Spatial Analysis in R

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The Plan

incremental: true

- Intro to GIS in R
- Importing/Exporting spatial data
- Projections, extents, and units
- Spatial data manipulation
- Intro to spatial analysis

Intro to GIS (in R)

type: section

What do you mean, GIS?

"a framework for gathering, managing, and analyzing spatial data"

GIS in R

	R	ArcGIS	QGIS	PostGIS Spatial PostgreSQL
Pros	* Free and open source * Quick in map algebra * Easy to manipulate, analyse, and visualise maps in one place	* Tolerant to different extents and projections in the presented layers * Easy to digitise maps from pictures * GUI based so no programming knowledge is needed	* Free and open source * Has a GUI so no programming knowledge is needed * Can be connected to R or PostGIS	* Free and open source * Extremely robust with large datasets * Based on SQL so easy to query and analyse spatial
Cons	* Requires good understanding in GIS parameters like extent and projection * Less comfortable for generating local scale maps * Everything needs to be programmed - no unique GUI for GIS	* Costs a lot of money * Uses limited RAM (up to 4GB) regardless of computer capacity * Extremely slow working with global datasets * Analysis tool don't perform well	* Not very intuitive * Doesn't perform well on large datasets * Requires a good understanding in GIS theory * Limited in data analysis and manipulation	* Requires a deep understanding of GIS theory * Requires knowledge in database theory, SQL query, and programming * Has no visualisation abilities so has to be complemented with R or QGIS

GIS applications

Data Types
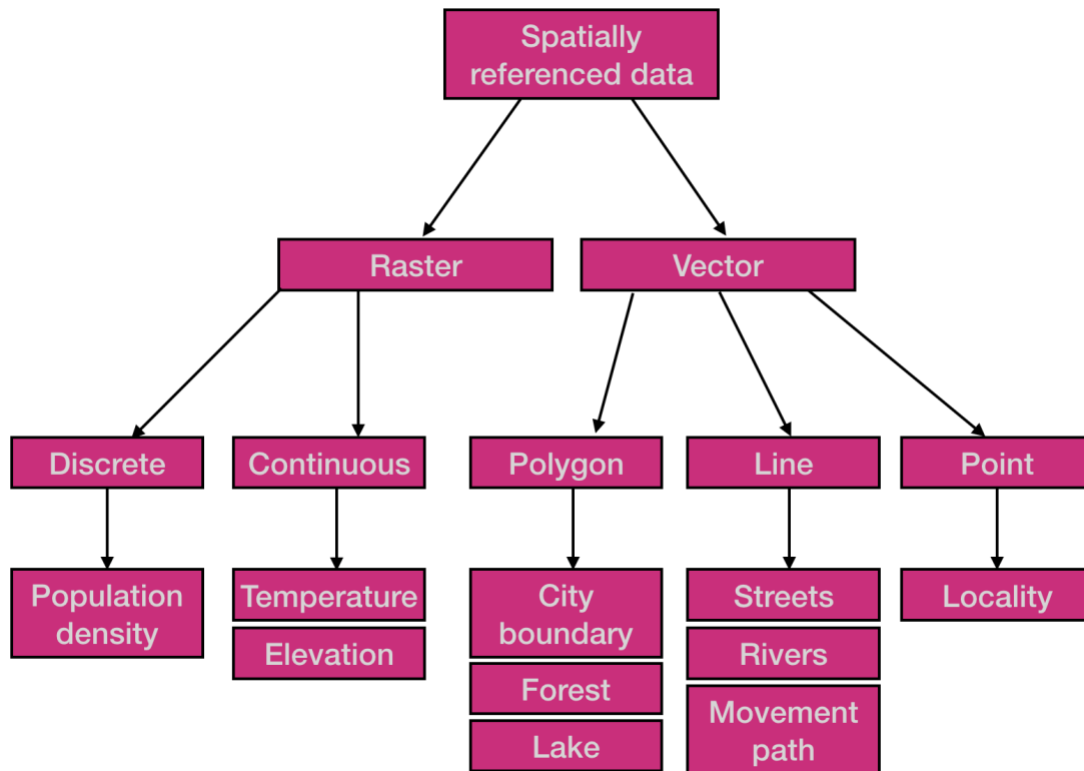
Data types

Vector Data

- Spreadsheets with a geometry columns
- Vertices and paths

Vector Data: Points

- X - Y coordinates in a spatial reference frame
    - Generally latitude and longitude
    - Careful! X = longitude, Y = latitude!
- e.g. locality

Vector points

Vector Data: Lines

- Links bewteen X - Y coordinates
- Represent one-dimensional features
- e.g. rivers, streets, movement paths
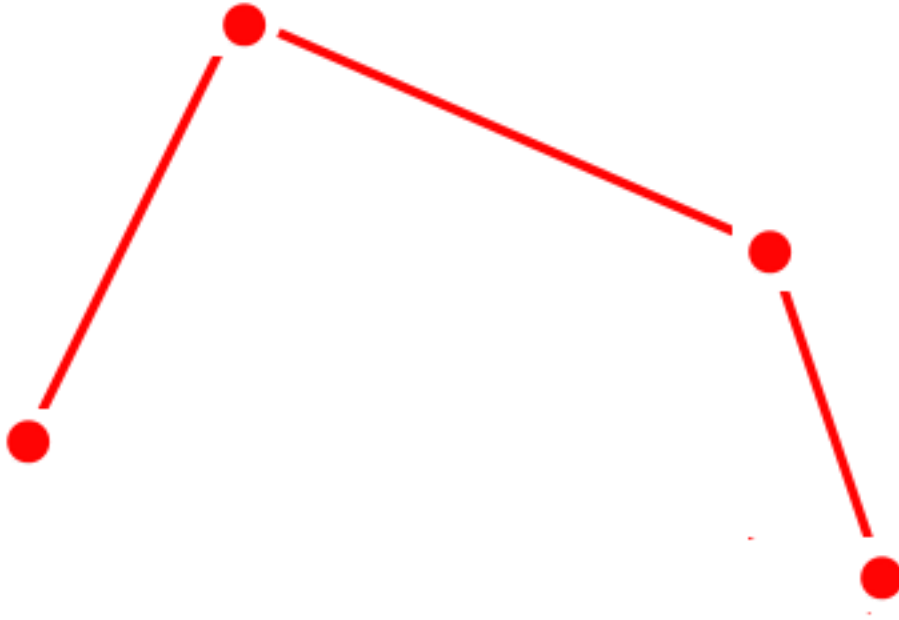
Vector points

Vector Data: Polygons
- Connect X - Y coordinates and close the path
- Represent two-dimensional features
- e.g. conservation areas, country boundaries, distribution limits
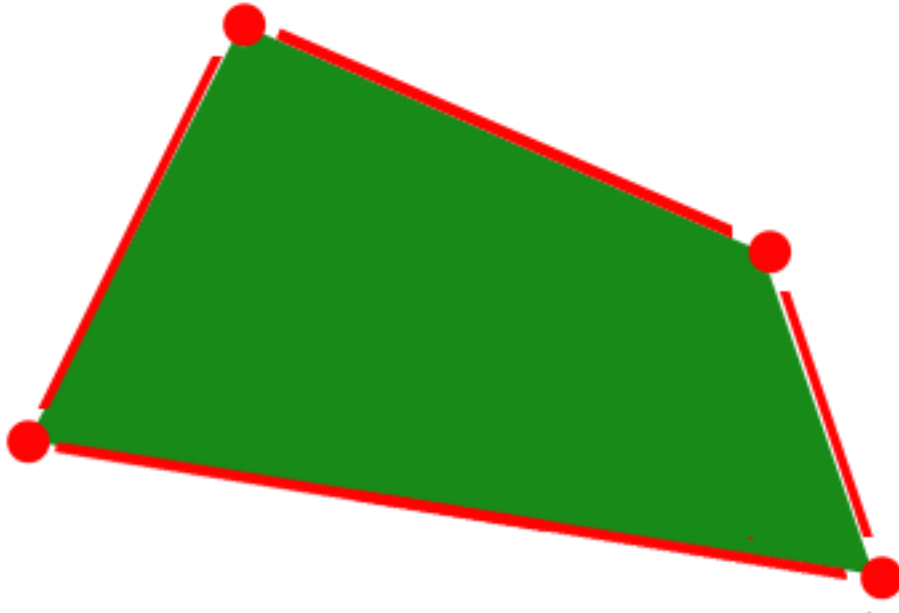
Vector points

Vector Data: File types

- Points can be text files (e.g. csv files) **OR** shapefiles
    - X - Y table with additional features
- Lines and polygons must be shapefiles

Vector Data: Shapefiles

- Shapefiles actually require 4 main files:
    - **shp** - geometry of features
    - **dbf** - a dBase file with the attribute data for each feature
        - Can be opened as a spreadsheet
        - Stores data associated with each feature
    - **prj** - projection file (more on projections in a bit)
    - **shx** - helps a GIS program find the features in the .shp file quickly

IMPORTANT: each shapefile can only store one type of geometry - point/ polygon/ line

Raster Data

- Made up of pixels
    - Each pixel has a value

- – Can be continuous or discrete
- Many different file types
  - – GeoTIFF
  - – Ascii

Comparing Vectors and Rasters

Data_type
Pros
Cons
Vector
High geographical accuracy
Doesn't work well with continuous data
Follows topology rules which increases integrity
Processing intensive due to topology checks
Used for measurements of proximity

Raster
Very good for representing remote sensing data
Less aesthetically pleasing
Performs well with map algebra
Lacks attribute data flexibility

Data size increases with increase in resolution

Importing/Exporting Spatial Data

type: section

Reading Vectors

The `rgdal` library contains a lot of really useful GIS tools. Make friends with it.

Note: Mac users will need the slash after "Data", PC users will need to leave it off.

```
library(rgdal)
pkmng_countries <- readOGR(dsn = "Data/",
                           layer = "pkmng_polygons")

OGR data source with driver: ESRI Shapefile
Source: "/Users/Hannah/Dropbox/RWorkingGroup/SpatialAnalysis1/Data", layer:
"pkmng_polygons"
```

```
with 246 features
It has 12 fields
```

