    0    0    0    0    0    0    0    0    0    0
## 580    0    0    0    0    0    0    0    0    0    0    0    0
## 581    0    0    0    0    0    0    0    0    0    0    0    0
## 582    0    0    0    0    0    0    0    0    0    0    0    0
## 583    0    0    0    0    0    0    0    0    0    0    0    0
## 584    0    0    0    0    0    0    0    0    0    0    0    0
## 585    0    0    0    0    0    0    0    0    0    0    0    0
## 586    0    0    0    0    0    0    0    0    0    0    0    0
## 587    0    0    0    0    0    0    0    0    0    0    0    0
## 588    0    0    0    0    0    0    0    0    0    0    0    0
## 589    0    0    0    0    0    0    0    0    0    0    0    0
```

##	590	0	0	0	0	0	0	0	0	0	0	0	0
##	591	0	0	0	0	0	0	0	0	0	0	0	0
##	592	0	0	0	0	0	0	0	0	0	0	0	0
##	593	0	0	0	0	0	0	0	0	0	0	0	0
##	594	0	0	0	0	0	0	0	0	0	0	0	0
##	595	0	0	0	0	0	0	0	0	0	0	0	0
##	596	0	0	0	0	0	0	0	0	0	0	0	0
##	597	0	0	0	0	0	0	0	0	0	0	0	0
##	598	0	0	0	0	0	0	0	0	0	0	0	0
##	599	0	0	0	0	0	0	0	0	0	0	0	0
##	600	0	0	0	0	0	0	0	0	0	0	0	0
##	601	0	0	0	0	0	0	0	0	0	0	0	0
##	602	0	0	0	0	0	0	0	0	0	0	0	0
##	603	0	0	0	0	0	0	0	0	0	0	0	0
##	604	0	0	0	0	0	0	0	0	0	0	0	0
##	605	0	0	0	0	0	0	0	0	0	0	0	0
##	606	0	0	0	0	0	0	0	0	0	0	0	0
##	607	0	0	0	0	0	0	0	0	0	0	0	0
##	608	0	0	0	0	0	0	0	0	0	0	0	0
##	609	0	0	0	0	0	0	0	0	0	0	0	0
##	610	0	0	0	0	0	0	0	0	0	0	0	0
##	611	0	0	0	0	0	0	0	0	0	0	0	0
##	612	0	0	0	0	0	0	0	0	0	0	0	0
##	613	0	0	0	0	0	0	0	0	0	0	0	0
##	614	0	0	0	0	0	0	0	0	0	0	0	0
##	615	0	0	0	0	0	0	0	0	0	0	0	0
##	616	0	0	0	0	0	0	0	0	0	0	0	0
##	617	0	0	0	0	0	0	0	0	0	0	0	0
##	618	0	0	0	0	0	0	0	0	0	0	0	0
##	619	0	0	0	0	0	0	0	0	0	0	0	0
##	620	0	0	0	0	0	0	0	0	0	0	0	0
##	621	0	0	0	0	0	0	0	0	0	0	0	0
##	622	0	0	0	0	0	0	0	0	0	0	0	0
##	623	0	0	0	0	0	0	0	0	0	0	0	0
##	624	0	0	0	0	0	0	0	0	0	0	0	0
##	625	0	0	0	0	0	0	0	0	0	0	0	0
##	626	0	0	0	0	0	0	0	0	0	0	0	0
##	627	0	0	0	0	0	0	0	0	0	0	0	0
##	628	0	0	0	0	0	0	0	0	0	0	0	0
##	629	0	0	0	0	0	0	0	0	0	0	0	0
##	630	0	0	0	0	0	0	0	0	0	0	0	0
##	631	0	0	0	0	0	0	0	0	0	0	0	0
##	632	0	0	0	0	0	0	0	0	0	0	0	0
##	633	0	0	0	0	0	0	0	0	0	0	0	0
##	634	0	0	0	0	0	0	0	0	0	0	0	0
##	635	0	0	0	0	0	0	0	0	0	0	0	0
##	636	0	0	0	0	0	0	0	0	0	0	0	0
##	637	0	0	0	0	0	0	0	0	0	0	0	0
##	638	0	0	0	0	0	0	0	0	0	0	0	0
##	639	0	0	0	0	0	0	0	0	0	0	0	0
##	640	0	0	0	0	0	0	0	0	0	0	0	0
##	641	0	0	0	0	0	0	0	0	0	0	0	0
##	642	0	0	0	0	0	0	0	0	0	0	0	0
##	643	0	0	0	0	0	0	0	0	0	0	0	0

##	644	0	0	0	0	0	0	0	0	0	0	0	0
##	645	0	0	0	0	0	0	0	0	0	0	0	0
##	646	0	0	0	0	0	0	0	0	0	0	0	0
##	647	0	0	0	0	0	0	0	0	0	0	0	0
##	648	0	0	0	0	0	0	0	0	0	0	0	0
##	649	0	0	0	0	0	0	0	0	0	0	0	0
##	650	0	0	0	0	0	0	0	0	0	0	0	0
##	651	0	0	0	0	0	0	0	0	0	0	0	0
##	652	0	0	0	0	0	0	0	0	0	0	0	0
##	653	0	0	0	0	0	0	0	0	0	0	0	0
##	654	0	0	0	0	0	0	0	0	0	0	0	0
##	655	0	0	0	0	0	0	0	0	0	0	0	0
##	656	0	0	0	0	0	0	0	0	0	0	0	0
##	657	0	0	0	0	0	0	0	0	0	0	0	0
##	658	0	0	0	0	0	0	0	0	0	0	0	0
##	659	0	0	0	0	0	0	0	0	0	0	0	0
##	660	0	0	0	0	0	0	0	0	0	0	0	0
##	661	0	0	0	0	0	0	0	0	0	0	0	0
##	662	0	0	0	0	0	0	0	0	0	0	0	0
##	663	0	0	0	0	0	0	0	0	0	0	0	0
##	664	0	0	0	0	0	0	0	0	0	0	0	0
##	665	0	0	0	0	0	0	0	0	0	0	0	0
##	666	0	0	0	0	0	0	0	0	0	0	0	0
##	667	0	0	0	0	0	0	0	0	0	0	0	0
##	668	0	0	0	0	0	0	0	0	0	0	0	0
##	669	0	0	0	0	0	0	0	0	0	0	0	0
##	670	0	0	0	0	0	0	0	0	0	0	0	0
##	671	0	0	0	0	0	0	0	0	0	0	0	0
##	672	0	0	0	0	0	0	0	0	0	0	0	0
##	673	0	0	0	0	0	0	0	0	0	0	0	0
##	674	0	0	0	0	0	0	0	0	0	0	0	0
##	675	0	0	0	0	0	0	0	0	0	0	0	0
##	676	0	0	0	0	0	0	0	0	0	0	0	0
##	677	0	0	0	0	0	0	0	0	0	0	0	0
##	678	0	0	0	0	0	0	0	0	0	0	0	0
##	679	0	0	0	0	0	0	0	0	0	0	0	0
##	680	0	0	0	0	0	0	0	0	0	0	0	0
##	681	0	0	0	0	0	0	0	0	0	0	0	0
##	682	0	0	0	0	0	0	0	0	0	0	0	0
##	683	0	0	0	0	0	0	0	0	0	0	0	0
##	684	0	0	0	0	0	0	0	0	0	0	0	0
##	685	0	0	0	0	0	0	0	0	0	0	0	0
##	686	0	0	0	0	0	0	0	0	0	0	0	0
##	687	0	0	0	0	0	0	0	0	0	0	0	0
##	688	0	0	0	0	0	0	0	0	0	0	0	0
##	689	0	0	0	0	0	0	0	0	0	0	0	0
##	690	0	0	0	0	0	0	0	0	0	0	0	0
##	691	0	0	0	0	0	0	0	0	0	0	0	0
##	692	0	0	0	0	0	0	0	0	0	0	0	0
##	693	0	0	0	0	0	0	0	0	0	0	0	0
##	694	0	0	0	0	0	0	0	0	0	0	0	0
##	695	0	0	0	0	0	0	0	0	0	0	0	0
##	696	0	0	0	0	0	0	0	0	0	0	0	0
##	697	0	0	0	0	0	0	0	0	0	0	0	0

```
## 698      0    0    0    0    0    0    0    0    0    0    0    0
## 699      0    0    0    0    0    0    0    0    0    0    0    0
## 700      0    0    0    0    0    0    0    0    0    0    0    0
## 701      0    0    0    0    0    0    0    0    0    0    0    0
## 702      0    0    0    0    0    0    0    0    0    0    0    0
## 703      0    0    0    0    0    0    0    0    0    0    0    0
## 704      0    0    0    0    0    0    0    0    0    0    0    0
## 705      0    0    0    0    0    0    0    0    0    0    0    0
## 706      0    0    0    0    0    0    0    0    0    0    0    0
## 707      0    0    0    0    0    0    0    0    0    0    0    0
## 708      0    0    0    0    0    0    0    0    0    0    0    0
## 709      0    0    0    0    0    0    0    0    0    0    0    0
## 710      0    0    0    0    0    0    0    0    0    0    0    0
## 711      0    0    0    0    0    0    0    0    0    0    0    0
## 712      0    0    0    0    0    0    0    0    0    0    0    0
## 713      0    0    0    0    0    0    0    0    0    0    0    0
## 714      0    0    0    0    0    0    0    0    0    0    0    0
## 715      0    0    0    0    0    0    0    0    0    0    0    0
## 716      0    0    0    0    0    0    0    0    0    0    0    0
## 717      0    0    0    0    0    0    0    0    0    0    0    0
## 718      0    0    0    0    0    0    0    0    0    0    0    0
## 719      0    0    0    0    0    0    0    0    0    0    0    0
## 720      0    0    0    0    0    0    0    0    0    0    0    0
## 721      0    0    0    0    0    0    0    0    0    0    0    0
## 722      0    0    0    0    0    0    0    0    0    0    0    0
## 723      0    0    0    0    0    0    0    0    0    0    0    0
## 724      0    0    0    0    0    0    0    0    0    0    0    0
## 725      0    0    0    0    0    0    0    0    0    0    0    0
## 726      0    0    0    0    0    0    0    0    0    0    0    0
## 727      0    0    0    0    0    0    0    0    0    0    0    0
## 728      0    0    0    0    0    0    0    0    0    0    0    0
## 729      0    0    0    0    0    0    0    0    0    0    0    0
## 730      0    0    0    0    0    0    0    0    0    0    0    0
## 731      0    0    0    0    0    0    0    0    0    0    0    0
## 732      0    0    0    0    0    0    0    0    0    0    0    0
## 733      0    0    0    0    0    0    0    0    0    0    0    0
## 734      0    0    0    0    0    0    0    0    0    0    0    0
## 735      0    0    0    0    0    0    0    0    0    0    0    0
## 736      0    0    0    0    0    0    0    0    0    0    0    0
## 737      0    0    0    0    0    0    0    0    0    0    0    0
## 738      0    0    0    0    0    0    0    0    0    0    0    0
## 739      0    0    0    0    0    0    0    0    0    0    0    0
## 740      0    0    0    0    0    0    0    0    0    0    0    0
## 741      0    0    0    0    0    0    0    0    0    0    0    0
## 742      0    0    0    0    0    0    0    0    0    0    0    0
## 743      0    0    0    0    0    0    0    0    0    0    0    0
## 744      0    0    0    0    0    0    0    0    0    0    0    0
## 745      0    0    0    0    0    0    0    0    0    0    0    0
## 746      0    0    0    0    0    0    0    0    0    0    0    0
## 747      0    0    0    0    0    0    0    0    0    0    0    0
## 748      0    0    0    0    0    0    0    0    0    0    0    0
## 749      0    0    0    0    0    0    0    0    0    0    0    0
## 750      0    0    0    0    0    0    0    0    0    0    0    0
## 751      0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 752    0    0    0    0    0    0    0    0    0    0    0    0
## 753    0    0    0    0    0    0    0    0    0    0    0    0
## 754    0    0    0    0    0    0    0    0    0    0    0    0
## 755    0    0    0    0    0    0    0    0    0    0    0    0
## 756    0    0    0    0    0    0    0    0    0    0    0    0
## 757    0    0    0    0    0    0    0    0    0    0    0    0
## 758    0    0    0    0    0    0    0    0    0    0    0    0
## 759    0    0    0    0    0    0    0    0    0    0    0    0
## 760    0    0    0    0    0    0    0    0    0    0    0    0
## 761    0    0    0    0    0    0    0    0    0    0    0    0
## 762    0    0    0    0    0    0    0    0    0    0    0    0
## 763    0    0    0    0    0    0    0    0    0    0    0    0
## 764    0    0    0    0    0    0    0    0    0    0    0    0
## 765    0    0    0    0    0    0    0    0    0    0    0    0
## 766    0    0    0    0    0    0    0    0    0    0    0    0
## 767    0    0    0    0    0    0    0    0    0    0    0    0
## 768    0    0    0    0    0    0    0    0    0    0    0    0
## 769    0    0    0    0    0    0    0    0    0    0    0    0
## 770    0    0    0    0    0    0    0    0    0    0    0    0
## 771    0    0    0    0    0    0    0    0    0    0    0    0
## 772    0    0    0    0    0    0    0    0    0    0    0    0
## 773    0    0    0    0    0    0    0    0    0    0    0    0
## 774    0    0    0    0    0    0    0    0    0    0    0    0
## 775    0    0    0    0    0    0    0    0    0    0    0    0
## 776    0    0    0    0    0    0    0    0    0    0    0    0
## 777    0    0    0    0    0    0    0    0    0    0    0    0
## 778    0    0    0    0    0    0    0    0    0    0    0    0
## 779    0    0    0    0    0    0    0    0    0    0    0    0
## 780    0    0    0    0    0    0    0    0    0    0    0    0
## 781    0    0    0    0    0    0    0    0    0    0    0    0
## 782    0    0    0    0    0    0    0    0    0    0    0    0
## 783    0    0    0    0    0    0    0    0    0    0    0    0
## 784    0    0    0    0    0    0    0    0    0    0    0    0
## 785    0    0    0    0    0    0    0    0    0    0    0    0
## 786    0    0    0    0    0    0    0    0    0    0    0    0
## 787    0    0    0    0    0    0    0    0    0    0    0    0
## 788    0    0    0    0    0    0    0    0    0    0    0    0
## 789    0    0    0    0    0    0    0    0    0    0    0    0
## 790    0    0    0    0    0    0    0    0    0    0    0    0
## 791    0    0    0    0    0    0    0    0    0    0    0    0
## 792    0    0    0    0    0    0    0    0    0    0    0    0
## 793    0    0    0    0    0    0    0    0    0    0    0    0
## 794    0    0    0    0    0    0    0    0    0    0    0    0
## 795    0    0    0    0    0    0    0    0    0    0    0    0
## 796    0    0    0    0    0    0    0    0    0    0    0    0
## 797    0    0    0    0    0    0    0    0    0    0    0    0
## 798    0    0    0    0    0    0    0    0    0    0    0    0
## 799    0    0    0    0    0    0    0    0    0    0    0    0
## 800    0    0    0    0    0    0    0    0    0    0    0    0
## 801    0    0    0    0    0    0    0    0    0    0    0    0
## 802    0    0    0    0    0    0    0    0    0    0    0    0
## 803    0    0    0    0    0    0    0    0    0    0    0    0
## 804    0    0    0    0    0    0    0    0    0    0    0    0
## 805    0    0    0    0    0    0    0    0    0    0    0    0
```

```
##   806      0      0      0      0      0      0      0      0      0      0      0      0
##   807      0      0      0      0      0      0      0      0      0      0      0      0
##   808      0      0      0      0      0      0      0      0      0      0      0      0
##   809      0      0      0      0      0      0      0      0      0      0      0      0
##   810      0      0      0      0      0      0      0      0      0      0      0      0
##   811      0      0      0      0      0      0      0      0      0      0      0      0
##   812      0      0      0      0      0      0      0      0      0      0      0      0
##   813      0      0      0      0      0      0      0      0      0      0      0      0
##   814      0      0      0      0      0      0      0      0      0      0      0      0
##   815      0      0      0      0      0      0      0      0      0      0      0      0
##   816      0      0      0      0      0      0      0      0      0      0      0      0
##   817      0      0      0      0      0      0      0      0      0      0      0      0
##   818      0      0      0      0      0      0      0      0      0      0      0      0
##   819      0      0      0      0      0      0      0      0      0      0      0      0
##   820      0      0      0      0      0      0      0      0      0      0      0      0
##   821      0      0      0      0      0      0      0      0      0      0      0      0
##   822      0      0      0      0      0      0      0      0      0      0      0      0
##   823      0      0      0      0      0      0      0      0      0      0      0      0
##   824      0      0      0      0      0      0      0      0      0      0      0      0
##   825      0      0      0      0      0      0      0      0      0      0      0      0
##   826      0      0      0      0      0      0      0      0      0      0      0      0
##   827      0      0      0      0      0      0      0      0      0      0      0      0
##   828      0      0      0      0      0      0      0      0      0      0      0      0
##   829      0      0      0      0      0      0      0      0      0      0      0      0
##   830      0      0      0      0      0      0      0      0      0      0      0      0
##   831      0      0      0      0      0      0      0      0      0      0      0      0
##   832      0      0      0      0      0      0      0      0      0      0      0      0
##   833      0      0      0      0      0      0      0      0      0      0      0      0
##   834      0      0      0      0      0      0      0      0      0      0      0      0
##   835      0      0      0      0      0      0      0      0      0      0      0      0
##   836      0      0      0      0      0      0      0      0      0      0      0      0
##   837      0      0      0      0      0      0      0      0      0      0      0      0
##   838      0      0      0      0      0      0      0      0      0      0      0      0
##   839      0      0      0      0      0      0      0      0      0      0      0      0
##   840      0      0      0      0      0      0      0      0      0      0      0      0
##   841      0      0      0      0      0      0      0      0      0      0      0      0
##   842      0      0      0      0      0      0      0      0      0      0      0      0
##   843      0      0      0      0      0      0      0      0      0      0      0      0
##   844      0      0      0      0      0      0      0      0      0      0      0      0
##   845      0      0      0      0      0      0      0      0      0      0      0      0
##   846      0      0      0      0      0      0      0      0      0      0      0      0
##   847      0      0      0      0      0      0      0      0      0      0      0      0
##   848      0      0      0      0      0      0      0      0      0      0      0      0
##   849      0      0      0      0      0      0      0      0      0      0      0      0
##   850      0      0      0      0      0      0      0      0      0      0      0      0
##   851      0      0      0      0      0      0      0      0      0      0      0      0
##   852      0      0      0      0      0      0      0      0      0      0      0      0
##   853      0      0      0      0      0      0      0      0      0      0      0      0
##   854      0      0      0      0      0      0      0      0      0      0      0      0
##   855      0      0      0      0      0      0      0      0      0      0      0      0
##   856      0      0      0      0      0      0      0      0      0      0      0      0
##   857      0      0      0      0      0      0      0      0      0      0      0      0
##   858      0      0      0      0      0      0      0      0      0      0      0      0
##   859      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 860      0     0     0     0     0     0     0     0     0     0     0     0
## 861      0     0     0     0     0     0     0     0     0     0     0     0
## 862      0     0     0     0     0     0     0     0     0     0     0     0
## 863      0     0     0     0     0     0     0     0     0     0     0     0
## 864      0     0     0     0     0     0     0     0     0     0     0     0
## 865      0     0     0     0     0     0     0     0     0     0     0     0
## 866      0     0     0     0     0     0     0     0     0     0     0     0
## 867      0     0     0     0     0     0     0     0     0     0     0     0
## 868      0     0     0     0     0     0     0     0     0     0     0     0
## 869      0     0     0     0     0     0     0     0     0     0     0     0
## 870      0     0     0     0     0     0     0     0     0     0     0     0
## 871      0     0     0     0     0     0     0     0     0     0     0     0
## 872      0     0     0     0     0     0     0     0     0     0     0     0
## 873      0     0     0     0     0     0     0     0     0     0     0     0
## 874      0     0     0     0     0     0     0     0     0     0     0     0
## 875      0     0     0     0     0     0     0     0     0     0     0     0
## 876      0     0     0     0     0     0     0     0     0     0     0     0
## 877      0     0     0     0     0     0     0     0     0     0     0     0
## 878      0     0     0     0     0     0     0     0     0     0     0     0
## 879      0     0     0     0     0     0     0     0     0     0     0     0
## 880      0     0     0     0     0     0     0     0     0     0     0     0
## 881      0     0     0     0     0     0     0     0     0     0     0     0
## 882      0     0     0     0     0     0     0     0     0     0     0     0
## 883      0     0     0     0     0     0     0     0     0     0     0     0
## 884      0     0     0     0     0     0     0     0     0     0     0     0
## 885      0     0     0     0     0     0     0     0     0     0     0     0
## 886      0     0     0     0     0     0     0     0     0     0     0     0
## 887      0     0     0     0     0     0     0     0     0     0     0     0
## 888      0     0     0     0     0     0     0     0     0     0     0     0
## 889      0     0     0     0     0     0     0     0     0     0     0     0
## 890      0     0     0     0     0     0     0     0     0     0     0     0
## 891      0     0     0     0     0     0     0     0     0     0     0     0
## 892      0     0     0     0     0     0     0     0     0     0     0     0
## 893      0     0     0     0     0     0     0     0     0     0     0     0
## 894      0     0     0     0     0     0     0     0     0     0     0     0
## 895      0     0     0     0     0     0     0     0     0     0     0     0
## 896      0     0     0     0     0     0     0     0     0     0     0     0
## 897      0     0     0     0     0     0     0     0     0     0     0     0
## 898      0     0     0     0     0     0     0     0     0     0     0     0
## 899      0     0     0     0     0     0     0     0     0     0     0     0
## 900      0     0     0     0     0     0     0     0     0     0     0     0
## 901      0     0     0     0     0     0     0     0     0     0     0     0
## 902      0     0     0     0     0     0     0     0     0     0     0     0
## 903      0     0     0     0     0     0     0     0     0     0     0     0
## 904      0     0     0     0     0     0     0     0     0     0     0     0
## 905      0     0     0     0     0     0     0     0     0     0     0     0
## 906      0     0     0     0     0     0     0     0     0     0     0     0
## 907      0     0     0     0     0     0     0     0     0     0     0     0
## 908      0     0     0     0     0     0     0     0     0     0     0     0
## 909      0     0     0     0     0     0     0     0     0     0     0     0
## 910      0     0     0     0     0     0     0     0     0     0     0     0
## 911      0     0     0     0     0     0     0     0     0     0     0     0
## 912      0     0     0     0     0     0     0     0     0     0     0     0
## 913      0     0     0     0     0     0     0     0     0     0     0     0
```

##	914	0	0	0	0	0	0	0	0	0	0	0	0
##	915	0	0	0	0	0	0	0	0	0	0	0	0
##	916	0	0	0	0	0	0	0	0	0	0	0	0
##	917	0	0	0	0	0	0	0	0	0	0	0	0
##	918	0	0	0	0	0	0	0	0	0	0	0	0
##	919	0	0	0	0	0	0	0	0	0	0	0	0
##	920	0	0	0	0	0	0	0	0	0	0	0	0
##	921	0	0	0	0	0	0	0	0	0	0	0	0
##	922	0	0	0	0	0	0	0	0	0	0	0	0
##	923	0	0	0	0	0	0	0	0	0	0	0	0
##	924	0	0	0	0	0	0	0	0	0	0	0	0
##	925	0	0	0	0	0	0	0	0	0	0	0	0
##	926	0	0	0	0	0	0	0	0	0	0	0	0
##	927	0	0	0	0	0	0	0	0	0	0	0	0
##	928	0	0	0	0	0	0	0	0	0	0	0	0
##	929	0	0	0	0	0	0	0	0	0	0	0	0
##	930	0	0	0	0	0	0	0	0	0	0	0	0
##	931	0	0	0	0	0	0	0	0	0	0	0	0
##	932	0	0	0	0	0	0	0	0	0	0	0	0
##	933	0	0	0	0	0	0	0	0	0	0	0	0
##	934	0	0	0	0	0	0	0	0	0	0	0	0
##	935	0	0	0	0	0	0	0	0	0	0	0	0
##	936	0	0	0	0	0	0	0	0	0	0	0	0
##	937	0	0	0	0	0	0	0	0	0	0	0	0
##	938	0	0	0	0	0	0	0	0	0	0	0	0
##	939	0	0	0	0	0	0	0	0	0	0	0	0
##	940	0	0	0	0	0	0	0	0	0	0	0	0
##	941	0	0	0	0	0	0	0	0	0	0	0	0
##	942	0	0	0	0	0	0	0	0	0	0	0	0
##	943	0	0	0	0	0	0	0	0	0	0	0	0
##	944	0	0	0	0	0	0	0	0	0	0	0	0
##	945	0	0	0	0	0	0	0	0	0	0	0	0
##	946	0	0	0	0	0	0	0	0	0	0	0	0
##	947	0	0	0	0	0	0	0	0	0	0	0	0
##	948	0	0	0	0	0	0	0	0	0	0	0	0
##	949	0	0	0	0	0	0	0	0	0	0	0	0
##	950	0	0	0	0	0	0	0	0	0	0	0	0
##	951	0	0	0	0	0	0	0	0	0	0	0	0
##	952	0	0	0	0	0	0	0	0	0	0	0	0
##	953	0	0	0	0	0	0	0	0	0	0	0	0
##	954	0	0	0	0	0	0	0	0	0	0	0	0
##	955	0	0	0	0	0	0	0	0	0	0	0	0
##	956	0	0	0	0	0	0	0	0	0	0	0	0
##	957	0	0	0	0	0	0	0	0	0	0	0	0
##	958	0	0	0	0	0	0	0	0	0	0	0	0
##	959	0	0	0	0	0	0	0	0	0	0	0	0
##	960	0	0	0	0	0	0	0	0	0	0	0	0
##	961	0	0	0	0	0	0	0	0	0	0	0	0
##	962	0	0	0	0	0	0	0	0	0	0	0	0
##	963	0	0	0	0	0	0	0	0	0	0	0	0
##	964	0	0	0	0	0	0	0	0	0	0	0	0
##	965	0	0	0	0	0	0	0	0	0	0	0	0
##	966	0	0	0	0	0	0	0	0	0	0	0	0
##	967	0	0	0	0	0	0	0	0	0	0	0	0

```
##    968    0    0    0    0    0    0    0    0    0    0    0    0
##    969    0    0    0    0    0    0    0    0    0    0    0    0
##    970    0    0    0    0    0    0    0    0    0    0    0    0
##    971    0    0    0    0    0    0    0    0    0    0    0    0
##    972    0    0    0    0    0    0    0    0    0    0    0    0
##    973    0    0    0    0    0    0    0    0    0    0    0    0
##    974    0    0    0    0    0    0    0    0    0    0    0    0
##    975    0    0    0    0    0    0    0    0    0    0    0    0
##    976    0    0    0    0    0    0    0    0    0    0    0    0
##    977    0    0    0    0    0    0    0    0    0    0    0    0
##    978    0    0    0    0    0    0    0    0    0    0    0    0
##    979    0    0    0    0    0    0    0    0    0    0    0    0
##    980    0    0    0    0    0    0    0    0    0    0    0    0
##    981    0    0    0    0    0    0    0    0    0    0    0    0
##    982    0    0    0    0    0    0    0    0    0    0    0    0
##    983    0    0    0    0    0    0    0    0    0    0    0    0
##    984    0    0    0    0    0    0    0    0    0    0    0    0
##    985    0    0    0    0    0    0    0    0    0    0    0    0
##    986    0    0    0    0    0    0    0    0    0    0    0    0
##    987    0    0    0    0    0    0    0    0    0    0    0    0
##    988    0    0    0    0    0    0    0    0    0    0    0    0
##    989    0    0    0    0    0    0    0    0    0    0    0    0
##    990    0    0    0    0    0    0    0    0    0    0    0    0
##    991    0    0    0    0    0    0    0    0    0    0    0    0
##    992    0    0    0    0    0    0    0    0    0    0    0    0
##    993    0    0    0    0    0    0    0    0    0    0    0    0
##    994    0    0    0    0    0    0    0    0    0    0    0    0
##    995    0    0    0    0    0    0    0    0    0    0    0    0
##    996    0    0    0    0    0    0    0    0    0    0    0    0
##    997    0    0    0    0    0    0    0    0    0    0    0    0
##    998    0    0    0    0    0    0    0    0    0    0    0    0
##    999    0    0    0    0    0    0    0    0    0    0    0    0
##   1000    0    0    0    0    0    0    0    0    0    0    0    0
##   1001    0    0    0    0    0    0    0    0    0    0    0    0
##   1002    0    0    0    0    0    0    0    0    0    0    0    0
##   1003    0    0    0    0    0    0    0    0    0    0    0    0
##   1004    0    0    0    0    0    0    0    0    0    0    0    0
##   1005    0    0    0    0    0    0    0    0    0    0    0    0
##   1006    0    0    0    0    0    0    0    0    0    0    0    0
##   1007    0    0    0    0    0    0    0    0    0    0    0    0
##   1008    0    0    0    0    0    0    0    0    0    0    0    0
##   1009    0    0    0    0    0    0    0    0    0    0    0    0
##   1010    0    0    0    0    0    0    0    0    0    0    0    0
##   1011    0    0    0    0    0    0    0    0    0    0    0    0
##   1012    0    0    0    0    0    0    0    0    0    0    0    0
##   1013    0    0    0    0    0    0    0    0    0    0    0    0
##   1014    0    0    0    0    0    0    0    0    0    0    0    0
##   1015    0    0    0    0    0    0    0    0    0    0    0    0
##   1016    0    0    0    0    0    0    0    0    0    0    0    0
##   1017    0    0    0    0    0    0    0    0    0    0    0    0
##   1018    0    0    0    0    0    0    0    0    0    0    0    0
##   1019    0    0    0    0    0    0    0    0    0    0    0    0
##   1020    0    0    0    0    0    0    0    0    0    0    0    0
##   1021    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1022      0    0    0    0    0    0    0    0    0    0    0    0
## 1023      0    0    0    0    0    0    0    0    0    0    0    0
## 1024      0    0    0    0    0    0    0    0    0    0    0    0
## 1025      0    0    0    0    0    0    0    0    0    0    0    0
## 1026      0    0    0    0    0    0    0    0    0    0    0    0
## 1027      0    0    0    0    0    0    0    0    0    0    0    0
## 1028      0    0    0    0    0    0    0    0    0    0    0    0
## 1029      0    0    0    0    0    0    0    0    0    0    0    0
## 1030      0    0    0    0    0    0    0    0    0    0    0    0
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## 1032      0    0    0    0    0    0    0    0    0    0    0    0
## 1033      0    0    0    0    0    0    0    0    0    0    0    0
## 1034      0    0    0    0    0    0    0    0    0    0    0    0
## 1035      0    0    0    0    0    0    0    0    0    0    0    0
## 1036      0    0    0    0    0    0    0    0    0    0    0    0
## 1037      0    0    0    0    0    0    0    0    0    0    0    0
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## 1039      0    0    0    0    0    0    0    0    0    0    0    0
## 1040      0    0    0    0    0    0    0    0    0    0    0    0
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## 1042      0    0    0    0    0    0    0    0    0    0    0    0
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## 1044      0    0    0    0    0    0    0    0    0    0    0    0
## 1045      0    0    0    0    0    0    0    0    0    0    0    0
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## 1050      0    0    0    0    0    0    0    0    0    0    0    0
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## 1052      0    0    0    0    0    0    0    0    0    0    0    0
## 1053      0    0    0    0    0    0    0    0    0    0    0    0
## 1054      0    0    0    0    0    0    0    0    0    0    0    0
## 1055      0    0    0    0    0    0    0    0    0    0    0    0
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## 1062      0    0    0    0    0    0    0    0    0    0    0    0
## 1063      0    0    0    0    0    0    0    0    0    0    0    0
## 1064      0    0    0    0    0    0    0    0    0    0    0    0
## 1065      0    0    0    0    0    0    0    0    0    0    0    0
## 1066      0    0    0    0    0    0    0    0    0    0    0    0
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## 1068      0    0    0    0    0    0    0    0    0    0    0    0
## 1069      0    0    0    0    0    0    0    0    0    0    0    0
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## 1071      0    0    0    0    0    0    0    0    0    0    0    0
## 1072      0    0    0    0    0    0    0    0    0    0    0    0
## 1073      0    0    0    0    0    0    0    0    0    0    0    0
## 1074      0    0    0    0    0    0    0    0    0    0    0    0
## 1075      0    0    0    0    0    0    0    0    0    0    0    0
```