Reading Vectors

```
head(pkmng_countries[,5:8])

An object of class "SpatialPolygonsDataFrame"
Slot "data":
                   NAME    AREA   POP2005 REGION
0 Antigua and Barbuda      44     83039     19
1             Algeria 238174  32854159      2
2          Azerbaijan   8260   8352021    142
3             Albania   2740   3153731    150
4             Armenia   2820   3017661    142
5              Angola 124670  16095214      2

Slot "polygons":
[[1]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1] -61.78945  17.09768

Slot "area":
[1] 0.009571241

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] -61.68667 17.02444
[2,] -61.88722 17.10527
[3,] -61.79445 17.16333
[4,] -61.68667 17.02444


[[2]]
An object of class "Polygon"
Slot "labpt":
[1] -61.81843  17.63185

Slot "area":
```

```
[1] 0.007740412

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] -61.72917 17.60861
[2,] -61.85306 17.58305
[3,] -61.87306 17.70389
[4,] -61.72917 17.60861



Slot "plotOrder":
[1] 1 2

Slot "labpt":
[1] -61.78945  17.09768

Slot "ID":
[1] "0"

Slot "area":
[1] 0.01731165


[[2]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1]  2.627813 28.172110

Slot "area":
[1] 213.9407

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
```

```
            [,1]       [,2]
 [1,]    2.963610 36.80222
 [2,]    4.785832 36.89472
 [3,]    5.328055 36.64027
 [4,]    6.398333 37.08639
 [5,]    8.622030 36.94137
 [6,]    8.183611 36.52416
 [7,]    8.251665 34.64444
 [8,]    7.492499 33.88750
 [9,]    8.348610 32.53333
[10,]    9.055277 32.10000
[11,]    9.537113 30.23439
[12,]    9.303888 30.12250
[13,]    9.766388 29.42778
[14,]    9.948332 27.82444
[15,]    9.871666 26.51416
[16,]    9.398333 26.15333
[17,]   10.252222 24.60583
[18,]   11.558887 24.30250
[19,]   11.986475 23.52231
[20,]    7.450807 20.85286
[21,]    5.812499 19.44611
[22,]    4.245277 19.14666
[23,]    3.331944 18.97639
[24,]    3.233055 19.82027
[25,]    1.795833 20.30833
[26,]    1.167500 20.74111
[27,]    1.169662 21.10254
[28,]   -4.806111 25.00028
[29,]   -6.662778 26.12917
[30,]   -8.666790 27.29046
[31,]   -8.666668 27.66666
[32,]   -8.667223 28.70944
[33,]   -7.123889 29.63694
[34,]   -5.538334 29.90250
[35,]   -4.920556 30.50805
[36,]   -3.626667 30.97055
[37,]   -3.818334 31.69555
[38,]   -2.853889 32.08833
[39,]   -1.180556 32.11055
[40,]   -1.010278 32.50833
[41,]   -1.668056 33.26111
[42,]   -1.747222 34.74721
[43,]   -2.209445 35.08583
[44,]    0.950000 36.45027
[45,]    2.963610 36.80222


Slot "plotOrder":
```

```
[1] 1

Slot "labpt":
[1]  2.627813 28.172110

Slot "ID":
[1] "1"

Slot "area":
[1] 213.9407


[[3]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1] 47.67525 40.34927

Slot "area":
[1] 8.494524

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]     [,2]
 [1,] 46.57138 41.87193
 [2,] 47.76693 41.19609
 [3,] 48.58396 41.83577
 [4,] 49.52805 40.66277
 [5,] 50.37499 40.26222
 [6,] 49.48805 40.15054
 [7,] 48.88828 38.44241
 [8,] 48.02082 38.83554
 [9,] 48.35979 39.38522
[10,] 47.97666 39.71923
[11,] 46.54038 38.87559
[12,] 46.54138 39.56444
[13,] 45.59582 39.97804
[14,] 46.00194 40.22555
[15,] 45.15387 41.19860
[16,] 45.02294 41.29705
[17,] 45.33666 41.46250
[18,] 46.52082 41.04999
```

```
[19,] 46.69387 41.31220
[20,] 46.19443 41.68582
[21,] 46.45175 41.89706
[22,] 46.57138 41.87193


[[2]]
An object of class "Polygon"
Slot "labpt":
[1] 45.49023 39.39222

Slot "area":
[1] 0.5056316

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 45.08332 39.76805
[2,] 45.81999 39.54972
[3,] 46.17825 38.84115
[4,] 45.00443 39.41638
[5,] 44.81304 39.63082
[6,] 44.77886 39.70638
[7,] 45.08332 39.76805


[[3]]
An object of class "Polygon"
Slot "labpt":
[1] 45.53453 40.63508

Slot "area":
[1] 0.001693513

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 45.51305 40.60722
[2,] 45.51749 40.66554
```

```
[3,] 45.57305 40.63249
[4,] 45.51305 40.60722


[[4]]
An object of class "Polygon"
Slot "labpt":
[1] 45.01879 41.05240

Slot "area":
[1] 0.0009946189

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 45.04527 41.03527
[2,] 45.00999 41.03305
[3,] 45.00111 41.08888
[4,] 45.04527 41.03527


[[5]]
An object of class "Polygon"
Slot "labpt":
[1] 45.22342 40.98129

Slot "area":
[1] 0.0003603638

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 45.24527 40.97694
[2,] 45.22916 40.96915
[3,] 45.19582 40.99777
[4,] 45.24527 40.97694
```

```
Slot "plotOrder":
[1] 1 2 3 4 5

Slot "labpt":
[1] 47.67525 40.34927

Slot "ID":
[1] "2"

Slot "area":
[1] 9.003204


[[4]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1] 20.07437 41.13255

Slot "area":
[1] 2.890429

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
           [,1]     [,2]
 [1,] 19.43621 41.02107
 [2,] 19.60056 41.79666
 [3,] 19.36777 41.84900
 [4,] 19.64583 42.61805
 [5,] 20.07142 42.56091
 [6,] 20.58964 41.88219
 [7,] 20.49278 41.33111
 [8,] 20.82111 40.90888
 [9,] 20.98349 40.85589
[10,] 20.67194 40.09805
[11,] 20.01003 39.69120
[12,] 19.86305 40.03972
[13,] 19.28861 40.41750
[14,] 19.47861 40.35027
[15,] 19.43621 41.02107
```

```
Slot "plotOrder":
[1] 1

Slot "labpt":
[1] 20.07437 41.13255

Slot "ID":
[1] "3"

Slot "area":
[1] 2.890429


[[5]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1] 44.98386 40.30433

Slot "area":
[1] 3.208623

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
 [1,] 45.15387 41.19860
 [2,] 46.00194 40.22555
 [3,] 45.59582 39.97804
 [4,] 46.54138 39.56444
 [5,] 46.54038 38.87559
 [6,] 46.17825 38.84115
 [7,] 45.81999 39.54972
 [8,] 45.08332 39.76805
 [9,] 44.77886 39.70638
[10,] 44.34722 40.02389
[11,] 43.65750 40.10860
[12,] 43.75194 40.74000
[13,] 43.46077 41.11296
[14,] 45.02294 41.29705
[15,] 45.15387 41.19860
```

```
[[2]]
An object of class "Polygon"
Slot "labpt":
[1] 45.53453 40.63508

Slot "area":
[1] 0.001693513

Slot "hole":
[1] TRUE

Slot "ringDir":
[1] -1

Slot "coords":
          [,1]     [,2]
[1,] 45.57305 40.63249
[2,] 45.51749 40.66554
[3,] 45.51305 40.60722
[4,] 45.57305 40.63249


[[3]]
An object of class "Polygon"
Slot "labpt":
[1] 45.01879 41.05240

Slot "area":
[1] 0.0009946189

Slot "hole":
[1] TRUE

Slot "ringDir":
[1] -1

Slot "coords":
          [,1]     [,2]
[1,] 45.00999 41.03305
[2,] 45.04527 41.03527
[3,] 45.00111 41.08888
[4,] 45.00999 41.03305


[[4]]
An object of class "Polygon"
Slot "labpt":
```

```
[1] 45.22342 40.98129

Slot "area":
[1] 0.0003603638

Slot "hole":
[1] TRUE

Slot "ringDir":
[1] -1

Slot "coords":
        [,1]     [,2]
[1,] 45.19582 40.99777
[2,] 45.22916 40.96915
[3,] 45.24527 40.97694
[4,] 45.19582 40.99777


Slot "plotOrder":
[1] 1 2 3 4

Slot "labpt":
[1] 44.98386 40.30433

Slot "ID":
[1] "4"

Slot "area":
[1] 3.208623


[[6]]
An object of class "Polygons"
Slot "Polygons":
[[1]]
An object of class "Polygon"
Slot "labpt":
[1]  17.55246 -12.35038

Slot "area":
[1] 103.8622

Slot "hole":
[1] FALSE

Slot "ringDir":
```

```
[1] 1

Slot "coords":
          [,1]       [,2]
 [1,] 13.99750  -5.848612
 [2,] 16.57972  -5.900833
 [3,] 16.94167  -7.198610
 [4,] 17.62417  -8.098057
 [5,] 19.37306  -7.996111
 [6,] 19.53895  -6.996614
 [7,] 20.62975  -6.913881
 [8,] 20.54872  -7.283615
 [9,] 21.78296  -7.280842
[10,] 21.79056  -9.405556
[11,] 22.31222 -10.364445
[12,] 22.25389 -11.209723
[13,] 23.98621 -10.870461
[14,] 24.02056 -13.006390
[15,] 21.99833 -13.004168
[16,] 22.00015 -16.171661
[17,] 23.47611 -17.625835
[18,] 23.28472 -17.662502
[19,] 20.85417 -18.016392
[20,] 18.91583 -17.815556
[21,] 18.45154 -17.389835
[22,] 13.99322 -17.423946
[23,] 13.16055 -16.952778
[24,] 11.75278 -17.254833
[25,] 11.82083 -16.503056
[26,] 11.81083 -15.993057
[27,] 11.73139 -15.846668
[28,] 12.50972 -13.425280
[29,] 13.79250 -11.791668
[30,] 13.77361 -10.684723
[31,] 12.98445  -9.087502
[32,] 13.39139  -8.387222
[33,] 12.24500  -6.098055
[34,] 13.17888  -5.856329
[35,] 13.99750  -5.848612


[[2]]
An object of class "Polygon"
Slot "labpt":
[1] 12.469108 -5.056746

Slot "area":
[1] 0.615941
```

```
Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 13.08889 -4.662500
[2,] 12.56555 -5.025555
[3,] 12.52667 -5.724167
[4,] 12.21455 -5.768555
[5,] 12.02613 -5.014996
[6,] 12.77905 -4.388990
[7,] 13.09139 -4.633055
[8,] 13.08889 -4.662500


[[3]]
An object of class "Polygon"
Slot "labpt":
[1]  11.73981 -16.69852

Slot "area":
[1] 0.001240163

Slot "hole":
[1] FALSE

Slot "ringDir":
[1] 1

Slot "coords":
          [,1]      [,2]
[1,] 11.75083 -16.75528
[2,] 11.69361 -16.53556
[3,] 11.77500 -16.80473
[4,] 11.75083 -16.75528



Slot "plotOrder":
[1] 1 2 3

Slot "labpt":
[1]  17.55246 -12.35038

Slot "ID":
[1] "5"
```

```
Slot "area":
[1] 104.4794



Slot "plotOrder":
[1] 2 6 3 5 4 1

Slot "bbox":
        min       max
x -61.88722 50.37499
y -18.01639 42.61805

Slot "proj4string":
CRS arguments:
 +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
```

Reading Vectors: Tidyverse

There is a `tidyverse` alternative - View spatial objects - Edit the associated data

```
library(spdplyr)
pkmng_countries

class      : SpatialPolygonsDataFrame
features   : 246
extent     : -180, 180, -90, 83.57027  (xmin, xmax, ymin, ymax)
variables  : 12
# A tibble: 246 x 12
    FIPS  ISO2  ISO3    UN NAME     AREA POP2005 REGION SUBREGI    LON    LAT
   <fct> <fct> <fct> <int> <fct>   <int>   <dbl>  <int>   <int>  <dbl>  <dbl>
 1 AC    AG    ATG      28 Anti…      44 8.30e4      19      29  -61.8   17.1
 2 AG    DZ    DZA      12 Alge… 238174 3.29e7       2      15    2.63   28.2
 3 AJ    AZ    AZE      31 Azer…   8260 8.35e6     142     145   47.4    40.4
 4 AL    AL    ALB       8 Alba…   2740 3.15e6     150      39   20.1    41.1
 5 AM    AM    ARM      51 Arme…   2820 3.02e6     142     145   44.6    40.5
 6 AO    AO    AGO      24 Ango… 124670 1.61e7       2      17   17.5   -12.3
 7 AQ    AS    ASM      16 Amer…     20 6.41e4       9      61 -171.    -14.3
 8 AR    AR    ARG      32 Arge… 273669 3.87e7      19       5  -65.2   -35.4
 9 AS    AU    AUS      36 Aust… 768230 2.03e7       9      53  136.    -25.0
10 BA    BH    BHR      48 Bahr…     71 7.25e5     142     145   50.6    26.0
# … with 236 more rows, and 1 more variable: pkmn_rc <int>
```

Reading Vectors: Tidyverse

Use `tidyverse` functions to manipulate spatial data:

```
#filter out all countries without any Pokemon sightings, and let's rename the
column while we're at it:
pkmng_countries %>%
  filter(pkmn_rc > 0) %>%
  rename(Country = NAME)

class        : SpatialPolygonsDataFrame
features     : 72
extent       : -179.999, 179.999, -55.9175, 83.10942  (xmin, xmax, ymin, ymax)
variables    : 12
# A tibble: 72 x 12
    FIPS  ISO2  ISO3     UN Country    AREA POP2005 REGION SUBREGI    LON
LAT
   <fct> <fct> <fct> <int> <fct>     <int>   <dbl>  <int>   <int>  <dbl>
<dbl>
 1 AO    AO    AGO      24 Angola   124670  1.61e7      2      17   17.5 -12.3
 2 AR    AR    ARG      32 Argent… 273669  3.87e7     19       5  -65.2 -35.4
 3 AS    AU    AUS      36 Austra… 768230  2.03e7      9      53  136.  -25.0
 4 BK    BA    BIH      70 Bosnia…   5120  3.92e6    150      39   17.8  44.2
 5 BM    MM    MMR     104 Burma    65755  4.80e7    142      35   96.0  21.7
 6 BR    BR    BRA      76 Brazil  845942  1.87e8     19       5  -53.1 -10.8
 7 BX    BN    BRN      96 Brunei…    527  3.74e5    142      35  115.
4.47
 8 CA    CA    CAN     124 Canada  909351  3.23e7     19      21 -109.   59.1
 9 CB    KH    KHM     116 Cambod…  17652  1.40e7    142      35  105.   12.7
10 CI    CL    CHL     152 Chile    74880  1.63e7     19       5  -69.4 -23.4
# … with 62 more rows, and 1 more variable: pkmn_rc <int>
```