```
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## 1077      0      0      0      0      0      0      0      0      0      0      0      0
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## 1089      0      0      0      0      0      0      0      0      0      0      0      0
## 1090      0      0      0      0      0      0      0      0      0      0      0      0
## 1091      0      0      0      0      0      0      0      0      0      0      0      0
## 1092      0      0      0      0      0      0      0      0      0      0      0      0
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## 1095      0      0      0      0      0      0      0      0      0      0      0      0
## 1096      0      0      0      0      0      0      0      0      0      0      0      0
## 1097      0      0      0      0      0      0      0      0      0      0      0      0
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## 1099      0      0      0      0      0      0      0      0      0      0      0      0
## 1100      0      0      0      0      0      0      0      0      0      0      0      0
## 1101      0      0      0      0      0      0      0      0      0      0      0      0
## 1102      0      0      0      0      0      0      0      0      0      0      0      0
## 1103      0      0      0      0      0      0      0      0      0      0      0      0
## 1104      0      0      0      0      0      0      0      0      0      0      0      0
## 1105      0      0      0      0      0      0      0      0      0      0      0      0
## 1106      0      0      0      0      0      0      0      0      0      0      0      0
## 1107      0      0      0      0      0      0      0      0      0      0      0      0
## 1108      0      0      0      0      0      0      0      0      0      0      0      0
## 1109      0      0      0      0      0      0      0      0      0      0      0      0
## 1110      0      0      0      0      0      0      0      0      0      0      0      0
## 1111      0      0      0      0      0      0      0      0      0      0      0      0
## 1112      0      0      0      0      0      0      0      0      0      0      0      0
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## 1114      0      0      0      0      0      0      0      0      0      0      0      0
## 1115      0      0      0      0      0      0      0      0      0      0      0      0
## 1116      0      0      0      0      0      0      0      0      0      0      0      0
## 1117      0      0      0      0      0      0      0      0      0      0      0      0
## 1118      0      0      0      0      0      0      0      0      0      0      0      0
## 1119      0      0      0      0      0      0      0      0      0      0      0      0
## 1120      0      0      0      0      0      0      0      0      0      0      0      0
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## 1122      0      0      0      0      0      0      0      0      0      0      0      0
## 1123      0      0      0      0      0      0      0      0      0      0      0      0
## 1124      0      0      0      0      0      0      0      0      0      0      0      0
## 1125      0      0      0      0      0      0      0      0      0      0      0      0
## 1126      0      0      0      0      0      0      0      0      0      0      0      0
## 1127      0      0      0      0      0      0      0      0      0      0      0      0
## 1128      0      0      0      0      0      0      0      0      0      0      0      0
## 1129      0      0      0      0      0      0      0      0      0      0      0      0
```

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##	1131	0	0	0	0	0	0	0	0	0	0	0	0
##	1132	0	0	0	0	0	0	0	0	0	0	0	0
##	1133	0	0	0	0	0	0	0	0	0	0	0	0
##	1134	0	0	0	0	0	0	0	0	0	0	0	0
##	1135	0	0	0	0	0	0	0	0	0	0	0	0
##	1136	0	0	0	0	0	0	0	0	0	0	0	0
##	1137	0	0	0	0	0	0	0	0	0	0	0	0
##	1138	0	0	0	0	0	0	0	0	0	0	0	0
##	1139	0	0	0	0	0	0	0	0	0	0	0	0
##	1140	0	0	0	0	0	0	0	0	0	0	0	0
##	1141	0	0	0	0	0	0	0	0	0	0	0	0
##	1142	0	0	0	0	0	0	0	0	0	0	0	0
##	1143	0	0	0	0	0	0	0	0	0	0	0	0
##	1144	0	0	0	0	0	0	0	0	0	0	0	0
##	1145	0	0	0	0	0	0	0	0	0	0	0	0
##	1146	0	0	0	0	0	0	0	0	0	0	0	0
##	1147	0	0	0	0	0	0	0	0	0	0	0	0
##	1148	0	0	0	0	0	0	0	0	0	0	0	0
##	1149	0	0	0	0	0	0	0	0	0	0	0	0
##	1150	0	0	0	0	0	0	0	0	0	0	0	0
##	1151	0	0	0	0	0	0	0	0	0	0	0	0
##	1152	0	0	0	0	0	0	0	0	0	0	0	0
##	1153	0	0	0	0	0	0	0	0	0	0	0	0
##	1154	0	0	0	0	0	0	0	0	0	0	0	0
##	1155	0	0	0	0	0	0	0	0	0	0	0	0
##	1156	0	0	0	0	0	0	0	0	0	0	0	0
##	1157	0	0	0	0	0	0	0	0	0	0	0	0
##	1158	0	0	0	0	0	0	0	0	0	0	0	0
##	1159	0	0	0	0	0	0	0	0	0	0	0	0
##	1160	0	0	0	0	0	0	0	0	0	0	0	0
##	1161	0	0	0	0	0	0	0	0	0	0	0	0
##	1162	0	0	0	0	0	0	0	0	0	0	0	0
##	1163	0	0	0	0	0	0	0	0	0	0	0	0
##	1164	0	0	0	0	0	0	0	0	0	0	0	0
##	1165	0	0	0	0	0	0	0	0	0	0	0	0
##	1166	0	0	0	0	0	0	0	0	0	0	0	0
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##	1170	0	0	0	0	0	0	0	0	0	0	0	0
##	1171	0	0	0	0	0	0	0	0	0	0	0	0
##	1172	0	0	0	0	0	0	0	0	0	0	0	0
##	1173	0	0	0	0	0	0	0	0	0	0	0	0
##	1174	0	0	0	0	0	0	0	0	0	0	0	0
##	1175	0	0	0	0	0	0	0	0	0	0	0	0
##	1176	0	0	0	0	0	0	0	0	0	0	0	0
##	1177	0	0	0	0	0	0	0	0	0	0	0	0
##	1178	0	0	0	0	0	0	0	0	0	0	0	0
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##	1180	0	0	0	0	0	0	0	0	0	0	0	0
##	1181	0	0	0	0	0	0	0	0	0	0	0	0
##	1182	0	0	0	0	0	0	0	0	0	0	0	0
##	1183	0	0	0	0	0	0	0	0	0	0	0	0

##	1184	0	0	0	0	0	0	0	0	0	0	0	0
##	1185	0	0	0	0	0	0	0	0	0	0	0	0
##	1186	0	0	0	0	0	0	0	0	0	0	0	0
##	1187	0	0	0	0	0	0	0	0	0	0	0	0
##	1188	0	0	0	0	0	0	0	0	0	0	0	0
##	1189	0	0	0	0	0	0	0	0	0	0	0	0
##	1190	0	0	0	0	0	0	0	0	0	0	0	0
##	1191	0	0	0	0	0	0	0	0	0	0	0	0
##	1192	0	0	0	0	0	0	0	0	0	0	0	0
##	1193	0	0	0	0	0	0	0	0	0	0	0	0
##	1194	0	0	0	0	0	0	0	0	0	0	0	0
##	1195	0	0	0	0	0	0	0	0	0	0	0	0
##	1196	0	0	0	0	0	0	0	0	0	0	0	0
##	1197	0	0	0	0	0	0	0	0	0	0	0	0
##	1198	0	0	0	0	0	0	0	0	0	0	0	0
##	1199	0	0	0	0	0	0	0	0	0	0	0	0
##	1200	0	0	0	0	0	0	0	0	0	0	0	0
##	1201	0	0	0	0	0	0	0	0	0	0	0	0
##	1202	0	0	0	0	0	0	0	0	0	0	0	0
##	1203	0	0	0	0	0	0	0	0	0	0	0	0
##	1204	0	0	0	0	0	0	0	0	0	0	0	0
##	1205	0	0	0	0	0	0	0	0	0	0	0	0
##	1206	0	0	0	0	0	0	0	0	0	0	0	0
##	1207	0	0	0	0	0	0	0	0	0	0	0	0
##	1208	0	0	0	0	0	0	0	0	0	0	0	0
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##	1217	0	0	0	0	0	0	0	0	0	0	0	0
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##	1219	0	0	0	0	0	0	0	0	0	0	0	0
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##	1221	0	0	0	0	0	0	0	0	0	0	0	0
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##	1223	0	0	0	0	0	0	0	0	0	0	0	0
##	1224	0	0	0	0	0	0	0	0	0	0	0	0
##	1225	0	0	0	0	0	0	0	0	0	0	0	0
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##	1232	0	0	0	0	0	0	0	0	0	0	0	0
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##	1234	0	0	0	0	0	0	0	0	0	0	0	0
##	1235	0	0	0	0	0	0	0	0	0	0	0	0
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##	1237	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1238      0    0    0    0    0    0    0    0    0    0    0    0
## 1239      0    0    0    0    0    0    0    0    0    0    0    0
## 1240      0    0    0    0    0    0    0    0    0    0    0    0
## 1241      0    0    0    0    0    0    0    0    0    0    0    0
## 1242      0    0    0    0    0    0    0    0    0    0    0    0
## 1243      0    0    0    0    0    0    0    0    0    0    0    0
## 1244      0    0    0    0    0    0    0    0    0    0    0    0
## 1245      0    0    0    0    0    0    0    0    0    0    0    0
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## 1249      0    0    0    0    0    0    0    0    0    0    0    0
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## 1254      0    0    0    0    0    0    0    0    0    0    0    0
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## 1258      0    0    0    0    0    0    0    0    0    0    0    0
## 1259      0    0    0    0    0    0    0    0    0    0    0    0
## 1260      0    0    0    0    0    0    0    0    0    0    0    0
## 1261      0    0    0    0    0    0    0    0    0    0    0    0
## 1262      0    0    0    0    0    0    0    0    0    0    0    0
## 1263      0    0    0    0    0    0    0    0    0    0    0    0
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## 1266      0    0    0    0    0    0    0    0    0    0    0    0
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## 1282      0    0    0    0    0    0    0    0    0    0    0    0
## 1283      0    0    0    0    0    0    0    0    0    0    0    0
## 1284      0    0    0    0    0    0    0    0    0    0    0    0
## 1285      0    0    0    0    0    0    0    0    0    0    0    0
## 1286      0    0    0    0    0    0    0    0    0    0    0    0
## 1287      0    0    0    0    0    0    0    0    0    0    0    0
## 1288      0    0    0    0    0    0    0    0    0    0    0    0
## 1289      0    0    0    0    0    0    0    0    0    0    0    0
## 1290      0    0    0    0    0    0    0    0    0    0    0    0
## 1291      0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1292    0    0    0    0    0    0    0    0    0    0    0    0
## 1293    0    0    0    0    0    0    0    0    0    0    0    0
## 1294    0    0    0    0    0    0    0    0    0    0    0    0
## 1295    0    0    0    0    0    0    0    0    0    0    0    0
## 1296    0    0    0    0    0    0    0    0    0    0    0    0
## 1297    0    0    0    0    0    0    0    0    0    0    0    0
## 1298    0    0    0    0    0    0    0    0    0    0    0    0
## 1299    0    0    0    0    0    0    0    0    0    0    0    0
## 1300    0    0    0    0    0    0    0    0    0    0    0    0
## 1301    0    0    0    0    0    0    0    0    0    0    0    0
## 1302    0    0    0    0    0    0    0    0    0    0    0    0
## 1303    0    0    0    0    0    0    0    0    0    0    0    0
## 1304    0    0    0    0    0    0    0    0    0    0    0    0
## 1305    0    0    0    0    0    0    0    0    0    0    0    0
## 1306    0    0    0    0    0    0    0    0    0    0    0    0
## 1307    0    0    0    0    0    0    0    0    0    0    0    0
## 1308    0    0    0    0    0    0    0    0    0    0    0    0
## 1309    0    0    0    0    0    0    0    0    0    0    0    0
## 1310    0    0    0    0    0    0    0    0    0    0    0    0
## 1311    0    0    0    0    0    0    0    0    0    0    0    0
## 1312    0    0    0    0    0    0    0    0    0    0    0    0
## 1313    0    0    0    0    0    0    0    0    0    0    0    0
## 1314    0    0    0    0    0    0    0    0    0    0    0    0
## 1315    0    0    0    0    0    0    0    0    0    0    0    0
## 1316    0    0    0    0    0    0    0    0    0    0    0    0
## 1317    0    0    0    0    0    0    0    0    0    0    0    0
## 1318    0    0    0    0    0    0    0    0    0    0    0    0
## 1319    0    0    0    0    0    0    0    0    0    0    0    0
## 1320    0    0    0    0    0    0    0    0    0    0    0    0
## 1321    0    0    0    0    0    0    0    0    0    0    0    0
## 1322    0    0    0    0    0    0    0    0    0    0    0    0
## 1323    0    0    0    0    0    0    0    0    0    0    0    0
## 1324    0    0    0    0    0    0    0    0    0    0    0    0
## 1325    0    0    0    0    0    0    0    0    0    0    0    0
## 1326    0    0    0    0    0    0    0    0    0    0    0    0
## 1327    0    0    0    0    0    0    0    0    0    0    0    0
## 1328    0    0    0    0    0    0    0    0    0    0    0    0
## 1329    0    0    0    0    0    0    0    0    0    0    0    0
## 1330    0    0    0    0    0    0    0    0    0    0    0    0
## 1331    0    0    0    0    0    0    0    0    0    0    0    0
## 1332    0    0    0    0    0    0    0    0    0    0    0    0
## 1333    0    0    0    0    0    0    0    0    0    0    0    0
## 1334    0    0    0    0    0    0    0    0    0    0    0    0
## 1335    0    0    0    0    0    0    0    0    0    0    0    0
## 1336    0    0    0    0    0    0    0    0    0    0    0    0
## 1337    0    0    0    0    0    0    0    0    0    0    0    0
## 1338    0    0    0    0    0    0    0    0    0    0    0    0
## 1339    0    0    0    0    0    0    0    0    0    0    0    0
## 1340    0    0    0    0    0    0    0    0    0    0    0    0
## 1341    0    0    0    0    0    0    0    0    0    0    0    0
## 1342    0    0    0    0    0    0    0    0    0    0    0    0
## 1343    0    0    0    0    0    0    0    0    0    0    0    0
## 1344    0    0    0    0    0    0    0    0    0    0    0    0
## 1345    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1346        0     0     0     0     0     0     0     0     0     0     0     0
## 1347        0     0     0     0     0     0     0     0     0     0     0     0
## 1348        0     0     0     0     0     0     0     0     0     0     0     0
## 1349        0     0     0     0     0     0     0     0     0     0     0     0
## 1350        0     0     0     0     0     0     0     0     0     0     0     0
## 1351        0     0     0     0     0     0     0     0     0     0     0     0
## 1352        0     0     0     0     0     0     0     0     0     0     0     0
## 1353        0     0     0     0     0     0     0     0     0     0     0     0
## 1354        0     0     0     0     0     0     0     0     0     0     0     0
## 1355        0     0     0     0     0     0     0     0     0     0     0     0
## 1356        0     0     0     0     0     0     0     0     0     0     0     0
## 1357        0     0     0     0     0     0     0     0     0     0     0     0
## 1358        0     0     0     0     0     0     0     0     0     0     0     0
## 1359        0     0     0     0     0     0     0     0     0     0     0     0
## 1360        0     0     0     0     0     0     0     0     0     0     0     0
## 1361        0     0     0     0     0     0     0     0     0     0     0     0
## 1362        0     0     0     0     0     0     0     0     0     0     0     0
## 1363        0     0     0     0     0     0     0     0     0     0     0     0
## 1364        0     0     0     0     0     0     0     0     0     0     0     0
## 1365        0     0     0     0     0     0     0     0     0     0     0     0
## 1366        0     0     0     0     0     0     0     0     0     0     0     0
## 1367        0     0     0     0     0     0     0     0     0     0     0     0
## 1368        0     0     0     0     0     0     0     0     0     0     0     0
## 1369        0     0     0     0     0     0     0     0     0     0     0     0
## 1370        0     0     0     0     0     0     0     0     0     0     0     0
## 1371        0     0     0     0     0     0     0     0     0     0     0     0
## 1372        0     0     0     0     0     0     0     0     0     0     0     0
## 1373        0     0     0     0     0     0     0     0     0     0     0     0
## 1374        0     0     0     0     0     0     0     0     0     0     0     0
## 1375        0     0     0     0     0     0     0     0     0     0     0     0
## 1376        0     0     0     0     0     0     0     0     0     0     0     0
## 1377        0     0     0     0     0     0     0     0     0     0     0     0
## 1378        0     0     0     0     0     0     0     0     0     0     0     0
## 1379        0     0     0     0     0     0     0     0     0     0     0     0
## 1380        0     0     0     0     0     0     0     0     0     0     0     0
## 1381        0     0     0     0     0     0     0     0     0     0     0     0
## 1382        0     0     0     0     0     0     0     0     0     0     0     0
## 1383        0     0     0     0     0     0     0     0     0     0     0     0
## 1384        0     0     0     0     0     0     0     0     0     0     0     0
## 1385        0     0     0     0     0     0     0     0     0     0     0     0
## 1386        0     0     0     0     0     0     0     0     0     0     0     0
## 1387        0     0     0     0     0     0     0     0     0     0     0     0
## 1388        0     0     0     0     0     0     0     0     0     0     0     0
## 1389        0     0     0     0     0     0     0     0     0     0     0     0
## 1390        0     0     0     0     0     0     0     0     0     0     0     0
## 1391        0     0     0     0     0     0     0     0     0     0     0     0
## 1392        0     0     0     0     0     0     0     0     0     0     0     0
## 1393        0     0     0     0     0     0     0     0     0     0     0     0
## 1394        0     0     0     0     0     0     0     0     0     0     0     0
## 1395        0     0     0     0     0     0     0     0     0     0     0     0
## 1396        0     0     0     0     0     0     0     0     0     0     0     0
## 1397        0     0     0     0     0     0     0     0     0     0     0     0
## 1398        0     0     0     0     0     0     0     0     0     0     0     0
## 1399        0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 1400      0    0    0    0    0    0    0    0    0    0    0    0
## 1401      0    0    0    0    0    0    0    0    0    0    0    0
## 1402      0    0    0    0    0    0    0    0    0    0    0    0
## 1403      0    0    0    0    0    0    0    0    0    0    0    0
## 1404      0    0    0    0    0    0    0    0    0    0    0    0
## 1405      0    0    0    0    0    0    0    0    0    0    0    0
## 1406      0    0    0    0    0    0    0    0    0    0    0    0
## 1407      0    0    0    0    0    0    0    0    0    0    0    0
## 1408      0    0    0    0    0    0    0    0    0    0    0    0
## 1409      0    0    0    0    0    0    0    0    0    0    0    0
## 1410      0    0    0    0    0    0    0    0    0    0    0    0
## 1411      0    0    0    0    0    0    0    0    0    0    0    0
## 1412      0    0    0    0    0    0    0    0    0    0    0    0
## 1413      0    0    0    0    0    0    0    0    0    0    0    0
## 1414      0    0    0    0    0    0    0    0    0    0    0    0
## 1415      0    0    0    0    0    0    0    0    0    0    0    0
## 1416      0    0    0    0    0    0    0    0    0    0    0    0
## 1417      0    0    0    0    0    0    0    0    0    0    0    0
## 1418      0    0    0    0    0    0    0    0    0    0    0    0
## 1419      0    0    0    0    0    0    0    0    0    0    0    0
## 1420      0    0    0    0    0    0    0    0    0    0    0    0
## 1421      0    0    0    0    0    0    0    0    0    0    0    0
## 1422      0    0    0    0    0    0    0    0    0    0    0    0
## 1423      0    0    0    0    0    0    0    0    0    0    0    0
## 1424      0    0    0    0    0    0    0    0    0    0    0    0
## 1425      0    0    0    0    0    0    0    0    0    0    0    0
## 1426      0    0    0    0    0    0    0    0    0    0    0    0
## 1427      0    0    0    0    0    0    0    0    0    0    0    0
## 1428      0    0    0    0    0    0    0    0    0    0    0    0
##       [,38] [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49]
## 1        0    0    0    0    0    0    0    0    0    0    0    0
## 2        0    0    0    0    0    0    0    0    0    0    0    0
## 3        0    0    0    0    0    0    0    0    0    0    0    0
## 4        0    0    0    0    0    0    0    0    0    0    0    0
## 5        0    0    0    0    0    0    0    0    0    0    0    0
## 6        0    0    0    0    0    0    0    0    0    0    0    0
## 7        0    0    0    0    0    0    0    0    0    0    0    0
## 8        0    0    0    0    0    0    0    0    0    0    0    0
## 9        0    0    0    0    0    0    0    0    0    0    0    0
## 10       0    0    0    0    0    0    0    0    0    0    0    0
## 11       0    0    0    0    0    0    0    0    0    0    0    0
## 12       0    0    0    0    0    0    0    0    0    0    0    0
## 13       0    0    0    0    0    0    0    0    0    0    0    0
## 14       0    0    0    0    0    0    0    0    0    0    0    0
## 15       0    0    0    0    0    0    0    0    0    0    0    0
## 16       0    0    0    0    0    0    0    0    0    0    0    0
## 17       0    0    0    0    0    0    0    0    0    0    0    0
## 18       0    0    0    0    0    0    0    0    0    0    0    0
## 19       0    0    0    0    0    0    0    0    0    0    0    0
## 20       0    0    0    0    0    0    0    0    0    0    0    0
## 21       0    0    0    0    0    0    0    0    0    0    0    0
## 22       0    0    0    0    0    0    0    0    0    0    0    0
## 23       0    0    0    0    0    0    0    0    0    0    0    0
## 24       0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 25    0    0    0    0    0    0    0    0    0    0    0    0
## 26    0    0    0    0    0    0    0    0    0    0    0    0
## 27    0    0    0    0    0    0    0    0    0    0    0    0
## 28    0    0    0    0    0    0    0    0    0    0    0    0
## 29    0    0    0    0    0    0    0    0    0    0    0    0
## 30    0    0    0    0    0    0    0    0    0    0    0    0
## 31    0    0    0    0    0    0    0    0    0    0    0    0
## 32    0    0    0    0    0    0    0    0    0    0    0    0
## 33    0    0    0    0    0    0    0    0    0    0    0    0
## 34    0    0    0    0    0    0    0    0    0    0    0    0
## 35    0    0    0    0    0    0    0    0    0    0    0    0
## 36    0    0    0    0    0    0    0    0    0    0    0    0
## 37    0    0    0    0    0    0    0    0    0    0    0    0
## 38    0    0    0    0    0    0    0    0    0    0    0    0
## 39    0    0    0    0    0    0    0    0    0    0    0    0
## 40    0    0    0    0    0    0    0    0    0    0    0    0
## 41    0    0    0    0    0    0    0    0    0    0    0    0
## 42    0    0    0    0    0    0    0    0    0    0    0    0
## 43    0    0    0    0    0    0    0    0    0    0    0    0
## 44    0    0    0    0    0    0    0    0    0    0    0    0
## 45    0    0    0    0    0    0    0    0    0    0    0    0
## 46    0    0    0    0    0    0    0    0    0    0    0    0
## 47    0    0    0    0    0    0    0    0    0    0    0    0
## 48    0    0    0    0    0    0    0    0    0    0    0    0
## 49    0    0    0    0    0    0    0    0    0    0    0    0
## 50    0    0    0    0    0    0    0    0    0    0    0    0
## 51    0    0    0    0    0    0    0    0    0    0    0    0
## 52    0    0    0    0    0    0    0    0    0    0    0    0
## 53    0    0    0    0    0    0    0    0    0    0    0    0
## 54    0    0    0    0    0    0    0    0    0    0    0    0
## 55    0    0    0    0    0    0    0    0    0    0    0    0
## 56    0    0    0    0    0    0    0    0    0    0    0    0
## 57    0    0    0    0    0    0    0    0    0    0    0    0
## 58    0    0    0    0    0    0    0    0    0    0    0    0
## 59    0    0    0    0    0    0    0    0    0    0    0    0
## 60    0    0    0    0    0    0    0    0    0    0    0    0
## 61    0    0    0    0    0    0    0    0    0    0    0    0
## 62    0    0    0    0    0    0    0    0    0    0    0    0
## 63    0    0    0    0    0    0    0    0    0    0    0    0
## 64    0    0    0    0    0    0    0    0    0    0    0    0
## 65    0    0    0    0    0    0    0    0    0    0    0    0
## 66    0    0    0    0    0    0    0    0    0    0    0    0
## 67    0    0    0    0    0    0    0    0    0    0    0    0
## 68    0    0    0    0    0    0    0    0    0    0    0    0
## 69    0    0    0    0    0    0    0    0    0    0    0    0
## 70    0    0    0    0    0    0    0    0    0    0    0    0
## 71    0    0    0    0    0    0    0    0    0    0    0    0
## 72    0    0    0    0    0    0    0    0    0    0    0    0
## 73    0    0    0    0    0    0    0    0    0    0    0    0
## 74    0    0    0    0    0    0    0    0    0    0    0    0
## 75    0    0    0    0    0    0    0    0    0    0    0    0
## 76    0    0    0    0    0    0    0    0    0    0    0    0
## 77    0    0    0    0    0    0    0    0    0    0    0    0
## 78    0    0    0    0    0    0    0    0    0    0    0    0
```

```
##     79     0     0     0     0     0     0     0     0     0     0     0     0
##     80     0     0     0     0     0     0     0     0     0     0     0     0
##     81     0     0     0     0     0     0     0     0     0     0     0     0
##     82     0     0     0     0     0     0     0     0     0     0     0     0
##     83     0     0     0     0     0     0     0     0     0     0     0     0
##     84     0     0     0     0     0     0     0     0     0     0     0     0
##     85     0     0     0     0     0     0     0     0     0     0     0     0
##     86     0     0     0     0     0     0     0     0     0     0     0     0
##     87     0     0     0     0     0     0     0     0     0     0     0     0
##     88     0     0     0     0     0     0     0     0     0     0     0     0
##     89     0     0     0     0     0     0     0     0     0     0     0     0
##     90     0     0     0     0     0     0     0     0     0     0     0     0
##     91     0     0     0     0     0     0     0     0     0     0     0     0
##     92     0     0     0     0     0     0     0     0     0     0     0     0
##     93     0     0     0     0     0     0     0     0     0     0     0     0
##     94     0     0     0     0     0     0     0     0     0     0     0     0
##     95     0     0     0     0     0     0     0     0     0     0     0     0
##     96     0     0     0     0     0     0     0     0     0     0     0     0
##     97     0     0     0     0     0     0     0     0     0     0     0     0
##     98     0     0     0     0     0     0     0     0     0     0     0     0
##     99     0     0     0     0     0     0     0     0     0     0     0     0
##    100     0     0     0     0     0     0     0     0     0     0     0     0
##    101     0     0     0     0     0     0     0     0     0     0     0     0
##    102     0     0     0     0     0     0     0     0     0     0     0     0
##    103     0     0     0     0     0     0     0     0     0     0     0     0
##    104     0     0     0     0     0     0     0     0     0     0     0     0
##    105     0     0     0     0     0     0     0     0     0     0     0     0
##    106     0     0     0     0     0     0     0     0     0     0     0     0
##    107     0     0     0     0     0     0     0     0     0     0     0     0
##    108     0     0     0     0     0     0     0     0     0     0     0     0
##    109     0     0     0     0     0     0     0     0     0     0     0     0
##    110     0     0     0     0     0     0     0     0     0     0     0     0
##    111     0     0     0     0     0     0     0     0     0     0     0     0
##    112     0     0     0     0     0     0     0     0     0     0     0     0
##    113     0     0     0     0     0     0     0     0     0     0     0     0
##    114     0     0     0     0     0     0     0     0     0     0     0     0
##    115     0     0     0     0     0     0     0     0     0     0     0     0
##    116     0     0     0     0     0     0     0     0     0     0     0     0
##    117     0     0     0     0     0     0     0     0     0     0     0     0
##    118     0     0     0     0     0     0     0     0     0     0     0     0
##    119     0     0     0     0     0     0     0     0     0     0     0     0
##    120     0     0     0     0     0     0     0     0     0     0     0     0
##    121     0     0     0     0     0     0     0     0     0     0     0     0
##    122     0     0     0     0     0     0     0     0     0     0     0     0
##    123     0     0     0     0     0     0     0     0     0     0     0     0
##    124     0     0     0     0     0     0     0     0     0     0     0     0
##    125     0     0     0     0     0     0     0     0     0     0     0     0
##    126     0     0     0     0     0     0     0     0     0     0     0     0
##    127     0     0     0     0     0     0     0     0     0     0     0     0
##    128     0     0     0     0     0     0     0     0     0     0     0     0
##    129     0     0     0     0     0     0     0     0     0     0     0     0
##    130     0     0     0     0     0     0     0     0     0     0     0     0
##    131     0     0     0     0     0     0     0     0     0     0     0     0
##    132     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 133      0      0      0      0      0      0      0      0      0      0      0      0
## 134      0      0      0      0      0      0      0      0      0      0      0      0
## 135      0      0      0      0      0      0      0      0      0      0      0      0
## 136      0      0      0      0      0      0      0      0      0      0      0      0
## 137      0      0      0      0      0      0      0      0      0      0      0      0
## 138      0      0      0      0      0      0      0      0      0      0      0      0
## 139      0      0      0      0      0      0      0      0      0      0      0      0
## 140      0      0      0      0      0      0      0      0      0      0      0      0
## 141      0      0      0      0      0      0      0      0      0      0      0      0
## 142      0      0      0      0      0      0      0      0      0      0      0      0
## 143      0      0      0      0      0      0      0      0      0      0      0      0
## 144      0      0      0      0      0      0      0      0      0      0      0      0
## 145      0      0      0      0      0      0      0      0      0      0      0      0
## 146      0      0      0      0      0      0      0      0      0      0      0      0
## 147      0      0      0      0      0      0      0      0      0      0      0      0
## 148      0      0      0      0      0      0      0      0      0      0      0      0
## 149      0      0      0      0      0      0      0      0      0      0      0      0
## 150      0      0      0      0      0      0      0      0      0      0      0      0
## 151      0      0      0      0      0      0      0      0      0      0      0      0
## 152      0      0      0      0      0      0      0      0      0      0      0      0
## 153      0      0      0      0      0      0      0      0      0      0      0      0
## 154      0      0      0      0      0      0      0      0      0      0      0      0
## 155      0      0      0      0      0      0      0      0      0      0      0      0
## 156      0      0      0      0      0      0      0      0      0      0      0      0
## 157      0      0      0      0      0      0      0      0      0      0      0      0
## 158      0      0      0      0      0      0      0      0      0      0      0      0
## 159      0      0      0      0      0      0      0      0      0      0      0      0
## 160      0      0      0      0      0      0      0      0      0      0      0      0
## 161      0      0      0      0      0      0      0      0      0      0      0      0
## 162      0      0      0      0      0      0      0      0      0      0      0      0
## 163      0      0      0      0      0      0      0      0      0      0      0      0
## 164      0      0      0      0      0      0      0      0      0      0      0      0
## 165      0      0      0      0      0      0      0      0      0      0      0      0
## 166      0      0      0      0      0      0      0      0      0      0      0      0
## 167      0      0      0      0      0      0      0      0      0      0      0      0
## 168      0      0      0      0      0      0      0      0      0      0      0      0
## 169      0      0      0      0      0      0      0      0      0      0      0      0
## 170      0      0      0      0      0      0      0      0      0      0      0      0
## 171      0      0      0      0      0      0      0      0      0      0      0      0
## 172      0      0      0      0      0      0      0      0      0      0      0      0
## 173      0      0      0      0      0      0      0      0      0      0      0      0
## 174      0      0      0      0      0      0      0      0      0      0      0      0
## 175      0      0      0      0      0      0      0      0      0      0      0      0
## 176      0      0      0      0      0      0      0      0      0      0      0      0
## 177      0      0      0      0      0      0      0      0      0      0      0      0
## 178      0      0      0      0      0      0      0      0      0      0      0      0
## 179      0      0      0      0      0      0      0      0      0      0      0      0
## 180      0      0      0      0      0      0      0      0      0      0      0      0
## 181      0      0      0      0      0      0      0      0      0      0      0      0
## 182      0      0      0      0      0      0      0      0      0      0      0      0
## 183      0      0      0      0      0      0      0      0      0      0      0      0
## 184      0      0      0      0      0      0      0      0      0      0      0      0
## 185      0      0      0      0      0      0      0      0      0      0      0      0
## 186      0      0      0      0      0      0      0      0      0      0      0      0
```

##	187	0	0	0	0	0	0	0	0	0	0	0	0
##	188	0	0	0	0	0	0	0	0	0	0	0	0
##	189	0	0	0	0	0	0	0	0	0	0	0	0
##	190	0	0	0	0	0	0	0	0	0	0	0	0
##	191	0	0	0	0	0	0	0	0	0	0	0	0
##	192	0	0	0	0	0	0	0	0	0	0	0	0
##	193	0	0	0	0	0	0	0	0	0	0	0	0
##	194	0	0	0	0	0	0	0	0	0	0	0	0
##	195	0	0	0	0	0	0	0	0	0	0	0	0
##	196	0	0	0	0	0	0	0	0	0	0	0	0
##	197	0	0	0	0	0	0	0	0	0	0	0	0
##	198	0	0	0	0	0	0	0	0	0	0	0	0
##	199	0	0	0	0	0	0	0	0	0	0	0	0
##	200	0	0	0	0	0	0	0	0	0	0	0	0
##	201	0	0	0	0	0	0	0	0	0	0	0	0
##	202	0	0	0	0	0	0	0	0	0	0	0	0
##	203	0	0	0	0	0	0	0	0	0	0	0	0
##	204	0	0	0	0	0	0	0	0	0	0	0	0
##	205	0	0	0	0	0	0	0	0	0	0	0	0
##	206	0	0	0	0	0	0	0	0	0	0	0	0
##	207	0	0	0	0	0	0	0	0	0	0	0	0
##	208	0	0	0	0	0	0	0	0	0	0	0	0
##	209	0	0	0	0	0	0	0	0	0	0	0	0
##	210	0	0	0	0	0	0	0	0	0	0	0	0
##	211	0	0	0	0	0	0	0	0	0	0	0	0
##	212	0	0	0	0	0	0	0	0	0	0	0	0
##	213	0	0	0	0	0	0	0	0	0	0	0	0
##	214	0	0	0	0	0	0	0	0	0	0	0	0
##	215	0	0	0	0	0	0	0	0	0	0	0	0
##	216	0	0	0	0	0	0	0	0	0	0	0	0
##	217	0	0	0	0	0	0	0	0	0	0	0	0
##	218	0	0	0	0	0	0	0	0	0	0	0	0
##	219	0	0	0	0	0	0	0	0	0	0	0	0
##	220	0	0	0	0	0	0	0	0	0	0	0	0
##	221	0	0	0	0	0	0	0	0	0	0	0	0
##	222	0	0	0	0	0	0	0	0	0	0	0	0
##	223	0	0	0	0	0	0	0	0	0	0	0	0
##	224	0	0	0	0	0	0	0	0	0	0	0	0
##	225	0	0	0	0	0	0	0	0	0	0	0	0
##	226	0	0	0	0	0	0	0	0	0	0	0	0
##	227	0	0	0	0	0	0	0	0	0	0	0	0
##	228	0	0	0	0	0	0	0	0	0	0	0	0
##	229	0	0	0	0	0	0	0	0	0	0	0	0
##	230	0	0	0	0	0	0	0	0	0	0	0	0
##	231	0	0	0	0	0	0	0	0	0	0	0	0
##	232	0	0	0	0	0	0	0	0	0	0	0	0
##	233	0	0	0	0	0	0	0	0	0	0	0	0
##	234	0	0	0	0	0	0	0	0	0	0	0	0
##	235	0	0	0	0	0	0	0	0	0	0	0	0
##	236	0	0	0	0	0	0	0	0	0	0	0	0
##	237	0	0	0	0	0	0	0	0	0	0	0	0
##	238	0	0	0	0	0	0	0	0	0	0	0	0
##	239	0	0	0	0	0	0	0	0	0	0	0	0
##	240	0	0	0	0	0	0	0	0	0	0	0	0

```
## 241    0    0    0    0    0    0    0    0    0    0    0    0
## 242    0    0    0    0    0    0    0    0    0    0    0    0
## 243    0    0    0    0    0    0    0    0    0    0    0    0
## 244    0    0    0    0    0    0    0    0    0    0    0    0
## 245    0    0    0    0    0    0    0    0    0    0    0    0
## 246    0    0    0    0    0    0    0    0    0    0    0    0
## 247    0    0    0    0    0    0    0    0    0    0    0    0
## 248    0    0    0    0    0    0    0    0    0    0    0    0
## 249    0    0    0    0    0    0    0    0    0    0    0    0
## 250    0    0    0    0    0    0    0    0    0    0    0    0
## 251    0    0    0    0    0    0    0    0    0    0    0    0
## 252    0    0    0    0    0    0    0    0    0    0    0    0
## 253    0    0    0    0    0    0    0    0    0    0    0    0
## 254    0    0    0    0    0    0    0    0    0    0    0    0
## 255    0    0    0    0    0    0    0    0    0    0    0    0
## 256    0    0    0    0    0    0    0    0    0    0    0    0
## 257    0    0    0    0    0    0    0    0    0    0    0    0
## 258    0    0    0    0    0    0    0    0    0    0    0    0
## 259    0    0    0    0    0    0    0    0    0    0    0    0
## 260    0    0    0    0    0    0    0    0    0    0    0    0
## 261    0    0    0    0    0    0    0    0    0    0    0    0
## 262    0    0    0    0    0    0    0    0    0    0    0    0
## 263    0    0    0    0    0    0    0    0    0    0    0    0
## 264    0    0    0    0    0    0    0    0    0    0    0    0
## 265    0    0    0    0    0    0    0    0    0    0    0    0
## 266    0    0    0    0    0    0    0    0    0    0    0    0
## 267    0    0    0    0    0    0    0    0    0    0    0    0
## 268    0    0    0    0    0    0    0    0    0    0    0    0
## 269    0    0    0    0    0    0    0    0    0    0    0    0
## 270    0    0    0    0    0    0    0    0    0    0    0    0
## 271    0    0    0    0    0    0    0    0    0    0    0    0
## 272    0    0    0    0    0    0    0    0    0    0    0    0
## 273    0    0    0    0    0    0    0    0    0    0    0    0
## 274    0    0    0    0    0    0    0    0    0    0    0    0
## 275    0    0    0    0    0    0    0    0    0    0    0    0
## 276    0    0    0    0    0    0    0    0    0    0    0    0
## 277    0    0    0    0    0    0    0    0    0    0    0    0
## 278    0    0    0    0    0    0    0    0    0    0    0    0
## 279    0    0    0    0    0    0    0    0    0    0    0    0
## 280    0    0    0    0    0    0    0    0    0    0    0    0
## 281    0    0    0    0    0    0    0    0    0    0    0    0
## 282    0    0    0    0    0    0    0    0    0    0    0    0
## 283    0    0    0    0    0    0    0    0    0    0    0    0
## 284    0    0    0    0    0    0    0    0    0    0    0    0
## 285    0    0    0    0    0    0    0    0    0    0    0    0
## 286    0    0    0    0    0    0    0    0    0    0    0    0
## 287    0    0    0    0    0    0    0    0    0    0    0    0
## 288    0    0    0    0    0    0    0    0    0    0    0    0
## 289    0    0    0    0    0    0    0    0    0    0    0    0
## 290    0    0    0    0    0    0    0    0    0    0    0    0
## 291    0    0    0    0    0    0    0    0    0    0    0    0
## 292    0    0    0    0    0    0    0    0    0    0    0    0
## 293    0    0    0    0    0    0    0    0    0    0    0    0
## 294    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 295      0      0      0      0      0      0      0      0      0      0      0      0
## 296      0      0      0      0      0      0      0      0      0      0      0      0
## 297      0      0      0      0      0      0      0      0      0      0      0      0
## 298      0      0      0      0      0      0      0      0      0      0      0      0
## 299      0      0      0      0      0      0      0      0      0      0      0      0
## 300      0      0      0      0      0      0      0      0      0      0      0      0
## 301      0      0      0      0      0      0      0      0      0      0      0      0
## 302      0      0      0      0      0      0      0      0      0      0      0      0
## 303      0      0      0      0      0      0      0      0      0      0      0      0
## 304      0      0      0      0      0      0      0      0      0      0      0      0
## 305      0      0      0      0      0      0      0      0      0      0      0      0
## 306      0      0      0      0      0      0      0      0      0      0      0      0
## 307      0      0      0      0      0      0      0      0      0      0      0      0
## 308      0      0      0      0      0      0      0      0      0      0      0      0
## 309      0      0      0      0      0      0      0      0      0      0      0      0
## 310      0      0      0      0      0      0      0      0      0      0      0      0
## 311      0      0      0      0      0      0      0      0      0      0      0      0
## 312      0      0      0      0      0      0      0      0      0      0      0      0
## 313      0      0      0      0      0      0      0      0      0      0      0      0
## 314      0      0      0      0      0      0      0      0      0      0      0      0
## 315      0      0      0      0      0      0      0      0      0      0      0      0
## 316      0      0      0      0      0      0      0      0      0      0      0      0
## 317      0      0      0      0      0      0      0      0      0      0      0      0
## 318      0      0      0      0      0      0      0      0      0      0      0      0
## 319      0      0      0      0      0      0      0      0      0      0      0      0
## 320      0      0      0      0      0      0      0      0      0      0      0      0
## 321      0      0      0      0      0      0      0      0      0      0      0      0
## 322      0      0      0      0      0      0      0      0      0      0      0      0
## 323      0      0      0      0      0      0      0      0      0      0      0      0
## 324      0      0      0      0      0      0      0      0      0      0      0      0
## 325      0      0      0      0      0      0      0      0      0      0      0      0
## 326      0      0      0      0      0      0      0      0      0      0      0      0
## 327      0      0      0      0      0      0      0      0      0      0      0      0
## 328      0      0      0      0      0      0      0      0      0      0      0      0
## 329      0      0      0      0      0      0      0      0      0      0      0      0
## 330      0      0      0      0      0      0      0      0      0      0      0      0
## 331      0      0      0      0      0      0      0      0      0      0      0      0
## 332      0      0      0      0      0      0      0      0      0      0      0      0
## 333      0      0      0      0      0      0      0      0      0      0      0      0
## 334      0      0      0      0      0      0      0      0      0      0      0      0
## 335      0      0      0      0      0      0      0      0      0      0      0      0
## 336      0      0      0      0      0      0      0      0      0      0      0      0
## 337      0      0      0      0      0      0      0      0      0      0      0      0
## 338      0      0      0      0      0      0      0      0      0      0      0      0
## 339      0      0      0      0      0      0      0      0      0      0      0      0
## 340      0      0      0      0      0      0      0      0      0      0      0      0
## 341      0      0      0      0      0      0      0      0      0      0      0      0
## 342      0      0      0      0      0      0      0      0      0      0      0      0
## 343      0      0      0      0      0      0      0      0      0      0      0      0
## 344      0      0      0      0      0      0      0      0      0      0      0      0
## 345      0      0      0      0      0      0      0      0      0      0      0      0
## 346      0      0      0      0      0      0      0      0      0      0      0      0
## 347      0      0      0      0      0      0      0      0      0      0      0      0
## 348      0      0      0      0      0      0      0      0      0      0      0      0
```

##	349	0	0	0	0	0	0	0	0	0	0	0	0
##	350	0	0	0	0	0	0	0	0	0	0	0	0
##	351	0	0	0	0	0	0	0	0	0	0	0	0
##	352	0	0	0	0	0	0	0	0	0	0	0	0
##	353	0	0	0	0	0	0	0	0	0	0	0	0
##	354	0	0	0	0	0	0	0	0	0	0	0	0
##	355	0	0	0	0	0	0	0	0	0	0	0	0
##	356	0	0	0	0	0	0	0	0	0	0	0	0
##	357	0	0	0	0	0	0	0	0	0	0	0	0
##	358	0	0	0	0	0	0	0	0	0	0	0	0
##	359	0	0	0	0	0	0	0	0	0	0	0	0
##	360	0	0	0	0	0	0	0	0	0	0	0	0
##	361	0	0	0	0	0	0	0	0	0	0	0	0
##	362	0	0	0	0	0	0	0	0	0	0	0	0
##	363	0	0	0	0	0	0	0	0	0	0	0	0
##	364	0	0	0	0	0	0	0	0	0	0	0	0
##	365	0	0	0	0	0	0	0	0	0	0	0	0
##	366	0	0	0	0	0	0	0	0	0	0	0	0
##	367	0	0	0	0	0	0	0	0	0	0	0	0
##	368	0	0	0	0	0	0	0	0	0	0	0	0
##	369	0	0	0	0	0	0	0	0	0	0	0	0
##	370	0	0	0	0	0	0	0	0	0	0	0	0
##	371	0	0	0	0	0	0	0	0	0	0	0	0
##	372	0	0	0	0	0	0	0	0	0	0	0	0
##	373	0	0	0	0	0	0	0	0	0	0	0	0
##	374	0	0	0	0	0	0	0	0	0	0	0	0
##	375	0	0	0	0	0	0	0	0	0	0	0	0
##	376	0	0	0	0	0	0	0	0	0	0	0	0
##	377	0	0	0	0	0	0	0	0	0	0	0	0
##	378	0	0	0	0	0	0	0	0	0	0	0	0
##	379	0	0	0	0	0	0	0	0	0	0	0	0
##	380	0	0	0	0	0	0	0	0	0	0	0	0
##	381	0	0	0	0	0	0	0	0	0	0	0	0
##	382	0	0	0	0	0	0	0	0	0	0	0	0
##	383	0	0	0	0	0	0	0	0	0	0	0	0
##	384	0	0	0	0	0	0	0	0	0	0	0	0
##	385	0	0	0	0	0	0	0	0	0	0	0	0
##	386	0	0	0	0	0	0	0	0	0	0	0	0
##	387	0	0	0	0	0	0	0	0	0	0	0	0
##	388	0	0	0	0	0	0	0	0	0	0	0	0
##	389	0	0	0	0	0	0	0	0	0	0	0	0
##	390	0	0	0	0	0	0	0	0	0	0	0	0
##	391	0	0	0	0	0	0	0	0	0	0	0	0
##	392	0	0	0	0	0	0	0	0	0	0	0	0
##	393	0	0	0	0	0	0	0	0	0	0	0	0
##	394	0	0	0	0	0	0	0	0	0	0	0	0
##	395	0	0	0	0	0	0	0	0	0	0	0	0
##	396	0	0	0	0	0	0	0	0	0	0	0	0
##	397	0	0	0	0	0	0	0	0	0	0	0	0
##	398	0	0	0	0	0	0	0	0	0	0	0	0
##	399	0	0	0	0	0	0	0	0	0	0	0	0
##	400	0	0	0	0	0	0	0	0	0	0	0	0
##	401	0	0	0	0	0	0	0	0	0	0	0	0
##	402	0	0	0	0	0	0	0	0	0	0	0	0

```
## 403     0     0     0     0     0     0     0     0     0     0     0     0
## 404     0     0     0     0     0     0     0     0     0     0     0     0
## 405     0     0     0     0     0     0     0     0     0     0     0     0
## 406     0     0     0     0     0     0     0     0     0     0     0     0
## 407     0     0     0     0     0     0     0     0     0     0     0     0
## 408     0     0     0     0     0     0     0     0     0     0     0     0
## 409     0     0     0     0     0     0     0     0     0     0     0     0
## 410     0     0     0     0     0     0     0     0     0     0     0     0
## 411     0     0     0     0     0     0     0     0     0     0     0     0
## 412     0     0     0     0     0     0     0     0     0     0     0     0
## 413     0     0     0     0     0     0     0     0     0     0     0     0
## 414     0     0     0     0     0     0     0     0     0     0     0     0
## 415     0     0     0     0     0     0     0     0     0     0     0     0
## 416     0     0     0     0     0     0     0     0     0     0     0     0
## 417     0     0     0     0     0     0     0     0     0     0     0     0
## 418     0     0     0     0     0     0     0     0     0     0     0     0
## 419     0     0     0     0     0     0     0     0     0     0     0     0
## 420     0     0     0     0     0     0     0     0     0     0     0     0
## 421     0     0     0     0     0     0     0     0     0     0     0     0
## 422     0     0     0     0     0     0     0     0     0     0     0     0
## 423     0     0     0     0     0     0     0     0     0     0     0     0
## 424     0     0     0     0     0     0     0     0     0     0     0     0
## 425     0     0     0     0     0     0     0     0     0     0     0     0
## 426     0     0     0     0     0     0     0     0     0     0     0     0
## 427     0     0     0     0     0     0     0     0     0     0     0     0
## 428     0     0     0     0     0     0     0     0     0     0     0     0
## 429     0     0     0     0     0     0     0     0     0     0     0     0
## 430     0     0     0     0     0     0     0     0     0     0     0     0
## 431     0     0     0     0     0     0     0     0     0     0     0     0
## 432     0     0     0     0     0     0     0     0     0     0     0     0
## 433     0     0     0     0     0     0     0     0     0     0     0     0
## 434     0     0     0     0     0     0     0     0     0     0     0     0
## 435     0     0     0     0     0     0     0     0     0     0     0     0
## 436     0     0     0     0     0     0     0     0     0     0     0     0
## 437     0     0     0     0     0     0     0     0     0     0     0     0
## 438     0     0     0     0     0     0     0     0     0     0     0     0
## 439     0     0     0     0     0     0     0     0     0     0     0     0
## 440     0     0     0     0     0     0     0     0     0     0     0     0
## 441     0     0     0     0     0     0     0     0     0     0     0     0
## 442     0     0     0     0     0     0     0     0     0     0     0     0
## 443     0     0     0     0     0     0     0     0     0     0     0     0
## 444     0     0     0     0     0     0     0     0     0     0     0     0
## 445     0     0     0     0     0     0     0     0     0     0     0     0
## 446     0     0     0     0     0     0     0     0     0     0     0     0
## 447     0     0     0     0     0     0     0     0     0     0     0     0
## 448     0     0     0     0     0     0     0     0     0     0     0     0
## 449     0     0     0     0     0     0     0     0     0     0     0     0
## 450     0     0     0     0     0     0     0     0     0     0     0     0
## 451     0     0     0     0     0     0     0     0     0     0     0     0
## 452     0     0     0     0     0     0     0     0     0     0     0     0
## 453     0     0     0     0     0     0     0     0     0     0     0     0
## 454     0     0     0     0     0     0     0     0     0     0     0     0
## 455     0     0     0     0     0     0     0     0     0     0     0     0
## 456     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 457      0    0    0    0    0    0    0    0    0    0    0    0
## 458      0    0    0    0    0    0    0    0    0    0    0    0
## 459      0    0    0    0    0    0    0    0    0    0    0    0
## 460      0    0    0    0    0    0    0    0    0    0    0    0
## 461      0    0    0    0    0    0    0    0    0    0    0    0
## 462      0    0    0    0    0    0    0    0    0    0    0    0
## 463      0    0    0    0    0    0    0    0    0    0    0    0
## 464      0    0    0    0    0    0    0    0    0    0    0    0
## 465      0    0    0    0    0    0    0    0    0    0    0    0
## 466      0    0    0    0    0    0    0    0    0    0    0    0
## 467      0    0    0    0    0    0    0    0    0    0    0    0
## 468      0    0    0    0    0    0    0    0    0    0    0    0
## 469      0    0    0    0    0    0    0    0    0    0    0    0
## 470      0    0    0    0    0    0    0    0    0    0    0    0
## 471      0    0    0    0    0    0    0    0    0    0    0    0
## 472      0    0    0    0    0    0    0    0    0    0    0    0
## 473      0    0    0    0    0    0    0    0    0    0    0    0
## 474      0    0    0    0    0    0    0    0    0    0    0    0
## 475      0    0    0    0    0    0    0    0    0    0    0    0
## 476      0    0    0    0    0    0    0    0    0    0    0    0
## 477      0    0    0    0    0    0    0    0    0    0    0    0
## 478      0    0    0    0    0    0    0    0    0    0    0    0
## 479      0    0    0    0    0    0    0    0    0    0    0    0
## 480      0    0    0    0    0    0    0    0    0    0    0    0
## 481      0    0    0    0    0    0    0    0    0    0    0    0
## 482      0    0    0    0    0    0    0    0    0    0    0    0
## 483      0    0    0    0    0    0    0    0    0    0    0    0
## 484      0    0    0    0    0    0    0    0    0    0    0    0
## 485      0    0    0    0    0    0    0    0    0    0    0    0
## 486      0    0    0    0    0    0    0    0    0    0    0    0
## 487      0    0    0    0    0    0    0    0    0    0    0    0
## 488      0    0    0    0    0    0    0    0    0    0    0    0
## 489      0    0    0    0    0    0    0    0    0    0    0    0
## 490      0    0    0    0    0    0    0    0    0    0    0    0
## 491      0    0    0    0    0    0    0    0    0    0    0    0
## 492      0    0    0    0    0    0    0    0    0    0    0    0
## 493      0    0    0    0    0    0    0    0    0    0    0    0
## 494      0    0    0    0    0    0    0    0    0    0    0    0
## 495      0    0    0    0    0    0    0    0    0    0    0    0
## 496      0    0    0    0    0    0    0    0    0    0    0    0
## 497      0    0    0    0    0    0    0    0    0    0    0    0
## 498      0    0    0    0    0    0    0    0    0    0    0    0
## 499      0    0    0    0    0    0    0    0    0    0    0    0
## 500      0    0    0    0    0    0    0    0    0    0    0    0
## 501      0    0    0    0    0    0    0    0    0    0    0    0
## 502      0    0    0    0    0    0    0    0    0    0    0    0
## 503      0    0    0    0    0    0    0    0    0    0    0    0
## 504      0    0    0    0    0    0    0    0    0    0    0    0
## 505      0    0    0    0    0    0    0    0    0    0    0    0
## 506      0    0    0    0    0    0    0    0    0    0    0    0
## 507      0    0    0    0    0    0    0    0    0    0    0    0
## 508      0    0    0    0    0    0    0    0    0    0    0    0
## 509      0    0    0    0    0    0    0    0    0    0    0    0
## 510      0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 511     0    0    0    0    0    0    0    0    0    0    0    0
## 512     0    0    0    0    0    0    0    0    0    0    0    0
## 513     0    0    0    0    0    0    0    0    0    0    0    0
## 514     0    0    0    0    0    0    0    0    0    0    0    0
## 515     0    0    0    0    0    0    0    0    0    0    0    0
## 516     0    0    0    0    0    0    0    0    0    0    0    0
## 517     0    0    0    0    0    0    0    0    0    0    0    0
## 518     0    0    0    0    0    0    0    0    0    0    0    0
## 519     0    0    0    0    0    0    0    0    0    0    0    0
## 520     0    0    0    0    0    0    0    0    0    0    0    0
## 521     0    0    0    0    0    0    0    0    0    0    0    0
## 522     0    0    0    0    0    0    0    0    0    0    0    0
## 523     0    0    0    0    0    0    0    0    0    0    0    0
## 524     0    0    0    0    0    0    0    0    0    0    0    0
## 525     0    0    0    0    0    0    0    0    0    0    0    0
## 526     0    0    0    0    0    0    0    0    0    0    0    0
## 527     0    0    0    0    0    0    0    0    0    0    0    0
## 528     0    0    0    0    0    0    0    0    0    0    0    0
## 529     0    0    0    0    0    0    0    0    0    0    0    0
## 530     0    0    0    0    0    0    0    0    0    0    0    0
## 531     0    0    0    0    0    0    0    0    0    0    0    0
## 532     0    0    0    0    0    0    0    0    0    0    0    0
## 533     0    0    0    0    0    0    0    0    0    0    0    0
## 534     0    0    0    0    0    0    0    0    0    0    0    0
## 535     0    0    0    0    0    0    0    0    0    0    0    0
## 536     0    0    0    0    0    0    0    0    0    0    0    0
## 537     0    0    0    0    0    0    0    0    0    0    0    0
## 538     0    0    0    0    0    0    0    0    0    0    0    0
## 539     0    0    0    0    0    0    0    0    0    0    0    0
## 540     0    0    0    0    0    0    0    0    0    0    0    0
## 541     0    0    0    0    0    0    0    0    0    0    0    0
## 542     0    0    0    0    0    0    0    0    0    0    0    0
## 543     0    0    0    0    0    0    0    0    0    0    0    0
## 544     0    0    0    0    0    0    0    0    0    0    0    0
## 545     0    0    0    0    0    0    0    0    0    0    0    0
## 546     0    0    0    0    0    0    0    0    0    0    0    0
## 547     0    0    0    0    0    0    0    0    0    0    0    0
## 548     0    0    0    0    0    0    0    0    0    0    0    0
## 549     0    0    0    0    0    0    0    0    0    0    0    0
## 550     0    0    0    0    0    0    0    0    0    0    0    0
## 551     0    0    0    0    0    0    0    0    0    0    0    0
## 552     0    0    0    0    0    0    0    0    0    0    0    0
## 553     0    0    0    0    0    0    0    0    0    0    0    0
## 554     0    0    0    0    0    0    0    0    0    0    0    0
## 555     0    0    0    0    0    0    0    0    0    0    0    0
## 556     0    0    0    0    0    0    0    0    0    0    0    0
## 557     0    0    0    0    0    0    0    0    0    0    0    0
## 558     0    0    0    0    0    0    0    0    0    0    0    0
## 559     0    0    0    0    0    0    0    0    0    0    0    0
## 560     0    0    0    0    0    0    0    0    0    0    0    0
## 561     0    0    0    0    0    0    0    0    0    0    0    0
## 562     0    0    0    0    0    0    0    0    0    0    0    0
## 563     0    0    0    0    0    0    0    0    0    0    0    0
## 564     0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 565      0      0      0      0      0      0      0      0      0      0      0      0
## 566      0      0      0      0      0      0      0      0      0      0      0      0
## 567      0      0      0      0      0      0      0      0      0      0      0      0
## 568      0      0      0      0      0      0      0      0      0      0      0      0
## 569      0      0      0      0      0      0      0      0      0      0      0      0
## 570      0      0      0      0      0      0      0      0      0      0      0      0
## 571      0      0      0      0      0      0      0      0      0      0      0      0
## 572      0      0      0      0      0      0      0      0      0      0      0      0
## 573      0      0      0      0      0      0      0      0      0      0      0      0
## 574      0      0      0      0      0      0      0      0      0      0      0      0
## 575      0      0      0      0      0      0      0      0      0      0      0      0
## 576      0      0      0      0      0      0      0      0      0      0      0      0
## 577      0      0      0      0      0      0      0      0      0      0      0      0
## 578      0      0      0      0      0      0      0      0      0      0      0      0
## 579      0      0      0      0      0      0      0      0      0      0      0      0
## 580      0      0      0      0      0      0      0      0      0      0      0      0
## 581      0      0      0      0      0      0      0      0      0      0      0      0
## 582      0      0      0      0      0      0      0      0      0      0      0      0
## 583      0      0      0      0      0      0      0      0      0      0      0      0
## 584      0      0      0      0      0      0      0      0      0      0      0      0
## 585      0      0      0      0      0      0      0      0      0      0      0      0
## 586      0      0      0      0      0      0      0      0      0      0      0      0
## 587      0      0      0      0      0      0      0      0      0      0      0      0
## 588      0      0      0      0      0      0      0      0      0      0      0      0
## 589      0      0      0      0      0      0      0      0      0      0      0      0
## 590      0      0      0      0      0      0      0      0      0      0      0      0
## 591      0      0      0      0      0      0      0      0      0      0      0      0
## 592      0      0      0      0      0      0      0      0      0      0      0      0
## 593      0      0      0      0      0      0      0      0      0      0      0      0
## 594      0      0      0      0      0      0      0      0      0      0      0      0
## 595      0      0      0      0      0      0      0      0      0      0      0      0
## 596      0      0      0      0      0      0      0      0      0      0      0      0
## 597      0      0      0      0      0      0      0      0      0      0      0      0
## 598      0      0      0      0      0      0      0      0      0      0      0      0
## 599      0      0      0      0      0      0      0      0      0      0      0      0
## 600      0      0      0      0      0      0      0      0      0      0      0      0
## 601      0      0      0      0      0      0      0      0      0      0      0      0
## 602      0      0      0      0      0      0      0      0      0      0      0      0
## 603      0      0      0      0      0      0      0      0      0      0      0      0
## 604      0      0      0      0      0      0      0      0      0      0      0      0
## 605      0      0      0      0      0      0      0      0      0      0      0      0
## 606      0      0      0      0      0      0      0      0      0      0      0      0
## 607      0      0      0      0      0      0      0      0      0      0      0      0
## 608      0      0      0      0      0      0      0      0      0      0      0      0
## 609      0      0      0      0      0      0      0      0      0      0      0      0
## 610      0      0      0      0      0      0      0      0      0      0      0      0
## 611      0      0      0      0      0      0      0      0      0      0      0      0
## 612      0      0      0      0      0      0      0      0      0      0      0      0
## 613      0      0      0      0      0      0      0      0      0      0      0      0
## 614      0      0      0      0      0      0      0      0      0      0      0      0
## 615      0      0      0      0      0      0      0      0      0      0      0      0
## 616      0      0      0      0      0      0      0      0      0      0      0      0
## 617      0      0      0      0      0      0      0      0      0      0      0      0
## 618      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 619    0    0    0    0    0    0    0    0    0    0    0    0
## 620    0    0    0    0    0    0    0    0    0    0    0    0
## 621    0    0    0    0    0    0    0    0    0    0    0    0
## 622    0    0    0    0    0    0    0    0    0    0    0    0
## 623    0    0    0    0    0    0    0    0    0    0    0    0
## 624    0    0    0    0    0    0    0    0    0    0    0    0
## 625    0    0    0    0    0    0    0    0    0    0    0    0
## 626    0    0    0    0    0    0    0    0    0    0    0    0
## 627    0    0    0    0    0    0    0    0    0    0    0    0
## 628    0    0    0    0    0    0    0    0    0    0    0    0
## 629    0    0    0    0    0    0    0    0    0    0    0    0
## 630    0    0    0    0    0    0    0    0    0    0    0    0
## 631    0    0    0    0    0    0    0    0    0    0    0    0
## 632    0    0    0    0    0    0    0    0    0    0    0    0
## 633    0    0    0    0    0    0    0    0    0    0    0    0
## 634    0    0    0    0    0    0    0    0    0    0    0    0
## 635    0    0    0    0    0    0    0    0    0    0    0    0
## 636    0    0    0    0    0    0    0    0    0    0    0    0
## 637    0    0    0    0    0    0    0    0    0    0    0    0
## 638    0    0    0    0    0    0    0    0    0    0    0    0
## 639    0    0    0    0    0    0    0    0    0    0    0    0
## 640    0    0    0    0    0    0    0    0    0    0    0    0
## 641    0    0    0    0    0    0    0    0    0    0    0    0
## 642    0    0    0    0    0    0    0    0    0    0    0    0
## 643    0    0    0    0    0    0    0    0    0    0    0    0
## 644    0    0    0    0    0    0    0    0    0    0    0    0
## 645    0    0    0    0    0    0    0    0    0    0    0    0
## 646    0    0    0    0    0    0    0    0    0    0    0    0
## 647    0    0    0    0    0    0    0    0    0    0    0    0
## 648    0    0    0    0    0    0    0    0    0    0    0    0
## 649    0    0    0    0    0    0    0    0    0    0    0    0
## 650    0    0    0    0    0    0    0    0    0    0    0    0
## 651    0    0    0    0    0    0    0    0    0    0    0    0
## 652    0    0    0    0    0    0    0    0    0    0    0    0
## 653    0    0    0    0    0    0    0    0    0    0    0    0
## 654    0    0    0    0    0    0    0    0    0    0    0    0
## 655    0    0    0    0    0    0    0    0    0    0    0    0
## 656    0    0    0    0    0    0    0    0    0    0    0    0
## 657    0    0    0    0    0    0    0    0    0    0    0    0
## 658    0    0    0    0    0    0    0    0    0    0    0    0
## 659    0    0    0    0    0    0    0    0    0    0    0    0
## 660    0    0    0    0    0    0    0    0    0    0    0    0
## 661    0    0    0    0    0    0    0    0    0    0    0    0
## 662    0    0    0    0    0    0    0    0    0    0    0    0
## 663    0    0    0    0    0    0    0    0    0    0    0    0
## 664    0    0    0    0    0    0    0    0    0    0    0    0
## 665    0    0    0    0    0    0    0    0    0    0    0    0
## 666    0    0    0    0    0    0    0    0    0    0    0    0
## 667    0    0    0    0    0    0    0    0    0    0    0    0
## 668    0    0    0    0    0    0    0    0    0    0    0    0
## 669    0    0    0    0    0    0    0    0    0    0    0    0
## 670    0    0    0    0    0    0    0    0    0    0    0    0
## 671    0    0    0    0    0    0    0    0    0    0    0    0
## 672    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 673       0       0       0       0       0       0       0       0       0       0       0       0
## 674       0       0       0       0       0       0       0       0       0       0       0       0
## 675       0       0       0       0       0       0       0       0       0       0       0       0
## 676       0       0       0       0       0       0       0       0       0       0       0       0
## 677       0       0       0       0       0       0       0       0       0       0       0       0
## 678       0       0       0       0       0       0       0       0       0       0       0       0
## 679       0       0       0       0       0       0       0       0       0       0       0       0
## 680       0       0       0       0       0       0       0       0       0       0       0       0
## 681       0       0       0       0       0       0       0       0       0       0       0       0
## 682       0       0       0       0       0       0       0       0       0       0       0       0
## 683       0       0       0       0       0       0       0       0       0       0       0       0
## 684       0       0       0       0       0       0       0       0       0       0       0       0
## 685       0       0       0       0       0       0       0       0       0       0       0       0
## 686       0       0       0       0       0       0       0       0       0       0       0       0
## 687       0       0       0       0       0       0       0       0       0       0       0       0
## 688       0       0       0       0       0       0       0       0       0       0       0       0
## 689       0       0       0       0       0       0       0       0       0       0       0       0
## 690       0       0       0       0       0       0       0       0       0       0       0       0
## 691       0       0       0       0       0       0       0       0       0       0       0       0
## 692       0       0       0       0       0       0       0       0       0       0       0       0
## 693       0       0       0       0       0       0       0       0       0       0       0       0
## 694       0       0       0       0       0       0       0       0       0       0       0       0
## 695       0       0       0       0       0       0       0       0       0       0       0       0
## 696       0       0       0       0       0       0       0       0       0       0       0       0
## 697       0       0       0       0       0       0       0       0       0       0       0       0
## 698       0       0       0       0       0       0       0       0       0       0       0       0
## 699       0       0       0       0       0       0       0       0       0       0       0       0
## 700       0       0       0       0       0       0       0       0       0       0       0       0
## 701       0       0       0       0       0       0       0       0       0       0       0       0
## 702       0       0       0       0       0       0       0       0       0       0       0       0
## 703       0       0       0       0       0       0       0       0       0       0       0       0
## 704       0       0       0       0       0       0       0       0       0       0       0       0
## 705       0       0       0       0       0       0       0       0       0       0       0       0
## 706       0       0       0       0       0       0       0       0       0       0       0       0
## 707       0       0       0       0       0       0       0       0       0       0       0       0
## 708       0       0       0       0       0       0       0       0       0       0       0       0
## 709       0       0       0       0       0       0       0       0       0       0       0       0
## 710       0       0       0       0       0       0       0       0       0       0       0       0
## 711       0       0       0       0       0       0       0       0       0       0       0       0
## 712       0       0       0       0       0       0       0       0       0       0       0       0
## 713       0       0       0       0       0       0       0       0       0       0       0       0
## 714       0       0       0       0       0       0       0       0       0       0       0       0
## 715       0       0       0       0       0       0       0       0       0       0       0       0
## 716       0       0       0       0       0       0       0       0       0       0       0       0
## 717       0       0       0       0       0       0       0       0       0       0       0       0
## 718       0       0       0       0       0       0       0       0       0       0       0       0
## 719       0       0       0       0       0       0       0       0       0       0       0       0
## 720       0       0       0       0       0       0       0       0       0       0       0       0
## 721       0       0       0       0       0       0       0       0       0       0       0       0
## 722       0       0       0       0       0       0       0       0       0       0       0       0
## 723       0       0       0       0       0       0       0       0       0       0       0       0
## 724       0       0       0       0       0       0       0       0       0       0       0       0
## 725       0       0       0       0       0       0       0       0       0       0       0       0
## 726       0       0       0       0       0       0       0       0       0       0       0       0
```

##	727	0	0	0	0	0	0	0	0	0	0	0	0
##	728	0	0	0	0	0	0	0	0	0	0	0	0
##	729	0	0	0	0	0	0	0	0	0	0	0	0
##	730	0	0	0	0	0	0	0	0	0	0	0	0
##	731	0	0	0	0	0	0	0	0	0	0	0	0
##	732	0	0	0	0	0	0	0	0	0	0	0	0
##	733	0	0	0	0	0	0	0	0	0	0	0	0
##	734	0	0	0	0	0	0	0	0	0	0	0	0
##	735	0	0	0	0	0	0	0	0	0	0	0	0
##	736	0	0	0	0	0	0	0	0	0	0	0	0
##	737	0	0	0	0	0	0	0	0	0	0	0	0
##	738	0	0	0	0	0	0	0	0	0	0	0	0
##	739	0	0	0	0	0	0	0	0	0	0	0	0
##	740	0	0	0	0	0	0	0	0	0	0	0	0
##	741	0	0	0	0	0	0	0	0	0	0	0	0
##	742	0	0	0	0	0	0	0	0	0	0	0	0
##	743	0	0	0	0	0	0	0	0	0	0	0	0
##	744	0	0	0	0	0	0	0	0	0	0	0	0
##	745	0	0	0	0	0	0	0	0	0	0	0	0
##	746	0	0	0	0	0	0	0	0	0	0	0	0
##	747	0	0	0	0	0	0	0	0	0	0	0	0
##	748	0	0	0	0	0	0	0	0	0	0	0	0
##	749	0	0	0	0	0	0	0	0	0	0	0	0
##	750	0	0	0	0	0	0	0	0	0	0	0	0
##	751	0	0	0	0	0	0	0	0	0	0	0	0
##	752	0	0	0	0	0	0	0	0	0	0	0	0
##	753	0	0	0	0	0	0	0	0	0	0	0	0
##	754	0	0	0	0	0	0	0	0	0	0	0	0
##	755	0	0	0	0	0	0	0	0	0	0	0	0
##	756	0	0	0	0	0	0	0	0	0	0	0	0
##	757	0	0	0	0	0	0	0	0	0	0	0	0
##	758	0	0	0	0	0	0	0	0	0	0	0	0
##	759	0	0	0	0	0	0	0	0	0	0	0	0
##	760	0	0	0	0	0	0	0	0	0	0	0	0
##	761	0	0	0	0	0	0	0	0	0	0	0	0
##	762	0	0	0	0	0	0	0	0	0	0	0	0
##	763	0	0	0	0	0	0	0	0	0	0	0	0
##	764	0	0	0	0	0	0	0	0	0	0	0	0
##	765	0	0	0	0	0	0	0	0	0	0	0	0
##	766	0	0	0	0	0	0	0	0	0	0	0	0
##	767	0	0	0	0	0	0	0	0	0	0	0	0
##	768	0	0	0	0	0	0	0	0	0	0	0	0
##	769	0	0	0	0	0	0	0	0	0	0	0	0
##	770	0	0	0	0	0	0	0	0	0	0	0	0
##	771	0	0	0	0	0	0	0	0	0	0	0	0
##	772	0	0	0	0	0	0	0	0	0	0	0	0
##	773	0	0	0	0	0	0	0	0	0	0	0	0
##	774	0	0	0	0	0	0	0	0	0	0	0	0
##	775	0	0	0	0	0	0	0	0	0	0	0	0
##	776	0	0	0	0	0	0	0	0	0	0	0	0
##	777	0	0	0	0	0	0	0	0	0	0	0	0
##	778	0	0	0	0	0	0	0	0	0	0	0	0
##	779	0	0	0	0	0	0	0	0	0	0	0	0
##	780	0	0	0	0	0	0	0	0	0	0	0	0

```
## 781      0     0     0     0     0     0     0     0     0     0     0     0
## 782      0     0     0     0     0     0     0     0     0     0     0     0
## 783      0     0     0     0     0     0     0     0     0     0     0     0
## 784      0     0     0     0     0     0     0     0     0     0     0     0
## 785      0     0     0     0     0     0     0     0     0     0     0     0
## 786      0     0     0     0     0     0     0     0     0     0     0     0
## 787      0     0     0     0     0     0     0     0     0     0     0     0
## 788      0     0     0     0     0     0     0     0     0     0     0     0
## 789      0     0     0     0     0     0     0     0     0     0     0     0
## 790      0     0     0     0     0     0     0     0     0     0     0     0
## 791      0     0     0     0     0     0     0     0     0     0     0     0
## 792      0     0     0     0     0     0     0     0     0     0     0     0
## 793      0     0     0     0     0     0     0     0     0     0     0     0
## 794      0     0     0     0     0     0     0     0     0     0     0     0
## 795      0     0     0     0     0     0     0     0     0     0     0     0
## 796      0     0     0     0     0     0     0     0     0     0     0     0
## 797      0     0     0     0     0     0     0     0     0     0     0     0
## 798      0     0     0     0     0     0     0     0     0     0     0     0
## 799      0     0     0     0     0     0     0     0     0     0     0     0
## 800      0     0     0     0     0     0     0     0     0     0     0     0
## 801      0     0     0     0     0     0     0     0     0     0     0     0
## 802      0     0     0     0     0     0     0     0     0     0     0     0
## 803      0     0     0     0     0     0     0     0     0     0     0     0
## 804      0     0     0     0     0     0     0     0     0     0     0     0
## 805      0     0     0     0     0     0     0     0     0     0     0     0
## 806      0     0     0     0     0     0     0     0     0     0     0     0
## 807      0     0     0     0     0     0     0     0     0     0     0     0
## 808      0     0     0     0     0     0     0     0     0     0     0     0
## 809      0     0     0     0     0     0     0     0     0     0     0     0
## 810      0     0     0     0     0     0     0     0     0     0     0     0
## 811      0     0     0     0     0     0     0     0     0     0     0     0
## 812      0     0     0     0     0     0     0     0     0     0     0     0
## 813      0     0     0     0     0     0     0     0     0     0     0     0
## 814      0     0     0     0     0     0     0     0     0     0     0     0
## 815      0     0     0     0     0     0     0     0     0     0     0     0
## 816      0     0     0     0     0     0     0     0     0     0     0     0
## 817      0     0     0     0     0     0     0     0     0     0     0     0
## 818      0     0     0     0     0     0     0     0     0     0     0     0
## 819      0     0     0     0     0     0     0     0     0     0     0     0
## 820      0     0     0     0     0     0     0     0     0     0     0     0
## 821      0     0     0     0     0     0     0     0     0     0     0     0
## 822      0     0     0     0     0     0     0     0     0     0     0     0
## 823      0     0     0     0     0     0     0     0     0     0     0     0
## 824      0     0     0     0     0     0     0     0     0     0     0     0
## 825      0     0     0     0     0     0     0     0     0     0     0     0
## 826      0     0     0     0     0     0     0     0     0     0     0     0
## 827      0     0     0     0     0     0     0     0     0     0     0     0
## 828      0     0     0     0     0     0     0     0     0     0     0     0
## 829      0     0     0     0     0     0     0     0     0     0     0     0
## 830      0     0     0     0     0     0     0     0     0     0     0     0
## 831      0     0     0     0     0     0     0     0     0     0     0     0
## 832      0     0     0     0     0     0     0     0     0     0     0     0
## 833      0     0     0     0     0     0     0     0     0     0     0     0
## 834      0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 835    0    0    0    0    0    0    0    0    0    0    0    0
## 836    0    0    0    0    0    0    0    0    0    0    0    0
## 837    0    0    0    0    0    0    0    0    0    0    0    0
## 838    0    0    0    0    0    0    0    0    0    0    0    0
## 839    0    0    0    0    0    0    0    0    0    0    0    0
## 840    0    0    0    0    0    0    0    0    0    0    0    0
## 841    0    0    0    0    0    0    0    0    0    0    0    0
## 842    0    0    0    0    0    0    0    0    0    0    0    0
## 843    0    0    0    0    0    0    0    0    0    0    0    0
## 844    0    0    0    0    0    0    0    0    0    0    0    0
## 845    0    0    0    0    0    0    0    0    0    0    0    0
## 846    0    0    0    0    0    0    0    0    0    0    0    0
## 847    0    0    0    0    0    0    0    0    0    0    0    0
## 848    0    0    0    0    0    0    0    0    0    0    0    0
## 849    0    0    0    0    0    0    0    0    0    0    0    0
## 850    0    0    0    0    0    0    0    0    0    0    0    0
## 851    0    0    0    0    0    0    0    0    0    0    0    0
## 852    0    0    0    0    0    0    0    0    0    0    0    0
## 853    0    0    0    0    0    0    0    0    0    0    0    0
## 854    0    0    0    0    0    0    0    0    0    0    0    0
## 855    0    0    0    0    0    0    0    0    0    0    0    0
## 856    0    0    0    0    0    0    0    0    0    0    0    0
## 857    0    0    0    0    0    0    0    0    0    0    0    0
## 858    0    0    0    0    0    0    0    0    0    0    0    0
## 859    0    0    0    0    0    0    0    0    0    0    0    0
## 860    0    0    0    0    0    0    0    0    0    0    0    0
## 861    0    0    0    0    0    0    0    0    0    0    0    0
## 862    0    0    0    0    0    0    0    0    0    0    0    0
## 863    0    0    0    0    0    0    0    0    0    0    0    0
## 864    0    0    0    0    0    0    0    0    0    0    0    0
## 865    0    0    0    0    0    0    0    0    0    0    0    0
## 866    0    0    0    0    0    0    0    0    0    0    0    0
## 867    0    0    0    0    0    0    0    0    0    0    0    0
## 868    0    0    0    0    0    0    0    0    0    0    0    0
## 869    0    0    0    0    0    0    0    0    0    0    0    0
## 870    0    0    0    0    0    0    0    0    0    0    0    0
## 871    0    0    0    0    0    0    0    0    0    0    0    0
## 872    0    0    0    0    0    0    0    0    0    0    0    0
## 873    0    0    0    0    0    0    0    0    0    0    0    0
## 874    0    0    0    0    0    0    0    0    0    0    0    0
## 875    0    0    0    0    0    0    0    0    0    0    0    0
## 876    0    0    0    0    0    0    0    0    0    0    0    0
## 877    0    0    0    0    0    0    0    0    0    0    0    0
## 878    0    0    0    0    0    0    0    0    0    0    0    0
## 879    0    0    0    0    0    0    0    0    0    0    0    0
## 880    0    0    0    0    0    0    0    0    0    0    0    0
## 881    0    0    0    0    0    0    0    0    0    0    0    0
## 882    0    0    0    0    0    0    0    0    0    0    0    0
## 883    0    0    0    0    0    0    0    0    0    0    0    0
## 884    0    0    0    0    0    0    0    0    0    0    0    0
## 885    0    0    0    0    0    0    0    0    0    0    0    0
## 886    0    0    0    0    0    0    0    0    0    0    0    0
## 887    0    0    0    0    0    0    0    0    0    0    0    0
## 888    0    0    0    0    0    0    0    0    0    0    0    0
```