Reading Vectors: Point data

```
pkmng_points_dat <- read.csv("Data/pkmng_points.csv")
pkmng_points_dat

   pokemonId   latitude    longitude      appearedLocalTime    cellId_90m
1         16  53.685735    -0.443450 2016-09-04T09:31:44Z 5.222182e+18
2         60  46.004027     8.957153 2016-09-06T07:57:06Z 5.153294e+18
3         19  46.235403    15.254241 2016-09-04T08:33:55Z 5.144642e+18
4         16  50.675427    14.541165 2016-09-04T09:23:24Z 5.118738e+18
5         23  44.494201    11.344701 2016-09-04T16:02:16Z 5.152070e+18
6        120  50.187740    14.657816 2016-09-03T15:51:17Z 5.119451e+18
7         46  33.555176   -84.349070 2016-09-07T01:05:11Z 9.868787e+18
8         10  46.004713     8.954149 2016-09-06T06:22:14Z 5.153294e+18
9         27  33.903287  -118.083142 2016-09-06T05:13:44Z 9.278210e+18
10        23  34.274030  -119.212599 2016-09-06T14:49:44Z 9.289152e+18
11        41  50.741580    -1.965787 2016-09-06T16:12:41Z 5.220700e+18
12        16  46.033446     8.954188 2016-09-03T14:26:01Z 5.153299e+18
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435	21	49.147243	-122.640386	2016-09-04T01:37:34Z	6.090504e+18
436	63	4.606973	114.314225	2016-09-03T16:13:14Z	3.609820e+18
437	133	39.446015	-77.446039	2016-09-03T20:31:37Z	9.928708e+18
438	10	52.208796	0.124694	2016-09-03T09:41:49Z	5.177012e+18
439	19	53.878259	-2.387749	2016-09-05T07:24:13Z	5.222939e+18
440	133	14.965146	100.690811	2016-09-04T13:15:11Z	3.539270e+18
441	16	20.528771	-97.463619	2016-09-06T03:33:30Z	9.645139e+18
442	16	53.635972	-113.505748	2016-09-06T23:41:51Z	6.025857e+18
443	79	42.280744	-87.829762	2016-09-07T02:34:04Z	9.804314e+18
444	29	53.610251	-113.371276	2016-09-03T08:23:32Z	6.025883e+18
445	98	30.039444	-90.241874	2016-09-06T03:16:38Z	9.664926e+18
446	74	25.725195	-100.378170	2016-09-08T02:37:33Z	9.683468e+18
447	41	49.771431	18.433966	2016-09-06T04:19:35Z	5.121711e+18
448	96	46.053669	14.522595	2016-09-05T09:16:10Z	5.144574e+18
449	48	20.536660	-97.452292	2016-09-03T03:52:08Z	9.645139e+18
450	16	51.268400	16.702723	2016-09-07T20:34:47Z	5.120481e+18
451	48	37.219545	-93.283553	2016-09-07T01:00:36Z	9.786149e+18
452	19	38.806768	-77.047856	2016-09-06T06:13:27Z	9.923595e+18
453	19	31.269573	-92.458676	2016-09-05T04:36:33Z	9.666214e+18
454	96	53.543606	-113.496005	2016-09-05T08:09:59Z	6.025854e+18
455	79	47.184234	-122.016949	2016-09-07T04:51:35Z	6.093632e+18
456	13	19.251873	-99.605213	2016-09-06T04:57:12Z	9.641516e+18
457	79	39.285457	-76.608732	2016-09-02T23:05:27Z	9.928189e+18
458	35	41.674029	2.790391	2016-09-04T18:02:22Z	1.349697e+18
459	19	46.004634	8.949432	2016-09-05T10:33:40Z	5.153294e+18
460	16	47.916391	1.959902	2016-09-05T06:34:28Z	5.180543e+18
461	16	49.255008	14.721908	2016-09-06T17:01:18Z	5.119671e+18
462	1	33.506092	-84.359175	2016-09-05T23:20:42Z	9.868788e+18
463	7	30.043243	-90.237696	2016-09-04T12:11:21Z	9.664926e+18
464	19	52.187415	0.171209	2016-09-07T18:49:06Z	5.177023e+18
465	10	14.625236	121.098937	2016-09-07T02:37:50Z	3.717643e+18
466	133	36.648763	-87.457494	2016-09-06T17:00:01Z	9.828307e+18

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469        16   55.932228    13.545692 2016-09-03T07:32:47Z 5.067656e+18
470       129   41.375850     2.181833 2016-09-05T23:28:37Z 1.343377e+18
471       120   30.042253   -90.235936 2016-09-05T02:06:35Z 9.664926e+18
472        17   40.428564   -80.099801 2016-09-05T01:34:34Z 9.814567e+18
473        19   41.112932   -73.328913 2016-09-04T17:57:06Z 9.937223e+18
474        16   29.553517   -95.667529 2016-09-06T01:33:20Z 9.673982e+18
475        46   38.986282   -84.693548 2016-09-03T13:28:44Z 9.818344e+18
476        32   41.759899   -72.458222 2016-09-06T01:17:49Z 9.936728e+18
477        19   52.157406  -106.705144 2016-09-02T22:32:43Z 5.982179e+18
478        29   34.646621  -118.146052 2016-09-04T18:16:03Z 9.278077e+18
479        48   29.167187   -80.977567 2016-09-03T05:11:30Z 9.864809e+18
480        46   36.809144  -119.761650 2016-09-07T23:29:47Z 9.265133e+18
481       140   33.313270  -112.054297 2016-09-03T04:50:37Z 9.739909e+18
482        13   33.760078   -84.387756 2016-09-04T21:59:42Z 9.868799e+18
483        48   53.614217  -113.383720 2016-09-04T15:06:41Z 6.025883e+18
      cellId_180m   cellId_370m   cellId_730m cellId_1460m cellId_2920m
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2    5.153294e+18 5.153294e+18 5.153294e+18 5.153294e+18 5.153294e+18
3    5.144642e+18 5.144642e+18 5.144642e+18 5.144642e+18 5.144642e+18
4    5.118738e+18 5.118738e+18 5.118738e+18 5.118738e+18 5.118738e+18
5    5.152070e+18 5.152070e+18 5.152070e+18 5.152070e+18 5.152070e+18
6    5.119451e+18 5.119451e+18 5.119451e+18 5.119451e+18 5.119451e+18
7    9.868787e+18 9.868787e+18 9.868787e+18 9.868787e+18 9.868787e+18
8    5.153294e+18 5.153294e+18 5.153294e+18 5.153294e+18 5.153294e+18
9    9.278210e+18 9.278210e+18 9.278210e+18 9.278210e+18 9.278210e+18
10   9.289152e+18 9.289152e+18 9.289152e+18 9.289152e+18 9.289152e+18
11   5.220700e+18 5.220700e+18 5.220700e+18 5.220700e+18 5.220700e+18
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32   9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18
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34	9.811992e+18	9.811992e+18	9.811992e+18	9.811992e+18	9.811992e+18
35	5.146778e+18	5.146778e+18	5.146778e+18	5.146778e+18	5.146778e+18
36	9.683469e+18	9.683469e+18	9.683469e+18	9.683469e+18	9.683469e+18
37	4.151161e+18	4.151161e+18	4.151161e+18	4.151161e+18	4.151161e+18
38	9.758307e+18	9.758307e+18	9.758307e+18	9.758307e+18	9.758307e+18
39	9.645092e+18	9.645092e+18	9.645092e+18	9.645092e+18	9.645092e+18
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61	3.522551e+18	3.522551e+18	3.522551e+18	3.522551e+18	3.522551e+18
62	4.133888e+18	4.133888e+18	4.133888e+18	4.133888e+18	4.133888e+18
63	5.144574e+18	5.144574e+18	5.144574e+18	5.144574e+18	5.144574e+18
64	5.034603e+18	5.034603e+18	5.034603e+18	5.034603e+18	5.034603e+18
65	5.222800e+18	5.222800e+18	5.222800e+18	5.222800e+18	5.222800e+18
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72	9.868790e+18	9.868790e+18	9.868790e+18	9.868790e+18	9.868790e+18
73	1.382514e+18	1.382514e+18	1.382514e+18	1.382514e+18	1.382514e+18
74	5.151558e+18	5.151558e+18	5.151558e+18	5.151558e+18	5.151559e+18
75	9.868808e+18	9.868808e+18	9.868808e+18	9.868808e+18	9.868809e+18
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77	5.148625e+18	5.148625e+18	5.148625e+18	5.148625e+18	5.148625e+18
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80	5.119672e+18	5.119672e+18	5.119672e+18	5.119672e+18	5.119672e+18
81	9.818018e+18	9.818018e+18	9.818018e+18	9.818018e+18	9.818018e+18
82	5.067656e+18	5.067656e+18	5.067656e+18	5.067656e+18	5.067656e+18

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340 5.152855e+18 5.152855e+18 5.152855e+18 5.152855e+18 5.152855e+18
341 5.222182e+18 5.222182e+18 5.222182e+18 5.222182e+18 5.222182e+18
342 5.118793e+18 5.118793e+18 5.118793e+18 5.118793e+18 5.118793e+18
343 1.008879e+19 1.008879e+19 1.008879e+19 1.008879e+19 1.008879e+19
344 9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18
345 9.923206e+18 9.923206e+18 9.923206e+18 9.923206e+18 9.923206e+18
346 9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18 9.645139e+18
347 5.121698e+18 5.121698e+18 5.121698e+18 5.121698e+18 5.121698e+18
348 9.923189e+18 9.923189e+18 9.923189e+18 9.923189e+18 9.923189e+18
349 5.151558e+18 5.151558e+18 5.151558e+18 5.151559e+18 5.151559e+18
350 9.814567e+18 9.814567e+18 9.814567e+18 9.814567e+18 9.814567e+18
351 5.034603e+18 5.034603e+18 5.034603e+18 5.034603e+18 5.034603e+18
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353 3.748104e+18 3.748104e+18 3.748104e+18 3.748104e+18 3.748104e+18
354 7.872770e+18 7.872770e+18 7.872770e+18 7.872770e+18 7.872770e+18
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359 5.067608e+18 5.067608e+18 5.067608e+18 5.067608e+18 5.067608e+18
360 5.527499e+18 5.527499e+18 5.527499e+18 5.527499e+18 5.527499e+18
361 9.861504e+18 9.861504e+18 9.861504e+18 9.861504e+18 9.861504e+18
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375 9.920410e+18 9.920410e+18 9.920410e+18 9.920410e+18 9.920411e+18
376 5.177012e+18 5.177012e+18 5.177012e+18 5.177012e+18 5.177012e+18
377 5.207061e+18 5.207061e+18 5.207061e+18 5.207061e+18 5.207061e+18
378 9.821522e+18 9.821522e+18 9.821522e+18 9.821522e+18 9.821522e+18
379 1.358198e+18 1.358198e+18 1.358198e+18 1.358198e+18 1.358198e+18
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381 9.817991e+18 9.817991e+18 9.817991e+18 9.817991e+18 9.817991e+18
382 9.928728e+18 9.928728e+18 9.928728e+18 9.928728e+18 9.928728e+18
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386 5.163239e+18 5.163239e+18 5.163239e+18 5.163239e+18 5.163239e+18
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391 7.793446e+18 7.793446e+18 7.793446e+18 7.793446e+18 7.793446e+18
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402 5.222808e+18 5.222808e+18 5.222808e+18 5.222808e+18 5.222808e+18
403 5.151558e+18 5.151558e+18 5.151558e+18 5.151559e+18 5.151559e+18
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427 5.180957e+18 5.180957e+18 5.180957e+18 5.180957e+18 5.180957e+18
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429 9.935963e+18 9.935963e+18 9.935963e+18 9.935963e+18 9.935963e+18
430 9.935910e+18 9.935910e+18 9.935910e+18 9.935910e+18 9.935910e+18
431 5.222800e+18 5.222800e+18 5.222800e+18 5.222800e+18 5.222800e+18
432 5.062428e+18 5.062428e+18 5.062428e+18 5.062428e+18 5.062428e+18
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434 5.152480e+18  5.152480e+18  5.152480e+18  5.152480e+18  5.152480e+18
435 6.090504e+18  6.090504e+18  6.090504e+18  6.090504e+18  6.090504e+18
436 3.609820e+18  3.609820e+18  3.609820e+18  3.609820e+18  3.609820e+18
437 9.928708e+18  9.928708e+18  9.928708e+18  9.928708e+18  9.928708e+18
438 5.177012e+18  5.177012e+18  5.177012e+18  5.177012e+18  5.177012e+18
439 5.222939e+18  5.222939e+18  5.222939e+18  5.222939e+18  5.222939e+18
440 3.539270e+18  3.539270e+18  3.539270e+18  3.539270e+18  3.539270e+18
441 9.645139e+18  9.645139e+18  9.645139e+18  9.645139e+18  9.645139e+18
442 6.025857e+18  6.025857e+18  6.025857e+18  6.025857e+18  6.025857e+18
443 9.804314e+18  9.804314e+18  9.804314e+18  9.804314e+18  9.804314e+18
444 6.025883e+18  6.025883e+18  6.025883e+18  6.025883e+18  6.025883e+18
445 9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18
446 9.683468e+18  9.683468e+18  9.683468e+18  9.683468e+18  9.683468e+18
447 5.121711e+18  5.121711e+18  5.121711e+18  5.121711e+18  5.121711e+18
448 5.144574e+18  5.144574e+18  5.144574e+18  5.144574e+18  5.144574e+18
449 9.645139e+18  9.645139e+18  9.645139e+18  9.645139e+18  9.645139e+18
450 5.120481e+18  5.120481e+18  5.120481e+18  5.120481e+18  5.120481e+18
451 9.786149e+18  9.786149e+18  9.786149e+18  9.786149e+18  9.786149e+18
452 9.923595e+18  9.923595e+18  9.923595e+18  9.923595e+18  9.923595e+18
453 9.666214e+18  9.666214e+18  9.666214e+18  9.666214e+18  9.666214e+18
454 6.025854e+18  6.025854e+18  6.025854e+18  6.025854e+18  6.025854e+18
455 6.093632e+18  6.093632e+18  6.093632e+18  6.093632e+18  6.093632e+18
456 9.641516e+18  9.641516e+18  9.641516e+18  9.641516e+18  9.641516e+18
457 9.928189e+18  9.928189e+18  9.928189e+18  9.928189e+18  9.928189e+18
458 1.349697e+18  1.349697e+18  1.349697e+18  1.349697e+18  1.349697e+18
459 5.153294e+18  5.153294e+18  5.153294e+18  5.153294e+18  5.153294e+18
460 5.180543e+18  5.180543e+18  5.180543e+18  5.180543e+18  5.180543e+18
461 5.119671e+18  5.119671e+18  5.119671e+18  5.119671e+18  5.119671e+18
462 9.868788e+18  9.868788e+18  9.868788e+18  9.868788e+18  9.868788e+18
463 9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18
464 5.177023e+18  5.177023e+18  5.177023e+18  5.177023e+18  5.177023e+18
465 3.717643e+18  3.717643e+18  3.717643e+18  3.717643e+18  3.717643e+18
466 9.828307e+18  9.828307e+18  9.828307e+18  9.828307e+18  9.828307e+18
467 5.074761e+18  5.074761e+18  5.074761e+18  5.074761e+18  5.074761e+18
468 5.067643e+18  5.067643e+18  5.067643e+18  5.067643e+18  5.067643e+18
469 5.067656e+18  5.067656e+18  5.067656e+18  5.067656e+18  5.067656e+18
470 1.343377e+18  1.343377e+18  1.343377e+18  1.343377e+18  1.343377e+18
471 9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18  9.664926e+18
472 9.814567e+18  9.814567e+18  9.814567e+18  9.814567e+18  9.814567e+18
473 9.937223e+18  9.937223e+18  9.937223e+18  9.937223e+18  9.937223e+18
474 9.673982e+18  9.673982e+18  9.673982e+18  9.673982e+18  9.673982e+18
475 9.818344e+18  9.818344e+18  9.818344e+18  9.818344e+18  9.818344e+18
476 9.936728e+18  9.936728e+18  9.936728e+18  9.936728e+18  9.936728e+18
477 5.982179e+18  5.982179e+18  5.982179e+18  5.982178e+18  5.982179e+18
478 9.278077e+18  9.278077e+18  9.278077e+18  9.278077e+18  9.278077e+18
479 9.864809e+18  9.864809e+18  9.864809e+18  9.864809e+18  9.864809e+18
480 9.265133e+18  9.265133e+18  9.265133e+18  9.265133e+18  9.265133e+18
481 9.739909e+18  9.739909e+18  9.739909e+18  9.739908e+18  9.739909e+18
482 9.868799e+18  9.868799e+18  9.868799e+18  9.868799e+18  9.868799e+18
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483 6.025883e+18 6.025883e+18 6.025883e+18 6.025883e+18 6.025883e+18
    cellId_5850m appearedTimeOfDay appearedHour appearedMinute
1   5.222182e+18           morning           11             31
2   5.153294e+18           morning            9             57
3   5.144642e+18           morning           10             33
4   5.118738e+18           morning           11             23
5   5.152070e+18           evening           18              2
6   5.119451e+18           evening           17             51
7   9.868787e+18             night            3              5
8   5.153294e+18           morning            8             22
9   9.278210e+18           morning            7             13
10  9.289152e+18           evening           16             49
11  5.220700e+18           evening           18             12
12  5.153299e+18           evening           16             26
13  9.815863e+18             night            4             55
14  5.154011e+18           morning           11             23
15  9.777943e+18             night            0             28
16  6.094904e+18           morning            9             22
17  5.120010e+18         afternoon           13              8
18  5.180957e+18         afternoon           14             39
19  1.349697e+18             night           23             56
20  3.522552e+18           evening           16             13
21  5.153294e+18         afternoon           15             24
22  6.025854e+18           morning            8             24
23  3.748104e+18         afternoon           15             25
24  5.222182e+18             night           21             58
25  5.119398e+18           evening           19             19
26  9.868798e+18             night           23             39
27  5.119672e+18           evening           17             17
28  9.931792e+18             night            2             51
29  5.120231e+18           evening           18             39
30  9.278215e+18             night            3             27
31  1.358199e+18             night            0             21
32  9.645139e+18           evening           16             43
33  5.153294e+18         afternoon           15             48
34  9.811993e+18             night            0             55
35  5.146778e+18             night           21             13
36  9.683469e+18             night           23             43
37  4.151161e+18             night            5             12
38  9.758307e+18             night            6             16
39  9.645092e+18           morning            8             51
40  9.665088e+18             night            6             44
41  5.207061e+18             night            2             57
42  9.923201e+18           evening           18             59
43  9.919483e+18             night           22             28
44  9.664926e+18             night            5              5
45  5.119347e+18           evening           19             28
46  6.025883e+18           morning            8             21
47  5.118768e+18             night           21             56
48  9.278147e+18             night            2             51
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49	9.664908e+18	night	5	53
50	9.923190e+18	night	1	47
51	4.661791e+18	night	23	17
52	5.191035e+18	morning	11	22
53	9.673982e+18	night	5	2
54	5.152706e+18	afternoon	13	31
55	5.223010e+18	night	0	22
56	9.923206e+18	night	0	48
57	5.116955e+18	night	20	23
58	9.284553e+18	night	3	48
59	9.817950e+18	night	5	27
60	5.146778e+18	evening	16	1
61	3.522551e+18	night	6	12
62	4.133887e+18	evening	17	9
63	5.144574e+18	evening	17	0
64	5.034602e+18	afternoon	14	50
65	5.222800e+18	night	20	38
66	9.823521e+18	night	0	35
67	7.697009e+18	night	2	22
68	9.919483e+18	night	2	14
69	5.961495e+18	night	21	26
70	6.025857e+18	night	2	36
71	9.715968e+18	morning	9	45
72	9.868789e+18	night	4	11
73	1.382514e+18	night	0	3
74	5.151559e+18	night	22	39
75	9.868809e+18	night	0	47
76	5.120179e+18	night	1	46
77	5.148626e+18	afternoon	14	46
78	5.119351e+18	afternoon	14	8
79	3.612556e+18	night	0	15
80	5.119672e+18	afternoon	15	59
81	9.818018e+18	night	1	18
82	5.067656e+18	evening	17	44
83	9.813608e+18	night	6	8
84	6.093217e+18	night	23	51
85	5.144560e+18	night	21	39
86	9.919483e+18	afternoon	13	16
87	9.926763e+18	night	2	7
88	9.818344e+18	afternoon	15	37
89	1.349697e+18	afternoon	12	58
90	6.090505e+18	morning	8	14
91	4.662756e+18	night	4	57
92	5.151559e+18	night	0	37
93	9.645092e+18	night	22	37
94	6.094960e+18	night	6	11
95	5.222616e+18	afternoon	13	18
96	5.067608e+18	afternoon	14	32
97	9.279897e+18	night	1	37
98	5.119349e+18	morning	9	7

99	7.697009e+18	afternoon	14	35
100	6.025857e+18	night	2	19
101	9.931792e+18	night	1	30
102	4.494429e+18	night	4	58
103	6.025857e+18	morning	9	45
104	1.008882e+19	evening	16	39
105	9.813681e+18	night	23	47
106	7.697009e+18	night	5	6
107	6.093217e+18	evening	18	17
108	5.527499e+18	night	3	51
109	9.673947e+18	evening	19	5
110	3.748103e+18	evening	16	4
111	9.673982e+18	night	4	22
112	5.152855e+18	afternoon	14	14
113	5.066530e+18	morning	8	59
114	5.119372e+18	afternoon	12	47
115	5.119348e+18	afternoon	14	50
116	9.926763e+18	night	21	45
117	5.106256e+17	night	2	54
118	9.740047e+18	night	5	8
119	6.094795e+18	night	6	31
120	5.222094e+18	night	1	26
121	6.025855e+18	night	6	35
122	7.870231e+18	morning	11	3
123	5.119132e+18	night	3	22
124	9.749619e+18	night	20	47
125	5.171832e+18	afternoon	12	1
126	9.749619e+18	evening	18	58
127	9.751014e+18	night	5	55
128	5.154019e+18	afternoon	12	33
129	5.119387e+18	afternoon	14	53
130	1.381694e+18	afternoon	13	7
131	4.386859e+16	morning	7	42
132	5.207060e+18	night	23	51
133	9.751014e+18	evening	19	0
134	5.222800e+18	night	21	29
135	9.923201e+18	night	5	22
136	9.645045e+18	night	21	21
137	9.804038e+18	night	4	20
138	9.920410e+18	night	1	19
139	9.926763e+18	afternoon	15	57
140	9.860877e+18	evening	19	12
141	5.144574e+18	night	23	48
142	3.588324e+18	morning	9	17
143	5.119672e+18	evening	19	40
144	5.116955e+18	afternoon	14	21
145	9.928707e+18	night	2	44
146	5.067643e+18	morning	11	49
147	5.220700e+18	night	23	59
148	9.675058e+18	morning	8	1

149	9.607173e+17	evening	17	44
150	9.921738e+18	evening	19	36
151	5.085140e+18	afternoon	13	3
152	9.551939e+17	night	3	52
153	9.923602e+18	night	3	1
154	5.180956e+18	evening	17	43
155	5.221491e+18	afternoon	13	15
156	9.645139e+18	night	4	48
157	5.119719e+18	afternoon	13	40
158	5.151559e+18	afternoon	14	38
159	9.645139e+18	evening	19	46
160	5.121594e+18	morning	11	25
161	5.121252e+18	morning	9	42
162	9.596194e+17	evening	18	9
163	9.683511e+18	night	6	2
164	9.923201e+18	night	3	8
165	5.154490e+18	night	1	37
166	9.553703e+17	night	2	32
167	5.150649e+18	afternoon	12	15
168	6.025857e+18	morning	11	38
169	5.144574e+18	night	20	49
170	6.094795e+18	night	4	49
171	7.697008e+18	afternoon	14	57
172	9.928707e+18	night	4	0
173	5.177011e+18	evening	17	7
174	9.868371e+18	morning	8	3
175	1.381699e+18	afternoon	14	1
176	9.664908e+18	afternoon	12	53
177	5.074767e+18	evening	18	6
178	9.553703e+17	night	20	4
179	9.739909e+18	night	3	55
180	9.641516e+18	morning	8	57
181	5.153294e+18	evening	18	6
182	6.025857e+18	morning	9	10
183	9.868789e+18	evening	17	44
184	9.823227e+18	night	1	56
185	9.841360e+18	evening	16	44
186	9.278159e+18	evening	17	50
187	9.818018e+18	night	1	36
188	5.222939e+18	afternoon	12	45
189	5.115429e+18	night	21	23
190	9.868370e+18	night	5	44
191	5.065203e+18	night	6	37
192	9.861112e+18	morning	7	13
193	5.221364e+18	afternoon	12	42
194	5.119349e+18	morning	11	17
195	5.034600e+18	night	20	59
196	5.121313e+18	night	21	39
197	5.186623e+18	morning	10	52
198	5.119345e+18	afternoon	13	24

199	5.153980e+18	evening	19	5
200	6.090505e+18	night	2	20
201	5.074760e+18	morning	8	20
202	9.935895e+18	night	3	4
203	9.645139e+18	night	3	40
204	5.221364e+18	morning	8	42
205	9.804314e+18	evening	17	22
206	5.222182e+18	night	22	35
207	6.094616e+18	night	3	14
208	9.664908e+18	night	4	53
209	5.155607e+18	evening	16	38
210	5.154011e+18	night	22	43
211	9.751014e+18	evening	19	2
212	7.697009e+18	afternoon	13	22
213	9.804254e+18	night	5	13
214	5.120525e+18	night	22	52
215	5.177023e+18	afternoon	13	29
216	9.285296e+18	morning	10	46
217	5.067168e+18	evening	17	28
218	5.180543e+18	night	22	48
219	5.207060e+18	night	21	19
220	9.861112e+18	night	5	21
221	5.222939e+18	morning	10	19
222	6.025857e+18	morning	7	20
223	9.645097e+18	night	1	51
224	5.152855e+18	evening	16	56
225	9.920409e+18	night	23	19
226	5.119973e+18	morning	11	13
227	9.920410e+18	night	0	38
228	6.025854e+18	morning	8	34
229	5.119672e+18	night	21	27
230	5.066530e+18	evening	18	6
231	5.222616e+18	afternoon	13	26
232	5.176996e+18	night	23	11