##	889	0	0	0	0	0	0	0	0	0	0	0	0
##	890	0	0	0	0	0	0	0	0	0	0	0	0
##	891	0	0	0	0	0	0	0	0	0	0	0	0
##	892	0	0	0	0	0	0	0	0	0	0	0	0
##	893	0	0	0	0	0	0	0	0	0	0	0	0
##	894	0	0	0	0	0	0	0	0	0	0	0	0
##	895	0	0	0	0	0	0	0	0	0	0	0	0
##	896	0	0	0	0	0	0	0	0	0	0	0	0
##	897	0	0	0	0	0	0	0	0	0	0	0	0
##	898	0	0	0	0	0	0	0	0	0	0	0	0
##	899	0	0	0	0	0	0	0	0	0	0	0	0
##	900	0	0	0	0	0	0	0	0	0	0	0	0
##	901	0	0	0	0	0	0	0	0	0	0	0	0
##	902	0	0	0	0	0	0	0	0	0	0	0	0
##	903	0	0	0	0	0	0	0	0	0	0	0	0
##	904	0	0	0	0	0	0	0	0	0	0	0	0
##	905	0	0	0	0	0	0	0	0	0	0	0	0
##	906	0	0	0	0	0	0	0	0	0	0	0	0
##	907	0	0	0	0	0	0	0	0	0	0	0	0
##	908	0	0	0	0	0	0	0	0	0	0	0	0
##	909	0	0	0	0	0	0	0	0	0	0	0	0
##	910	0	0	0	0	0	0	0	0	0	0	0	0
##	911	0	0	0	0	0	0	0	0	0	0	0	0
##	912	0	0	0	0	0	0	0	0	0	0	0	0
##	913	0	0	0	0	0	0	0	0	0	0	0	0
##	914	0	0	0	0	0	0	0	0	0	0	0	0
##	915	0	0	0	0	0	0	0	0	0	0	0	0
##	916	0	0	0	0	0	0	0	0	0	0	0	0
##	917	0	0	0	0	0	0	0	0	0	0	0	0
##	918	0	0	0	0	0	0	0	0	0	0	0	0
##	919	0	0	0	0	0	0	0	0	0	0	0	0
##	920	0	0	0	0	0	0	0	0	0	0	0	0
##	921	0	0	0	0	0	0	0	0	0	0	0	0
##	922	0	0	0	0	0	0	0	0	0	0	0	0
##	923	0	0	0	0	0	0	0	0	0	0	0	0
##	924	0	0	0	0	0	0	0	0	0	0	0	0
##	925	0	0	0	0	0	0	0	0	0	0	0	0
##	926	0	0	0	0	0	0	0	0	0	0	0	0
##	927	0	0	0	0	0	0	0	0	0	0	0	0
##	928	0	0	0	0	0	0	0	0	0	0	0	0
##	929	0	0	0	0	0	0	0	0	0	0	0	0
##	930	0	0	0	0	0	0	0	0	0	0	0	0
##	931	0	0	0	0	0	0	0	0	0	0	0	0
##	932	0	0	0	0	0	0	0	0	0	0	0	0
##	933	0	0	0	0	0	0	0	0	0	0	0	0
##	934	0	0	0	0	0	0	0	0	0	0	0	0
##	935	0	0	0	0	0	0	0	0	0	0	0	0
##	936	0	0	0	0	0	0	0	0	0	0	0	0
##	937	0	0	0	0	0	0	0	0	0	0	0	0
##	938	0	0	0	0	0	0	0	0	0	0	0	0
##	939	0	0	0	0	0	0	0	0	0	0	0	0
##	940	0	0	0	0	0	0	0	0	0	0	0	0
##	941	0	0	0	0	0	0	0	0	0	0	0	0
##	942	0	0	0	0	0	0	0	0	0	0	0	0

```
## 943      0      0      0      0      0      0      0      0      0      0      0      0
## 944      0      0      0      0      0      0      0      0      0      0      0      0
## 945      0      0      0      0      0      0      0      0      0      0      0      0
## 946      0      0      0      0      0      0      0      0      0      0      0      0
## 947      0      0      0      0      0      0      0      0      0      0      0      0
## 948      0      0      0      0      0      0      0      0      0      0      0      0
## 949      0      0      0      0      0      0      0      0      0      0      0      0
## 950      0      0      0      0      0      0      0      0      0      0      0      0
## 951      0      0      0      0      0      0      0      0      0      0      0      0
## 952      0      0      0      0      0      0      0      0      0      0      0      0
## 953      0      0      0      0      0      0      0      0      0      0      0      0
## 954      0      0      0      0      0      0      0      0      0      0      0      0
## 955      0      0      0      0      0      0      0      0      0      0      0      0
## 956      0      0      0      0      0      0      0      0      0      0      0      0
## 957      0      0      0      0      0      0      0      0      0      0      0      0
## 958      0      0      0      0      0      0      0      0      0      0      0      0
## 959      0      0      0      0      0      0      0      0      0      0      0      0
## 960      0      0      0      0      0      0      0      0      0      0      0      0
## 961      0      0      0      0      0      0      0      0      0      0      0      0
## 962      0      0      0      0      0      0      0      0      0      0      0      0
## 963      0      0      0      0      0      0      0      0      0      0      0      0
## 964      0      0      0      0      0      0      0      0      0      0      0      0
## 965      0      0      0      0      0      0      0      0      0      0      0      0
## 966      0      0      0      0      0      0      0      0      0      0      0      0
## 967      0      0      0      0      0      0      0      0      0      0      0      0
## 968      0      0      0      0      0      0      0      0      0      0      0      0
## 969      0      0      0      0      0      0      0      0      0      0      0      0
## 970      0      0      0      0      0      0      0      0      0      0      0      0
## 971      0      0      0      0      0      0      0      0      0      0      0      0
## 972      0      0      0      0      0      0      0      0      0      0      0      0
## 973      0      0      0      0      0      0      0      0      0      0      0      0
## 974      0      0      0      0      0      0      0      0      0      0      0      0
## 975      0      0      0      0      0      0      0      0      0      0      0      0
## 976      0      0      0      0      0      0      0      0      0      0      0      0
## 977      0      0      0      0      0      0      0      0      0      0      0      0
## 978      0      0      0      0      0      0      0      0      0      0      0      0
## 979      0      0      0      0      0      0      0      0      0      0      0      0
## 980      0      0      0      0      0      0      0      0      0      0      0      0
## 981      0      0      0      0      0      0      0      0      0      0      0      0
## 982      0      0      0      0      0      0      0      0      0      0      0      0
## 983      0      0      0      0      0      0      0      0      0      0      0      0
## 984      0      0      0      0      0      0      0      0      0      0      0      0
## 985      0      0      0      0      0      0      0      0      0      0      0      0
## 986      0      0      0      0      0      0      0      0      0      0      0      0
## 987      0      0      0      0      0      0      0      0      0      0      0      0
## 988      0      0      0      0      0      0      0      0      0      0      0      0
## 989      0      0      0      0      0      0      0      0      0      0      0      0
## 990      0      0      0      0      0      0      0      0      0      0      0      0
## 991      0      0      0      0      0      0      0      0      0      0      0      0
## 992      0      0      0      0      0      0      0      0      0      0      0      0
## 993      0      0      0      0      0      0      0      0      0      0      0      0
## 994      0      0      0      0      0      0      0      0      0      0      0      0
## 995      0      0      0      0      0      0      0      0      0      0      0      0
## 996      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 997      0   0   0   0   0   0   0   0   0   0   0   0
## 998      0   0   0   0   0   0   0   0   0   0   0   0
## 999      0   0   0   0   0   0   0   0   0   0   0   0
## 1000     0   0   0   0   0   0   0   0   0   0   0   0
## 1001     0   0   0   0   0   0   0   0   0   0   0   0
## 1002     0   0   0   0   0   0   0   0   0   0   0   0
## 1003     0   0   0   0   0   0   0   0   0   0   0   0
## 1004     0   0   0   0   0   0   0   0   0   0   0   0
## 1005     0   0   0   0   0   0   0   0   0   0   0   0
## 1006     0   0   0   0   0   0   0   0   0   0   0   0
## 1007     0   0   0   0   0   0   0   0   0   0   0   0
## 1008     0   0   0   0   0   0   0   0   0   0   0   0
## 1009     0   0   0   0   0   0   0   0   0   0   0   0
## 1010     0   0   0   0   0   0   0   0   0   0   0   0
## 1011     0   0   0   0   0   0   0   0   0   0   0   0
## 1012     0   0   0   0   0   0   0   0   0   0   0   0
## 1013     0   0   0   0   0   0   0   0   0   0   0   0
## 1014     0   0   0   0   0   0   0   0   0   0   0   0
## 1015     0   0   0   0   0   0   0   0   0   0   0   0
## 1016     0   0   0   0   0   0   0   0   0   0   0   0
## 1017     0   0   0   0   0   0   0   0   0   0   0   0
## 1018     0   0   0   0   0   0   0   0   0   0   0   0
## 1019     0   0   0   0   0   0   0   0   0   0   0   0
## 1020     0   0   0   0   0   0   0   0   0   0   0   0
## 1021     0   0   0   0   0   0   0   0   0   0   0   0
## 1022     0   0   0   0   0   0   0   0   0   0   0   0
## 1023     0   0   0   0   0   0   0   0   0   0   0   0
## 1024     0   0   0   0   0   0   0   0   0   0   0   0
## 1025     0   0   0   0   0   0   0   0   0   0   0   0
## 1026     0   0   0   0   0   0   0   0   0   0   0   0
## 1027     0   0   0   0   0   0   0   0   0   0   0   0
## 1028     0   0   0   0   0   0   0   0   0   0   0   0
## 1029     0   0   0   0   0   0   0   0   0   0   0   0
## 1030     0   0   0   0   0   0   0   0   0   0   0   0
## 1031     0   0   0   0   0   0   0   0   0   0   0   0
## 1032     0   0   0   0   0   0   0   0   0   0   0   0
## 1033     0   0   0   0   0   0   0   0   0   0   0   0
## 1034     0   0   0   0   0   0   0   0   0   0   0   0
## 1035     0   0   0   0   0   0   0   0   0   0   0   0
## 1036     0   0   0   0   0   0   0   0   0   0   0   0
## 1037     0   0   0   0   0   0   0   0   0   0   0   0
## 1038     0   0   0   0   0   0   0   0   0   0   0   0
## 1039     0   0   0   0   0   0   0   0   0   0   0   0
## 1040     0   0   0   0   0   0   0   0   0   0   0   0
## 1041     0   0   0   0   0   0   0   0   0   0   0   0
## 1042     0   0   0   0   0   0   0   0   0   0   0   0
## 1043     0   0   0   0   0   0   0   0   0   0   0   0
## 1044     0   0   0   0   0   0   0   0   0   0   0   0
## 1045     0   0   0   0   0   0   0   0   0   0   0   0
## 1046     0   0   0   0   0   0   0   0   0   0   0   0
## 1047     0   0   0   0   0   0   0   0   0   0   0   0
## 1048     0   0   0   0   0   0   0   0   0   0   0   0
## 1049     0   0   0   0   0   0   0   0   0   0   0   0
## 1050     0   0   0   0   0   0   0   0   0   0   0   0
```

##	1051	0	0	0	0	0	0	0	0	0	0	0	0
##	1052	0	0	0	0	0	0	0	0	0	0	0	0
##	1053	0	0	0	0	0	0	0	0	0	0	0	0
##	1054	0	0	0	0	0	0	0	0	0	0	0	0
##	1055	0	0	0	0	0	0	0	0	0	0	0	0
##	1056	0	0	0	0	0	0	0	0	0	0	0	0
##	1057	0	0	0	0	0	0	0	0	0	0	0	0
##	1058	0	0	0	0	0	0	0	0	0	0	0	0
##	1059	0	0	0	0	0	0	0	0	0	0	0	0
##	1060	0	0	0	0	0	0	0	0	0	0	0	0
##	1061	0	0	0	0	0	0	0	0	0	0	0	0
##	1062	0	0	0	0	0	0	0	0	0	0	0	0
##	1063	0	0	0	0	0	0	0	0	0	0	0	0
##	1064	0	0	0	0	0	0	0	0	0	0	0	0
##	1065	0	0	0	0	0	0	0	0	0	0	0	0
##	1066	0	0	0	0	0	0	0	0	0	0	0	0
##	1067	0	0	0	0	0	0	0	0	0	0	0	0
##	1068	0	0	0	0	0	0	0	0	0	0	0	0
##	1069	0	0	0	0	0	0	0	0	0	0	0	0
##	1070	0	0	0	0	0	0	0	0	0	0	0	0
##	1071	0	0	0	0	0	0	0	0	0	0	0	0
##	1072	0	0	0	0	0	0	0	0	0	0	0	0
##	1073	0	0	0	0	0	0	0	0	0	0	0	0
##	1074	0	0	0	0	0	0	0	0	0	0	0	0
##	1075	0	0	0	0	0	0	0	0	0	0	0	0
##	1076	0	0	0	0	0	0	0	0	0	0	0	0
##	1077	0	0	0	0	0	0	0	0	0	0	0	0
##	1078	0	0	0	0	0	0	0	0	0	0	0	0
##	1079	0	0	0	0	0	0	0	0	0	0	0	0
##	1080	0	0	0	0	0	0	0	0	0	0	0	0
##	1081	0	0	0	0	0	0	0	0	0	0	0	0
##	1082	0	0	0	0	0	0	0	0	0	0	0	0
##	1083	0	0	0	0	0	0	0	0	0	0	0	0
##	1084	0	0	0	0	0	0	0	0	0	0	0	0
##	1085	0	0	0	0	0	0	0	0	0	0	0	0
##	1086	0	0	0	0	0	0	0	0	0	0	0	0
##	1087	0	0	0	0	0	0	0	0	0	0	0	0
##	1088	0	0	0	0	0	0	0	0	0	0	0	0
##	1089	0	0	0	0	0	0	0	0	0	0	0	0
##	1090	0	0	0	0	0	0	0	0	0	0	0	0
##	1091	0	0	0	0	0	0	0	0	0	0	0	0
##	1092	0	0	0	0	0	0	0	0	0	0	0	0
##	1093	0	0	0	0	0	0	0	0	0	0	0	0
##	1094	0	0	0	0	0	0	0	0	0	0	0	0
##	1095	0	0	0	0	0	0	0	0	0	0	0	0
##	1096	0	0	0	0	0	0	0	0	0	0	0	0
##	1097	0	0	0	0	0	0	0	0	0	0	0	0
##	1098	0	0	0	0	0	0	0	0	0	0	0	0
##	1099	0	0	0	0	0	0	0	0	0	0	0	0
##	1100	0	0	0	0	0	0	0	0	0	0	0	0
##	1101	0	0	0	0	0	0	0	0	0	0	0	0
##	1102	0	0	0	0	0	0	0	0	0	0	0	0
##	1103	0	0	0	0	0	0	0	0	0	0	0	0
##	1104	0	0	0	0	0	0	0	0	0	0	0	0