233	5.527499e+18	evening	19	7
234	5.222800e+18	night	20	17
235	9.823508e+18	night	3	17
236	9.684324e+18	night	4	32
237	5.121582e+18	morning	7	59
238	9.923381e+18	night	2	2
239	9.928707e+18	night	5	56
240	5.066926e+18	night	22	6
241	5.119671e+18	morning	11	39
242	9.923205e+18	night	3	7
243	6.001157e+18	night	1	54
244	9.804314e+18	night	1	47
245	5.148544e+18	evening	17	51
246	5.119959e+18	morning	8	20
247	9.786149e+18	night	0	58
248	9.804314e+18	evening	16	21

249	1.381694e+18	afternoon	12	52
250	6.093393e+18	morning	9	10
251	5.121414e+18	night	22	39
252	5.147465e+18	morning	7	5
253	9.523055e+18	morning	7	21
254	5.221364e+18	afternoon	12	40
255	5.207061e+18	afternoon	12	58
256	5.152070e+18	morning	11	12
257	5.066537e+18	evening	16	50
258	9.758035e+18	night	3	18
259	5.119671e+18	afternoon	12	54
260	5.121698e+18	night	21	11
261	5.207061e+18	night	1	18
262	3.601656e+18	night	6	31
263	9.936717e+18	night	3	8
264	9.817936e+18	night	23	25
265	9.285565e+18	night	6	9
266	3.522524e+18	night	20	21
267	5.067656e+18	morning	9	16
268	5.123182e+18	afternoon	15	1
269	1.070250e+19	night	0	6
270	9.260950e+18	night	21	34
271	9.928728e+18	afternoon	13	18
272	5.151559e+18	morning	10	13
273	5.119821e+18	evening	19	37
274	9.683468e+18	night	1	25
275	1.078972e+19	morning	7	19
276	9.928707e+18	night	4	21
277	9.683468e+18	night	4	14
278	5.163950e+18	night	23	20
279	5.152069e+18	afternoon	15	21
280	1.078243e+19	night	2	13
281	5.074760e+18	morning	10	25
282	5.527499e+18	night	20	34
283	9.284553e+18	morning	7	43
284	9.928728e+18	night	1	49
285	9.804264e+18	night	21	2
286	6.025855e+18	morning	8	16
287	9.838669e+18	night	22	19
288	9.285529e+18	night	23	48
289	5.220506e+18	night	3	31
290	1.349740e+18	afternoon	13	6
291	9.664908e+18	evening	19	12
292	1.072105e+19	night	1	19
293	3.748103e+18	evening	17	5
294	5.151559e+18	night	1	9
295	6.094904e+18	morning	10	36
296	9.868799e+18	night	2	57
297	5.120016e+18	morning	10	25
298	9.861112e+18	night	4	27

299	5.119973e+18	night	0	39
300	5.153294e+18	afternoon	15	12
301	5.119671e+18	night	0	17
302	6.025854e+18	morning	9	14
303	9.790603e+18	night	23	11
304	5.207061e+18	night	0	23
305	5.191355e+18	night	5	38
306	9.645139e+18	night	1	29
307	5.176996e+18	night	20	11
308	9.926763e+18	night	4	45
309	1.381009e+18	morning	10	31
310	9.263917e+18	night	1	6
311	5.155887e+18	night	21	56
312	5.219880e+18	afternoon	14	3
313	9.804314e+18	night	22	43
314	5.034602e+18	afternoon	14	31
315	9.818018e+18	night	22	40
316	9.919483e+18	night	2	57
317	6.090520e+18	night	5	35
318	9.804264e+18	night	1	24
319	1.072105e+19	night	5	31
320	5.532925e+18	night	1	17
321	5.172348e+18	evening	17	59
322	1.078243e+19	night	3	29
323	5.144574e+18	morning	10	9
324	9.861504e+18	night	20	30
325	6.094616e+18	night	2	45
326	5.034602e+18	morning	11	37
327	9.923188e+18	morning	10	47
328	5.067656e+18	night	21	5
329	9.285529e+18	night	23	59
330	5.222182e+18	night	22	3
331	5.067711e+18	night	21	7
332	9.755558e+18	night	4	27
333	5.223022e+18	night	21	19
334	9.862181e+18	night	0	11
335	5.123182e+18	night	23	47
336	9.868370e+18	night	3	42
337	9.868371e+18	morning	8	11
338	9.926763e+18	night	0	5
339	3.522552e+18	afternoon	13	23
340	5.152855e+18	afternoon	15	22
341	5.222182e+18	night	23	30
342	5.118793e+18	afternoon	12	55
343	1.008879e+19	morning	8	50
344	9.645139e+18	night	23	29
345	9.923206e+18	night	4	51
346	9.645139e+18	night	5	33
347	5.121698e+18	evening	19	47
348	9.923189e+18	afternoon	13	38

349	5.151559e+18	morning	11	20
350	9.814567e+18	night	6	12
351	5.034602e+18	afternoon	13	37
352	9.926763e+18	afternoon	15	36
353	3.748103e+18	afternoon	13	56
354	7.872770e+18	morning	10	36
355	5.067643e+18	morning	8	45
356	9.823508e+18	night	3	13
357	9.935979e+18	afternoon	15	57
358	5.118793e+18	night	22	7
359	5.067608e+18	afternoon	14	8
360	5.527499e+18	morning	7	46
361	9.861504e+18	evening	16	55
362	6.025851e+18	night	0	6
363	5.177104e+18	evening	18	15
364	5.119349e+18	afternoon	13	46
365	3.540592e+18	afternoon	14	37
366	5.119348e+18	night	23	44
367	7.872770e+18	morning	10	30
368	5.177023e+18	night	0	40
369	5.222800e+18	evening	16	30
370	9.684323e+18	morning	7	14
371	9.868372e+18	night	1	35
372	3.592206e+18	night	5	54
373	9.919483e+18	night	6	55
374	6.090505e+18	morning	8	22
375	9.920410e+18	night	0	57
376	5.177012e+18	night	2	16
377	5.207061e+18	afternoon	14	9
378	9.821522e+18	afternoon	12	44
379	1.358198e+18	evening	16	6
380	9.928707e+18	morning	8	54
381	9.817991e+18	night	1	53
382	9.928728e+18	night	23	32
383	5.118793e+18	night	22	23
384	6.090505e+18	night	4	23
385	5.121313e+18	night	21	22
386	5.163239e+18	night	5	57
387	9.931792e+18	night	2	50
388	9.758194e+18	night	5	15
389	9.758043e+18	night	4	37
390	9.285529e+18	night	23	58
391	7.793446e+18	night	1	26
392	9.278216e+18	night	0	43
393	6.924421e+18	afternoon	13	23
394	9.804038e+18	night	3	45
395	9.813573e+18	night	5	2
396	9.804314e+18	night	3	12
397	5.527499e+18	night	4	16
398	9.868921e+18	night	4	20

399	5.152070e+18	evening	17	36
400	5.222088e+18	afternoon	15	34
401	3.837166e+18	night	21	4
402	5.222808e+18	morning	10	59
403	5.151559e+18	morning	8	34
404	5.122949e+18	morning	10	27
405	9.926956e+18	night	4	53
406	5.066423e+18	morning	10	7
407	5.118957e+18	afternoon	13	44
408	9.758035e+18	night	2	28
409	9.664908e+18	night	5	46
410	5.152481e+18	night	22	36
411	3.545929e+18	night	4	15
412	9.788045e+18	night	22	39
413	9.733199e+18	night	3	52
414	5.067656e+18	evening	18	18
415	5.527499e+18	morning	7	14
416	9.288761e+18	night	5	55
417	5.074760e+18	afternoon	12	20
418	5.527499e+18	night	5	8
419	9.279884e+18	afternoon	12	18
420	9.923594e+18	night	1	56
421	9.923180e+18	night	22	38
422	9.284553e+18	night	21	57
423	9.641516e+18	night	4	2
424	5.119719e+18	afternoon	12	54
425	5.152114e+18	afternoon	13	9
426	9.751014e+18	night	4	23
427	5.180957e+18	night	1	57
428	5.066536e+18	afternoon	12	35
429	9.935963e+18	night	2	50
430	9.935910e+18	morning	9	59
431	5.222800e+18	evening	19	44
432	5.062428e+18	afternoon	14	29
433	5.121707e+18	afternoon	15	2
434	5.152479e+18	evening	16	48
435	6.090505e+18	night	3	37
436	3.609820e+18	evening	18	13
437	9.928708e+18	night	22	31
438	5.177012e+18	morning	11	41
439	5.222939e+18	morning	9	24
440	3.539270e+18	afternoon	15	15
441	9.645139e+18	night	5	33
442	6.025857e+18	night	1	41
443	9.804314e+18	night	4	34
444	6.025883e+18	morning	10	23
445	9.664926e+18	night	5	16
446	9.683468e+18	night	4	37
447	5.121711e+18	night	6	19
448	5.144574e+18	morning	11	16

449	9.645139e+18	night	5	52
450	5.120481e+18	night	22	34
451	9.786149e+18	night	3	0
452	9.923595e+18	morning	8	13
453	9.666214e+18	night	6	36
454	6.025854e+18	morning	10	9
455	6.093632e+18	night	6	51
456	9.641516e+18	night	6	57
457	9.928189e+18	night	1	5
458	1.349697e+18	night	20	2
459	5.153294e+18	afternoon	12	33
460	5.180543e+18	morning	8	34
461	5.119671e+18	evening	19	1
462	9.868788e+18	night	1	20
463	9.664926e+18	afternoon	14	11
464	5.177023e+18	night	20	49
465	3.717643e+18	night	4	37
466	9.828307e+18	evening	19	0
467	5.074760e+18	evening	19	42
468	5.067643e+18	morning	11	9
469	5.067656e+18	morning	9	32
470	1.343377e+18	night	1	28
471	9.664926e+18	night	4	6
472	9.814567e+18	night	3	34
473	9.937223e+18	evening	19	57
474	9.673982e+18	night	3	33
475	9.818344e+18	afternoon	15	28
476	9.936728e+18	night	3	17
477	5.982179e+18	night	0	32
478	9.278077e+18	night	20	16
479	9.864809e+18	morning	7	11
480	9.265133e+18	night	1	29
481	9.739909e+18	night	6	50
482	9.868799e+18	night	23	59
483	6.025883e+18	evening	17	6

	appearedDayOfWeek	appearedDay	appearedMonth	appearedYear	terrainType
1	Thursday	4	8	2016	12
2	Saturday	6	8	2016	5
3	Thursday	4	8	2016	5
4	Thursday	4	8	2016	14
5	Thursday	4	8	2016	13
6	Wednesday	3	8	2016	12
7	Sunday	7	8	2016	13
8	Saturday	6	8	2016	5
9	Saturday	6	8	2016	13
10	Saturday	6	8	2016	13
11	Saturday	6	8	2016	13
12	Wednesday	3	8	2016	5
13	Friday	5	8	2016	13
14	Friday	5	8	2016	13

15	Wednesday	3	8	2016	10
16	Friday	5	8	2016	13
17	Saturday	6	8	2016	5
18	Thursday	4	8	2016	13
19	Thursday	4	8	2016	8
20	Wednesday	3	8	2016	13
21	Friday	5	8	2016	5
22	Wednesday	3	8	2016	13
23	Saturday	6	8	2016	12
24	Thursday	4	8	2016	12
25	Friday	5	8	2016	12
26	Friday	5	8	2016	13
27	Wednesday	3	8	2016	14
28	dummy_day	8	8	2016	13
29	Wednesday	3	8	2016	14
30	Friday	5	8	2016	13
31	dummy_day	8	8	2016	8
32	Thursday	4	8	2016	14
33	Friday	5	8	2016	5
34	Friday	5	8	2016	13
35	Wednesday	3	8	2016	13
36	Saturday	6	8	2016	13
37	Friday	5	8	2016	12
38	Thursday	4	8	2016	13
39	Sunday	7	8	2016	14
40	Sunday	7	8	2016	14
41	Friday	5	8	2016	10
42	Friday	5	8	2016	5
43	Thursday	4	8	2016	14
44	Friday	5	8	2016	0
45	Friday	5	8	2016	13
46	Friday	5	8	2016	12
47	Saturday	6	8	2016	14
48	Sunday	7	8	2016	13
49	Sunday	7	8	2016	13
50	Friday	5	8	2016	14
51	Wednesday	3	8	2016	13
52	Wednesday	3	8	2016	12
53	Wednesday	3	8	2016	14
54	Saturday	6	8	2016	5
55	Thursday	4	8	2016	10
56	Sunday	7	8	2016	13
57	Friday	5	8	2016	13
58	Saturday	6	8	2016	7
59	Friday	5	8	2016	13
60	Saturday	6	8	2016	13
61	Thursday	4	8	2016	13
62	Saturday	6	8	2016	13
63	Saturday	6	8	2016	5
64	Wednesday	3	8	2016	0

65	Saturday	6	8	2016	13
66	Wednesday	3	8	2016	8
67	Wednesday	3	8	2016	12
68	Sunday	7	8	2016	14
69	Friday	5	8	2016	5
70	Sunday	7	8	2016	13
71	Thursday	4	8	2016	7
72	dummy_day	8	8	2016	13
73	Sunday	7	8	2016	14
74	Thursday	4	8	2016	12
75	Sunday	7	8	2016	13
76	Thursday	4	8	2016	12
77	Thursday	4	8	2016	13
78	Saturday	6	8	2016	13
79	Wednesday	3	8	2016	13
80	Wednesday	3	8	2016	14
81	Thursday	4	8	2016	13
82	Wednesday	3	8	2016	5
83	Thursday	4	8	2016	0
84	Tuesday	2	8	2016	13
85	Wednesday	3	8	2016	5
86	Saturday	6	8	2016	14
87	Wednesday	3	8	2016	13
88	Wednesday	3	8	2016	14
89	Friday	5	8	2016	8
90	Wednesday	3	8	2016	12
91	Sunday	7	8	2016	12
92	Friday	5	8	2016	12
93	Friday	5	8	2016	14
94	Sunday	7	8	2016	13
95	Wednesday	3	8	2016	13
96	Saturday	6	8	2016	5
97	Sunday	7	8	2016	13
98	Saturday	6	8	2016	13
99	Saturday	6	8	2016	13
100	Sunday	7	8	2016	13
101	Thursday	4	8	2016	13
102	Sunday	7	8	2016	16
103	Saturday	6	8	2016	13
104	Thursday	4	8	2016	13
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481	Wednesday	3	8	2016	7
482	Thursday	4	8	2016	13
483	Thursday	4	8	2016	12

	closeToWater	city	continent	weather
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2	FALSE	Zurich	Europe	Clear
3	FALSE	Ljubljana	Europe	MostlyCloudy
4	FALSE	Prague	Europe	MostlyCloudy
5	FALSE	Rome	Europe	MostlyCloudy
6	FALSE	Prague	Europe	MostlyCloudy
7	FALSE	New_York	America	Clear
8	FALSE	Zurich	Europe	Clear
9	FALSE	Los_Angeles	America	Clear
10	TRUE	Los_Angeles	America	Clear
11	TRUE	London	Europe	MostlyCloudy
12	FALSE	Zurich	Europe	Clear
13	FALSE	New_York	America	Clear
14	FALSE	Rome	Europe	MostlyCloudy
15	FALSE	Chicago	America	Clear
16	FALSE	Los_Angeles	America	Clear
17	FALSE	Prague	Europe	PartlyCloudy
18	FALSE	Paris	Europe	LightRain
19	TRUE	Madrid	Europe	PartlyCloudy
20	FALSE	Bangkok	Asia	Clear
21	FALSE	Zurich	Europe	Clear
22	FALSE	Edmonton	America	Clear
23	TRUE	Hong_Kong	Asia	Clear
24	FALSE	London	Europe	Clear
25	FALSE	Prague	Europe	MostlyCloudy
26	FALSE	New_York	America	Clear