##	1105	0	0	0	0	0	0	0	0	0	0	0	0
##	1106	0	0	0	0	0	0	0	0	0	0	0	0
##	1107	0	0	0	0	0	0	0	0	0	0	0	0
##	1108	0	0	0	0	0	0	0	0	0	0	0	0
##	1109	0	0	0	0	0	0	0	0	0	0	0	0
##	1110	0	0	0	0	0	0	0	0	0	0	0	0
##	1111	0	0	0	0	0	0	0	0	0	0	0	0
##	1112	0	0	0	0	0	0	0	0	0	0	0	0
##	1113	0	0	0	0	0	0	0	0	0	0	0	0
##	1114	0	0	0	0	0	0	0	0	0	0	0	0
##	1115	0	0	0	0	0	0	0	0	0	0	0	0
##	1116	0	0	0	0	0	0	0	0	0	0	0	0
##	1117	0	0	0	0	0	0	0	0	0	0	0	0
##	1118	0	0	0	0	0	0	0	0	0	0	0	0
##	1119	0	0	0	0	0	0	0	0	0	0	0	0
##	1120	0	0	0	0	0	0	0	0	0	0	0	0
##	1121	0	0	0	0	0	0	0	0	0	0	0	0
##	1122	0	0	0	0	0	0	0	0	0	0	0	0
##	1123	0	0	0	0	0	0	0	0	0	0	0	0
##	1124	0	0	0	0	0	0	0	0	0	0	0	0
##	1125	0	0	0	0	0	0	0	0	0	0	0	0
##	1126	0	0	0	0	0	0	0	0	0	0	0	0
##	1127	0	0	0	0	0	0	0	0	0	0	0	0
##	1128	0	0	0	0	0	0	0	0	0	0	0	0
##	1129	0	0	0	0	0	0	0	0	0	0	0	0
##	1130	0	0	0	0	0	0	0	0	0	0	0	0
##	1131	0	0	0	0	0	0	0	0	0	0	0	0
##	1132	0	0	0	0	0	0	0	0	0	0	0	0
##	1133	0	0	0	0	0	0	0	0	0	0	0	0
##	1134	0	0	0	0	0	0	0	0	0	0	0	0
##	1135	0	0	0	0	0	0	0	0	0	0	0	0
##	1136	0	0	0	0	0	0	0	0	0	0	0	0
##	1137	0	0	0	0	0	0	0	0	0	0	0	0
##	1138	0	0	0	0	0	0	0	0	0	0	0	0
##	1139	0	0	0	0	0	0	0	0	0	0	0	0
##	1140	0	0	0	0	0	0	0	0	0	0	0	0
##	1141	0	0	0	0	0	0	0	0	0	0	0	0
##	1142	0	0	0	0	0	0	0	0	0	0	0	0
##	1143	0	0	0	0	0	0	0	0	0	0	0	0
##	1144	0	0	0	0	0	0	0	0	0	0	0	0
##	1145	0	0	0	0	0	0	0	0	0	0	0	0
##	1146	0	0	0	0	0	0	0	0	0	0	0	0
##	1147	0	0	0	0	0	0	0	0	0	0	0	0
##	1148	0	0	0	0	0	0	0	0	0	0	0	0
##	1149	0	0	0	0	0	0	0	0	0	0	0	0
##	1150	0	0	0	0	0	0	0	0	0	0	0	0
##	1151	0	0	0	0	0	0	0	0	0	0	0	0
##	1152	0	0	0	0	0	0	0	0	0	0	0	0
##	1153	0	0	0	0	0	0	0	0	0	0	0	0
##	1154	0	0	0	0	0	0	0	0	0	0	0	0
##	1155	0	0	0	0	0	0	0	0	0	0	0	0
##	1156	0	0	0	0	0	0	0	0	0	0	0	0
##	1157	0	0	0	0	0	0	0	0	0	0	0	0
##	1158	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1159    0    0    0    0    0    0    0    0    0    0    0    0
## 1160    0    0    0    0    0    0    0    0    0    0    0    0
## 1161    0    0    0    0    0    0    0    0    0    0    0    0
## 1162    0    0    0    0    0    0    0    0    0    0    0    0
## 1163    0    0    0    0    0    0    0    0    0    0    0    0
## 1164    0    0    0    0    0    0    0    0    0    0    0    0
## 1165    0    0    0    0    0    0    0    0    0    0    0    0
## 1166    0    0    0    0    0    0    0    0    0    0    0    0
## 1167    0    0    0    0    0    0    0    0    0    0    0    0
## 1168    0    0    0    0    0    0    0    0    0    0    0    0
## 1169    0    0    0    0    0    0    0    0    0    0    0    0
## 1170    0    0    0    0    0    0    0    0    0    0    0    0
## 1171    0    0    0    0    0    0    0    0    0    0    0    0
## 1172    0    0    0    0    0    0    0    0    0    0    0    0
## 1173    0    0    0    0    0    0    0    0    0    0    0    0
## 1174    0    0    0    0    0    0    0    0    0    0    0    0
## 1175    0    0    0    0    0    0    0    0    0    0    0    0
## 1176    0    0    0    0    0    0    0    0    0    0    0    0
## 1177    0    0    0    0    0    0    0    0    0    0    0    0
## 1178    0    0    0    0    0    0    0    0    0    0    0    0
## 1179    0    0    0    0    0    0    0    0    0    0    0    0
## 1180    0    0    0    0    0    0    0    0    0    0    0    0
## 1181    0    0    0    0    0    0    0    0    0    0    0    0
## 1182    0    0    0    0    0    0    0    0    0    0    0    0
## 1183    0    0    0    0    0    0    0    0    0    0    0    0
## 1184    0    0    0    0    0    0    0    0    0    0    0    0
## 1185    0    0    0    0    0    0    0    0    0    0    0    0
## 1186    0    0    0    0    0    0    0    0    0    0    0    0
## 1187    0    0    0    0    0    0    0    0    0    0    0    0
## 1188    0    0    0    0    0    0    0    0    0    0    0    0
## 1189    0    0    0    0    0    0    0    0    0    0    0    0
## 1190    0    0    0    0    0    0    0    0    0    0    0    0
## 1191    0    0    0    0    0    0    0    0    0    0    0    0
## 1192    0    0    0    0    0    0    0    0    0    0    0    0
## 1193    0    0    0    0    0    0    0    0    0    0    0    0
## 1194    0    0    0    0    0    0    0    0    0    0    0    0
## 1195    0    0    0    0    0    0    0    0    0    0    0    0
## 1196    0    0    0    0    0    0    0    0    0    0    0    0
## 1197    0    0    0    0    0    0    0    0    0    0    0    0
## 1198    0    0    0    0    0    0    0    0    0    0    0    0
## 1199    0    0    0    0    0    0    0    0    0    0    0    0
## 1200    0    0    0    0    0    0    0    0    0    0    0    0
## 1201    0    0    0    0    0    0    0    0    0    0    0    0
## 1202    0    0    0    0    0    0    0    0    0    0    0    0
## 1203    0    0    0    0    0    0    0    0    0    0    0    0
## 1204    0    0    0    0    0    0    0    0    0    0    0    0
## 1205    0    0    0    0    0    0    0    0    0    0    0    0
## 1206    0    0    0    0    0    0    0    0    0    0    0    0
## 1207    0    0    0    0    0    0    0    0    0    0    0    0
## 1208    0    0    0    0    0    0    0    0    0    0    0    0
## 1209    0    0    0    0    0    0    0    0    0    0    0    0
## 1210    0    0    0    0    0    0    0    0    0    0    0    0
## 1211    0    0    0    0    0    0    0    0    0    0    0    0
## 1212    0    0    0    0    0    0    0    0    0    0    0    0
```

##	1213	0	0	0	0	0	0	0	0	0	0	0	0
##	1214	0	0	0	0	0	0	0	0	0	0	0	0
##	1215	0	0	0	0	0	0	0	0	0	0	0	0
##	1216	0	0	0	0	0	0	0	0	0	0	0	0
##	1217	0	0	0	0	0	0	0	0	0	0	0	0
##	1218	0	0	0	0	0	0	0	0	0	0	0	0
##	1219	0	0	0	0	0	0	0	0	0	0	0	0
##	1220	0	0	0	0	0	0	0	0	0	0	0	0
##	1221	0	0	0	0	0	0	0	0	0	0	0	0
##	1222	0	0	0	0	0	0	0	0	0	0	0	0
##	1223	0	0	0	0	0	0	0	0	0	0	0	0
##	1224	0	0	0	0	0	0	0	0	0	0	0	0
##	1225	0	0	0	0	0	0	0	0	0	0	0	0
##	1226	0	0	0	0	0	0	0	0	0	0	0	0
##	1227	0	0	0	0	0	0	0	0	0	0	0	0
##	1228	0	0	0	0	0	0	0	0	0	0	0	0
##	1229	0	0	0	0	0	0	0	0	0	0	0	0
##	1230	0	0	0	0	0	0	0	0	0	0	0	0
##	1231	0	0	0	0	0	0	0	0	0	0	0	0
##	1232	0	0	0	0	0	0	0	0	0	0	0	0
##	1233	0	0	0	0	0	0	0	0	0	0	0	0
##	1234	0	0	0	0	0	0	0	0	0	0	0	0
##	1235	0	0	0	0	0	0	0	0	0	0	0	0
##	1236	0	0	0	0	0	0	0	0	0	0	0	0
##	1237	0	0	0	0	0	0	0	0	0	0	0	0
##	1238	0	0	0	0	0	0	0	0	0	0	0	0
##	1239	0	0	0	0	0	0	0	0	0	0	0	0
##	1240	0	0	0	0	0	0	0	0	0	0	0	0
##	1241	0	0	0	0	0	0	0	0	0	0	0	0
##	1242	0	0	0	0	0	0	0	0	0	0	0	0
##	1243	0	0	0	0	0	0	0	0	0	0	0	0
##	1244	0	0	0	0	0	0	0	0	0	0	0	0
##	1245	0	0	0	0	0	0	0	0	0	0	0	0
##	1246	0	0	0	0	0	0	0	0	0	0	0	0
##	1247	0	0	0	0	0	0	0	0	0	0	0	0
##	1248	0	0	0	0	0	0	0	0	0	0	0	0
##	1249	0	0	0	0	0	0	0	0	0	0	0	0
##	1250	0	0	0	0	0	0	0	0	0	0	0	0
##	1251	0	0	0	0	0	0	0	0	0	0	0	0
##	1252	0	0	0	0	0	0	0	0	0	0	0	0
##	1253	0	0	0	0	0	0	0	0	0	0	0	0
##	1254	0	0	0	0	0	0	0	0	0	0	0	0
##	1255	0	0	0	0	0	0	0	0	0	0	0	0
##	1256	0	0	0	0	0	0	0	0	0	0	0	0
##	1257	0	0	0	0	0	0	0	0	0	0	0	0
##	1258	0	0	0	0	0	0	0	0	0	0	0	0
##	1259	0	0	0	0	0	0	0	0	0	0	0	0
##	1260	0	0	0	0	0	0	0	0	0	0	0	0
##	1261	0	0	0	0	0	0	0	0	0	0	0	0
##	1262	0	0	0	0	0	0	0	0	0	0	0	0
##	1263	0	0	0	0	0	0	0	0	0	0	0	0
##	1264	0	0	0	0	0	0	0	0	0	0	0	0
##	1265	0	0	0	0	0	0	0	0	0	0	0	0
##	1266	0	0	0	0	0	0	0	0	0	0	0	0

##	1267	0	0	0	0	0	0	0	0	0	0	0	0
##	1268	0	0	0	0	0	0	0	0	0	0	0	0
##	1269	0	0	0	0	0	0	0	0	0	0	0	0
##	1270	0	0	0	0	0	0	0	0	0	0	0	0
##	1271	0	0	0	0	0	0	0	0	0	0	0	0
##	1272	0	0	0	0	0	0	0	0	0	0	0	0
##	1273	0	0	0	0	0	0	0	0	0	0	0	0
##	1274	0	0	0	0	0	0	0	0	0	0	0	0
##	1275	0	0	0	0	0	0	0	0	0	0	0	0
##	1276	0	0	0	0	0	0	0	0	0	0	0	0
##	1277	0	0	0	0	0	0	0	0	0	0	0	0
##	1278	0	0	0	0	0	0	0	0	0	0	0	0
##	1279	0	0	0	0	0	0	0	0	0	0	0	0
##	1280	0	0	0	0	0	0	0	0	0	0	0	0
##	1281	0	0	0	0	0	0	0	0	0	0	0	0
##	1282	0	0	0	0	0	0	0	0	0	0	0	0
##	1283	0	0	0	0	0	0	0	0	0	0	0	0
##	1284	0	0	0	0	0	0	0	0	0	0	0	0
##	1285	0	0	0	0	0	0	0	0	0	0	0	0
##	1286	0	0	0	0	0	0	0	0	0	0	0	0
##	1287	0	0	0	0	0	0	0	0	0	0	0	0
##	1288	0	0	0	0	0	0	0	0	0	0	0	0
##	1289	0	0	0	0	0	0	0	0	0	0	0	0
##	1290	0	0	0	0	0	0	0	0	0	0	0	0
##	1291	0	0	0	0	0	0	0	0	0	0	0	0
##	1292	0	0	0	0	0	0	0	0	0	0	0	0
##	1293	0	0	0	0	0	0	0	0	0	0	0	0
##	1294	0	0	0	0	0	0	0	0	0	0	0	0
##	1295	0	0	0	0	0	0	0	0	0	0	0	0
##	1296	0	0	0	0	0	0	0	0	0	0	0	0
##	1297	0	0	0	0	0	0	0	0	0	0	0	0
##	1298	0	0	0	0	0	0	0	0	0	0	0	0
##	1299	0	0	0	0	0	0	0	0	0	0	0	0
##	1300	0	0	0	0	0	0	0	0	0	0	0	0
##	1301	0	0	0	0	0	0	0	0	0	0	0	0
##	1302	0	0	0	0	0	0	0	0	0	0	0	0
##	1303	0	0	0	0	0	0	0	0	0	0	0	0
##	1304	0	0	0	0	0	0	0	0	0	0	0	0
##	1305	0	0	0	0	0	0	0	0	0	0	0	0
##	1306	0	0	0	0	0	0	0	0	0	0	0	0
##	1307	0	0	0	0	0	0	0	0	0	0	0	0
##	1308	0	0	0	0	0	0	0	0	0	0	0	0
##	1309	0	0	0	0	0	0	0	0	0	0	0	0
##	1310	0	0	0	0	0	0	0	0	0	0	0	0
##	1311	0	0	0	0	0	0	0	0	0	0	0	0
##	1312	0	0	0	0	0	0	0	0	0	0	0	0
##	1313	0	0	0	0	0	0	0	0	0	0	0	0
##	1314	0	0	0	0	0	0	0	0	0	0	0	0
##	1315	0	0	0	0	0	0	0	0	0	0	0	0
##	1316	0	0	0	0	0	0	0	0	0	0	0	0
##	1317	0	0	0	0	0	0	0	0	0	0	0	0
##	1318	0	0	0	0	0	0	0	0	0	0	0	0
##	1319	0	0	0	0	0	0	0	0	0	0	0	0
##	1320	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1321       0     0     0     0     0     0     0     0     0     0     0     0
## 1322       0     0     0     0     0     0     0     0     0     0     0     0
## 1323       0     0     0     0     0     0     0     0     0     0     0     0
## 1324       0     0     0     0     0     0     0     0     0     0     0     0
## 1325       0     0     0     0     0     0     0     0     0     0     0     0
## 1326       0     0     0     0     0     0     0     0     0     0     0     0
## 1327       0     0     0     0     0     0     0     0     0     0     0     0
## 1328       0     0     0     0     0     0     0     0     0     0     0     0
## 1329       0     0     0     0     0     0     0     0     0     0     0     0
## 1330       0     0     0     0     0     0     0     0     0     0     0     0
## 1331       0     0     0     0     0     0     0     0     0     0     0     0
## 1332       0     0     0     0     0     0     0     0     0     0     0     0
## 1333       0     0     0     0     0     0     0     0     0     0     0     0
## 1334       0     0     0     0     0     0     0     0     0     0     0     0
## 1335       0     0     0     0     0     0     0     0     0     0     0     0
## 1336       0     0     0     0     0     0     0     0     0     0     0     0
## 1337       0     0     0     0     0     0     0     0     0     0     0     0
## 1338       0     0     0     0     0     0     0     0     0     0     0     0
## 1339       0     0     0     0     0     0     0     0     0     0     0     0
## 1340       0     0     0     0     0     0     0     0     0     0     0     0
## 1341       0     0     0     0     0     0     0     0     0     0     0     0
## 1342       0     0     0     0     0     0     0     0     0     0     0     0
## 1343       0     0     0     0     0     0     0     0     0     0     0     0
## 1344       0     0     0     0     0     0     0     0     0     0     0     0
## 1345       0     0     0     0     0     0     0     0     0     0     0     0
## 1346       0     0     0     0     0     0     0     0     0     0     0     0
## 1347       0     0     0     0     0     0     0     0     0     0     0     0
## 1348       0     0     0     0     0     0     0     0     0     0     0     0
## 1349       0     0     0     0     0     0     0     0     0     0     0     0
## 1350       0     0     0     0     0     0     0     0     0     0     0     0
## 1351       0     0     0     0     0     0     0     0     0     0     0     0
## 1352       0     0     0     0     0     0     0     0     0     0     0     0
## 1353       0     0     0     0     0     0     0     0     0     0     0     0
## 1354       0     0     0     0     0     0     0     0     0     0     0     0
## 1355       0     0     0     0     0     0     0     0     0     0     0     0
## 1356       0     0     0     0     0     0     0     0     0     0     0     0
## 1357       0     0     0     0     0     0     0     0     0     0     0     0
## 1358       0     0     0     0     0     0     0     0     0     0     0     0
## 1359       0     0     0     0     0     0     0     0     0     0     0     0
## 1360       0     0     0     0     0     0     0     0     0     0     0     0
## 1361       0     0     0     0     0     0     0     0     0     0     0     0
## 1362       0     0     0     0     0     0     0     0     0     0     0     0
## 1363       0     0     0     0     0     0     0     0     0     0     0     0
## 1364       0     0     0     0     0     0     0     0     0     0     0     0
## 1365       0     0     0     0     0     0     0     0     0     0     0     0
## 1366       0     0     0     0     0     0     0     0     0     0     0     0
## 1367       0     0     0     0     0     0     0     0     0     0     0     0
## 1368       0     0     0     0     0     0     0     0     0     0     0     0
## 1369       0     0     0     0     0     0     0     0     0     0     0     0
## 1370       0     0     0     0     0     0     0     0     0     0     0     0
## 1371       0     0     0     0     0     0     0     0     0     0     0     0
## 1372       0     0     0     0     0     0     0     0     0     0     0     0
## 1373       0     0     0     0     0     0     0     0     0     0     0     0
## 1374       0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 1375      0    0    0    0    0    0    0    0    0    0    0    0
## 1376      0    0    0    0    0    0    0    0    0    0    0    0
## 1377      0    0    0    0    0    0    0    0    0    0    0    0
## 1378      0    0    0    0    0    0    0    0    0    0    0    0
## 1379      0    0    0    0    0    0    0    0    0    0    0    0
## 1380      0    0    0    0    0    0    0    0    0    0    0    0
## 1381      0    0    0    0    0    0    0    0    0    0    0    0
## 1382      0    0    0    0    0    0    0    0    0    0    0    0
## 1383      0    0    0    0    0    0    0    0    0    0    0    0
## 1384      0    0    0    0    0    0    0    0    0    0    0    0
## 1385      0    0    0    0    0    0    0    0    0    0    0    0
## 1386      0    0    0    0    0    0    0    0    0    0    0    0
## 1387      0    0    0    0    0    0    0    0    0    0    0    0
## 1388      0    0    0    0    0    0    0    0    0    0    0    0
## 1389      0    0    0    0    0    0    0    0    0    0    0    0
## 1390      0    0    0    0    0    0    0    0    0    0    0    0
## 1391      0    0    0    0    0    0    0    0    0    0    0    0
## 1392      0    0    0    0    0    0    0    0    0    0    0    0
## 1393      0    0    0    0    0    0    0    0    0    0    0    0
## 1394      0    0    0    0    0    0    0    0    0    0    0    0
## 1395      0    0    0    0    0    0    0    0    0    0    0    0
## 1396      0    0    0    0    0    0    0    0    0    0    0    0
## 1397      0    0    0    0    0    0    0    0    0    0    0    0
## 1398      0    0    0    0    0    0    0    0    0    0    0    0
## 1399      0    0    0    0    0    0    0    0    0    0    0    0
## 1400      0    0    0    0    0    0    0    0    0    0    0    0
## 1401      0    0    0    0    0    0    0    0    0    0    0    0
## 1402      0    0    0    0    0    0    0    0    0    0    0    0
## 1403      0    0    0    0    0    0    0    0    0    0    0    0
## 1404      0    0    0    0    0    0    0    0    0    0    0    0
## 1405      0    0    0    0    0    0    0    0    0    0    0    0
## 1406      0    0    0    0    0    0    0    0    0    0    0    0
## 1407      0    0    0    0    0    0    0    0    0    0    0    0
## 1408      0    0    0    0    0    0    0    0    0    0    0    0
## 1409      0    0    0    0    0    0    0    0    0    0    0    0
## 1410      0    0    0    0    0    0    0    0    0    0    0    0
## 1411      0    0    0    0    0    0    0    0    0    0    0    0
## 1412      0    0    0    0    0    0    0    0    0    0    0    0
## 1413      0    0    0    0    0    0    0    0    0    0    0    0
## 1414      0    0    0    0    0    0    0    0    0    0    0    0
## 1415      0    0    0    0    0    0    0    0    0    0    0    0
## 1416      0    0    0    0    0    0    0    0    0    0    0    0
## 1417      0    0    0    0    0    0    0    0    0    0    0    0
## 1418      0    0    0    0    0    0    0    0    0    0    0    0
## 1419      0    0    0    0    0    0    0    0    0    0    0    0
## 1420      0    0    0    0    0    0    0    0    0    0    0    0
## 1421      0    0    0    0    0    0    0    0    0    0    0    0
## 1422      0    0    0    0    0    0    0    0    0    0    0    0
## 1423      0    0    0    0    0    0    0    0    0    0    0    0
## 1424      0    0    0    0    0    0    0    0    0    0    0    0
## 1425      0    0    0    0    0    0    0    0    0    0    0    0
## 1426      0    0    0    0    0    0    0    0    0    0    0    0
## 1427      0    0    0    0    0    0    0    0    0    0    0    0
## 1428      0    0    0    0    0    0    0    0    0    0    0    0
```

```
##          [,50] [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60] [,61]
##    1        0     0     0     0     0     0     0     0     0     0     0     0
##    2        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##    3        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##    4        0     0     0     0     0     0     0     0     0     0     0     0
##    5        0     0     0     0     0     0     0     0     0     0     0     0
##    6        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##    7        0     0     0     0     0     0     0     0     0     0     0     0
##    8        0     0     0     0     0     0     0     0     0     0     0     0
##    9        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   10        0     0     0     0     0     0     0     0     0     0     0     0
##   11        0     0     0     0     0     0     0     0     0     0     0     0
##   12        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   13        0     0     0     0     0     0     0     0     0     0     0     0
##   14        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   15        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   16        0     0     0     0     0     0     0     0     0     0     0     0
##   17        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   18        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   19        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   20        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   21        0     0     0     0     0     0     0     0     0     0     0     0
##   22        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   23        0     0     0     0     0     0     0     0     0     0     0     0
##   24        0     0     0     0     0     0     0     0     0     0     0     0
##   25        0     0     0     0     0     0     0     0     0     0     0     0
##   26        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   27        0     0     0     0     0     0     0     0     0     0     0     0
##   28        0     0     0     0     0     0     0     0     0     0     0     0
##   29        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   30        0     0     0     0     0     0     0     0     0     0     0     0
##   31        0     0     0     0     0     0     0     0     0     0     0     0
##   32        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   33        0     0     0     0     0     0     0     0     0     0     0     0
##   34        0     0     0     0     0     0     0     0     0     0     0     0
##   35        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   36        0     0     0     0     0     0     0     0     0     0     0     0
##   37        0     0     0     0     0     0     0     0     0     0     0     0
##   38        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   39        0     0     0     0     0     0     0     0     0     0     0     0
##   40        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   41        0     0     0     0     0     0     0     0     0     0     0     0
##   42        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   43        0     0     0     0     0     0     0     0     0     0     0     0
##   44        0     0     0     0     0     0     0     0     0     0     0     0
##   45        0     0     0     0     0     0     0     0     0     0     0     0
##   46        0     0     0     0     0     0     0     0     0     0     0     0
##   47        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   48        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   49        0     0     0     0     0     0     0     0     0     0     0     0
##   50        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
##   51        0     0     0     0     0     0     0     0     0     0     0     0
##   52        0     0     0     0     0     0     0     0     0     0     0     0
##   53        0     0     0     0     0     0     0    NA    NA    NA    NA    NA
```

```
##    54    0    0    0    0    0    0    0     0     0     0     0     0
##    55    0    0    0    0    0    0    0     0     0     0     0     0
##    56    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    57    0    0    0    0    0    0    0     0     0     0     0     0
##    58    0    0    0    0    0    0    0     0     0     0     0     0
##    59    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    60    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    61    0    0    0    0    0    0    0     0     0     0     0     0
##    62    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    63    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    64    0    0    0    0    0    0    0     0     0     0     0     0
##    65    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    66    0    0    0    0    0    0    0     0     0     0     0     0
##    67    0    0    0    0    0    0    0     0     0     0     0     0
##    68    0    0    0    0    0    0    0     0     0     0     0     0
##    69    0    0    0    0    0    0    0     0     0     0     0     0
##    70    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    71    0    0    0    0    0    0    0     0     0     0     0     0
##    72    0    0    0    0    0    0    0     0     0     0     0     0
##    73    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    74    0    0    0    0    0    0    0     0     0     0     0     0
##    75    0    0    0    0    0    0    0     0     0     0     0     0
##    76    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    77    0    0    0    0    0    0    0     0     0     0     0     0
##    78    0    0    0    0    0    0    0     0     0     0     0     0
##    79    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    80    0    0    0    0    0    0    0     0     0     0     0     0
##    81    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    82    0    0    0    0    0    0    0     0     0     0     0     0
##    83    0    0    0    0    0    0    0     0     0     0     0     0
##    84    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    85    0    0    0    0    0    0    0     0     0     0     0     0
##    86    0    0    0    0    0    0    0     0     0     0     0     0
##    87    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    88    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    89    0    0    0    0    0    0    0     0     0     0     0     0
##    90    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    91    0    0    0    0    0    0    0     0     0     0     0     0
##    92    0    0    0    0    0    0    0     0     0     0     0     0
##    93    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    94    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    95    0    0    0    0    0    0    0     0     0     0     0     0
##    96    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    97    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    98    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##    99    0    0    0    0    0    0    0     0     0     0     0     0
##   100    0    0    0    0    0    0    0     0     0     0     0     0
##   101    0    0    0    0    0    0    0     0     0     0     0     0
##   102    0    0    0    0    0    0    0     0     0     0     0     0
##   103    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##   104    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
##   105    0    0    0    0    0    0    0     0     0     0     0     0
##   106    0    0    0    0    0    0    0     0     0     0     0     0
##   107    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
```

```
## 108      0     0     0     0     0     0     0     0     0     0     0     0
## 109      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 110      0     0     0     0     0     0     0     0     0     0     0     0
## 111      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 112      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 113      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 114      0     0     0     0     0     0     0     0     0     0     0     0
## 115      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 116      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 117      0     0     0     0     0     0     0     0     0     0     0     0
## 118      0     0     0     0     0     0     0     0     0     0     0     0
## 119      0     0     0     0     0     0     0     0     0     0     0     0
## 120      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 121      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 122      0     0     0     0     0     0     0     0     0     0     0     0
## 123      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 124      0     0     0     0     0     0     0     0     0     0     0     0
## 125      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 126      0     0     0     0     0     0     0     0     0     0     0     0
## 127      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 128      0     0     0     0     0     0     0     0     0     0     0     0
## 129      0     0     0     0     0     0     0     0     0     0     0     0
## 130      0     0     0     0     0     0     0     0     0     0     0     0
## 131      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 132      0     0     0     0     0     0     0     0     0     0     0     0
## 133      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 134      0     0     0     0     0     0     0     0     0     0     0     0
## 135      0     0     0     0     0     0     0     0     0     0     0     0
## 136      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 137      0     0     0     0     0     0     0     0     0     0     0     0
## 138      0     0     0     0     0     0     0     0     0     0     0     0
## 139      0     0     0     0     0     0     0     0     0     0     0     0
## 140      0     0     0     0     0     0     0     0     0     0     0     0
## 141      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 142      0     0     0     0     0     0     0     0     0     0     0     0
## 143      0     0     0     0     0     0     0     0     0     0     0     0
## 144      0     0     0     0     0     0     0     0     0     0     0     0
## 145      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 146      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 147      0     0     0     0     0     0     0     0     0     0     0     0
## 148      0     0     0     0     0     0     0     0     0     0     0     0
## 149      0     0     0     0     0     0     0     0     0     0     0     0
## 150      0     0     0     0     0     0     0     0     0     0     0     0
## 151      0     0     0     0     0     0     0     0     0     0     0     0
## 152      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 153      0     0     0     0     0     0     0     0     0     0     0     0
## 154      0     0     0     0     0     0     0     0     0     0     0     0
## 155      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 156      0     0     0     0     0     0     0     0     0     0     0     0
## 157      0     0     0     0     0     0     0     0     0     0     0     0
## 158      0     0     0     0     0     0     0     0     0     0     0     0
## 159      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 160      0     0     0     0     0     0     0     0     0     0     0     0
## 161      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
```

```
## 162    0    0    0    0    0    0    0     0    0    0    0    0
## 163    0    0    0    0    0    0    0     0    0    0    0    0
## 164    0    0    0    0    0    0    0     0    0    0    0    0
## 165    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 166    0    0    0    0    0    0    0     0    0    0    0    0
## 167    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 168    0    0    0    0    0    0    0     0    0    0    0    0
## 169    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 170    0    0    0    0    0    0    0     0    0    0    0    0
## 171    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 172    0    0    0    0    0    0    0     0    0    0    0    0
## 173    0    0    0    0    0    0    0     0    0    0    0    0
## 174    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 175    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 176    0    0    0    0    0    0    0     0    0    0    0    0
## 177    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 178    0    0    0    0    0    0    0     0    0    0    0    0
## 179    0    0    0    0    0    0    0     0    0    0    0    0
## 180    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 181    0    0    0    0    0    0    0     0    0    0    0    0
## 182    0    0    0    0    0    0    0     0    0    0    0    0
## 183    0    0    0    0    0    0    0     0    0    0    0    0
## 184    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 185    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 186    0    0    0    0    0    0    0     0    0    0    0    0
## 187    0    0    0    0    0    0    0     0    0    0    0    0
## 188    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 189    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 190    0    0    0    0    0    0    0     0    0    0    0    0
## 191    0    0    0    0    0    0    0     0    0    0    0    0
## 192    0    0    0    0    0    0    0     0    0    0    0    0
## 193    0    0    0    0    0    0    0     0    0    0    0    0
## 194    0    0    0    0    0    0    0     0    0    0    0    0
## 195    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 196    0    0    0    0    0    0    0     0    0    0    0    0
## 197    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 198    0    0    0    0    0    0    0     0    0    0    0    0
## 199    0    0    0    0    0    0    0     0    0    0    0    0
## 200    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 201    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 202    0    0    0    0    0    0    0     0    0    0    0    0
## 203    0    0    0    0    0    0    0     0    0    0    0    0
## 204    0    0    0    0    0    0    0     0    0    0    0    0
## 205    0    0    0    0    0    0    0     0    0    0    0    0
## 206    0    0    0    0    0    0    0     0    0    0    0    0
## 207    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 208    0    0    0    0    0    0    0     0    0    0    0    0
## 209    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 210    0    0    0    0    0    0    0     0    0    0    0    0
## 211    0    0    0    0    0    0    0     0    0    0    0    0
## 212    0    0    0    0    0    0    0     0    0    0    0    0
## 213    0    0    0    0    0    0    0     0    0    0    0    0
## 214    0    0    0    0    0    0    0     0    0    0    0    0
## 215    0    0    0    0    0    0    0     0    0    0    0    0
```

```
## 216     0     0     0     0     0     0     0     0     0     0     0     0
## 217     0     0     0     0     0     0     0     0     0     0     0     0
## 218     0     0     0     0     0     0     0     0     0     0     0     0
## 219     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 220     0     0     0     0     0     0     0     0     0     0     0     0
## 221     0     0     0     0     0     0     0     0     0     0     0     0
## 222     0     0     0     0     0     0     0     0     0     0     0     0
## 223     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 224     0     0     0     0     0     0     0     0     0     0     0     0
## 225     0     0     0     0     0     0     0     0     0     0     0     0
## 226     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 227     0     0     0     0     0     0     0     0     0     0     0     0
## 228     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 229     0     0     0     0     0     0     0     0     0     0     0     0
## 230     0     0     0     0     0     0     0     0     0     0     0     0
## 231     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 232     0     0     0     0     0     0     0     0     0     0     0     0
## 233     0     0     0     0     0     0     0     0     0     0     0     0
## 234     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 235     0     0     0     0     0     0     0     0     0     0     0     0
## 236     0     0     0     0     0     0     0     0     0     0     0     0
## 237     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 238     0     0     0     0     0     0     0     0     0     0     0     0
## 239     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 240     0     0     0     0     0     0     0     0     0     0     0     0
## 241     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 242     0     0     0     0     0     0     0     0     0     0     0     0
## 243     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 244     0     0     0     0     0     0     0     0     0     0     0     0
## 245     0     0     0     0     0     0     0     0     0     0     0     0
## 246     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 247     0     0     0     0     0     0     0     0     0     0     0     0
## 248     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 249     0     0     0     0     0     0     0     0     0     0     0     0
## 250     0     0     0     0     0     0     0     0     0     0     0     0
## 251     0     0     0     0     0     0     0     0     0     0     0     0
## 252     0     0     0     0     0     0     0     0     0     0     0     0
## 253     0     0     0     0     0     0     0     0     0     0     0     0
## 254     0     0     0     0     0     0     0     0     0     0     0     0
## 255     0     0     0     0     0     0     0     0     0     0     0     0
## 256     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 257     0     0     0     0     0     0     0     0     0     0     0     0
## 258     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 259     0     0     0     0     0     0     0     0     0     0     0     0
## 260     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 261     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 262     0     0     0     0     0     0     0     0     0     0     0     0
## 263     0     0     0     0     0     0     0     0     0     0     0     0
## 264     0     0     0     0     0     0     0     0     0     0     0     0
## 265     0     0     0     0     0     0     0     0     0     0     0     0
## 266     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 267     0     0     0     0     0     0     0     0     0     0     0     0
## 268     0     0     0     0     0     0     0     0     0     0     0     0
## 269     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## 270      0    0    0    0    0    0    0     0    0    0    0    0
## 271      0    0    0    0    0    0    0     0    0    0    0    0
## 272      0    0    0    0    0    0    0     0    0    0    0    0
## 273      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 274      0    0    0    0    0    0    0     0    0    0    0    0
## 275      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 276      0    0    0    0    0    0    0     0    0    0    0    0
## 277      0    0    0    0    0    0    0     0    0    0    0    0
## 278      0    0    0    0    0    0    0     0    0    0    0    0
## 279      0    0    0    0    0    0    0     0    0    0    0    0
## 280      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 281      0    0    0    0    0    0    0     0    0    0    0    0
## 282      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 283      0    0    0    0    0    0    0     0    0    0    0    0
## 284      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 285      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 286      0    0    0    0    0    0    0     0    0    0    0    0
## 287      0    0    0    0    0    0    0     0    0    0    0    0
## 288      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 289      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 290      0    0    0    0    0    0    0     0    0    0    0    0
## 291      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 292      0    0    0    0    0    0    0     0    0    0    0    0
## 293      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 294      0    0    0    0    0    0    0     0    0    0    0    0
## 295      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 296      0    0    0    0    0    0    0     0    0    0    0    0
## 297      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 298      0    0    0    0    0    0    0     0    0    0    0    0
## 299      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 300      0    0    0    0    0    0    0     0    0    0    0    0
## 301      0    0    0    0    0    0    0     0    0    0    0    0
## 302      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 303      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 304      0    0    0    0    0    0    0     0    0    0    0    0
## 305      0    0    0    0    0    0    0     0    0    0    0    0
## 306      0    0    0    0    0    0    0     0    0    0    0    0
## 307      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 308      0    0    0    0    0    0    0     0    0    0    0    0
## 309      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 310      0    0    0    0    0    0    0     0    0    0    0    0
## 311      0    0    0    0    0    0    0     0    0    0    0    0
## 312      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 313      0    0    0    0    0    0    0     0    0    0    0    0
## 314      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 315      0    0    0    0    0    0    0     0    0    0    0    0
## 316      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 317      0    0    0    0    0    0    0     0    0    0    0    0
## 318      0    0    0    0    0    0    0     0    0    0    0    0
## 319      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 320      0    0    0    0    0    0    0     0    0    0    0    0
## 321      0    0    0    0    0    0    0     0    0    0    0    0
## 322      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 323      0    0    0    0    0    0    0     0    0    0    0    0
```

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## 324     0     0     0     0     0     0     0      0     0     0     0     0
## 325     0     0     0     0     0     0     0      0     0     0     0     0
## 326     0     0     0     0     0     0     0      0     0     0     0     0
## 327     0     0     0     0     0     0     0      0     0     0     0     0
## 328     0     0     0     0     0     0     0      0     0     0     0     0
## 329     0     0     0     0     0     0     0      0     0     0     0     0
## 330     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 331     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 332     0     0     0     0     0     0     0      0     0     0     0     0
## 333     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 334     0     0     0     0     0     0     0      0     0     0     0     0
## 335     0     0     0     0     0     0     0      0     0     0     0     0
## 336     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 337     0     0     0     0     0     0     0      0     0     0     0     0
## 338     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 339     0     0     0     0     0     0     0      0     0     0     0     0
## 340     0     0     0     0     0     0     0      0     0     0     0     0
## 341     0     0     0     0     0     0     0      0     0     0     0     0
## 342     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 343     0     0     0     0     0     0     0      0     0     0     0     0
## 344     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 345     0     0     0     0     0     0     0      0     0     0     0     0
## 346     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 347     0     0     0     0     0     0     0      0     0     0     0     0
## 348     0     0     0     0     0     0     0      0     0     0     0     0
## 349     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 350     0     0     0     0     0     0     0      0     0     0     0     0
## 351     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 352     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 353     0     0     0     0     0     0     0      0     0     0     0     0
## 354     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 355     0     0     0     0     0     0     0      0     0     0     0     0
## 356     0     0     0     0     0     0     0      0     0     0     0     0
## 357     0     0     0     0     0     0     0      0     0     0     0     0
## 358     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 359     0     0     0     0     0     0     0      0     0     0     0     0
## 360     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 361     0     0     0     0     0     0     0      0     0     0     0     0
## 362     0     0     0     0     0     0     0      0     0     0     0     0
## 363     0     0     0     0     0     0     0      0     0     0     0     0
## 364     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 365     0     0     0     0     0     0     0      0     0     0     0     0
## 366     0     0     0     0     0     0     0      0     0     0     0     0
## 367     0     0     0     0     0     0     0      0     0     0     0     0
## 368     0     0     0     0     0     0     0      0     0     0     0     0
## 369     0     0     0     0     0     0     0      0     0     0     0     0
## 370     0     0     0     0     0     0     0      0     0     0     0     0
## 371     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 372     0     0     0     0     0     0     0      0     0     0     0     0
## 373     0     0     0     0     0     0     0      0     0     0     0     0
## 374     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 375     0     0     0     0     0     0     0      0     0     0     0     0
## 376     0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 377     0     0     0     0     0     0     0      0     0     0     0     0
```

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## 378      0      0      0      0      0      0      0      0      0      0      0      0
## 379      0      0      0      0      0      0      0      0      0      0      0      0
## 380      0      0      0      0      0      0      0      0      0      0      0      0
## 381      0      0      0      0      0      0      0      0      0      0      0      0
## 382      0      0      0      0      0      0      0      0      0      0      0      0
## 383      0      0      0      0      0      0      0      0      0      0      0      0
## 384      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 385      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 386      0      0      0      0      0      0      0      0      0      0      0      0
## 387      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 388      0      0      0      0      0      0      0      0      0      0      0      0
## 389      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 390      0      0      0      0      0      0      0      0      0      0      0      0
## 391      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 392      0      0      0      0      0      0      0      0      0      0      0      0
## 393      0      0      0      0      0      0      0      0      0      0      0      0
## 394      0      0      0      0      0      0      0      0      0      0      0      0
## 395      0      0      0      0      0      0      0      0      0      0      0      0
## 396      0      0      0      0      0      0      0      0      0      0      0      0
## 397      0      0      0      0      0      0      0      0      0      0      0      0
## 398      0      0      0      0      0      0      0      0      0      0      0      0
## 399      0      0      0      0      0      0      0      0      0      0      0      0
## 400      0      0      0      0      0      0      0      0      0      0      0      0
## 401      0      0      0      0      0      0      0      0      0      0      0      0
## 402      0      0      0      0      0      0      0      0      0      0      0      0
## 403      0      0      0      0      0      0      0      0      0      0      0      0
## 404      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 405      0      0      0      0      0      0      0      0      0      0      0      0
## 406      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 407      0      0      0      0      0      0      0      0      0      0      0      0
## 408      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 409      0      0      0      0      0      0      0      0      0      0      0      0
## 410      0      0      0      0      0      0      0      0      0      0      0      0
## 411      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 412      0      0      0      0      0      0      0      0      0      0      0      0
## 413      0      0      0      0      0      0      0      0      0      0      0      0
## 414      0      0      0      0      0      0      0      0      0      0      0      0
## 415      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 416      0      0      0      0      0      0      0      0      0      0      0      0
## 417      0      0      0      0      0      0      0      0      0      0      0      0
## 418      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 419      0      0      0      0      0      0      0      0      0      0      0      0
## 420      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 421      0      0      0      0      0      0      0      0      0      0      0      0
## 422      0      0      0      0      0      0      0      0      0      0      0      0
## 423      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 424      0      0      0      0      0      0      0      0      0      0      0      0
## 425      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 426      0      0      0      0      0      0      0      0      0      0      0      0
## 427      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 428      0      0      0      0      0      0      0      0      0      0      0      0
## 429      0      0      0      0      0      0      0      0      0      0      0      0
## 430      0      0      0      0      0      0      0      0      0      0      0      0
## 431      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
```

```
## 432     0     0     0     0     0     0     0      0      0      0      0      0
## 433     0     0     0     0     0     0     0      0      0      0      0      0
## 434     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 435     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 436     0     0     0     0     0     0     0      0      0      0      0      0
## 437     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 438     0     0     0     0     0     0     0      0      0      0      0      0
## 439     0     0     0     0     0     0     0      0      0      0      0      0
## 440     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 441     0     0     0     0     0     0     0      0      0      0      0      0
## 442     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 443     0     0     0     0     0     0     0      0      0      0      0      0
## 444     0     0     0     0     0     0     0      0      0      0      0      0
## 445     0     0     0     0     0     0     0      0      0      0      0      0
## 446     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 447     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 448     0     0     0     0     0     0     0      0      0      0      0      0
## 449     0     0     0     0     0     0     0      0      0      0      0      0
## 450     0     0     0     0     0     0     0      0      0      0      0      0
## 451     0     0     0     0     0     0     0      0      0      0      0      0
## 452     0     0     0     0     0     0     0      0      0      0      0      0
## 453     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 454     0     0     0     0     0     0     0      0      0      0      0      0
## 455     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 456     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 457     0     0     0     0     0     0     0      0      0      0      0      0
## 458     0     0     0     0     0     0     0      0      0      0      0      0
## 459     0     0     0     0     0     0     0      0      0      0      0      0
## 460     0     0     0     0     0     0     0      0      0      0      0      0
## 461     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 462     0     0     0     0     0     0     0      0      0      0      0      0
## 463     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 464     0     0     0     0     0     0     0      0      0      0      0      0
## 465     0     0     0     0     0     0     0      0      0      0      0      0
## 466     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 467     0     0     0     0     0     0     0      0      0      0      0      0
## 468     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 469     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 470     0     0     0     0     0     0     0      0      0      0      0      0
## 471     0     0     0     0     0     0     0      0      0      0      0      0
## 472     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 473     0     0     0     0     0     0     0      0      0      0      0      0
## 474     0     0     0     0     0     0     0      0      0      0      0      0
## 475     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 476     0     0     0     0     0     0     0      0      0      0      0      0
## 477     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 478     0     0     0     0     0     0     0      0      0      0      0      0
## 479     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 480     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 481     0     0     0     0     0     0     0      0      0      0      0      0
## 482     0     0     0     0     0     0     0      0      0      0      0      0
## 483     0     0     0     0     0     0     0      0      0      0      0      0
## 484     0     0     0     0     0     0     0     NA     NA     NA     NA     NA
## 485     0     0     0     0     0     0     0      0      0      0      0      0
```

```
## 486    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 487    0    0    0    0    0    0    0    0    0    0    0    0
## 488    0    0    0    0    0    0    0    0    0    0    0    0
## 489    0    0    0    0    0    0    0    0    0    0    0    0
## 490    0    0    0    0    0    0    0    0    0    0    0    0
## 491    0    0    0    0    0    0    0    0    0    0    0    0
## 492    0    0    0    0    0    0    0    0    0    0    0    0
## 493    0    0    0    0    0    0    0    0    0    0    0    0
## 494    0    0    0    0    0    0    0    0    0    0    0    0
## 495    0    0    0    0    0    0    0    0    0    0    0    0
## 496    0    0    0    0    0    0    0    0    0    0    0    0
## 497    0    0    0    0    0    0    0    0    0    0    0    0
## 498    0    0    0    0    0    0    0    0    0    0    0    0
## 499    0    0    0    0    0    0    0    0    0    0    0    0
## 500    0    0    0    0    0    0    0    0    0    0    0    0
## 501    0    0    0    0    0    0    0    0    0    0    0    0
## 502    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 503    0    0    0    0    0    0    0    0    0    0    0    0
## 504    0    0    0    0    0    0    0    0    0    0    0    0
## 505    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 506    0    0    0    0    0    0    0    0    0    0    0    0
## 507    0    0    0    0    0    0    0    0    0    0    0    0
## 508    0    0    0    0    0    0    0    0    0    0    0    0
## 509    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 510    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 511    0    0    0    0    0    0    0    0    0    0    0    0
## 512    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 513    0    0    0    0    0    0    0    0    0    0    0    0
## 514    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 515    0    0    0    0    0    0    0    0    0    0    0    0
## 516    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 517    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 518    0    0    0    0    0    0    0    0    0    0    0    0
## 519    0    0    0    0    0    0    0    0    0    0    0    0
## 520    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 521    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 522    0    0    0    0    0    0    0    0    0    0    0    0
## 523    0    0    0    0    0    0    0    0    0    0    0    0
## 524    0    0    0    0    0    0    0    0    0    0    0    0
## 525    0    0    0    0    0    0    0    0    0    0    0    0
## 526    0    0    0    0    0    0    0    0    0    0    0    0
## 527    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 528    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 529    0    0    0    0    0    0    0    0    0    0    0    0
## 530    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 531    0    0    0    0    0    0    0    0    0    0    0    0
## 532    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 533    0    0    0    0    0    0    0    0    0    0    0    0
## 534    0    0    0    0    0    0    0    0    0    0    0    0
## 535    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 536    0    0    0    0    0    0    0    0    0    0    0    0
## 537    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 538    0    0    0    0    0    0    0    0    0    0    0    0
## 539    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 540     0    0    0    0    0    0    0     0    0    0    0    0
## 541     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 542     0    0    0    0    0    0    0     0    0    0    0    0
## 543     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 544     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 545     0    0    0    0    0    0    0     0    0    0    0    0
## 546     0    0    0    0    0    0    0     0    0    0    0    0
## 547     0    0    0    0    0    0    0     0    0    0    0    0
## 548     0    0    0    0    0    0    0     0    0    0    0    0
## 549     0    0    0    0    0    0    0     0    0    0    0    0
## 550     0    0    0    0    0    0    0     0    0    0    0    0
## 551     0    0    0    0    0    0    0     0    0    0    0    0
## 552     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 553     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 554     0    0    0    0    0    0    0     0    0    0    0    0
## 555     0    0    0    0    0    0    0     0    0    0    0    0
## 556     0    0    0    0    0    0    0     0    0    0    0    0
## 557     0    0    0    0    0    0    0     0    0    0    0    0
## 558     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 559     0    0    0    0    0    0    0     0    0    0    0    0
## 560     0    0    0    0    0    0    0     0    0    0    0    0
## 561     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 562     0    0    0    0    0    0    0     0    0    0    0    0
## 563     0    0    0    0    0    0    0     0    0    0    0    0
## 564     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 565     0    0    0    0    0    0    0     0    0    0    0    0
## 566     0    0    0    0    0    0    0     0    0    0    0    0
## 567     0    0    0    0    0    0    0     0    0    0    0    0
## 568     0    0    0    0    0    0    0     0    0    0    0    0
## 569     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 570     0    0    0    0    0    0    0     0    0    0    0    0
## 571     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 572     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 573     0    0    0    0    0    0    0     0    0    0    0    0
## 574     0    0    0    0    0    0    0     0    0    0    0    0
## 575     0    0    0    0    0    0    0     0    0    0    0    0
## 576     0    0    0    0    0    0    0     0    0    0    0    0
## 577     0    0    0    0    0    0    0     0    0    0    0    0
## 578     0    0    0    0    0    0    0     0    0    0    0    0
## 579     0    0    0    0    0    0    0     0    0    0    0    0
## 580     0    0    0    0    0    0    0     0    0    0    0    0
## 581     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 582     0    0    0    0    0    0    0     0    0    0    0    0
## 583     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 584     0    0    0    0    0    0    0     0    0    0    0    0
## 585     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 586     0    0    0    0    0    0    0     0    0    0    0    0
## 587     0    0    0    0    0    0    0     0    0    0    0    0
## 588     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 589     0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 590     0    0    0    0    0    0    0     0    0    0    0    0
## 591     0    0    0    0    0    0    0     0    0    0    0    0
## 592     0    0    0    0    0    0    0     0    0    0    0    0
## 593     0    0    0    0    0    0    0     0    0    0    0    0
```

```
## 594    0    0    0    0    0    0    0     0     0     0     0     0
## 595    0    0    0    0    0    0    0     0     0     0     0     0
## 596    0    0    0    0    0    0    0     0     0     0     0     0
## 597    0    0    0    0    0    0    0     0     0     0     0     0
## 598    0    0    0    0    0    0    0     0     0     0     0     0
## 599    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 600    0    0    0    0    0    0    0     0     0     0     0     0
## 601    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 602    0    0    0    0    0    0    0     0     0     0     0     0
## 603    0    0    0    0    0    0    0     0     0     0     0     0
## 604    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 605    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 606    0    0    0    0    0    0    0     0     0     0     0     0
## 607    0    0    0    0    0    0    0     0     0     0     0     0
## 608    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 609    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 610    0    0    0    0    0    0    0     0     0     0     0     0
## 611    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 612    0    0    0    0    0    0    0     0     0     0     0     0
## 613    0    0    0    0    0    0    0     0     0     0     0     0
## 614    0    0    0    0    0    0    0     0     0     0     0     0
## 615    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 616    0    0    0    0    0    0    0     0     0     0     0     0
## 617    0    0    0    0    0    0    0     0     0     0     0     0
## 618    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 619    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 620    0    0    0    0    0    0    0     0     0     0     0     0
## 621    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 622    0    0    0    0    0    0    0     0     0     0     0     0
## 623    0    0    0    0    0    0    0     0     0     0     0     0
## 624    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 625    0    0    0    0    0    0    0     0     0     0     0     0
## 626    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 627    0    0    0    0    0    0    0     0     0     0     0     0
## 628    0    0    0    0    0    0    0     0     0     0     0     0
## 629    0    0    0    0    0    0    0     0     0     0     0     0
## 630    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 631    0    0    0    0    0    0    0     0     0     0     0     0
## 632    0    0    0    0    0    0    0     0     0     0     0     0
## 633    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 634    0    0    0    0    0    0    0     0     0     0     0     0
## 635    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 636    0    0    0    0    0    0    0     0     0     0     0     0
## 637    0    0    0    0    0    0    0     0     0     0     0     0
## 638    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 639    0    0    0    0    0    0    0     0     0     0     0     0
## 640    0    0    0    0    0    0    0     0     0     0     0     0
## 641    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 642    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 643    0    0    0    0    0    0    0     0     0     0     0     0
## 644    0    0    0    0    0    0    0     0     0     0     0     0
## 645    0    0    0    0    0    0    0     0     0     0     0     0
## 646    0    0    0    0    0    0    0     0     0     0     0     0
## 647    0    0    0    0    0    0    0     0     0     0     0     0
```

```
## 648      0   0   0   0   0   0   0    0    0    0    0    0
## 649      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 650      0   0   0   0   0   0   0    0    0    0    0    0
## 651      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 652      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 653      0   0   0   0   0   0   0    0    0    0    0    0
## 654      0   0   0   0   0   0   0    0    0    0    0    0
## 655      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 656      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 657      0   0   0   0   0   0   0    0    0    0    0    0
## 658      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 659      0   0   0   0   0   0   0    0    0    0    0    0
## 660      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 661      0   0   0   0   0   0   0    0    0    0    0    0
## 662      0   0   0   0   0   0   0    0    0    0    0    0
## 663      0   0   0   0   0   0   0    0    0    0    0    0
## 664      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 665      0   0   0   0   0   0   0    0    0    0    0    0
## 666      0   0   0   0   0   0   0    0    0    0    0    0
## 667      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 668      0   0   0   0   0   0   0    0    0    0    0    0
## 669      0   0   0   0   0   0   0    0    0    0    0    0
## 670      0   0   0   0   0   0   0    0    0    0    0    0
## 671      0   0   0   0   0   0   0    0    0    0    0    0
## 672      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 673      0   0   0   0   0   0   0    0    0    0    0    0
## 674      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 675      0   0   0   0   0   0   0    0    0    0    0    0
## 676      0   0   0   0   0   0   0    0    0    0    0    0
## 677      0   0   0   0   0   0   0    0    0    0    0    0
## 678      0   0   0   0   0   0   0    0    0    0    0    0
## 679      0   0   0   0   0   0   0    0    0    0    0    0
## 680      0   0   0   0   0   0   0    0    0    0    0    0
## 681      0   0   0   0   0   0   0    0    0    0    0    0
## 682      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 683      0   0   0   0   0   0   0    0    0    0    0    0
## 684      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 685      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 686      0   0   0   0   0   0   0    0    0    0    0    0
## 687      0   0   0   0   0   0   0    0    0    0    0    0
## 688      0   0   0   0   0   0   0    0    0    0    0    0
## 689      0   0   0   0   0   0   0    0    0    0    0    0
## 690      0   0   0   0   0   0   0    0    0    0    0    0
## 691      0   0   0   0   0   0   0    0    0    0    0    0
## 692      0   0   0   0   0   0   0    0    0    0    0    0
## 693      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 694      0   0   0   0   0   0   0    0    0    0    0    0
## 695      0   0   0   0   0   0   0    0    0    0    0    0
## 696      0   0   0   0   0   0   0    0    0    0    0    0
## 697      0   0   0   0   0   0   0    0    0    0    0    0
## 698      0   0   0   0   0   0   0    0    0    0    0    0
## 699      0   0   0   0   0   0   0    0    0    0    0    0
## 700      0   0   0   0   0   0   0    0    0    0    0    0
## 701      0   0   0   0   0   0   0   NA   NA   NA   NA   NA
```

```
## 702    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 703    0    0    0    0    0    0    0     0     0     0     0     0
## 704    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 705    0    0    0    0    0    0    0     0     0     0     0     0
## 706    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 707    0    0    0    0    0    0    0     0     0     0     0     0
## 708    0    0    0    0    0    0    0     0     0     0     0     0
## 709    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 710    0    0    0    0    0    0    0     0     0     0     0     0
## 711    0    0    0    0    0    0    0     0     0     0     0     0
## 712    0    0    0    0    0    0    0     0     0     0     0     0
## 713    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 714    0    0    0    0    0    0    0     0     0     0     0     0
## 715    0    0    0    0    0    0    0     0     0     0     0     0
## 716    0    0    0    0    0    0    0     0     0     0     0     0
## 717    0    0    0    0    0    0    0     0     0     0     0     0
## 718    0    0    0    0    0    0    0     0     0     0     0     0
## 719    0    0    0    0    0    0    0     0     0     0     0     0
## 720    0    0    0    0    0    0    0     0     0     0     0     0
## 721    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 722    0    0    0    0    0    0    0     0     0     0     0     0
## 723    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 724    0    0    0    0    0    0    0     0     0     0     0     0
## 725    0    0    0    0    0    0    0     0     0     0     0     0
## 726    0    0    0    0    0    0    0     0     0     0     0     0
## 727    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 728    0    0    0    0    0    0    0     0     0     0     0     0
## 729    0    0    0    0    0    0    0     0     0     0     0     0
## 730    0    0    0    0    0    0    0     0     0     0     0     0
## 731    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 732    0    0    0    0    0    0    0     0     0     0     0     0
## 733    0    0    0    0    0    0    0     0     0     0     0     0
## 734    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 735    0    0    0    0    0    0    0     0     0     0     0     0
## 736    0    0    0    0    0    0    0     0     0     0     0     0
## 737    0    0    0    0    0    0    0     0     0     0     0     0
## 738    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 739    0    0    0    0    0    0    0     0     0     0     0     0
## 740    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 741    0    0    0    0    0    0    0     0     0     0     0     0
## 742    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 743    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 744    0    0    0    0    0    0    0     0     0     0     0     0
## 745    0    0    0    0    0    0    0     0     0     0     0     0
## 746    0    0    0    0    0    0    0     0     0     0     0     0
## 747    0    0    0    0    0    0    0     0     0     0     0     0
## 748    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 749    0    0    0    0    0    0    0     0     0     0     0     0
## 750    0    0    0    0    0    0    0     0     0     0     0     0
## 751    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 752    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 753    0    0    0    0    0    0    0     0     0     0     0     0
## 754    0    0    0    0    0    0    0     0     0     0     0     0
## 755    0    0    0    0    0    0    0     0     0     0     0     0
```

```
## 756     0     0     0     0     0     0     0     0     0     0     0     0
## 757     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 758     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 759     0     0     0     0     0     0     0     0     0     0     0     0
## 760     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 761     0     0     0     0     0     0     0     0     0     0     0     0
## 762     0     0     0     0     0     0     0     0     0     0     0     0
## 763     0     0     0     0     0     0     0     0     0     0     0     0
## 764     0     0     0     0     0     0     0     0     0     0     0     0
## 765     0     0     0     0     0     0     0     0     0     0     0     0
## 766     0     0     0     0     0     0     0     0     0     0     0     0
## 767     0     0     0     0     0     0     0     0     0     0     0     0
## 768     0     0     0     0     0     0     0     0     0     0     0     0
## 769     0     0     0     0     0     0     0     0     0     0     0     0
## 770     0     0     0     0     0     0     0     0     0     0     0     0
## 771     0     0     0     0     0     0     0     0     0     0     0     0
## 772     0     0     0     0     0     0     0     0     0     0     0     0
## 773     0     0     0     0     0     0     0     0     0     0     0     0
## 774     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 775     0     0     0     0     0     0     0     0     0     0     0     0
## 776     0     0     0     0     0     0     0     0     0     0     0     0
## 777     0     0     0     0     0     0     0     0     0     0     0     0
## 778     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 779     0     0     0     0     0     0     0     0     0     0     0     0
## 780     0     0     0     0     0     0     0     0     0     0     0     0
## 781     0     0     0     0     0     0     0     0     0     0     0     0
## 782     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 783     0     0     0     0     0     0     0     0     0     0     0     0
## 784     0     0     0     0     0     0     0     0     0     0     0     0
## 785     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 786     0     0     0     0     0     0     0     0     0     0     0     0
## 787     0     0     0     0     0     0     0     0     0     0     0     0
## 788     0     0     0     0     0     0     0     0     0     0     0     0
## 789     0     0     0     0     0     0     0     0     0     0     0     0
## 790     0     0     0     0     0     0     0     0     0     0     0     0
## 791     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 792     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 793     0     0     0     0     0     0     0     0     0     0     0     0
## 794     0     0     0     0     0     0     0     0     0     0     0     0
## 795     0     0     0     0     0     0     0     0     0     0     0     0
## 796     0     0     0     0     0     0     0     0     0     0     0     0
## 797     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 798     0     0     0     0     0     0     0     0     0     0     0     0
## 799     0     0     0     0     0     0     0     0     0     0     0     0
## 800     0     0     0     0     0     0     0     0     0     0     0     0
## 801     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 802     0     0     0     0     0     0     0     0     0     0     0     0
## 803     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 804     0     0     0     0     0     0     0     0     0     0     0     0
## 805     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 806     0     0     0     0     0     0     0     0     0     0     0     0
## 807     0     0     0     0     0     0     0     0     0     0     0     0
## 808     0     0     0     0     0     0     0     0     0     0     0     0
## 809     0     0     0     0     0     0     0    NA    NA    NA    NA    NA
```

```
## 810      0    0    0    0    0    0    0     0    0    0    0    0
## 811      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 812      0    0    0    0    0    0    0     0    0    0    0    0
## 813      0    0    0    0    0    0    0     0    0    0    0    0
## 814      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 815      0    0    0    0    0    0    0     0    0    0    0    0
## 816      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 817      0    0    0    0    0    0    0     0    0    0    0    0
## 818      0    0    0    0    0    0    0     0    0    0    0    0
## 819      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 820      0    0    0    0    0    0    0     0    0    0    0    0
## 821      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 822      0    0    0    0    0    0    0     0    0    0    0    0
## 823      0    0    0    0    0    0    0     0    0    0    0    0
## 824      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 825      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 826      0    0    0    0    0    0    0     0    0    0    0    0
## 827      0    0    0    0    0    0    0     0    0    0    0    0
## 828      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 829      0    0    0    0    0    0    0     0    0    0    0    0
## 830      0    0    0    0    0    0    0     0    0    0    0    0
## 831      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 832      0    0    0    0    0    0    0     0    0    0    0    0
## 833      0    0    0    0    0    0    0     0    0    0    0    0
## 834      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 835      0    0    0    0    0    0    0     0    0    0    0    0
## 836      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 837      0    0    0    0    0    0    0     0    0    0    0    0
## 838      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 839      0    0    0    0    0    0    0     0    0    0    0    0
## 840      0    0    0    0    0    0    0     0    0    0    0    0
## 841      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 842      0    0    0    0    0    0    0     0    0    0    0    0
## 843      0    0    0    0    0    0    0     0    0    0    0    0
## 844      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 845      0    0    0    0    0    0    0     0    0    0    0    0
## 846      0    0    0    0    0    0    0     0    0    0    0    0
## 847      0    0    0    0    0    0    0     0    0    0    0    0
## 848      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 849      0    0    0    0    0    0    0     0    0    0    0    0
## 850      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 851      0    0    0    0    0    0    0     0    0    0    0    0
## 852      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 853      0    0    0    0    0    0    0     0    0    0    0    0
## 854      0    0    0    0    0    0   NA     0    0    0    0    0
## 855      0    0    0    0    0    0   NA    NA   NA   NA   NA   NA
## 856      0    0    0    0    0    0    0     0    0    0    0    0
## 857      0    0    0    0    0    0    0     0    0    0    0    0
## 858      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 859      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 860      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 861      0    0    0    0    0    0    0     0    0    0    0    0
## 862      0    0    0    0    0    0    0     0    0    0    0    0
## 863      0    0    0    0    0    0    0    NA   NA   NA   NA   NA
```

```
## 864    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 865    0    0    0    0    0    0    0     0     0     0     0     0
## 866    0    0    0    0    0    0    0     0     0     0     0     0
## 867    0    0    0    0    0    0    0     0     0     0     0     0
## 868    0    0    0    0    0    0    0     0     0     0     0     0
## 869    0    0    0    0    0    0    0     0     0     0     0     0
## 870    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 871    0    0    0    0    0    0    0     0     0     0     0     0
## 872    0    0    0    0    0    0    0     0     0     0     0     0
## 873    0    0    0    0    0    0    0     0     0     0     0     0
## 874    0    0    0    0    0    0    0     0     0     0     0     0
## 875    0    0    0    0    0    0    0     0     0     0     0     0
## 876    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 877    0    0    0    0    0    0    0     0     0     0     0     0
## 878    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 879    0    0    0    0    0    0    0     0     0     0     0     0
## 880    0    0    0    0    0    0    0     0     0     0     0     0
## 881    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 882    0    0    0    0    0    0    0     0     0     0     0     0
## 883    0    0    0    0    0    0    0     0     0     0     0     0
## 884    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 885    0    0    0    0    0    0    0     0     0     0     0     0
## 886    0    0    0    0    0    0    0     0     0     0     0     0
## 887    0    0    0    0    0    0    0     0     0     0     0     0
## 888    0    0    0    0    0    0    0     0     0     0     0     0
## 889    0    0    0    0    0    0    0     0     0     0     0     0
## 890    0    0    0    0    0    0    0     0     0     0     0     0
## 891    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 892    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 893    0    0    0    0    0    0    0     0     0     0     0     0
## 894    0    0    0    0    0    0    0     0     0     0     0     0
## 895    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 896    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 897    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 898    0    0    0    0    0    0    0     0     0     0     0     0
## 899    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 900    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 901    0    0    0    0    0    0    0     0     0     0     0     0
## 902    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 903    0    0    0    0    0    0    0     0     0     0     0     0
## 904    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 905    0    0    0    0    0    0    0     0     0     0     0     0
## 906    0    0    0    0    0    0    0     0     0     0     0     0
## 907    0    0    0    0    0    0    0     0     0     0     0     0
## 908    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 909    0    0    0    0    0    0    0     0     0     0     0     0
## 910    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 911    0    0    0    0    0    0    0     0     0     0     0     0
## 912    0    0    0    0    0    0    0     0     0     0     0     0
## 913    0    0    0    0    0    0    0     0     0     0     0     0
## 914    0    0    0    0    0    0    0     0     0     0     0     0
## 915    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 916    0    0    0    0    0    0    0     0     0     0     0     0
## 917    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
```

```
## 918     0   0   0   0   0   0   0    0    0    0    0    0
## 919     0   0   0   0   0   0   0    0    0    0    0    0
## 920     0   0   0   0   0   0   0    0    0    0    0    0
## 921     0   0   0   0   0   0   0    0    0    0    0    0
## 922     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 923     0   0   0   0   0   0   0    0    0    0    0    0
## 924     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 925     0   0   0   0   0   0   0    0    0    0    0    0
## 926     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 927     0   0   0   0   0   0   0    0    0    0    0    0
## 928     0   0   0   0   0   0   0    0    0    0    0    0
## 929     0   0   0   0   0   0   0    0    0    0    0    0
## 930     0   0   0   0   0   0   0    0    0    0    0    0
## 931     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 932     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 933     0   0   0   0   0   0   0    0    0    0    0    0
## 934     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 935     0   0   0   0   0   0   0    0    0    0    0    0
## 936     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 937     0   0   0   0   0   0   0    0    0    0    0    0
## 938     0   0   0   0   0   0   0    0    0    0    0    0
## 939     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 940     0   0   0   0   0   0   0    0    0    0    0    0
## 941     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 942     0   0   0   0   0   0   0    0    0    0    0    0
## 943     0   0   0   0   0   0   0    0    0    0    0    0
## 944     0   0   0   0   0   0   0    0    0    0    0    0
## 945     0   0   0   0   0   0   0    0    0    0    0    0
## 946     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 947     0   0   0   0   0   0   0    0    0    0    0    0
## 948     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 949     0   0   0   0   0   0   0    0    0    0    0    0
## 950     0   0   0   0   0   0   0    0    0    0    0    0
## 951     0   0   0   0   0   0   0    0    0    0    0    0
## 952     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 953     0   0   0   0   0   0   0    0    0    0    0    0
## 954     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 955     0   0   0   0   0   0   0    0    0    0    0    0
## 956     0   0   0   0   0   0   0    0    0    0    0    0
## 957     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 958     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 959     0   0   0   0   0   0   0    0    0    0    0    0
## 960     0   0   0   0   0   0   0    0    0    0    0    0
## 961     0   0   0   0   0   0   0    0    0    0    0    0
## 962     0   0   0   0   0   0   0    0    0    0    0    0
## 963     0   0   0   0   0   0   0    0    0    0    0    0
## 964     0   0   0   0   0   0   0    0    0    0    0    0
## 965     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 966     0   0   0   0   0   0   0    0    0    0    0    0
## 967     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 968     0   0   0   0   0   0   0   NA   NA   NA   NA   NA
## 969     0   0   0   0   0   0   0    0    0    0    0    0
## 970     0   0   0   0   0   0   0    0    0    0    0    0
## 971     0   0   0   0   0   0   0    0    0    0    0    0
```

```
##   972    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   973    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   974    0    0    0    0    0    0    0    0    0    0    0    0
##   975    0    0    0    0    0    0    0    0    0    0    0    0
##   976    0    0    0    0    0    0    0    0    0    0    0    0
##   977    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   978    0    0    0    0    0    0    0    0    0    0    0    0
##   979    0    0    0    0    0    0    0    0    0    0    0    0
##   980    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   981    0    0    0    0    0    0    0    0    0    0    0    0
##   982    0    0    0    0    0    0    0    0    0    0    0    0
##   983    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   984    0    0    0    0    0    0    0    0    0    0    0    0
##   985    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   986    0    0    0    0    0    0    0    0    0    0    0    0
##   987    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   988    0    0    0    0    0    0    0    0    0    0    0    0
##   989    0    0    0    0    0    0    0    0    0    0    0    0
##   990    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   991    0    0    0    0    0    0    0    0    0    0    0    0
##   992    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   993    0    0    0    0    0    0    0    0    0    0    0    0
##   994    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   995    0    0    0    0    0    0    0    0    0    0    0    0
##   996    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##   997    0    0    0    0    0    0    0    0    0    0    0    0
##   998    0    0    0    0    0    0    0    0    0    0    0    0
##   999    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1000    0    0    0    0    0    0    0    0    0    0    0    0
##  1001    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1002    0    0    0    0    0    0    0    0    0    0    0    0
##  1003    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1004    0    0    0    0    0    0    0    0    0    0    0    0
##  1005    0    0    0    0    0    0    0    0    0    0    0    0
##  1006    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1007    0    0    0    0    0    0    0    0    0    0    0    0
##  1008    0    0    0    0    0    0    0    0    0    0    0    0
##  1009    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1010    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1011    0    0    0    0    0    0    0    0    0    0    0    0
##  1012    0    0    0    0    0    0    0    0    0    0    0    0
##  1013    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1014    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1015    0    0    0    0    0    0    0    0    0    0    0    0
##  1016    0    0    0    0    0    0    0    0    0    0    0    0
##  1017    0    0    0    0    0    0    0    0    0    0    0    0
##  1018    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1019    0    0    0    0    0    0    0    0    0    0    0    0
##  1020    0    0    0    0    0    0    0    0    0    0    0    0
##  1021    0    0    0    0    0    0    0    0    0    0    0    0
##  1022    0    0    0    0    0    0    0   NA   NA   NA   NA   NA
##  1023    0    0    0    0    0    0    0    0    0    0    0    0
##  1024    0    0    0    0    0    0    0    0    0    0    0    0
##  1025    0    0    0    0    0    0    0    0    0    0    0    0
```

```
##   1026      0      0      0      0      0      0      0       0     0     0     0     0
##   1027      0      0      0      0      0      0      0       0     0     0     0     0
##   1028      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1029      0      0      0      0      0      0      0       0     0     0     0     0
##   1030      0      0      0      0      0      0      0       0     0     0     0     0
##   1031      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1032      0      0      0      0      0      0      0       0     0     0     0     0
##   1033      0      0      0      0      0      0      0       0     0     0     0     0
##   1034      0      0      0      0      0      0      0       0     0     0     0     0
##   1035      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1036      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1037      0      0      0      0      0      0      0       0     0     0     0     0
##   1038      0      0      0      0      0      0      0       0     0     0     0     0
##   1039      0      0      0      0      0      0      0       0     0     0     0     0
##   1040      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1041      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1042      0      0      0      0      0      0      0       0     0     0     0     0
##   1043      0      0      0      0      0      0      0       0     0     0     0     0
##   1044      0      0      0      0      0      0      0       0     0     0     0     0
##   1045      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1046      0      0      0      0      0      0      0       0     0     0     0     0
##   1047      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1048      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1049      0      0      0      0      0      0      0       0     0     0     0     0
##   1050      0      0      0      0      0      0      0       0     0     0     0     0
##   1051      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1052      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1053      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1054      0      0      0      0      0      0      0       0     0     0     0     0
##   1055      0      0      0      0      0      0      0       0     0     0     0     0
##   1056      0      0      0      0      0      0      0       0     0     0     0     0
##   1057      0      0      0      0      0      0      0       0     0     0     0     0
##   1058      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1059      0      0      0      0      0      0      0       0     0     0     0     0
##   1060      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1061      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1062      0      0      0      0      0      0      0       0     0     0     0     0
##   1063      0      0      0      0      0      0      0       0     0     0     0     0
##   1064      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1065      0      0      0      0      0      0      0       0     0     0     0     0
##   1066      0      0      0      0      0      0      0       0     0     0     0     0
##   1067      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1068      0      0      0      0      0      0      0       0     0     0     0     0
##   1069      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1070      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1071      0      0      0      0      0      0      0       0     0     0     0     0
##   1072      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1073      0      0      0      0      0      0      0       0     0     0     0     0
##   1074      0      0      0      0      0      0      0       0     0     0     0     0
##   1075      0      0      0      0      0      0      0       0     0     0     0     0
##   1076      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1077      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
##   1078      0      0      0      0      0      0      0       0     0     0     0     0
##   1079      0      0      0      0      0      0      0      NA    NA    NA    NA    NA
```

```
## 1080      0      0      0      0      0      0      0      0      0      0      0      0
## 1081      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1082      0      0      0      0      0      0      0      0      0      0      0      0
## 1083      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1084      0      0      0      0      0      0      0      0      0      0      0      0
## 1085      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1086      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1087      0      0      0      0      0      0      0      0      0      0      0      0
## 1088      0      0      0      0      0      0      0      0      0      0      0      0
## 1089      0      0      0      0      0      0      0      0      0      0      0      0
## 1090      0      0      0      0      0      0      0      0      0      0      0      0
## 1091      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1092      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1093      0      0      0      0      0      0      0      0      0      0      0      0
## 1094      0      0      0      0      0      0      0      0      0      0      0      0
## 1095      0      0      0      0      0      0      0      0      0      0      0      0
## 1096      0      0      0      0      0      0      0      0      0      0      0      0
## 1097      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1098      0      0      0      0      0      0      0      0      0      0      0      0
## 1099      0      0      0      0      0      0      0      0      0      0      0      0
## 1100      0      0      0      0      0      0      0      0      0      0      0      0
## 1101      0      0      0      0      0      0      0      0      0      0      0      0
## 1102      0      0      0      0      0      0      0      0      0      0      0      0
## 1103      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1104      0      0      0      0      0      0      0      0      0      0      0      0
## 1105      0      0      0      0      0      0      0      0      0      0      0      0
## 1106      0      0      0      0      0      0      0      0      0      0      0      0
## 1107      0      0      0      0      0      0      0      0      0      0      0      0
## 1108      0      0      0      0      0      0      0      0      0      0      0      0
## 1109      0      0      0      0      0      0      0      0      0      0      0      0
## 1110      0      0      0      0      0      0      0      0      0      0      0      0
## 1111      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1112      0      0      0      0      0      0      0      0      0      0      0      0
## 1113      0      0      0      0      0      0      0      0      0      0      0      0
## 1114      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1115      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1116      0      0      0      0      0      0      0      0      0      0      0      0
## 1117      0      0      0      0      0      0      0      0      0      0      0      0
## 1118      0      0      0      0      0      0      0      0      0      0      0      0
## 1119      0      0      0      0      0      0      0      0      0      0      0      0
## 1120      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1121      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1122      0      0      0      0      0      0      0      0      0      0      0      0
## 1123      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1124      0      0      0      0      0      0      0      0      0      0      0      0
## 1125      0      0      0      0      0      0      0      0      0      0      0      0
## 1126      0      0      0      0      0      0      0      0      0      0      0      0
## 1127      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1128      0      0      0      0      0      0      0      0      0      0      0      0
## 1129      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1130      0      0      0      0      0      0      0      0      0      0      0      0
## 1131      0      0      0      0      0      0      0     NA     NA     NA     NA     NA
## 1132      0      0      0      0      0      0      0      0      0      0      0      0
## 1133      0      0      0      0      0      0      0      0      0      0      0      0
```

```
## 1134      0     0     0     0     0     0     0      0     0     0     0     0
## 1135      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1136      0     0     0     0     0     0     0      0     0     0     0     0
## 1137      0     0     0     0     0     0     0      0     0     0     0     0
## 1138      0     0     0     0     0     0     0      0     0     0     0     0
## 1139      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1140      0     0     0     0     0     0     0      0     0     0     0     0
## 1141      0     0     0     0     0     0     0      0     0     0     0     0
## 1142      0     0     0     0     0     0     0      0     0     0     0     0
## 1143      0     0     0     0     0     0     0      0     0     0     0     0
## 1144      0     0     0     0     0     0     0      0     0     0     0     0
## 1145      0     0     0     0     0     0     0      0     0     0     0     0
## 1146      0     0     0     0     0     0     0      0     0     0     0     0
## 1147      0     0     0     0     0     0     0      0     0     0     0     0
## 1148      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1149      0     0     0     0     0     0     0      0     0     0     0     0
## 1150      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1151      0     0     0     0     0     0     0      0     0     0     0     0
## 1152      0     0     0     0     0     0     0      0     0     0     0     0
## 1153      0     0     0     0     0     0     0      0     0     0     0     0
## 1154      0     0     0     0     0     0     0      0     0     0     0     0
## 1155      0     0     0     0     0     0     0      0     0     0     0     0
## 1156      0     0     0     0     0     0     0      0     0     0     0     0
## 1157      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1158      0     0     0     0     0     0     0      0     0     0     0     0
## 1159      0     0     0     0     0     0     0      0     0     0     0     0
## 1160      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1161      0     0     0     0     0     0     0      0     0     0     0     0
## 1162      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1163      0     0     0     0     0     0     0      0     0     0     0     0
## 1164      0     0     0     0     0     0     0      0     0     0     0     0
## 1165      0     0     0     0     0     0     0      0     0     0     0     0
## 1166      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1167      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1168      0     0     0     0     0     0     0      0     0     0     0     0
## 1169      0     0     0     0     0     0     0      0     0     0     0     0
## 1170      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1171      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1172      0     0     0     0     0     0     0      0     0     0     0     0
## 1173      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1174      0     0     0     0     0     0     0      0     0     0     0     0
## 1175      0     0     0     0     0     0     0      0     0     0     0     0
## 1176      0     0     0     0     0     0     0      0     0     0     0     0
## 1177      0     0     0     0     0     0     0      0     0     0     0     0
## 1178      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1179      0     0     0     0     0     0     0      0     0     0     0     0
## 1180      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1181      0     0     0     0     0     0     0      0     0     0     0     0
## 1182      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1183      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1184      0     0     0     0     0     0     0      0     0     0     0     0
## 1185      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1186      0     0     0     0     0     0     0      0     0     0     0     0
## 1187      0     0     0     0     0     0     0      0     0     0     0     0
```

```
## 1188    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1189    0    0    0    0    0    0    0    0    0    0    0    0
## 1190    0    0    0    0    0    0    0    0    0    0    0    0
## 1191    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1192    0    0    0    0    0    0    0    0    0    0    0    0
## 1193    0    0    0    0    0    0    0    0    0    0    0    0
## 1194    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1195    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1196    0    0    0    0    0    0    0    0    0    0    0    0
## 1197    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1198    0    0    0    0    0    0    0    0    0    0    0    0
## 1199    0    0    0    0    0    0    0    0    0    0    0    0
## 1200    0    0    0    0    0    0    0    0    0    0    0    0
## 1201    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1202    0    0    0    0    0    0    0    0    0    0    0    0
## 1203    0    0    0    0    0    0    0    0    0    0    0    0
## 1204    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1205    0    0    0    0    0    0    0    0    0    0    0    0
## 1206    0    0    0    0    0    0    0    0    0    0    0    0
## 1207    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1208    0    0    0    0    0    0    0    0    0    0    0    0
## 1209    0    0    0    0    0    0    0    0    0    0    0    0
## 1210    0    0    0    0    0    0    0    0    0    0    0    0
## 1211    0    0    0    0    0    0    0    0    0    0    0    0
## 1212    0    0    0    0    0    0    0    0    0    0    0    0
## 1213    0    0    0    0    0    0    NA   NA   NA   NA   NA   NA
## 1214    0    0    0    0    0    0    NA   0    0    0    0    0
## 1215    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1216    0    0    0    0    0    0    0    0    0    0    0    0
## 1217    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1218    0    0    0    0    0    0    0    0    0    0    0    0
## 1219    0    0    0    0    0    0    0    0    0    0    0    0
## 1220    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1221    0    0    0    0    0    0    0    0    0    0    0    0
## 1222    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1223    0    0    0    0    0    0    0    0    0    0    0    0
## 1224    0    0    0    0    0    0    0    0    0    0    0    0
## 1225    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1226    0    0    0    0    0    0    0    0    0    0    0    0
## 1227    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1228    0    0    0    0    0    0    0    0    0    0    0    0
## 1229    0    0    0    0    0    0    0    0    0    0    0    0
## 1230    0    0    0    0    0    0    0    0    0    0    0    0
## 1231    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1232    0    0    0    0    0    0    0    0    0    0    0    0
## 1233    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1234    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1235    0    0    0    0    0    0    0    0    0    0    0    0
## 1236    0    0    0    0    0    0    0    0    0    0    0    0
## 1237    0    0    0    0    0    0    0    0    0    0    0    0
## 1238    0    0    0    0    0    0    0    0    0    0    0    0
## 1239    0    0    0    0    0    0    0    0    0    0    0    0
## 1240    0    0    0    0    0    0    0    NA   NA   NA   NA   NA
## 1241    0    0    0    0    0    0    0    0    0    0    0    0
```

```
## 1242      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1243      0     0     0     0     0     0     0     0     0     0     0     0
## 1244      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1245      0     0     0     0     0     0     0     0     0     0     0     0
## 1246      0     0     0     0     0     0     0     0     0     0     0     0
## 1247      0     0     0     0     0     0     0     0     0     0     0     0
## 1248      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1249      0     0     0     0     0     0     0     0     0     0     0     0
## 1250      0     0     0     0     0     0     0     0     0     0     0     0
## 1251      0     0     0     0     0     0     0     0     0     0     0     0
## 1252      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1253      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1254      0     0     0     0     0     0     0     0     0     0     0     0
## 1255      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1256      0     0     0     0     0     0     0     0     0     0     0     0
## 1257      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1258      0     0     0     0     0     0     0     0     0     0     0     0
## 1259      0     0     0     0     0     0     0     0     0     0     0     0
## 1260      0     0     0     0     0     0     0     0     0     0     0     0
## 1261      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1262      0     0     0     0     0     0     0     0     0     0     0     0
## 1263      0     0     0     0     0     0     0     0     0     0     0     0
## 1264      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1265      0     0     0     0     0     0     0     0     0     0     0     0
## 1266      0     0     0     0     0     0     0     0     0     0     0     0
## 1267      0     0     0     0     0     0     0     0     0     0     0     0
## 1268      0     0     0     0     0     0     0     0     0     0     0     0
## 1269      0     0     0     0     0     0     0     0     0     0     0     0
## 1270      0     0     0     0     0     0     0     0     0     0     0     0
## 1271      0     0     0     0     0     0     0     0     0     0     0     0
## 1272      0     0     0     0     0     0     0     0     0     0     0     0
## 1273      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1274      0     0     0     0     0     0     0     0     0     0     0     0
## 1275      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1276      0     0     0     0     0     0     0     0     0     0     0     0
## 1277      0     0     0     0     0     0     0     0     0     0     0     0
## 1278      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1279      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1280      0     0     0     0     0     0     0     0     0     0     0     0
## 1281      0     0     0     0     0     0     0     0     0     0     0     0
## 1282      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1283      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1284      0     0     0     0     0     0     0     0     0     0     0     0
## 1285      0     0     0     0     0     0     0     0     0     0     0     0
## 1286      0     0     0     0     0     0     0     0     0     0     0     0
## 1287      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1288      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1289      0     0     0     0     0     0     0     0     0     0     0     0
## 1290      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1291      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1292      0     0     0     0     0     0     0     0     0     0     0     0
## 1293      0     0     0     0     0     0     0    NA    NA    NA    NA    NA
## 1294      0     0     0     0     0     0     0     0     0     0     0     0
## 1295      0     0     0     0     0     0     0     0     0     0     0     0
```