27	FALSE	Prague	Europe	MostlyCloudy
28	TRUE	Toronto	America	LightRain
29	FALSE	Prague	Europe	MostlyCloudy
30	FALSE	Los_Angeles	America	Clear

31	TRUE	Rome	Europe	Overcast
32	FALSE	Mexico_City	America	Humid
33	FALSE	Zurich	Europe	Clear
34	TRUE	Toronto	America	Clear
35	FALSE	Vienna	Europe	MostlyCloudy
36	FALSE	Monterrey	America	MostlyCloudy
37	FALSE	Kolkata	Asia	Clear
38	FALSE	Denver	America	PartlyCloudy
39	FALSE	Mexico_City	America	PartlyCloudy
40	FALSE	Chicago	America	Clear
41	FALSE	Dublin	Europe	Overcast
42	FALSE	New_York	America	Clear
43	FALSE	New_York	America	Clear
44	TRUE	Chicago	America	Clear
45	FALSE	Prague	Europe	PartlyCloudy
46	FALSE	Edmonton	America	Clear
47	FALSE	Prague	Europe	Clear
48	FALSE	Los_Angeles	America	Clear
49	TRUE	Chicago	America	PartlyCloudy
50	FALSE	New_York	America	Clear
51	FALSE	Mexico_City	America	HumidandOvercast
52	FALSE	Paris	Europe	PartlyCloudy
53	FALSE	Chicago	America	Clear
54	TRUE	Rome	Europe	Clear
55	FALSE	London	Europe	Clear
56	FALSE	New_York	America	Clear
57	FALSE	Warsaw	Europe	Clear
58	FALSE	Los_Angeles	America	Clear
59	FALSE	New_York	America	Clear
60	FALSE	Vienna	Europe	MostlyCloudy
61	FALSE	Bangkok	Asia	Clear
62	FALSE	Kolkata	Asia	Clear
63	FALSE	Ljubljana	Europe	MostlyCloudy
64	TRUE	Oslo	Europe	Clear
65	FALSE	London	Europe	Clear
66	FALSE	New_York	America	Drizzle
67	FALSE	Melbourne	Australia	Overcast
68	FALSE	New_York	America	Clear
69	TRUE	Winnipeg	America	Clear
70	FALSE	Edmonton	America	PartlyCloudy
71	FALSE	Phoenix	America	Clear
72	FALSE	New_York	America	Clear
73	FALSE	Rome	Europe	Clear
74	FALSE	Rome	Europe	Clear
75	FALSE	New_York	America	Clear
76	FALSE	Prague	Europe	PartlyCloudy
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80	FALSE	Prague	Europe	MostlyCloudy

81	FALSE	New_York	America	Clear
82	TRUE	Stockholm	Europe	PartlyCloudy
83	TRUE	New_York	America	Clear
84	TRUE	Vancouver	America	Drizzle
85	FALSE	Ljubljana	Europe	PartlyCloudy
86	FALSE	New_York	America	Clear
87	TRUE	Regina	America	Rain
88	FALSE	New_York	America	Clear
89	TRUE	Madrid	Europe	MostlyCloudy
90	FALSE	Vancouver	America	Clear
91	FALSE	Bucharest	Europe	Clear
92	FALSE	Rome	Europe	Clear
93	FALSE	Mexico_City	America	MostlyCloudy
94	FALSE	Los_Angeles	America	Clear
95	FALSE	London	Europe	Clear
96	FALSE	Stockholm	Europe	Clear
97	FALSE	Los_Angeles	America	Clear
98	FALSE	Prague	Europe	PartlyCloudy
99	FALSE	Melbourne	Australia	Overcast
100	FALSE	Edmonton	America	PartlyCloudy
101	TRUE	Toronto	America	Clear
102	TRUE	Dubai	Asia	Clear
103	FALSE	Edmonton	America	Clear
104	TRUE	Puerto_Rico	America	Clear
105	FALSE	New_York	America	Clear
106	FALSE	Melbourne	Australia	Overcast
107	TRUE	Vancouver	America	PartlyCloudy
108	FALSE	New_York	America	Clear
109	FALSE	Chicago	America	Clear
110	TRUE	Hong_Kong	Asia	MostlyCloudy
111	FALSE	Chicago	America	Clear
112	FALSE	Rome	Europe	Clear
113	FALSE	Stockholm	Europe	MostlyCloudy
114	FALSE	Prague	Europe	MostlyCloudy
115	FALSE	Prague	Europe	PartlyCloudy
116	TRUE	New_York	America	Clear
117	TRUE	Bahia	America	PartlyCloudy
118	FALSE	Phoenix	America	Clear
119	FALSE	Los_Angeles	America	Clear
120	TRUE	London	Europe	Clear
121	FALSE	Edmonton	America	PartlyCloudy
122	TRUE	Auckland	Pacific	Clear
123	FALSE	Prague	Europe	Clear
124	TRUE	Denver	America	Clear
125	FALSE	Amsterdam	Europe	MostlyCloudy
126	TRUE	Denver	America	PartlyCloudy
127	FALSE	Denver	America	Clear
128	FALSE	Rome	Europe	Clear
129	FALSE	Prague	Europe	MostlyCloudy
130	TRUE	Rome	Europe	PartlyCloudy

131	TRUE	Sao_Paulo	America	PartlyCloudy
132	FALSE	Dublin	Europe	PartlyCloudy
133	FALSE	Denver	America	Clear
134	FALSE	London	Europe	Clear
135	FALSE	New_York	America	Clear
136	FALSE	Mexico_City	America	Clear
137	FALSE	Chicago	America	Clear
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139	TRUE	New_York	America	Clear
140	TRUE	New_York	America	LightRain
141	FALSE	Ljubljana	Europe	PartlyCloudy
142	FALSE	Kuala_Lumpur	Asia	Clear
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144	FALSE	Warsaw	Europe	MostlyCloudy
145	FALSE	New_York	America	Clear
146	FALSE	Stockholm	Europe	MostlyCloudy
147	TRUE	London	Europe	Breezy
148	FALSE	Chicago	America	PartlyCloudy
149	FALSE	Paris	Europe	Clear
150	FALSE	New_York	America	PartlyCloudy
151	TRUE	Helsinki	Europe	MostlyCloudy
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153	FALSE	New_York	America	Clear
154	FALSE	Paris	Europe	Overcast
155	FALSE	London	Europe	Overcast
156	FALSE	Mexico_City	America	Clear
157	FALSE	Prague	Europe	MostlyCloudy
158	FALSE	Rome	Europe	Clear
159	FALSE	Mexico_City	America	Humid
160	FALSE	Prague	Europe	Drizzle
161	FALSE	Prague	Europe	MostlyCloudy
162	TRUE	Paris	Europe	Clear
163	FALSE	Monterrey	America	Clear
164	FALSE	New_York	America	Clear
165	FALSE	Rome	Europe	Clear
166	FALSE	Madrid	Europe	PartlyCloudy
167	FALSE	Ljubljana	Europe	MostlyCloudy
168	FALSE	Edmonton	America	MostlyCloudy
169	FALSE	Ljubljana	Europe	MostlyCloudy
170	FALSE	Los_Angeles	America	Clear
171	FALSE	Melbourne	Australia	Overcast
172	FALSE	New_York	America	Clear
173	FALSE	London	Europe	PartlyCloudy
174	FALSE	New_York	America	Clear
175	TRUE	Rome	Europe	PartlyCloudy
176	TRUE	Chicago	America	Clear
177	TRUE	Oslo	Europe	Drizzle
178	FALSE	Madrid	Europe	PartlyCloudy
179	FALSE	Phoenix	America	Clear
180	FALSE	London	Europe	Clear

181	FALSE	Zurich	Europe	Dry
182	FALSE	Edmonton	America	Clear
183	FALSE	New_York	America	Clear
184	FALSE	New_York	America	Clear
185	TRUE	Chicago	America	PartlyCloudy
186	TRUE	Los_Angeles	America	PartlyCloudy
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192	TRUE	New_York	America	PartlyCloudy
193	FALSE	London	Europe	Overcast
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235	FALSE	New_York	America	Clear
236	FALSE	Chicago	America	Clear
237	FALSE	Prague	Europe	PartlyCloudy
238	FALSE	New_York	America	Clear
239	FALSE	New_York	America	Clear
240	FALSE	Stockholm	Europe	Clear
241	FALSE	Prague	Europe	MostlyCloudy
242	FALSE	New_York	America	Clear
243	FALSE	Denver	America	LightRain
244	TRUE	Chicago	America	Clear
245	FALSE	Prague	Europe	MostlyCloudy
246	FALSE	Prague	Europe	PartlyCloudy
247	FALSE	Prague	Europe	PartlyCloudy
248	TRUE	Chicago	America	Clear
249	TRUE	Rome	Europe	PartlyCloudy
250	TRUE	Los_Angeles	America	PartlyCloudy
251	FALSE	Prague	Europe	PartlyCloudy
252	FALSE	Ljubljana	Europe	MostlyCloudy
253	FALSE	Mexico_City	America	Clear
254	FALSE	London	Europe	Overcast
255	FALSE	Dublin	Europe	MostlyCloudy
256	FALSE	Rome	Europe	PartlyCloudy
257	FALSE	Stockholm	Europe	MostlyCloudy
258	FALSE	Denver	America	Clear
259	FALSE	Prague	Europe	MostlyCloudy
260	FALSE	Prague	Europe	MostlyCloudy
261	FALSE	Dublin	Europe	PartlyCloudy
262	FALSE	Kuching	Asia	Clear
263	FALSE	New_York	America	Clear
264	FALSE	New_York	America	Clear
265	TRUE	Los_Angeles	America	Clear
266	FALSE	Bangkok	Asia	Overcast
267	TRUE	Stockholm	Europe	PartlyCloudy
268	FALSE	Warsaw	Europe	PartlyCloudy
269	FALSE	Oslo	Europe	Clear
270	TRUE	Los_Angeles	America	Clear
271	FALSE	New_York	America	Clear
272	FALSE	Rome	Europe	MostlyCloudy
273	FALSE	Prague	Europe	Drizzle
274	FALSE	Monterrey	America	MostlyCloudy
275	TRUE	Buenos_Aires	America/Argentina	Overcast
276	FALSE	New_York	America	Clear
277	FALSE	Monterrey	America	PartlyCloudy
278	TRUE	Warsaw	Europe	Clear
279	FALSE	Rome	Europe	MostlyCloudy
280	FALSE	Buenos_Aires	America/Argentina	Clear

281	FALSE	Oslo	Europe	Clear
282	FALSE	New_York	America	Clear
283	FALSE	Los_Angeles	America	Clear
284	FALSE	New_York	America	Clear
285	TRUE	Chicago	America	Clear
286	FALSE	Edmonton	America	Clear
287	TRUE	Chicago	America	Clear
288	FALSE	Los_Angeles	America	Clear
289	TRUE	London	Europe	Overcast
290	TRUE	Madrid	Europe	Clear
291	TRUE	Chicago	America	Clear
292	FALSE	Chicago	America	Clear
293	TRUE	Hong_Kong	Asia	MostlyCloudy
294	FALSE	Rome	Europe	PartlyCloudy
295	FALSE	Los_Angeles	America	Clear
296	FALSE	New_York	America	Clear
297	FALSE	Prague	Europe	MostlyCloudy
298	TRUE	New_York	America	Clear
299	FALSE	Prague	Europe	MostlyCloudy
300	FALSE	Zurich	Europe	Clear
301	FALSE	Prague	Europe	Drizzle
302	FALSE	Edmonton	America	Clear
303	FALSE	Chicago	America	PartlyCloudy
304	FALSE	Dublin	Europe	Overcast
305	TRUE	Paris	Europe	Drizzle
306	FALSE	Mexico_City	America	Overcast
307	FALSE	London	Europe	PartlyCloudy
308	TRUE	New_York	America	Clear
309	FALSE	Rome	Europe	PartlyCloudy
310	FALSE	Los_Angeles	America	Clear
311	FALSE	Paris	Europe	Clear
312	FALSE	London	Europe	Clear
313	TRUE	Chicago	America	BreezyandPartlyCloudy
314	TRUE	Oslo	Europe	Clear
315	FALSE	New_York	America	Clear
316	FALSE	New_York	America	Clear
317	TRUE	Vancouver	America	Clear
318	TRUE	Chicago	America	PartlyCloudy
319	FALSE	Brunei	Asia	MostlyCloudy
320	FALSE	Montreal	America	Clear
321	FALSE	Amsterdam	Europe	Overcast
322	TRUE	Buenos_Aires	America/Argentina	Clear
323	FALSE	Ljubljana	Europe	Overcast
324	TRUE	New_York	America	Rain
325	FALSE	Los_Angeles	America	PartlyCloudy
326	TRUE	Oslo	Europe	Clear
327	FALSE	New_York	America	Clear
328	TRUE	Stockholm	Europe	PartlyCloudy
329	FALSE	Los_Angeles	America	Clear
330	FALSE	London	Europe	Clear

331	TRUE	New_York	America	PartlyCloudy
332	FALSE	Denver	America	Clear
333	FALSE	London	Europe	PartlyCloudy
334	FALSE	New_York	America	Clear
335	FALSE	Warsaw	Europe	Clear
336	FALSE	New_York	America	Clear
337	FALSE	New_York	America	Clear
338	TRUE	New_York	America	Clear
339	FALSE	Bangkok	Asia	MostlyCloudy
340	FALSE	Rome	Europe	Clear
341	FALSE	London	Europe	Clear
342	FALSE	Prague	Europe	Overcast
343	TRUE	Puerto_Rico	America	Clear
344	FALSE	Mexico_City	America	HumidandOvercast
345	FALSE	New_York	America	PartlyCloudy
346	FALSE	Mexico_City	America	Clear
347	FALSE	Prague	Europe	MostlyCloudy
348	FALSE	New_York	America	PartlyCloudy
349	FALSE	Rome	Europe	Clear
350	FALSE	New_York	America	Clear
351	TRUE	Oslo	Europe	MostlyCloudy
352	TRUE	New_York	America	Clear
353	TRUE	Hong_Kong	Asia	PartlyCloudy
354	FALSE	Auckland	Pacific	Clear
355	FALSE	Stockholm	Europe	MostlyCloudy
356	FALSE	New_York	America	Clear
357	FALSE	New_York	America	Clear
358	FALSE	Prague	Europe	PartlyCloudy
359	FALSE	Stockholm	Europe	Clear
360	FALSE	New_York	America	Clear
361	TRUE	New_York	America	PartlyCloudy
362	FALSE	Edmonton	America	Clear
363	FALSE	London	Europe	Clear
364	FALSE	Prague	Europe	MostlyCloudy
365	FALSE	Bangkok	Asia	Overcast
366	FALSE	Prague	Europe	PartlyCloudy
367	FALSE	Auckland	Pacific	Clear
368	FALSE	London	Europe	Clear
369	FALSE	London	Europe	Clear
370	FALSE	Chicago	America	Clear
371	FALSE	New_York	America	Clear
372	FALSE	Singapore	Asia	Clear
373	FALSE	New_York	America	Clear
374	FALSE	Vancouver	America	Clear
375	FALSE	New_York	America	Clear
376	FALSE	London	Europe	Clear
377	FALSE	Dublin	Europe	Overcast
378	FALSE	New_York	America	Clear
379	TRUE	Rome	Europe	PartlyCloudy
380	FALSE	New_York	America	Clear

381	FALSE	New_York	America	Clear
382	FALSE	New_York	America	PartlyCloudy
383	FALSE	Prague	Europe	Clear
384	FALSE	Vancouver	America	Clear
385	FALSE	Prague	Europe	PartlyCloudy
386	FALSE	Berlin	Europe	Clear
387	TRUE	Toronto	America	LightRain
388	FALSE	Denver	America	Clear