##	1296	0	0	0	0	0	0	0	0	0	0	0	0
##	1297	0	0	0	0	0	0	0	0	0	0	0	0
##	1298	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1299	0	0	0	0	0	0	0	0	0	0	0	0
##	1300	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1301	0	0	0	0	0	0	0	0	0	0	0	0
##	1302	0	0	0	0	0	0	0	0	0	0	0	0
##	1303	0	0	0	0	0	0	0	0	0	0	0	0
##	1304	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1305	0	0	0	0	0	0	0	0	0	0	0	0
##	1306	0	0	0	0	0	0	0	0	0	0	0	0
##	1307	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1308	0	0	0	0	0	0	0	0	0	0	0	0
##	1309	0	0	0	0	0	0	0	0	0	0	0	0
##	1310	0	0	0	0	0	0	0	0	0	0	0	0
##	1311	0	0	0	0	0	0	0	0	0	0	0	0
##	1312	0	0	0	0	0	0	0	0	0	0	0	0
##	1313	0	0	0	0	0	0	0	0	0	0	0	0
##	1314	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1315	0	0	0	0	0	0	0	0	0	0	0	0
##	1316	0	0	0	0	0	0	0	0	0	0	0	0
##	1317	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1318	0	0	0	0	0	0	0	0	0	0	0	0
##	1319	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1320	0	0	0	0	0	0	0	0	0	0	0	0
##	1321	0	0	0	0	0	0	0	0	0	0	0	0
##	1322	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1323	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1324	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1325	0	0	0	0	0	0	0	0	0	0	0	0
##	1326	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1327	0	0	0	0	0	0	0	0	0	0	0	0
##	1328	0	0	0	0	0	0	0	0	0	0	0	0
##	1329	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1330	0	0	0	0	0	0	0	0	0	0	0	0
##	1331	0	0	0	0	0	0	0	0	0	0	0	0
##	1332	0	0	0	0	0	0	0	0	0	0	0	0
##	1333	0	0	0	0	0	0	0	0	0	0	0	0
##	1334	0	0	0	0	0	0	0	0	0	0	0	0
##	1335	0	0	0	0	0	0	0	0	0	0	0	0
##	1336	0	0	0	0	0	0	0	0	0	0	0	0
##	1337	0	0	0	0	0	0	0	0	0	0	0	0
##	1338	0	0	0	0	0	0	0	0	0	0	0	0
##	1339	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1340	0	0	0	0	0	0	0	0	0	0	0	0
##	1341	0	0	0	0	0	0	0	0	0	0	0	0
##	1342	0	0	0	0	0	0	0	0	0	0	0	0
##	1343	0	0	0	0	0	0	0	0	0	0	0	0
##	1344	0	0	0	0	0	0	0	0	0	0	0	0
##	1345	0	0	0	0	0	0	0	0	0	0	0	0
##	1346	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1347	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
##	1348	0	0	0	0	0	0	0	0	0	0	0	0
##	1349	0	0	0	0	0	0	0	0	0	0	0	0

```
## 1350    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1351    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1352    0    0    0    0    0    0    0     0     0     0     0     0
## 1353    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1354    0    0    0    0    0    0    0     0     0     0     0     0
## 1355    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1356    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1357    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1358    0    0    0    0    0    0    0     0     0     0     0     0
## 1359    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1360    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1361    0    0    0    0    0    0    0     0     0     0     0     0
## 1362    0    0    0    0    0    0    0     0     0     0     0     0
## 1363    0    0    0    0    0    0    0     0     0     0     0     0
## 1364    0    0    0    0    0    0    0     0     0     0     0     0
## 1365    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1366    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1367    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1368    0    0    0    0    0    0    0     0     0     0     0     0
## 1369    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1370    0    0    0    0    0    0    0     0     0     0     0     0
## 1371    0    0    0    0    0    0    0     0     0     0     0     0
## 1372    0    0    0    0    0    0    0     0     0     0     0     0
## 1373    0    0    0    0    0    0    0     0     0     0     0     0
## 1374    0    0    0    0    0    0    0     0     0     0     0     0
## 1375    0    0    0    0    0    0    0     0     0     0     0     0
## 1376    0    0    0    0    0    0    0     0     0     0     0     0
## 1377    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1378    0    0    0    0    0    0    0     0     0     0     0     0
## 1379    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1380    0    0    0    0    0    0    0     0     0     0     0     0
## 1381    0    0    0    0    0    0    0     0     0     0     0     0
## 1382    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1383    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1384    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1385    0    0    0    0    0    0    0     0     0     0     0     0
## 1386    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1387    0    0    0    0    0    0    0     0     0     0     0     0
## 1388    0    0    0    0    0    0    0     0     0     0     0     0
## 1389    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1390    0    0    0    0    0    0    0     0     0     0     0     0
## 1391    0    0    0    0    0    0    0     0     0     0     0     0
## 1392    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1393    0    0    0    0    0    0    0     0     0     0     0     0
## 1394    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1395    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1396    0    0    0    0    0    0    0     0     0     0     0     0
## 1397    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1398    0    0    0    0    0    0    0     0     0     0     0     0
## 1399    0    0    0    0    0    0    0     0     0     0     0     0
## 1400    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
## 1401    0    0    0    0    0    0    0     0     0     0     0     0
## 1402    0    0    0    0    0    0    0     0     0     0     0     0
## 1403    0    0    0    0    0    0    0    NA    NA    NA    NA    NA
```

```
## 1404      0     0     0     0     0     0     0      0      0     0     0     0
## 1405      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1406      0     0     0     0     0     0     0      0      0     0     0     0
## 1407      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1408      0     0     0     0     0     0     0      0      0     0     0     0
## 1409      0     0     0     0     0     0     0      0      0     0     0     0
## 1410      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1411      0     0     0     0     0     0     0      0      0     0     0     0
## 1412      0     0     0     0     0     0     0      0      0     0     0     0
## 1413      0     0     0     0     0     0     0      0      0     0     0     0
## 1414      0     0     0     0     0     0     0      0      0     0     0     0
## 1415      0     0     0     0     0     0     0      0      0     0     0     0
## 1416      0     0     0     0     0     0     0      0      0     0     0     0
## 1417      0     0     0     0     0     0     0      0      0     0     0     0
## 1418      0     0     0     0     0     0     0      0      0     0     0     0
## 1419      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1420      0     0     0     0     0     0     0      0      0     0     0     0
## 1421      0     0     0     0     0     0     0      0      0     0     0     0
## 1422      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1423      0     0     0     0     0     0     0      0      0     0     0     0
## 1424      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1425      0     0     0     0     0     0     0      0      0     0     0     0
## 1426      0     0     0     0     0     0     0      0      0     0     0     0
## 1427      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
## 1428      0     0     0     0     0     0     0     NA    NA    NA    NA    NA
##        [,62] [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70]
## 1        0     0     0     0     0     0     0     0     0
## 2       NA    NA    NA    NA    NA    NA    NA    NA    NA
## 3       NA    NA    NA    NA    NA    NA    NA    NA    NA
## 4        0     0     0     0     0     0     0     0     0
## 5        0     0     0     0     0     0     0     0     0
## 6       NA    NA    NA    NA    NA    NA    NA    NA    NA
## 7        0     0     0     0     0     0     0     0     0
## 8        0     0     0     0     0     0     0     0     0
## 9       NA    NA    NA    NA    NA    NA    NA    NA    NA
## 10       0     0     0     0     0     0     0     0     0
## 11       0     0     0     0     0     0     0     0     0
## 12      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 13       0     0     0     0     0     0     0     0     0
## 14      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 15      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 16       0     0     0     0     0     0     0     0     0
## 17      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 18      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 19      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 20      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 21       0     0     0     0     0     0     0     0     0
## 22      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 23       0     0     0     0     0     0     0     0     0
## 24       0     0     0     0     0     0     0     0     0
## 25       0     0     0     0     0     0     0     0     0
## 26      NA    NA    NA    NA    NA    NA    NA    NA    NA
## 27       0     0     0     0     0     0     0     0     0
## 28       0     0     0     0     0     0     0     0     0
```

```
##   29    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   30     0     0     0     0     0     0     0     0     0
##   31     0     0     0     0     0     0     0     0     0
##   32    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   33     0     0     0     0     0     0     0     0     0
##   34     0     0     0     0     0     0     0     0     0
##   35    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   36     0     0     0     0     0     0     0     0     0
##   37     0     0     0     0     0     0     0     0     0
##   38    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   39     0     0     0     0     0     0     0     0     0
##   40    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   41     0     0     0     0     0     0     0     0     0
##   42    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   43     0     0     0     0     0     0     0     0     0
##   44     0     0     0     0     0     0     0     0     0
##   45     0     0     0     0     0     0     0     0     0
##   46     0     0     0     0     0     0     0     0     0
##   47    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   48    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   49     0     0     0     0     0     0     0     0     0
##   50    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   51     0     0     0     0     0     0     0     0     0
##   52     0     0     0     0     0     0     0     0     0
##   53    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   54     0     0     0     0     0     0     0     0     0
##   55     0     0     0     0     0     0     0     0     0
##   56    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   57     0     0     0     0     0     0     0     0     0
##   58     0     0     0     0     0     0     0     0     0
##   59    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   60    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   61     0     0     0     0     0     0     0     0     0
##   62    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   63    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   64     0     0     0     0     0     0     0     0     0
##   65    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   66     0     0     0     0     0     0     0     0     0
##   67     0     0     0     0     0     0     0     0     0
##   68     0     0     0     0     0     0     0     0     0
##   69     0     0     0     0     0     0     0     0     0
##   70    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   71     0     0     0     0     0     0     0     0     0
##   72     0     0     0     0     0     0     0     0     0
##   73    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   74     0     0     0     0     0     0     0     0     0
##   75     0     0     0     0     0     0     0     0     0
##   76    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   77     0     0     0     0     0     0     0     0     0
##   78     0     0     0     0     0     0     0     0     0
##   79    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   80     0     0     0     0     0     0     0     0     0
##   81    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   82     0     0     0     0     0     0     0     0     0
```

```
##  83   0  0  0  0  0  0  0  0  0
##  84  NA NA NA NA NA NA NA NA NA
##  85   0  0  0  0  0  0  0  0  0
##  86   0  0  0  0  0  0  0  0  0
##  87  NA NA NA NA NA NA NA NA NA
##  88  NA NA NA NA NA NA NA NA NA
##  89   0  0  0  0  0  0  0  0  0
##  90  NA NA NA NA NA NA NA NA NA
##  91   0  0  0  0  0  0  0  0  0
##  92   0  0  0  0  0  0  0  0  0
##  93  NA NA NA NA NA NA NA NA NA
##  94  NA NA NA NA NA NA NA NA NA
##  95   0  0  0  0  0  0  0  0  0
##  96  NA NA NA NA NA NA NA NA NA
##  97  NA NA NA NA NA NA NA NA NA
##  98  NA NA NA NA NA NA NA NA NA
##  99   0  0  0  0  0  0  0  0  0
## 100   0  0  0  0  0  0  0  0  0
## 101   0  0  0  0  0  0  0  0  0
## 102   0  0  0  0  0  0  0  0  0
## 103  NA NA NA NA NA NA NA NA NA
## 104  NA NA NA NA NA NA NA NA NA
## 105   0  0  0  0  0  0  0  0  0
## 106   0  0  0  0  0  0  0  0  0
## 107  NA NA NA NA NA NA NA NA NA
## 108   0  0  0  0  0  0  0  0  0
## 109  NA NA NA NA NA NA NA NA NA
## 110   0  0  0  0  0  0  0  0  0
## 111  NA NA NA NA NA NA NA NA NA
## 112  NA NA NA NA NA NA NA NA NA
## 113  NA NA NA NA NA NA NA NA NA
## 114   0  0  0  0  0  0  0  0  0
## 115  NA NA NA NA NA NA NA NA NA
## 116  NA NA NA NA NA NA NA NA NA
## 117   0  0  0  0  0  0  0  0  0
## 118   0  0  0  0  0  0  0  0  0
## 119   0  0  0  0  0  0  0  0  0
## 120  NA NA NA NA NA NA NA NA NA
## 121  NA NA NA NA NA NA NA NA NA
## 122   0  0  0  0  0  0  0  0  0
## 123  NA NA NA NA NA NA NA NA NA
## 124   0  0  0  0  0  0  0  0  0
## 125  NA NA NA NA NA NA NA NA NA
## 126   0  0  0  0  0  0  0  0  0
## 127  NA NA NA NA NA NA NA NA NA
## 128   0  0  0  0  0  0  0  0  0
## 129   0  0  0  0  0  0  0  0  0
## 130   0  0  0  0  0  0  0  0  0
## 131  NA NA NA NA NA NA NA NA NA
## 132   0  0  0  0  0  0  0  0  0
## 133  NA NA NA NA NA NA NA NA NA
## 134   0  0  0  0  0  0  0  0  0
## 135   0  0  0  0  0  0  0  0  0
## 136  NA NA NA NA NA NA NA NA NA
```

```
##    137     0     0     0     0     0     0     0     0     0
##    138     0     0     0     0     0     0     0     0     0
##    139     0     0     0     0     0     0     0     0     0
##    140     0     0     0     0     0     0     0     0     0
##    141    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    142     0     0     0     0     0     0     0     0     0
##    143     0     0     0     0     0     0     0     0     0
##    144     0     0     0     0     0     0     0     0     0
##    145    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    146    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    147     0     0     0     0     0     0     0     0     0
##    148     0     0     0     0     0     0     0     0     0
##    149     0     0     0     0     0     0     0     0     0
##    150     0     0     0     0     0     0     0     0     0
##    151     0     0     0     0     0     0     0     0     0
##    152    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    153     0     0     0     0     0     0     0     0     0
##    154     0     0     0     0     0     0     0     0     0
##    155    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    156     0     0     0     0     0     0     0     0     0
##    157     0     0     0     0     0     0     0     0     0
##    158     0     0     0     0     0     0     0     0     0
##    159    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    160     0     0     0     0     0     0     0     0     0
##    161    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    162     0     0     0     0     0     0     0     0     0
##    163     0     0     0     0     0     0     0     0     0
##    164     0     0     0     0     0     0     0     0     0
##    165    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    166     0     0     0     0     0     0     0     0     0
##    167    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    168     0     0     0     0     0     0     0     0     0
##    169    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    170     0     0     0     0     0     0     0     0     0
##    171    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    172     0     0     0     0     0     0     0     0     0
##    173     0     0     0     0     0     0     0     0     0
##    174    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    175    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    176     0     0     0     0     0     0     0     0     0
##    177    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    178     0     0     0     0     0     0     0     0     0
##    179     0     0     0     0     0     0     0     0     0
##    180    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    181     0     0     0     0     0     0     0     0     0
##    182     0     0     0     0     0     0     0     0     0
##    183     0     0     0     0     0     0     0     0     0
##    184    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    185    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    186     0     0     0     0     0     0     0     0     0
##    187     0     0     0     0     0     0     0     0     0
##    188    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    189    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    190     0     0     0     0     0     0     0     0     0
```

```
## 191     0     0     0     0     0     0     0     0     0
## 192     0     0     0     0     0     0     0     0     0
## 193     0     0     0     0     0     0     0     0     0
## 194     0     0     0     0     0     0     0     0     0
## 195    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 196     0     0     0     0     0     0     0     0     0
## 197    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 198     0     0     0     0     0     0     0     0     0
## 199     0     0     0     0     0     0     0     0     0
## 200    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 201    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 202     0     0     0     0     0     0     0     0     0
## 203     0     0     0     0     0     0     0     0     0
## 204     0     0     0     0     0     0     0     0     0
## 205     0     0     0     0     0     0     0     0     0
## 206     0     0     0     0     0     0     0     0     0
## 207    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 208     0     0     0     0     0     0     0     0     0
## 209    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 210     0     0     0     0     0     0     0     0     0
## 211     0     0     0     0     0     0     0     0     0
## 212     0     0     0     0     0     0     0     0     0
## 213     0     0     0     0     0     0     0     0     0
## 214     0     0     0     0     0     0     0     0     0
## 215     0     0     0     0     0     0     0     0     0
## 216     0     0     0     0     0     0     0     0     0
## 217     0     0     0     0     0     0     0     0     0
## 218     0     0     0     0     0     0     0     0     0
## 219    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 220     0     0     0     0     0     0     0     0     0
## 221     0     0     0     0     0     0     0     0     0
## 222     0     0     0     0     0     0     0     0     0
## 223    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 224     0     0     0     0     0     0     0     0     0
## 225     0     0     0     0     0     0     0     0     0
## 226    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 227     0     0     0     0     0     0     0     0     0
## 228    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 229     0     0     0     0     0     0     0     0     0
## 230     0     0     0     0     0     0     0     0     0
## 231    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 232     0     0     0     0     0     0     0     0     0
## 233     0     0     0     0     0     0     0     0     0
## 234    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 235     0     0     0     0     0     0     0     0     0
## 236     0     0     0     0     0     0     0     0     0
## 237    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 238     0     0     0     0     0     0     0     0     0
## 239    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 240     0     0     0     0     0     0     0     0     0
## 241    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 242     0     0     0     0     0     0     0     0     0
## 243    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 244     0     0     0     0     0     0     0     0     0
```

```
## 245    0    0    0    0    0    0    0    0    0
## 246    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 247    0    0    0    0    0    0    0    0    0
## 248    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 249    0    0    0    0    0    0    0    0    0
## 250    0    0    0    0    0    0    0    0    0
## 251    0    0    0    0    0    0    0    0    0
## 252    0    0    0    0    0    0    0    0    0
## 253    0    0    0    0    0    0    0    0    0
## 254    0    0    0    0    0    0    0    0    0
## 255    0    0    0    0    0    0    0    0    0
## 256    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 257    0    0    0    0    0    0    0    0    0
## 258    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 259    0    0    0    0    0    0    0    0    0
## 260    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 261    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 262    0    0    0    0    0    0    0    0    0
## 263    0    0    0    0    0    0    0    0    0
## 264    0    0    0    0    0    0    0    0    0
## 265    0    0    0    0    0    0    0    0    0
## 266    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 267    0    0    0    0    0    0    0    0    0
## 268    0    0    0    0    0    0    0    0    0
## 269    0    0    0    0    0    0    0    0    0
## 270    0    0    0    0    0    0    0    0    0
## 271    0    0    0    0    0    0    0    0    0
## 272    0    0    0    0    0    0    0    0    0
## 273    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 274    0    0    0    0    0    0    0    0    0
## 275    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 276    0    0    0    0    0    0    0    0    0
## 277    0    0    0    0    0    0    0    0    0
## 278    0    0    0    0    0    0    0    0    0
## 279    0    0    0    0    0    0    0    0    0
## 280    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 281    0    0    0    0    0    0    0    0    0
## 282    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 283    0    0    0    0    0    0    0    0    0
## 284    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 285    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 286    0    0    0    0    0    0    0    0    0
## 287    0    0    0    0    0    0    0    0    0
## 288    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 289    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 290    0    0    0    0    0    0    0    0    0
## 291    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 292    0    0    0    0    0    0    0    0    0
## 293    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 294    0    0    0    0    0    0    0    0    0
## 295    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 296    0    0    0    0    0    0    0    0    0
## 297    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 298    0    0    0    0    0    0    0    0    0
```

```
## 299   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 300    0    0    0    0    0    0    0    0    0
## 301    0    0    0    0    0    0    0    0    0
## 302   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 303   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 304    0    0    0    0    0    0    0    0    0
## 305    0    0    0    0    0    0    0    0    0
## 306    0    0    0    0    0    0    0    0    0
## 307   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 308    0    0    0    0    0    0    0    0    0
## 309   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 310    0    0    0    0    0    0    0    0    0
## 311    0    0    0    0    0    0    0    0    0
## 312   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 313    0    0    0    0    0    0    0    0    0
## 314   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 315    0    0    0    0    0    0    0    0    0
## 316   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 317    0    0    0    0    0    0    0    0    0
## 318    0    0    0    0    0    0    0    0    0
## 319   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 320    0    0    0    0    0    0    0    0    0
## 321    0    0    0    0    0    0    0    0    0
## 322   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 323    0    0    0    0    0    0    0    0    0
## 324    0    0    0    0    0    0    0    0    0
## 325    0    0    0    0    0    0    0    0    0
## 326    0    0    0    0    0    0    0    0    0
## 327    0    0    0    0    0    0    0    0    0
## 328    0    0    0    0    0    0    0    0    0
## 329    0    0    0    0    0    0    0    0    0
## 330   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 331   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 332    0    0    0    0    0    0    0    0    0
## 333   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 334    0    0    0    0    0    0    0    0    0
## 335    0    0    0    0    0    0    0    0    0
## 336   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 337    0    0    0    0    0    0    0    0    0
## 338   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 339    0    0    0    0    0    0    0    0    0
## 340    0    0    0    0    0    0    0    0    0
## 341    0    0    0    0    0    0    0    0    0
## 342   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 343    0    0    0    0    0    0    0    0    0
## 344   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 345    0    0    0    0    0    0    0    0    0
## 346   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 347    0    0    0    0    0    0    0    0    0
## 348    0    0    0    0    0    0    0    0    0
## 349   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 350    0    0    0    0    0    0    0    0    0
## 351   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 352   NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
## 353       0   0   0   0   0   0   0   0   0
## 354      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 355       0   0   0   0   0   0   0   0   0
## 356       0   0   0   0   0   0   0   0   0
## 357       0   0   0   0   0   0   0   0   0
## 358      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 359       0   0   0   0   0   0   0   0   0
## 360      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 361       0   0   0   0   0   0   0   0   0
## 362       0   0   0   0   0   0   0   0   0
## 363       0   0   0   0   0   0   0   0   0
## 364      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 365       0   0   0   0   0   0   0   0   0
## 366       0   0   0   0   0   0   0   0   0
## 367       0   0   0   0   0   0   0   0   0
## 368       0   0   0   0   0   0   0   0   0
## 369       0   0   0   0   0   0   0   0   0
## 370       0   0   0   0   0   0   0   0   0
## 371      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 372       0   0   0   0   0   0   0   0   0
## 373       0   0   0   0   0   0   0   0   0
## 374      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 375       0   0   0   0   0   0   0   0   0
## 376      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 377       0   0   0   0   0   0   0   0   0
## 378       0   0   0   0   0   0   0   0   0
## 379       0   0   0   0   0   0   0   0   0
## 380       0   0   0   0   0   0   0   0   0
## 381       0   0   0   0   0   0   0   0   0
## 382       0   0   0   0   0   0   0   0   0
## 383       0   0   0   0   0   0   0   0   0
## 384      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 385      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 386       0   0   0   0   0   0   0   0   0
## 387      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 388       0   0   0   0   0   0   0   0   0
## 389      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 390       0   0   0   0   0   0   0   0   0
## 391      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 392       0   0   0   0   0   0   0   0   0
## 393       0   0   0   0   0   0   0   0   0
## 394       0   0   0   0   0   0   0   0   0
## 395       0   0   0   0   0   0   0   0   0
## 396       0   0   0   0   0   0   0   0   0
## 397       0   0   0   0   0   0   0   0   0
## 398       0   0   0   0   0   0   0   0   0
## 399       0   0   0   0   0   0   0   0   0
## 400       0   0   0   0   0   0   0   0   0
## 401       0   0   0   0   0   0   0   0   0
## 402       0   0   0   0   0   0   0   0   0
## 403       0   0   0   0   0   0   0   0   0
## 404      NA  NA  NA  NA  NA  NA  NA  NA  NA
## 405       0   0   0   0   0   0   0   0   0
## 406      NA  NA  NA  NA  NA  NA  NA  NA  NA
```

```
## 407      0     0     0     0     0     0     0     0     0
## 408     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 409      0     0     0     0     0     0     0     0     0
## 410      0     0     0     0     0     0     0     0     0
## 411     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 412      0     0     0     0     0     0     0     0     0
## 413      0     0     0     0     0     0     0     0     0
## 414      0     0     0     0     0     0     0     0     0
## 415     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 416      0     0     0     0     0     0     0     0     0
## 417      0     0     0     0     0     0     0     0     0
## 418     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 419      0     0     0     0     0     0     0     0     0
## 420     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 421      0     0     0     0     0     0     0     0     0
## 422      0     0     0     0     0     0     0     0     0
## 423     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 424      0     0     0     0     0     0     0     0     0
## 425     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 426      0     0     0     0     0     0     0     0     0
## 427     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 428      0     0     0     0     0     0     0     0     0
## 429      0     0     0     0     0     0     0     0     0
## 430      0     0     0     0     0     0     0     0     0
## 431     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 432      0     0     0     0     0     0     0     0     0
## 433      0     0     0     0     0     0     0     0     0
## 434     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 435     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 436      0     0     0     0     0     0     0     0     0
## 437     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 438      0     0     0     0     0     0     0     0     0
## 439      0     0     0     0     0     0     0     0     0
## 440     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 441      0     0     0     0     0     0     0     0     0
## 442     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 443      0     0     0     0     0     0     0     0     0
## 444      0     0     0     0     0     0     0     0     0
## 445      0     0     0     0     0     0     0     0     0
## 446     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 447     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 448      0     0     0     0     0     0     0     0     0
## 449      0     0     0     0     0     0     0     0     0
## 450      0     0     0     0     0     0     0     0     0
## 451      0     0     0     0     0     0     0     0     0
## 452      0     0     0     0     0     0     0     0     0
## 453     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 454      0     0     0     0     0     0     0     0     0
## 455     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 456     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 457      0     0     0     0     0     0     0     0     0
## 458      0     0     0     0     0     0     0     0     0
## 459      0     0     0     0     0     0     0     0     0
## 460      0     0     0     0     0     0     0     0     0
```

```
## 461   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 462    0    0    0    0    0    0    0    0    0
## 463   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 464    0    0    0    0    0    0    0    0    0
## 465    0    0    0    0    0    0    0    0    0
## 466   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 467    0    0    0    0    0    0    0    0    0
## 468   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 469   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 470    0    0    0    0    0    0    0    0    0
## 471    0    0    0    0    0    0    0    0    0
## 472   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 473    0    0    0    0    0    0    0    0    0
## 474    0    0    0    0    0    0    0    0    0
## 475   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 476    0    0    0    0    0    0    0    0    0
## 477   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 478    0    0    0    0    0    0    0    0    0
## 479   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 480   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 481    0    0    0    0    0    0    0    0    0
## 482    0    0    0    0    0    0    0    0    0
## 483    0    0    0    0    0    0    0    0    0
## 484   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 485    0    0    0    0    0    0    0    0    0
## 486   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 487    0    0    0    0    0    0    0    0    0
## 488    0    0    0    0    0    0    0    0    0
## 489    0    0    0    0    0    0    0    0    0
## 490    0    0    0    0    0    0    0    0    0
## 491    0    0    0    0    0    0    0    0    0
## 492    0    0    0    0    0    0    0    0    0
## 493    0    0    0    0    0    0    0    0    0
## 494    0    0    0    0    0    0    0    0    0
## 495    0    0    0    0    0    0    0    0    0
## 496    0    0    0    0    0    0    0    0    0
## 497    0    0    0    0    0    0    0    0    0
## 498    0    0    0    0    0    0    0    0    0
## 499    0    0    0    0    0    0    0    0    0
## 500    0    0    0    0    0    0    0    0    0
## 501    0    0    0    0    0    0    0    0    0
## 502   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 503    0    0    0    0    0    0    0    0    0
## 504    0    0    0    0    0    0    0    0    0
## 505   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 506    0    0    0    0    0    0    0    0    0
## 507    0    0    0    0    0    0    0    0    0
## 508    0    0    0    0    0    0    0    0    0
## 509   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 510   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 511    0    0    0    0    0    0    0    0    0
## 512   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 513    0    0    0    0    0    0    0    0    0
## 514   NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
## 515    0    0    0    0    0    0    0    0    0
## 516   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 517   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 518    0    0    0    0    0    0    0    0    0
## 519    0    0    0    0    0    0    0    0    0
## 520   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 521   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 522    0    0    0    0    0    0    0    0    0
## 523    0    0    0    0    0    0    0    0    0
## 524    0    0    0    0    0    0    0    0    0
## 525    0    0    0    0    0    0    0    0    0
## 526    0    0    0    0    0    0    0    0    0
## 527   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 528   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 529    0    0    0    0    0    0    0    0    0
## 530   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 531    0    0    0    0    0    0    0    0    0
## 532   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 533    0    0    0    0    0    0    0    0    0
## 534    0    0    0    0    0    0    0    0    0
## 535   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 536    0    0    0    0    0    0    0    0    0
## 537   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 538    0    0    0    0    0    0    0    0    0
## 539    0    0    0    0    0    0    0    0    0
## 540    0    0    0    0    0    0    0    0    0
## 541   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 542    0    0    0    0    0    0    0    0    0
## 543   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 544   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 545    0    0    0    0    0    0    0    0    0
## 546    0    0    0    0    0    0    0    0    0
## 547    0    0    0    0    0    0    0    0    0
## 548    0    0    0    0    0    0    0    0    0
## 549    0    0    0    0    0    0    0    0    0
## 550    0    0    0    0    0    0    0    0    0
## 551    0    0    0    0    0    0    0    0    0
## 552   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 553   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 554    0    0    0    0    0    0    0    0    0
## 555    0    0    0    0    0    0    0    0    0
## 556    0    0    0    0    0    0    0    0    0
## 557    0    0    0    0    0    0    0    0    0
## 558   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 559    0    0    0    0    0    0    0    0    0
## 560    0    0    0    0    0    0    0    0    0
## 561   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 562    0    0    0    0    0    0    0    0    0
## 563    0    0    0    0    0    0    0    0    0
## 564   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 565    0    0    0    0    0    0    0    0    0
## 566    0    0    0    0    0    0    0    0    0
## 567    0    0    0    0    0    0    0    0    0
## 568    0    0    0    0    0    0    0    0    0
```

```
## 569   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 570    0    0    0    0    0    0    0    0    0
## 571   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 572   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 573    0    0    0    0    0    0    0    0    0
## 574    0    0    0    0    0    0    0    0    0
## 575    0    0    0    0    0    0    0    0    0
## 576    0    0    0    0    0    0    0    0    0
## 577    0    0    0    0    0    0    0    0    0
## 578    0    0    0    0    0    0    0    0    0
## 579    0    0    0    0    0    0    0    0    0
## 580    0    0    0    0    0    0    0    0    0
## 581   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 582    0    0    0    0    0    0    0    0    0
## 583   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 584    0    0    0    0    0    0    0    0    0
## 585   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 586    0    0    0    0    0    0    0    0    0
## 587    0    0    0    0    0    0    0    0    0
## 588   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 589   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 590    0    0    0    0    0    0    0    0    0
## 591    0    0    0    0    0    0    0    0    0
## 592    0    0    0    0    0    0    0    0    0
## 593    0    0    0    0    0    0    0    0    0
## 594    0    0    0    0    0    0    0    0    0
## 595    0    0    0    0    0    0    0    0    0
## 596    0    0    0    0    0    0    0    0    0
## 597    0    0    0    0    0    0    0    0    0
## 598    0    0    0    0    0    0    0    0    0
## 599   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 600    0    0    0    0    0    0    0    0    0
## 601   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 602    0    0    0    0    0    0    0    0    0
## 603    0    0    0    0    0    0    0    0    0
## 604   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 605   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 606    0    0    0    0    0    0    0    0    0
## 607    0    0    0    0    0    0    0    0    0
## 608   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 609   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 610    0    0    0    0    0    0    0    0    0
## 611   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 612    0    0    0    0    0    0    0    0    0
## 613    0    0    0    0    0    0    0    0    0
## 614    0    0    0    0    0    0    0    0    0
## 615   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 616    0    0    0    0    0    0    0    0    0
## 617    0    0    0    0    0    0    0    0    0
## 618   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 619   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 620    0    0    0    0    0    0    0    0    0
## 621   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 622    0    0    0    0    0    0    0    0    0
```

```
## 623     0     0     0     0     0     0     0     0     0
## 624    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 625     0     0     0     0     0     0     0     0     0
## 626    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 627     0     0     0     0     0     0     0     0     0
## 628     0     0     0     0     0     0     0     0     0
## 629     0     0     0     0     0     0     0     0     0
## 630    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 631     0     0     0     0     0     0     0     0     0
## 632     0     0     0     0     0     0     0     0     0
## 633    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 634     0     0     0     0     0     0     0     0     0
## 635    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 636     0     0     0     0     0     0     0     0     0
## 637     0     0     0     0     0     0     0     0     0
## 638    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 639     0     0     0     0     0     0     0     0     0
## 640     0     0     0     0     0     0     0     0     0
## 641    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 642    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 643     0     0     0     0     0     0     0     0     0
## 644     0     0     0     0     0     0     0     0     0
## 645     0     0     0     0     0     0     0     0     0
## 646     0     0     0     0     0     0     0     0     0
## 647     0     0     0     0     0     0     0     0     0
## 648     0     0     0     0     0     0     0     0     0
## 649    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 650     0     0     0     0     0     0     0     0     0
## 651    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 652    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 653     0     0     0     0     0     0     0     0     0
## 654     0     0     0     0     0     0     0     0     0
## 655    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 656    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 657     0     0     0     0     0     0     0     0     0
## 658    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 659     0     0     0     0     0     0     0     0     0
## 660    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 661     0     0     0     0     0     0     0     0     0
## 662     0     0     0     0     0     0     0     0     0
## 663     0     0     0     0     0     0     0     0     0
## 664    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 665     0     0     0     0     0     0     0     0     0
## 666     0     0     0     0     0     0     0     0     0
## 667    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 668     0     0     0     0     0     0     0     0     0
## 669     0     0     0     0     0     0     0     0     0
## 670     0     0     0     0     0     0     0     0     0
## 671     0     0     0     0     0     0     0     0     0
## 672    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 673     0     0     0     0     0     0     0     0     0
## 674    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 675     0     0     0     0     0     0     0     0     0
## 676     0     0     0     0     0     0     0     0     0
```

```
## 677    0    0    0    0    0    0    0    0    0
## 678    0    0    0    0    0    0    0    0    0
## 679    0    0    0    0    0    0    0    0    0
## 680    0    0    0    0    0    0    0    0    0
## 681    0    0    0    0    0    0    0    0    0
## 682   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 683    0    0    0    0    0    0    0    0    0
## 684   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 685   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 686    0    0    0    0    0    0    0    0    0
## 687    0    0    0    0    0    0    0    0    0
## 688    0    0    0    0    0    0    0    0    0
## 689    0    0    0    0    0    0    0    0    0
## 690    0    0    0    0    0    0    0    0    0
## 691    0    0    0    0    0    0    0    0    0
## 692    0    0    0    0    0    0    0    0    0
## 693   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 694    0    0    0    0    0    0    0    0    0
## 695    0    0    0    0    0    0    0    0    0
## 696    0    0    0    0    0    0    0    0    0
## 697    0    0    0    0    0    0    0    0    0
## 698    0    0    0    0    0    0    0    0    0
## 699    0    0    0    0    0    0    0    0    0
## 700    0    0    0    0    0    0    0    0    0
## 701   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 702   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 703    0    0    0    0    0    0    0    0    0
## 704   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 705    0    0    0    0    0    0    0    0    0
## 706   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 707    0    0    0    0    0    0    0    0    0
## 708    0    0    0    0    0    0    0    0    0
## 709   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 710    0    0    0    0    0    0    0    0    0
## 711    0    0    0    0    0    0    0    0    0
## 712    0    0    0    0    0    0    0    0    0
## 713   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 714    0    0    0    0    0    0    0    0    0
## 715    0    0    0    0    0    0    0    0    0
## 716    0    0    0    0    0    0    0    0    0
## 717    0    0    0    0    0    0    0    0    0
## 718    0    0    0    0    0    0    0    0    0
## 719    0    0    0    0    0    0    0    0    0
## 720    0    0    0    0    0    0    0    0    0
## 721   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 722    0    0    0    0    0    0    0    0    0
## 723   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 724    0    0    0    0    0    0    0    0    0
## 725    0    0    0    0    0    0    0    0    0
## 726    0    0    0    0    0    0    0    0    0
## 727   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 728    0    0    0    0    0    0    0    0    0
## 729    0    0    0    0    0    0    0    0    0
## 730    0    0    0    0    0    0    0    0    0
```

```
## 731   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 732    0    0    0    0    0    0    0    0    0
## 733    0    0    0    0    0    0    0    0    0
## 734   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 735    0    0    0    0    0    0    0    0    0
## 736    0    0    0    0    0    0    0    0    0
## 737    0    0    0    0    0    0    0    0    0
## 738   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 739    0    0    0    0    0    0    0    0    0
## 740   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 741    0    0    0    0    0    0    0    0    0
## 742   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 743   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 744    0    0    0    0    0    0    0    0    0
## 745    0    0    0    0    0    0    0    0    0
## 746    0    0    0    0    0    0    0    0    0
## 747    0    0    0    0    0    0    0    0    0
## 748   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 749    0    0    0    0    0    0    0    0    0
## 750    0    0    0    0    0    0    0    0    0
## 751   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 752   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 753    0    0    0    0    0    0    0    0    0
## 754    0    0    0    0    0    0    0    0    0
## 755    0    0    0    0    0    0    0    0    0
## 756    0    0    0    0    0    0    0    0    0
## 757   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 758   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 759    0    0    0    0    0    0    0    0    0
## 760   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 761    0    0    0    0    0    0    0    0    0
## 762    0    0    0    0    0    0    0    0    0
## 763    0    0    0    0    0    0    0    0    0
## 764    0    0    0    0    0    0    0    0    0
## 765    0    0    0    0    0    0    0    0    0
## 766    0    0    0    0    0    0    0    0    0
## 767    0    0    0    0    0    0    0    0    0
## 768    0    0    0    0    0    0    0    0    0
## 769    0    0    0    0    0    0    0    0    0
## 770    0    0    0    0    0    0    0    0    0
## 771    0    0    0    0    0    0    0    0    0
## 772    0    0    0    0    0    0    0    0    0
## 773    0    0    0    0    0    0    0    0    0
## 774   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 775    0    0    0    0    0    0    0    0    0
## 776    0    0    0    0    0    0    0    0    0
## 777    0    0    0    0    0    0    0    0    0
## 778   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 779    0    0    0    0    0    0    0    0    0
## 780    0    0    0    0    0    0    0    0    0
## 781    0    0    0    0    0    0    0    0    0
## 782   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 783    0    0    0    0    0    0    0    0    0
## 784    0    0    0    0    0    0    0    0    0
```

```
## 785   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 786    0    0    0    0    0    0    0    0    0
## 787    0    0    0    0    0    0    0    0    0
## 788    0    0    0    0    0    0    0    0    0
## 789    0    0    0    0    0    0    0    0    0
## 790    0    0    0    0    0    0    0    0    0
## 791   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 792   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 793    0    0    0    0    0    0    0    0    0
## 794    0    0    0    0    0    0    0    0    0
## 795    0    0    0    0    0    0    0    0    0
## 796    0    0    0    0    0    0    0    0    0
## 797   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 798    0    0    0    0    0    0    0    0    0
## 799    0    0    0    0    0    0    0    0    0
## 800    0    0    0    0    0    0    0    0    0
## 801   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 802    0    0    0    0    0    0    0    0    0
## 803   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 804    0    0    0    0    0    0    0    0    0
## 805   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 806    0    0    0    0    0    0    0    0    0
## 807    0    0    0    0    0    0    0    0    0
## 808    0    0    0    0    0    0    0    0    0
## 809   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 810    0    0    0    0    0    0    0    0    0
## 811   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 812    0    0    0    0    0    0    0    0    0
## 813    0    0    0    0    0    0    0    0    0
## 814   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 815    0    0    0    0    0    0    0    0    0
## 816   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 817    0    0    0    0    0    0    0    0    0
## 818    0    0    0    0    0    0    0    0    0
## 819   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 820    0    0    0    0    0    0    0    0    0
## 821   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 822    0    0    0    0    0    0    0    0    0
## 823    0    0    0    0    0    0    0    0    0
## 824   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 825   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 826    0    0    0    0    0    0    0    0    0
## 827    0    0    0    0    0    0    0    0    0
## 828   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 829    0    0    0    0    0    0    0    0    0
## 830    0    0    0    0    0    0    0    0    0
## 831   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 832    0    0    0    0    0    0    0    0    0
## 833    0    0    0    0    0    0    0    0    0
## 834   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 835    0    0    0    0    0    0    0    0    0
## 836   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 837    0    0    0    0    0    0    0    0    0
## 838   NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
## 839    0    0    0    0    0    0    0    0    0
## 840    0    0    0    0    0    0    0    0    0
## 841   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 842    0    0    0    0    0    0    0    0    0
## 843    0    0    0    0    0    0    0    0    0
## 844   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 845    0    0    0    0    0    0    0    0    0
## 846    0    0    0    0    0    0    0    0    0
## 847    0    0    0    0    0    0    0    0    0
## 848   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 849    0    0    0    0    0    0    0    0    0
## 850   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 851    0    0    0    0    0    0    0    0    0
## 852   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 853    0    0    0    0    0    0    0    0    0
## 854    0    0    0    0    0    0    0    0    0
## 855   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 856    0    0    0    0    0    0    0    0    0
## 857    0    0    0    0    0    0    0    0    0
## 858   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 859   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 860   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 861    0    0    0    0    0    0    0    0    0
## 862    0    0    0    0    0    0    0    0    0
## 863   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 864   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 865    0    0    0    0    0    0    0    0    0
## 866    0    0    0    0    0    0    0    0    0
## 867    0    0    0    0    0    0    0    0    0
## 868    0    0    0    0    0    0    0    0    0
## 869    0    0    0    0    0    0    0    0    0
## 870   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 871    0    0    0    0    0    0    0    0    0
## 872    0    0    0    0    0    0    0    0    0
## 873    0    0    0    0    0    0    0    0    0
## 874    0    0    0    0    0    0    0    0    0
## 875    0    0    0    0    0    0    0    0    0
## 876   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 877    0    0    0    0    0    0    0    0    0
## 878   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 879    0    0    0    0    0    0    0    0    0
## 880    0    0    0    0    0    0    0    0    0
## 881   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 882    0    0    0    0    0    0    0    0    0
## 883    0    0    0    0    0    0    0    0    0
## 884   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 885    0    0    0    0    0    0    0    0    0
## 886    0    0    0    0    0    0    0    0    0
## 887    0    0    0    0    0    0    0    0    0
## 888    0    0    0    0    0    0    0    0    0
## 889    0    0    0    0    0    0    0    0    0
## 890    0    0    0    0    0    0    0    0    0
## 891   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 892   NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
## 893    0    0    0    0    0    0    0    0    0
## 894    0    0    0    0    0    0    0    0    0
## 895   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 896   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 897   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 898    0    0    0    0    0    0    0    0    0
## 899   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 900   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 901    0    0    0    0    0    0    0    0    0
## 902   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 903    0    0    0    0    0    0    0    0    0
## 904   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 905    0    0    0    0    0    0    0    0    0
## 906    0    0    0    0    0    0    0    0    0
## 907    0    0    0    0    0    0    0    0    0
## 908   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 909    0    0    0    0    0    0    0    0    0
## 910   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 911    0    0    0    0    0    0    0    0    0
## 912    0    0    0    0    0    0    0    0    0
## 913    0    0    0    0    0    0    0    0    0
## 914    0    0    0    0    0    0    0    0    0
## 915   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 916    0    0    0    0    0    0    0    0    0
## 917   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 918    0    0    0    0    0    0    0    0    0
## 919    0    0    0    0    0    0    0    0    0
## 920    0    0    0    0    0    0    0    0    0
## 921    0    0    0    0    0    0    0    0    0
## 922   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 923    0    0    0    0    0    0    0    0    0
## 924   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 925    0    0    0    0    0    0    0    0    0
## 926   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 927    0    0    0    0    0    0    0    0    0
## 928    0    0    0    0    0    0    0    0    0
## 929    0    0    0    0    0    0    0    0    0
## 930    0    0    0    0    0    0    0    0    0
## 931   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 932   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 933    0    0    0    0    0    0    0    0    0
## 934   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 935    0    0    0    0    0    0    0    0    0
## 936   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 937    0    0    0    0    0    0    0    0    0
## 938    0    0    0    0    0    0    0    0    0
## 939   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 940    0    0    0    0    0    0    0    0    0
## 941   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 942    0    0    0    0    0    0    0    0    0
## 943    0    0    0    0    0    0    0    0    0
## 944    0    0    0    0    0    0    0    0    0
## 945    0    0    0    0    0    0    0    0    0
## 946   NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
##    947     0     0     0     0     0     0     0     0     0
##    948    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    949     0     0     0     0     0     0     0     0     0
##    950     0     0     0     0     0     0     0     0     0
##    951     0     0     0     0     0     0     0     0     0
##    952    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    953     0     0     0     0     0     0     0     0     0
##    954    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    955     0     0     0     0     0     0     0     0     0
##    956     0     0     0     0     0     0     0     0     0
##    957    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    958    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    959     0     0     0     0     0     0     0     0     0
##    960     0     0     0     0     0     0     0     0     0
##    961     0     0     0     0     0     0     0     0     0
##    962     0     0     0     0     0     0     0     0     0
##    963     0     0     0     0     0     0     0     0     0
##    964     0     0     0     0     0     0     0     0     0
##    965    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    966     0     0     0     0     0     0     0     0     0
##    967    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    968    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    969     0     0     0     0     0     0     0     0     0
##    970     0     0     0     0     0     0     0     0     0
##    971     0     0     0     0     0     0     0     0     0
##    972    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    973    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    974     0     0     0     0     0     0     0     0     0
##    975     0     0     0     0     0     0     0     0     0
##    976     0     0     0     0     0     0     0     0     0
##    977    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    978     0     0     0     0     0     0     0     0     0
##    979     0     0     0     0     0     0     0     0     0
##    980    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    981     0     0     0     0     0     0     0     0     0
##    982     0     0     0     0     0     0     0     0     0
##    983    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    984     0     0     0     0     0     0     0     0     0
##    985    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    986     0     0     0     0     0     0     0     0     0
##    987    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    988     0     0     0     0     0     0     0     0     0
##    989     0     0     0     0     0     0     0     0     0
##    990    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    991     0     0     0     0     0     0     0     0     0
##    992    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    993     0     0     0     0     0     0     0     0     0
##    994    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    995     0     0     0     0     0     0     0     0     0
##    996    NA    NA    NA    NA    NA    NA    NA    NA    NA
##    997     0     0     0     0     0     0     0     0     0
##    998     0     0     0     0     0     0     0     0     0
##    999    NA    NA    NA    NA    NA    NA    NA    NA    NA
##   1000     0     0     0     0     0     0     0     0     0
```

```
## 1001   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1002    0    0    0    0    0    0    0    0    0
## 1003   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1004    0    0    0    0    0    0    0    0    0
## 1005    0    0    0    0    0    0    0    0    0
## 1006   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1007    0    0    0    0    0    0    0    0    0
## 1008    0    0    0    0    0    0    0    0    0
## 1009   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1010   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1011    0    0    0    0    0    0    0    0    0
## 1012    0    0    0    0    0    0    0    0    0
## 1013   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1014   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1015    0    0    0    0    0    0    0    0    0
## 1016    0    0    0    0    0    0    0    0    0
## 1017    0    0    0    0    0    0    0    0    0
## 1018   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1019    0    0    0    0    0    0    0    0    0
## 1020    0    0    0    0    0    0    0    0    0
## 1021    0    0    0    0    0    0    0    0    0
## 1022   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1023    0    0    0    0    0    0    0    0    0
## 1024    0    0    0    0    0    0    0    0    0
## 1025    0    0    0    0    0    0    0    0    0
## 1026    0    0    0    0    0    0    0    0    0
## 1027    0    0    0    0    0    0    0    0    0
## 1028   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1029    0    0    0    0    0    0    0    0    0
## 1030    0    0    0    0    0    0    0    0    0
## 1031   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1032    0    0    0    0    0    0    0    0    0
## 1033    0    0    0    0    0    0    0    0    0
## 1034    0    0    0    0    0    0    0    0    0
## 1035   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1036   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1037    0    0    0    0    0    0    0    0    0
## 1038    0    0    0    0    0    0    0    0    0
## 1039    0    0    0    0    0    0    0    0    0
## 1040   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1041   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1042    0    0    0    0    0    0    0    0    0
## 1043    0    0    0    0    0    0    0    0    0
## 1044    0    0    0    0    0    0    0    0    0
## 1045   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1046    0    0    0    0    0    0    0    0    0
## 1047   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1048   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1049    0    0    0    0    0    0    0    0    0
## 1050    0    0    0    0    0    0    0    0    0
## 1051   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1052   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1053   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1054    0    0    0    0    0    0    0    0    0
```

```
## 1055      0     0     0     0     0     0     0     0     0
## 1056      0     0     0     0     0     0     0     0     0
## 1057      0     0     0     0     0     0     0     0     0
## 1058     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1059      0     0     0     0     0     0     0     0     0
## 1060     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1061     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1062      0     0     0     0     0     0     0     0     0
## 1063      0     0     0     0     0     0     0     0     0
## 1064     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1065      0     0     0     0     0     0     0     0     0
## 1066      0     0     0     0     0     0     0     0     0
## 1067     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1068      0     0     0     0     0     0     0     0     0
## 1069     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1070     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1071      0     0     0     0     0     0     0     0     0
## 1072     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1073      0     0     0     0     0     0     0     0     0
## 1074      0     0     0     0     0     0     0     0     0
## 1075      0     0     0     0     0     0     0     0     0
## 1076     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1077     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1078      0     0     0     0     0     0     0     0     0
## 1079     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1080      0     0     0     0     0     0     0     0     0
## 1081     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1082      0     0     0     0     0     0     0     0     0
## 1083     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1084      0     0     0     0     0     0     0     0     0
## 1085     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1086     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1087      0     0     0     0     0     0     0     0     0
## 1088      0     0     0     0     0     0     0     0     0
## 1089      0     0     0     0     0     0     0     0     0
## 1090      0     0     0     0     0     0     0     0     0
## 1091     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1092     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1093      0     0     0     0     0     0     0     0     0
## 1094      0     0     0     0     0     0     0     0     0
## 1095      0     0     0     0     0     0     0     0     0
## 1096      0     0     0     0     0     0     0     0     0
## 1097     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1098      0     0     0     0     0     0     0     0     0
## 1099      0     0     0     0     0     0     0     0     0
## 1100      0     0     0     0     0     0     0     0     0
## 1101      0     0     0     0     0     0     0     0     0
## 1102      0     0     0     0     0     0     0     0     0
## 1103     NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1104      0     0     0     0     0     0     0     0     0
## 1105      0     0     0     0     0     0     0     0     0
## 1106      0     0     0     0     0     0     0     0     0
## 1107      0     0     0     0     0     0     0     0     0
## 1108      0     0     0     0     0     0     0     0     0
```

```
## 1109     0     0     0     0     0     0     0     0     0
## 1110     0     0     0     0     0     0     0     0     0
## 1111    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1112     0     0     0     0     0     0     0     0     0
## 1113     0     0     0     0     0     0     0     0     0
## 1114    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1115    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1116     0     0     0     0     0     0     0     0     0
## 1117     0     0     0     0     0     0     0     0     0
## 1118     0     0     0     0     0     0     0     0     0
## 1119     0     0     0     0     0     0     0     0     0
## 1120    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1121    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1122     0     0     0     0     0     0     0     0     0
## 1123    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1124     0     0     0     0     0     0     0     0     0
## 1125     0     0     0     0     0     0     0     0     0
## 1126     0     0     0     0     0     0     0     0     0
## 1127    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1128     0     0     0     0     0     0     0     0     0
## 1129    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1130     0     0     0     0     0     0     0     0     0
## 1131    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1132     0     0     0     0     0     0     0     0     0
## 1133     0     0     0     0     0     0     0     0     0
## 1134     0     0     0     0     0     0     0     0     0
## 1135    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1136     0     0     0     0     0     0     0     0     0
## 1137     0     0     0     0     0     0     0     0     0
## 1138     0     0     0     0     0     0     0     0     0
## 1139    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1140     0     0     0     0     0     0     0     0     0
## 1141     0     0     0     0     0     0     0     0     0
## 1142     0     0     0     0     0     0     0     0     0
## 1143     0     0     0     0     0     0     0     0     0
## 1144     0     0     0     0     0     0     0     0     0
## 1145     0     0     0     0     0     0     0     0     0
## 1146     0     0     0     0     0     0     0     0     0
## 1147     0     0     0     0     0     0     0     0     0
## 1148    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1149     0     0     0     0     0     0     0     0     0
## 1150    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1151     0     0     0     0     0     0     0     0     0
## 1152     0     0     0     0     0     0     0     0     0
## 1153     0     0     0     0     0     0     0     0     0
## 1154     0     0     0     0     0     0     0     0     0
## 1155     0     0     0     0     0     0     0     0     0
## 1156     0     0     0     0     0     0     0     0     0
## 1157    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1158     0     0     0     0     0     0     0     0     0
## 1159     0     0     0     0     0     0     0     0     0
## 1160    NA    NA    NA    NA    NA    NA    NA    NA    NA
## 1161     0     0     0     0     0     0     0     0     0
## 1162    NA    NA    NA    NA    NA    NA    NA    NA    NA
```

```
## 1163       0       0       0       0       0       0       0       0       0
## 1164       0       0       0       0       0       0       0       0       0
## 1165       0       0       0       0       0       0       0       0       0
## 1166      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1167      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1168       0       0       0       0       0       0       0       0       0
## 1169       0       0       0       0       0       0       0       0       0
## 1170      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1171      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1172       0       0       0       0       0       0       0       0       0
## 1173      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1174       0       0       0       0       0       0       0       0       0
## 1175       0       0       0       0       0       0       0       0       0
## 1176       0       0       0       0       0       0       0       0       0
## 1177       0       0       0       0       0       0       0       0       0
## 1178      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1179       0       0       0       0       0       0       0       0       0
## 1180      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1181       0       0       0       0       0       0       0       0       0
## 1182      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1183      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1184       0       0       0       0       0       0       0       0       0
## 1185      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1186       0       0       0       0       0       0       0       0       0
## 1187       0       0       0       0       0       0       0       0       0
## 1188      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1189       0       0       0       0       0       0       0       0       0
## 1190       0       0       0       0       0       0       0       0       0
## 1191      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1192       0       0       0       0       0       0       0       0       0
## 1193       0       0       0       0       0       0       0       0       0
## 1194      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1195      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1196       0       0       0       0       0       0       0       0       0
## 1197      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1198       0       0       0       0       0       0       0       0       0
## 1199       0       0       0       0       0       0       0       0       0
## 1200       0       0       0       0       0       0       0       0       0
## 1201      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1202       0       0       0       0       0       0       0       0       0
## 1203       0       0       0       0       0       0       0       0       0
## 1204      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1205       0       0       0       0       0       0       0       0       0
## 1206       0       0       0       0       0       0       0       0       0
## 1207      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1208       0       0       0       0       0       0       0       0       0
## 1209       0       0       0       0       0       0       0       0       0
## 1210       0       0       0       0       0       0       0       0       0
## 1211       0       0       0       0       0       0       0       0       0
## 1212       0       0       0       0       0       0       0       0       0
## 1213      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1214       0       0       0       0       0       0       0       0       0
## 1215      NA      NA      NA      NA      NA      NA      NA      NA      NA
## 1216       0       0       0       0       0       0       0       0       0
```

```
## 1217    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1218     0    0    0    0    0    0    0    0    0
## 1219     0    0    0    0    0    0    0    0    0
## 1220    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1221     0    0    0    0    0    0    0    0    0
## 1222    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1223     0    0    0    0    0    0    0    0    0
## 1224     0    0    0    0    0    0    0    0    0
## 1225    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1226     0    0    0    0    0    0    0    0    0
## 1227    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1228     0    0    0    0    0    0    0    0    0
## 1229     0    0    0    0    0    0    0    0    0
## 1230     0    0    0    0    0    0    0    0    0
## 1231    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1232     0    0    0    0    0    0    0    0    0
## 1233    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1234    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1235     0    0    0    0    0    0    0    0    0
## 1236     0    0    0    0    0    0    0    0    0
## 1237     0    0    0    0    0    0    0    0    0
## 1238     0    0    0    0    0    0    0    0    0
## 1239     0    0    0    0    0    0    0    0    0
## 1240    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1241     0    0    0    0    0    0    0    0    0
## 1242    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1243     0    0    0    0    0    0    0    0    0
## 1244    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1245     0    0    0    0    0    0    0    0    0
## 1246     0    0    0    0    0    0    0    0    0
## 1247     0    0    0    0    0    0    0    0    0
## 1248    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1249     0    0    0    0    0    0    0    0    0
## 1250     0    0    0    0    0    0    0    0    0
## 1251     0    0    0    0    0    0    0    0    0
## 1252    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1253    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1254     0    0    0    0    0    0    0    0    0
## 1255    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1256     0    0    0    0    0    0    0    0    0
## 1257    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1258     0    0    0    0    0    0    0    0    0
## 1259     0    0    0    0    0    0    0    0    0
## 1260     0    0    0    0    0    0    0    0    0
## 1261    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1262     0    0    0    0    0    0    0    0    0
## 1263     0    0    0    0    0    0    0    0    0
## 1264    NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1265     0    0    0    0    0    0    0    0    0
## 1266     0    0    0    0    0    0    0    0    0
## 1267     0    0    0    0    0    0    0    0    0
## 1268     0    0    0    0    0    0    0    0    0
## 1269     0    0    0    0    0    0    0    0    0
## 1270     0    0    0    0    0    0    0    0    0
```

```
## 1271      0    0    0    0    0    0    0    0    0
## 1272      0    0    0    0    0    0    0    0    0
## 1273     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1274      0    0    0    0    0    0    0    0    0
## 1275     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1276      0    0    0    0    0    0    0    0    0
## 1277      0    0    0    0    0    0    0    0    0
## 1278     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1279     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1280      0    0    0    0    0    0    0    0    0
## 1281      0    0    0    0    0    0    0    0    0
## 1282     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1283     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1284      0    0    0    0    0    0    0    0    0
## 1285      0    0    0    0    0    0    0    0    0
## 1286      0    0    0    0    0    0    0    0    0
## 1287     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1288     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1289      0    0    0    0    0    0    0    0    0
## 1290     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1291     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1292      0    0    0    0    0    0    0    0    0
## 1293     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1294      0    0    0    0    0    0    0    0    0
## 1295      0    0    0    0    0    0    0    0    0
## 1296      0    0    0    0    0    0    0    0    0
## 1297      0    0    0    0    0    0    0    0    0
## 1298     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1299      0    0    0    0    0    0    0    0    0
## 1300     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1301      0    0    0    0    0    0    0    0    0
## 1302      0    0    0    0    0    0    0    0    0
## 1303      0    0    0    0    0    0    0    0    0
## 1304     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1305      0    0    0    0    0    0    0    0    0
## 1306      0    0    0    0    0    0    0    0    0
## 1307     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1308      0    0    0    0    0    0    0    0    0
## 1309      0    0    0    0    0    0    0    0    0
## 1310      0    0    0    0    0    0    0    0    0
## 1311      0    0    0    0    0    0    0    0    0
## 1312      0    0    0    0    0    0    0    0    0
## 1313      0    0    0    0    0    0    0    0    0
## 1314     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1315      0    0    0    0    0    0    0    0    0
## 1316      0    0    0    0    0    0    0    0    0
## 1317     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1318      0    0    0    0    0    0    0    0    0
## 1319     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1320      0    0    0    0    0    0    0    0    0
## 1321      0    0    0    0    0    0    0    0    0
## 1322     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1323     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1324     NA   NA   NA   NA   NA   NA   NA   NA   NA
```

```
## 1325      0    0    0    0    0    0    0    0    0
## 1326     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1327      0    0    0    0    0    0    0    0    0
## 1328      0    0    0    0    0    0    0    0    0
## 1329     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1330      0    0    0    0    0    0    0    0    0
## 1331      0    0    0    0    0    0    0    0    0
## 1332      0    0    0    0    0    0    0    0    0
## 1333      0    0    0    0    0    0    0    0    0
## 1334      0    0    0    0    0    0    0    0    0
## 1335      0    0    0    0    0    0    0    0    0
## 1336      0    0    0    0    0    0    0    0    0
## 1337      0    0    0    0    0    0    0    0    0
## 1338      0    0    0    0    0    0    0    0    0
## 1339     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1340      0    0    0    0    0    0    0    0    0
## 1341      0    0    0    0    0    0    0    0    0
## 1342      0    0    0    0    0    0    0    0    0
## 1343      0    0    0    0    0    0    0    0    0
## 1344      0    0    0    0    0    0    0    0    0
## 1345      0    0    0    0    0    0    0    0    0
## 1346     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1347     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1348      0    0    0    0    0    0    0    0    0
## 1349      0    0    0    0    0    0    0    0    0
## 1350     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1351     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1352      0    0    0    0    0    0    0    0    0
## 1353     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1354      0    0    0    0    0    0    0    0    0
## 1355     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1356     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1357     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1358      0    0    0    0    0    0    0    0    0
## 1359     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1360     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1361      0    0    0    0    0    0    0    0    0
## 1362      0    0    0    0    0    0    0    0    0
## 1363      0    0    0    0    0    0    0    0    0
## 1364      0    0    0    0    0    0    0    0    0
## 1365     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1366     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1367     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1368      0    0    0    0    0    0    0    0    0
## 1369     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1370      0    0    0    0    0    0    0    0    0
## 1371      0    0    0    0    0    0    0    0    0
## 1372      0    0    0    0    0    0    0    0    0
## 1373      0    0    0    0    0    0    0    0    0
## 1374      0    0    0    0    0    0    0    0    0
## 1375      0    0    0    0    0    0    0    0    0
## 1376      0    0    0    0    0    0    0    0    0
## 1377     NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1378      0    0    0    0    0    0    0    0    0
```

```
## 1379   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1380    0    0    0    0    0    0    0    0    0
## 1381    0    0    0    0    0    0    0    0    0
## 1382   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1383   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1384   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1385    0    0    0    0    0    0    0    0    0
## 1386   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1387    0    0    0    0    0    0    0    0    0
## 1388    0    0    0    0    0    0    0    0    0
## 1389   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1390    0    0    0    0    0    0    0    0    0
## 1391    0    0    0    0    0    0    0    0    0
## 1392   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1393    0    0    0    0    0    0    0    0    0
## 1394   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1395   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1396    0    0    0    0    0    0    0    0    0
## 1397   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1398    0    0    0    0    0    0    0    0    0
## 1399    0    0    0    0    0    0    0    0    0
## 1400   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1401    0    0    0    0    0    0    0    0    0
## 1402    0    0    0    0    0    0    0    0    0
## 1403   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1404    0    0    0    0    0    0    0    0    0
## 1405   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1406    0    0    0    0    0    0    0    0    0
## 1407   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1408    0    0    0    0    0    0    0    0    0
## 1409    0    0    0    0    0    0    0    0    0
## 1410   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1411    0    0    0    0    0    0    0    0    0
## 1412    0    0    0    0    0    0    0    0    0
## 1413    0    0    0    0    0    0    0    0    0
## 1414    0    0    0    0    0    0    0    0    0
## 1415    0    0    0    0    0    0    0    0    0
## 1416    0    0    0    0    0    0    0    0    0
## 1417    0    0    0    0    0    0    0    0    0
## 1418    0    0    0    0    0    0    0    0    0
## 1419   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1420    0    0    0    0    0    0    0    0    0
## 1421    0    0    0    0    0    0    0    0    0
## 1422   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1423    0    0    0    0    0    0    0    0    0
## 1424   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1425    0    0    0    0    0    0    0    0    0
## 1426    0    0    0    0    0    0    0    0    0
## 1427   NA   NA   NA   NA   NA   NA   NA   NA   NA
## 1428   NA   NA   NA   NA   NA   NA   NA   NA   NA
## [ reached getOption("max.print") -- omitted 283904 rows ]
```