389	FALSE	New_York	America	Clear
390	FALSE	Los_Angeles	America	Clear
391	TRUE	Noumea	Pacific	MostlyCloudy
392	FALSE	Los_Angeles	America	Clear
393	TRUE	Tokyo	Asia	Clear
394	FALSE	Chicago	America	Clear
395	FALSE	New_York	America	Clear
396	TRUE	Chicago	America	Clear
397	FALSE	New_York	America	Clear
398	FALSE	New_York	America	Clear
399	FALSE	Rome	Europe	PartlyCloudy
400	TRUE	London	Europe	Clear
401	FALSE	Tokyo	Asia	Clear
402	TRUE	London	Europe	Clear
403	FALSE	Rome	Europe	Clear
404	FALSE	Warsaw	Europe	PartlyCloudy
405	FALSE	New_York	America	LightRain
406	TRUE	Stockholm	Europe	Clear
407	FALSE	Prague	Europe	MostlyCloudy
408	FALSE	Denver	America	Clear
409	TRUE	Chicago	America	PartlyCloudy
410	FALSE	Rome	Europe	PartlyCloudy
411	FALSE	Ho_Chi_Minh	Asia	Overcast
412	FALSE	Chicago	America	Clear
413	FALSE	Denver	America	Clear
414	TRUE	Stockholm	Europe	Clear
415	FALSE	New_York	America	Clear
416	TRUE	Los_Angeles	America	Clear
417	FALSE	Oslo	Europe	Clear
418	FALSE	New_York	America	Clear
419	FALSE	Los_Angeles	America	Clear
420	FALSE	New_York	America	Clear
421	FALSE	New_York	America	PartlyCloudy
422	FALSE	Los_Angeles	America	Clear
423	FALSE	Mexico_City	America	LightRain
424	FALSE	Prague	Europe	MostlyCloudy
425	FALSE	Rome	Europe	MostlyCloudy
426	FALSE	Denver	America	Clear
427	FALSE	Paris	Europe	Clear
428	TRUE	Stockholm	Europe	Clear
429	FALSE	New_York	America	Clear
430	TRUE	New_York	America	LightRainandBreezy

431	FALSE	London	Europe	Clear
432	FALSE	Oslo	Europe	MostlyCloudy
433	FALSE	Prague	Europe	PartlyCloudy
434	FALSE	Rome	Europe	MostlyCloudy
435	FALSE	Vancouver	America	Clear
436	TRUE	Brunei	Asia	Clear
437	FALSE	New_York	America	Clear
438	FALSE	London	Europe	Clear
439	FALSE	London	Europe	Clear
440	FALSE	Bangkok	Asia	MostlyCloudy
441	FALSE	Mexico_City	America	Clear
442	FALSE	Edmonton	America	Clear
443	TRUE	Chicago	America	Clear
444	FALSE	Edmonton	America	Clear
445	TRUE	Chicago	America	Clear
446	FALSE	Monterrey	America	Clear
447	FALSE	Prague	Europe	Rain
448	FALSE	Ljubljana	Europe	MostlyCloudy
449	FALSE	Mexico_City	America	Clear
450	FALSE	Warsaw	Europe	PartlyCloudy
451	FALSE	Chicago	America	Clear
452	FALSE	New_York	America	Clear
453	FALSE	Chicago	America	Clear
454	FALSE	Edmonton	America	Overcast
455	FALSE	Los_Angeles	America	Clear
456	FALSE	Mexico_City	America	Clear
457	TRUE	New_York	America	MostlyCloudy
458	TRUE	Madrid	Europe	PartlyCloudy
459	FALSE	Zurich	Europe	PartlyCloudy
460	FALSE	Paris	Europe	Overcast
461	FALSE	Prague	Europe	Overcast
462	FALSE	New_York	America	Clear
463	TRUE	Prague	Europe	Overcast
464	FALSE	London	Europe	Clear
465	FALSE	Manila	Asia	MostlyCloudy
466	FALSE	Chicago	America	PartlyCloudy
467	FALSE	Oslo	Europe	Clear
468	FALSE	Stockholm	Europe	MostlyCloudy
469	TRUE	Stockholm	Europe	MostlyCloudy
470	TRUE	Madrid	Europe	Clear
471	TRUE	Chicago	America	Clear
472	FALSE	New_York	America	Clear
473	TRUE	New_York	America	Clear
474	FALSE	Chicago	America	Clear
475	FALSE	New_York	America	Clear
476	FALSE	New_York	America	PartlyCloudy
477	FALSE	Regina	America	PartlyCloudy
478	FALSE	Los_Angeles	America	Clear
479	TRUE	New_York	America	PartlyCloudy
480	FALSE	Los_Angeles	America	Clear

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481        FALSE       Phoenix          America          PartlyCloudy
482        FALSE       New_York         America                 Clear
483        FALSE       Edmonton         America          PartlyCloudy
   temperature windSpeed windBearing pressure       weatherIcon
1         17.0     13.07         295  1007.84          clear-day
2         24.7     15.32           2  1017.44          clear-day
3         23.3      0.84         311  1017.10  partly-cloudy-day
4         21.9      5.12         238  1012.70  partly-cloudy-day
5         28.9      6.92         105  1014.84  partly-cloudy-day
6         24.6      8.54         240  1016.33  partly-cloudy-day
7         24.5      5.00         230  1021.24        clear-night
8         24.7     15.32           2  1017.44          clear-day
9         18.0      5.03         271  1009.11        clear-night
10        16.6      3.02          49  1011.09          clear-day
11        21.1      6.02         178  1023.00  partly-cloudy-day
12        25.1      3.23         233  1016.15          clear-day
13        18.8      3.59          90  1023.04        clear-night
14        25.4      1.72         173  1012.85  partly-cloudy-day
15        29.3      8.51         143  1014.72          clear-day
16        12.8      2.99         337  1016.50        clear-night
17        18.4     12.43          32  1024.46  partly-cloudy-day
18        20.9      9.11         259  1016.87               rain
19        25.7      3.46         302  1017.74 partly-cloudy-night
20        28.9      8.02         260  1008.15          clear-day
21        28.4      7.48           1  1012.16          clear-day
22         8.2      6.47         259  1007.77        clear-night
23        27.5      6.99         180  1006.60          clear-day
24        13.4      2.14         276  1014.46        clear-night
25        16.0      9.29         301  1018.22  partly-cloudy-day
26        29.8      5.21          86  1019.64          clear-day
27        22.0      4.21         299  1017.02  partly-cloudy-day
28        24.6      3.64          90  1013.39               rain
29        15.1      4.47         234  1016.29  partly-cloudy-day
30        21.5      9.95         226  1008.51          clear-day
31        24.4      6.61         352  1013.57             cloudy
32        25.1     10.35          18  1012.70          clear-day
33        28.4      7.48           1  1012.16          clear-day
34        22.0      5.52          80  1023.92          clear-day
35        23.4      4.23         241  1017.18 partly-cloudy-night
36        31.7      5.45         121  1013.10  partly-cloudy-day
37        29.8      3.84          84  1003.65          clear-day
38        18.8      3.50         304  1007.84 partly-cloudy-night
39        22.9      0.79         139  1018.71 partly-cloudy-night
40        25.4      0.92         123  1020.69        clear-night
41        15.8      8.88         175  1009.69             cloudy
42        28.1      7.54           5  1022.47          clear-day
43        23.6      9.75         342  1017.35          clear-day
44        26.8      2.90         153  1017.78        clear-night
45        14.8      6.00         308  1020.04 partly-cloudy-night
46         7.5      2.45          96  1017.10        clear-night
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47	14.5	6.45	88	1028.15	clear-night
48	27.0	6.25	148	1007.64	clear-day
49	26.6	5.25	150	1020.27	partly-cloudy-night
50	22.8	2.41	110	1023.04	clear-night
51	25.9	5.67	40	1010.08	cloudy
52	21.0	6.94	218	1019.82	partly-cloudy-day
53	24.9	0.73	353	1014.57	clear-night
54	22.1	8.20	348	1016.46	clear-day
55	15.7	13.50	233	1004.47	clear-night
56	32.0	9.12	345	1015.59	clear-day
57	13.9	5.48	358	1019.94	clear-night
58	19.3	7.67	254	1008.57	clear-day
59	17.2	5.98	105	1022.68	clear-night
60	17.4	9.08	302	1023.91	partly-cloudy-day
61	32.8	11.00	240	1008.92	clear-day
62	27.2	8.51	230	1008.29	clear-day
63	16.8	1.17	53	1020.97	partly-cloudy-day
64	12.3	5.24	110	1004.54	clear-day
65	20.0	4.35	211	1021.23	clear-night
66	19.2	15.82	21	1010.66	rain
67	10.4	12.44	243	1009.10	cloudy
68	21.3	3.00	230	1020.23	clear-night
69	21.4	3.28	262	1008.24	clear-day
70	12.3	4.38	329	1010.99	partly-cloudy-day
71	24.9	6.78	151	1005.86	clear-night
72	23.2	7.00	190	1019.47	clear-night
73	11.5	20.31	74	1014.20	clear-night
74	21.2	1.39	212	1015.26	clear-day
75	31.5	2.28	182	1020.72	clear-day
76	11.8	4.04	211	1017.35	partly-cloudy-night
77	27.6	2.48	277	1012.55	partly-cloudy-day
78	20.9	7.06	0	1025.19	partly-cloudy-day
79	24.8	3.64	166	1010.86	clear-day
80	24.9	5.79	263	1016.38	partly-cloudy-day
81	23.3	3.80	91	1020.75	clear-day
82	16.5	5.33	271	1011.67	partly-cloudy-day
83	18.1	4.62	110	1022.54	clear-night
84	14.7	7.99	170	1014.07	rain
85	20.1	0.17	38	1018.02	partly-cloudy-night
86	22.0	6.75	255	1021.76	clear-day
87	22.5	3.17	231	1003.77	rain
88	19.1	6.78	55	1021.89	clear-day
89	30.5	0.95	177	1018.55	partly-cloudy-day
90	13.3	4.38	158	1015.41	clear-night
91	14.6	5.96	8	1024.55	clear-night
92	24.4	4.65	207	1012.81	clear-day
93	30.5	7.02	86	1012.00	partly-cloudy-day
94	16.3	3.82	293	1018.22	clear-night
95	14.3	8.13	155	1012.13	clear-day
96	20.4	8.77	215	1025.97	clear-day

97	34.4	7.86	148	1007.33	clear-day
98	16.3	11.28	343	1025.83	partly-cloudy-day
99	9.8	8.84	117	1029.59	cloudy
100	12.3	4.38	329	1010.99	partly-cloudy-day
101	19.4	4.20	130	1023.30	clear-night
102	34.4	10.80	123	1001.85	clear-day
103	9.0	3.54	121	1010.36	clear-night
104	32.5	6.91	96	1014.90	clear-day
105	31.4	7.03	235	1015.49	clear-day
106	13.8	9.74	309	1028.73	cloudy
107	14.0	5.58	228	1015.96	partly-cloudy-day
108	13.8	5.26	62	1024.80	clear-night
109	33.0	10.62	119	1018.83	clear-day
110	26.7	6.05	135	1007.51	partly-cloudy-night
111	27.1	6.38	144	1017.95	clear-night
112	27.8	6.16	220	1015.59	clear-day
113	15.6	12.60	243	1009.24	partly-cloudy-day
114	17.4	13.45	290	1014.64	partly-cloudy-day
115	20.9	7.06	0	1025.19	partly-cloudy-day
116	27.6	17.42	354	1017.03	clear-day
117	25.0	9.90	101	1020.50	partly-cloudy-night
118	34.3	1.88	202	1006.44	clear-night
119	14.6	5.68	329	1016.30	clear-night
120	17.4	13.03	202	1005.28	clear-night
121	5.2	0.82	265	1011.93	partly-cloudy-night
122	10.0	11.33	1	1019.06	clear-night
123	12.8	3.34	345	1023.30	clear-night
124	26.5	7.80	201	1001.20	clear-day
125	21.8	8.98	189	1025.44	partly-cloudy-day
126	27.5	11.31	194	1007.22	partly-cloudy-day
127	21.0	12.12	312	1002.61	clear-night
128	27.6	5.48	212	1015.68	clear-day
129	24.4	16.45	251	1011.44	partly-cloudy-day
130	27.8	8.77	60	1018.17	partly-cloudy-day
131	21.8	1.33	316	1017.90	partly-cloudy-night
132	14.0	13.43	246	1006.17	partly-cloudy-night
133	18.7	9.23	340	1011.72	clear-day
134	19.8	5.23	213	1018.72	clear-night
135	21.7	4.46	301	1018.33	clear-night
136	32.1	6.95	61	1013.02	clear-day
137	24.2	5.55	164	1016.94	clear-night
138	16.5	1.88	348	1023.00	clear-day
139	21.0	16.92	49	1024.01	clear-day
140	27.9	2.79	69	1018.78	rain
141	17.4	2.57	347	1019.05	partly-cloudy-night
142	32.2	7.69	238	1010.62	clear-day
143	13.8	7.88	298	1019.78	cloudy
144	26.0	12.31	278	1014.17	partly-cloudy-day
145	24.6	7.06	200	1015.18	clear-night
146	17.6	9.48	262	1011.90	partly-cloudy-day

147	17.8	20.67	237	1012.08	wind
148	25.6	4.97	158	1018.09	partly-cloudy-night
149	29.0	8.25	1	1017.18	clear-day
150	27.1	3.96	242	1018.55	partly-cloudy-day
151	16.1	7.60	135	1010.09	partly-cloudy-day
152	20.0	2.49	7	1019.40	partly-cloudy-night
153	27.3	5.00	326	1016.26	clear-night
154	19.7	3.07	161	1022.09	cloudy
155	22.5	6.91	229	1023.87	cloudy
156	25.6	2.15	354	1012.37	clear-night
157	25.9	11.62	245	1011.87	partly-cloudy-day
158	31.2	6.49	116	1015.26	clear-day
159	26.2	7.46	67	1010.81	clear-day
160	14.1	4.88	346	1013.02	rain
161	19.2	1.89	218	1019.21	partly-cloudy-day