#Remove missing values

```
library(dplyr)
```

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

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

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

```
Data %>% distinct("V1", .keep_all= TRUE)
```

```
##                V1              V2            V3                      V4
## 1 accident_index vehicle_reference vehicle_type towing_and_articulation
##                 V5                           V6              V7
## 1 vehicle_manoeuvre vehicle_location-restricted_lane junction_location
##                       V8                 V9
## 1 skidding_and_overturning hit_object_in_carriageway
##                         V10                      V11              V12
## 1 vehicle_leaving_carriageway hit_object_off_carriageway 1st_point_of_impact
##                           V13                    V14              V15
## 1 was_vehicle_left_hand_drive? journey_purpose_of_driver sex_of_driver
##            V16              V17              V18              V19
## 1 age_of_driver age_band_of_driver engine_capacity_(cc) propulsion_code
##            V20              V21                 V22              V23
## 1 age_of_vehicle driver_imd_decile driver_home_area_type vehicle_imd_decile
##                                   V24
## 1 NUmber_of_Casualities_unique_to_accident_index
##                                       V25                 V26
## 1 No_of_Vehicles_involved_unique_to_accident_index location_easting_osgr
##                       V27     V28      V29          V30                V31
## 1 location_northing_osgr longitude latitude police_force accident_severity
##                V32                 V33  V34         V35  V36
## 1 number_of_vehicles number_of_casualties date day_of_week time
##                       V37                        V38              V39
## 1 local_authority_(district) local_authority_(highway) 1st_road_class
##            V40      V41       V42          V43              V44
## 1 1st_road_number road_type speed_limit junction_detail junction_control
##            V45            V46                           V47
## 1 2nd_road_class 2nd_road_number pedestrian_crossing-human_control
##                                   V48              V49              V50
## 1 pedestrian_crossing-physical_facilities light_conditions weather_conditions
##                   V51                    V52                V53
## 1 road_surface_conditions special_conditions_at_site carriageway_hazards
##                V54                                      V55
## 1 urban_or_rural_area did_police_officer_attend_scene_of_accident
##                       V56                 V57              V58              V59
## 1 lsoa_of_accident_location casualty_reference casualty_class sex_of_casualty
##                V60                 V61                V62                V63
```

```
## 1 age_of_casualty age_band_of_casualty casualty_severity pedestrian_location
##                   V64            V65                    V66
## 1 pedestrian_movement car_passenger bus_or_coach_passenger
##                                    V67          V68                          V69
## 1 pedestrian_road_maintenance_worker casualty_type casualty_home_area_type
##                  V70 "V1"
## 1 casualty_imd_decile    V1
```

#Rename some of column names

```r
colnames(Data)[colnames(Data) %in% c("V2", "V3", "V4") ] <- c("V.ref", "V.type", "t&a")
```

#Add new variables by using a mathematical function

```r
mydata %>% mutate(Newage = driver.age*2)
```

```
##     vehicle.m driver.age vehicle.age Newage
## 1          18         45          11     90
## 2           9         25           1     50
## 3           4         51          -1    102
## 4          15         50           1    100
## 5           9         27          -1     54
## 6           4         46          -1     92
## 7          14         27           8     54
## 8           4         33          10     66
## 9          18         24           1     48
## 10          4         25           8     50
## 11         14         43           6     86
## 12          5         29          -1     58
## 13         18         43           5     86
## 14          2         41           1     82
## 15          2         23           1     46
```

#Create a training set

```r
RandomNum <- runif(50, 1, 99)
```

#Print the summary Statistics

```r
summary(Data)
```

```
##       V1                V.ref             V.type              t&a
##  Length:285332      Length:285332      Length:285332      Length:285332
##  Class :character   Class :character   Class :character   Class :character
##  Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V5                V6                V7                V8
##  Length:285332      Length:285332      Length:285332      Length:285332
##  Class :character   Class :character   Class :character   Class :character
##  Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V9                V10               V11               V12
##  Length:285332      Length:285332      Length:285332      Length:285332
```

```
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V13                V14                V15                V16
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V17                V18                V19                V20
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V21                V22                V23                V24
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V25                V26                V27                V28
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V29                V30                V31                V32
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V33                V34                V35                V36
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V37                V38                V39                V40
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V41                V42                V43                V44
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V45                V46                V47                V48
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V49                V50                V51                V52
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V53                V54                V55                V56
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V57                V58                V59                V60
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V61                V62                V63                V64
##   Length:285332      Length:285332      Length:285332      Length:285332
##   Class :character   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character   Mode  :character
```

```
##       V65               V66               V67               V68
##  Length:285332     Length:285332     Length:285332     Length:285332
##  Class :character   Class :character   Class :character   Class :character
##  Mode  :character   Mode  :character   Mode  :character   Mode  :character
##       V69               V70
##  Length:285332     Length:285332
##  Class :character   Class :character
##  Mode  :character   Mode  :character
```

#Perform statistical functions

```
mean(mydata$driver.age)
```

```
## [1] 35.46667
```

```
median(mydata$driver.age)
```

```
## [1] 33
```

```
mode(mydata$driver.age)
```

```
## [1] "numeric"
```

```
range(mydata$driver.age)
```

```
## [1] 23 51
```

#Plot a scatter plot

```
plot(mydata$driver.age, mydata$vehicle.age, main = "Driver age Vs Vehicle age", xlab = "Age of driver",
```

Driver age Vs Vehicle age
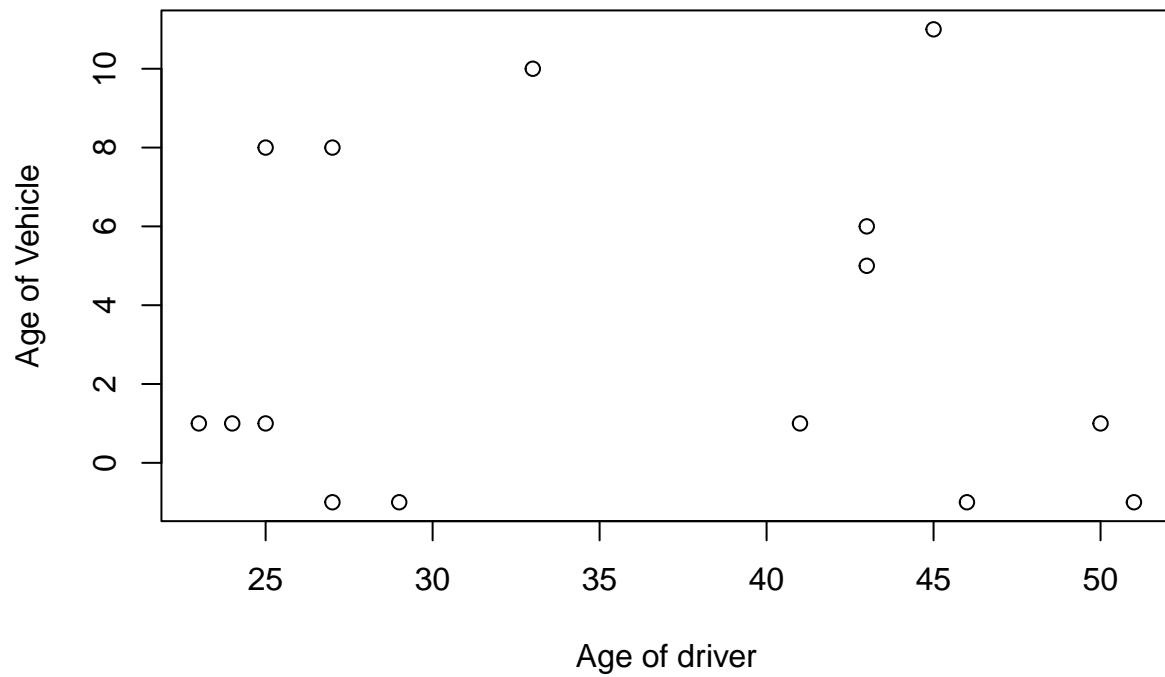
#plot bar plot

```
library(ggplot2)
ggplot(data = Data, aes( x="v16", fill= factor("v35")))+ geom_bar()
```
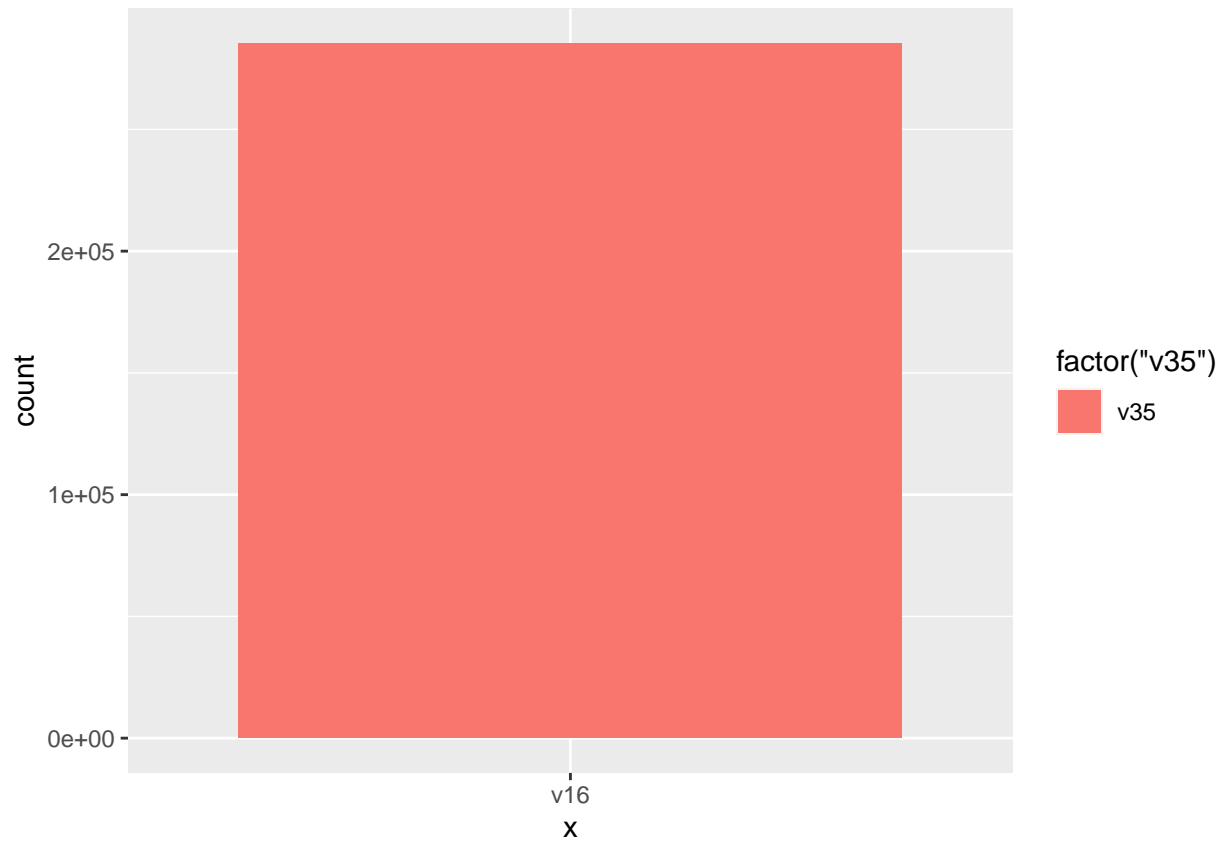
#correlation between two variables by applying least square linear regression model

```
cor(mydata$driver.age, mydata$vehicle.age)
```

```
## [1] -0.02228184
```