162	24.0	7.33	333	1024.16	clear-day
163	26.9	14.24	95	1014.19	clear-day
164	19.9	3.02	72	1023.82	clear-night
165	21.9	3.00	320	1018.30	clear-night
166	20.0	2.50	5	1019.40	partly-cloudy-night
167	18.5	3.08	134	1014.10	partly-cloudy-day
168	8.0	2.02	114	1010.11	partly-cloudy-night
169	16.6	2.69	31	1022.69	partly-cloudy-night
170	14.6	5.68	329	1016.30	clear-night
171	9.8	8.84	117	1029.59	cloudy
172	24.3	2.79	198	1015.29	clear-night
173	19.0	12.88	289	1013.19	partly-cloudy-day
174	20.5	3.86	120	1022.18	clear-night
175	28.5	8.55	74	1015.84	partly-cloudy-day
176	25.2	3.64	154	1020.14	clear-night
177	13.0	1.49	206	1005.75	rain
178	31.6	6.82	245	1015.49	partly-cloudy-night
179	36.1	4.86	316	1005.10	clear-night
180	13.6	6.00	204	1015.09	clear-day
181	27.0	11.16	21	1013.85	clear-day
182	9.0	3.54	121	1010.36	clear-night
183	29.0	6.85	284	1024.23	clear-day
184	27.0	5.26	250	1018.99	clear-night
185	28.6	7.17	62	1016.44	partly-cloudy-day
186	19.1	5.78	259	1011.36	partly-cloudy-day
187	28.5	8.42	229	1017.08	clear-night
188	15.8	10.37	305	1010.00	clear-day
189	16.3	6.93	1	1020.42	partly-cloudy-night
190	21.8	4.58	120	1022.27	clear-night
191	11.9	7.38	151	1025.46	clear-night
192	25.8	3.41	19	1019.29	partly-cloudy-night
193	22.5	6.11	225	1024.01	cloudy
194	17.6	14.31	291	1014.64	partly-cloudy-day
195	11.3	1.82	57	1003.81	clear-night
196	16.3	8.24	21	1025.89	partly-cloudy-night

197	24.6	1.34	249	1019.98	partly-cloudy-day
198	25.5	8.17	267	1016.41	partly-cloudy-day
199	24.7	3.32	41	1014.97	clear-day
200	16.8	1.90	173	1014.60	clear-day
201	10.5	1.16	159	1011.85	partly-cloudy-day
202	17.5	10.15	32	1025.24	clear-night
203	27.2	6.30	91	1014.07	clear-night
204	20.5	6.40	245	1024.10	cloudy
205	30.1	10.88	217	1016.82	clear-day
206	17.5	12.69	207	1005.19	clear-night
207	17.4	4.06	310	1017.65	partly-cloudy-day
208	26.6	5.25	150	1020.27	partly-cloudy-night
209	23.0	5.65	289	1017.66	cloudy
210	22.7	6.20	260	1013.61	clear-night
211	18.7	9.23	340	1011.72	clear-day
212	7.8	2.81	43	1029.14	clear-night
213	27.9	8.55	202	1016.29	partly-cloudy-night
214	14.8	5.12	352	1020.00	partly-cloudy-night
215	23.1	7.00	257	1023.13	partly-cloudy-day
216	17.4	3.17	107	1009.88	partly-cloudy-night
217	16.2	3.97	103	1007.00	cloudy
218	16.4	2.27	59	1012.35	clear-night
219	14.4	12.82	239	1005.02	partly-cloudy-night
220	25.8	3.29	23	1019.32	clear-night
221	16.1	11.16	150	1016.06	clear-day
222	5.0	0.70	315	1011.75	partly-cloudy-night
223	27.3	4.42	90	1012.44	partly-cloudy-day
224	19.4	8.40	52	1025.92	partly-cloudy-day
225	30.2	6.63	242	1019.03	clear-day
226	16.8	12.91	288	1014.19	partly-cloudy-day
227	23.7	3.00	340	1021.10	clear-day
228	8.2	6.47	259	1007.77	clear-night
229	13.8	7.88	298	1019.78	cloudy
230	18.0	15.33	191	1022.75	partly-cloudy-day
231	14.3	8.13	155	1012.13	clear-day
232	19.3	3.35	190	1021.63	partly-cloudy-night
233	25.3	6.00	180	1025.63	clear-day
234	15.4	1.60	226	1014.98	clear-night
235	21.2	6.00	180	1022.19	clear-night
236	24.0	5.98	160	1012.90	clear-night
237	15.2	6.82	206	1016.85	partly-cloudy-day
238	22.4	6.39	85	1018.40	clear-night
239	23.3	5.05	335	1019.15	clear-night
240	14.1	6.07	210	1025.00	clear-night
241	16.1	9.29	12	1024.81	partly-cloudy-day
242	19.9	3.02	72	1023.82	clear-night
243	12.4	4.86	23	1014.90	rain
244	22.7	9.93	128	1019.71	clear-day
245	23.3	4.07	271	1016.81	partly-cloudy-day
246	17.6	2.15	206	1015.66	partly-cloudy-day

247	17.1	5.86	198	1017.03	partly-cloudy-night
248	22.3	6.33	133	1023.43	clear-day
249	27.9	7.14	58	1017.58	partly-cloudy-day
250	14.0	3.82	171	1015.86	partly-cloudy-night
251	15.1	12.80	330	1017.57	partly-cloudy-night
252	16.5	9.94	341	1023.55	partly-cloudy-day
253	17.5	3.00	130	1014.14	partly-cloudy-night
254	22.5	6.11	225	1024.01	cloudy
255	16.3	6.40	277	1014.21	partly-cloudy-day
256	25.2	2.14	209	1017.04	partly-cloudy-day
257	17.9	15.26	192	1023.09	partly-cloudy-day
258	21.8	1.68	11	1002.88	clear-night
259	24.9	5.23	233	1017.38	partly-cloudy-day
260	19.1	5.97	253	1011.04	partly-cloudy-night
261	13.8	10.20	252	1007.51	partly-cloudy-night
262	32.2	4.72	147	1011.15	clear-day
263	18.0	4.08	53	1022.01	clear-night
264	28.0	5.22	148	1021.27	clear-day
265	17.8	4.34	188	1010.68	clear-night
266	26.1	6.50	120	1007.62	cloudy
267	13.0	1.04	166	1009.98	partly-cloudy-day
268	23.4	8.32	21	1025.40	partly-cloudy-day
269	9.6	8.98	39	1013.92	clear-night
270	17.7	4.92	204	1011.42	clear-day
271	20.5	4.91	284	1020.28	clear-day
272	26.1	6.14	314	1012.47	partly-cloudy-day
273	14.1	12.49	320	1017.82	rain
274	31.4	3.72	143	1011.51	partly-cloudy-day
275	10.8	15.04	99	1029.16	cloudy
276	24.3	2.79	198	1015.29	clear-night
277	25.6	7.33	100	1010.89	partly-cloudy-night
278	13.1	4.54	116	1019.86	clear-night
279	26.3	3.03	66	1017.03	partly-cloudy-day
280	8.9	14.10	219	1015.19	wind
281	12.9	5.64	313	1012.27	clear-day
282	27.3	3.23	336	1019.48	clear-day
283	16.4	1.09	116	1009.90	clear-night
284	26.3	4.01	13	1019.86	clear-night
285	22.9	7.52	102	1022.52	clear-day
286	7.1	2.34	120	1016.61	clear-night
287	28.2	3.51	136	1017.68	clear-day
288	25.1	10.75	222	1010.28	clear-day
289	18.1	4.19	241	1023.78	cloudy
290	33.0	9.37	164	1017.00	clear-day
291	30.6	3.54	34	1020.02	clear-day
292	20.8	6.53	79	1021.21	clear-day
293	26.7	6.05	135	1007.51	partly-cloudy-night
294	24.1	5.10	204	1012.45	partly-cloudy-night
295	11.5	3.19	280	1016.68	clear-night
296	23.8	4.12	162	1017.92	clear-night

297	15.7	11.39	18	1024.20	partly-cloudy-day
298	25.8	3.29	23	1019.32	clear-night
299	15.9	3.35	208	1011.65	partly-cloudy-night
300	29.6	5.13	24	1013.15	clear-day
301	17.1	7.33	261	1012.56	rain
302	7.1	2.34	120	1016.61	clear-night
303	27.2	10.10	79	1017.95	partly-cloudy-day
304	17.1	4.41	174	1018.81	cloudy
305	17.2	15.75	257	1013.40	rain
306	25.8	5.57	44	1012.07	cloudy
307	19.1	4.28	178	1021.05	partly-cloudy-night
308	20.6	10.24	35	1023.42	clear-night
309	26.3	7.45	74	1017.16	partly-cloudy-day
310	30.0	10.34	311	1007.32	clear-day
311	18.6	3.56	81	1014.34	clear-night
312	19.0	10.49	294	1013.47	clear-day
313	32.6	18.57	215	1014.02	wind
314	9.4	13.60	92	1001.75	clear-day
315	31.0	12.40	246	1019.70	clear-day
316	19.9	4.18	4	1022.51	clear-night
317	13.2	3.35	110	1019.13	clear-night
318	31.8	13.46	218	1014.26	partly-cloudy-day
319	30.8	5.68	228	1012.21	partly-cloudy-day
320	22.8	5.21	158	1019.94	clear-night
321	17.6	15.64	267	1009.44	cloudy
322	8.9	14.10	219	1015.19	wind
323	17.2	2.52	234	1019.19	cloudy
324	27.8	4.99	60	1019.31	rain
325	17.4	4.06	310	1017.65	partly-cloudy-day
326	10.8	10.83	323	1007.22	clear-day
327	14.7	0.44	350	1023.73	clear-night
328	14.8	3.34	228	1011.80	partly-cloudy-night
329	25.1	10.75	222	1010.28	clear-day
330	17.5	12.69	207	1005.19	clear-night
331	26.0	10.54	61	1021.17	partly-cloudy-day
332	12.4	7.28	23	1007.78	clear-night
333	18.4	4.64	212	1018.58	partly-cloudy-night
334	26.8	9.89	48	1019.59	clear-day
335	14.6	1.90	142	1021.84	clear-night
336	25.8	1.88	188	1019.64	clear-night
337	20.5	3.86	120	1022.18	clear-night
338	27.4	13.83	346	1015.68	clear-day
339	30.3	6.39	200	1007.29	partly-cloudy-night
340	27.8	6.16	220	1015.59	clear-day
341	20.3	5.16	183	1020.95	clear-night
342	22.4	4.40	258	1011.91	cloudy
343	25.5	2.90	110	1014.33	clear-night
344	26.2	6.00	20	1009.90	cloudy
345	24.2	2.39	345	1016.65	partly-cloudy-night
346	26.7	1.01	280	1018.00	clear-night

347	18.3	3.42	208	1017.27	partly-cloudy-night
348	19.7	4.27	1	1023.54	partly-cloudy-day
349	22.6	4.50	199	1017.30	clear-day
350	17.7	4.14	106	1024.33	clear-night
351	10.2	10.50	310	1008.59	partly-cloudy-day
352	19.9	8.99	3	1023.02	clear-day
353	27.8	9.32	92	1005.74	partly-cloudy-night
354	9.2	1.90	328	1018.99	clear-night
355	17.0	9.74	252	1011.80	partly-cloudy-day
356	21.8	6.10	93	1022.44	clear-night
357	18.9	6.22	9	1025.11	clear-day
358	19.1	8.07	114	1019.18	partly-cloudy-night
359	20.4	8.77	215	1025.97	clear-day
360	12.7	0.62	60	1025.76	clear-night
361	27.9	6.18	72	1020.35	partly-cloudy-day
362	14.6	5.67	305	1009.86	clear-day
363	20.7	5.87	204	1019.76	clear-day
364	17.9	12.04	298	1015.98	partly-cloudy-day
365	26.7	3.63	208	1005.60	cloudy
366	17.3	5.21	213	1017.06	partly-cloudy-night
367	9.2	1.90	328	1018.99	clear-night
368	20.7	5.91	185	1022.08	clear-night
369	17.4	9.30	284	1014.71	clear-day
370	26.8	2.99	123	1013.43	clear-night
371	27.7	3.61	146	1020.83	clear-night
372	32.7	6.25	187	1010.53	clear-day
373	18.4	3.62	250	1021.62	clear-night
374	12.9	1.16	111	1013.87	clear-night
375	23.7	3.00	340	1021.10	clear-day
376	12.1	4.09	224	1016.98	clear-night
377	19.8	10.90	199	1019.87	cloudy
378	18.5	0.60	319	1023.74	partly-cloudy-day
379	27.4	9.27	54	1014.01	partly-cloudy-day
380	15.7	2.41	90	1024.10	clear-night
381	23.6	1.90	170	1021.91	clear-night
382	31.1	7.33	347	1017.06	partly-cloudy-day
383	14.2	5.37	101	1028.06	clear-night
384	12.2	0.08	155	1015.68	clear-night
385	16.3	8.24	21	1025.89	partly-cloudy-night
386	9.9	1.97	90	1026.50	clear-night
387	24.6	3.64	90	1013.39	rain
388	20.4	6.38	303	1004.46	clear-night
389	18.1	3.12	117	1023.20	clear-night
390	25.1	10.75	222	1010.28	clear-day
391	25.2	7.40	81	1020.26	partly-cloudy-day
392	24.1	9.63	218	1008.15	clear-day
393	24.9	8.21	53	1016.20	clear-night
394	26.5	3.12	188	1015.95	clear-night
395	16.4	7.49	43	1022.30	clear-night
396	29.4	8.83	204	1015.01	clear-night

397	13.4	3.00	160	1026.01	clear-night
398	21.7	6.97	120	1016.04	clear-night
399	28.2	7.45	114	1017.18	partly-cloudy-day
400	19.0	10.44	183	1017.49	clear-day
401	22.9	1.65	76	1009.12	clear-night
402	16.4	18.04	294	1009.90	clear-day
403	18.7	7.29	185	1017.30	clear-day
404	24.5	6.70	208	1013.15	partly-cloudy-day
405	22.9	5.05	15	1015.76	rain
406	18.0	5.44	48	1018.44	clear-day
407	16.0	11.66	302	1015.36	partly-cloudy-day
408	21.8	1.68	11	1002.88	clear-night
409	26.6	5.25	150	1020.27	partly-cloudy-night
410	21.0	2.39	76	1018.32	partly-cloudy-night
411	27.7	5.73	288	1007.46	cloudy
412	31.3	4.58	125	1016.28	clear-day
413	22.6	8.55	212	1004.24	clear-night
414	17.9	6.21	214	1025.20	clear-day
415	11.7	0.00	172	1026.06	partly-cloudy-day
416	17.5	5.68	277	1010.40	clear-night
417	14.7	0.49	109	1008.72	clear-day
418	12.9	3.00	70	1021.24	clear-night
419	22.2	5.26	174	1002.90	clear-night
420	22.9	3.62	101	1023.02	clear-night
421	26.1	10.27	45	1019.18	partly-cloudy-day
422	24.0	10.96	270	1009.49	clear-day
423	12.8	4.98	340	1013.11	rain
424	25.9	11.25	245	1012.39	partly-cloudy-day
425	23.6	6.83	322	1012.72	partly-cloudy-day
426	18.0	9.71	352	1004.93	clear-night
427	17.3	2.22	255	1019.28	clear-night
428	20.1	13.30	216	1024.33	clear-day
429	15.9	5.98	20	1025.84	clear-night
430	17.4	18.60	23	1015.67	rain
431	17.9	8.53	208	1005.23	clear-night
432	20.0	7.95	273	1005.52	partly-cloudy-day
433	22.9	11.54	232	1012.14	partly-cloudy-day
434	25.7	10.85	130	1015.90	partly-cloudy-day
435	16.2	2.11	215	1015.15	clear-day
436	27.0	1.79	155	1011.65	clear-day
437	26.0	8.06	54	1019.45	clear-day
438	19.4	10.15	223	1015.93	clear-day
439	14.8	10.74	147	1016.20	clear-day
440	28.6	5.98	200	1007.91	partly-cloudy-night
441	25.6	4.98	270	1015.60	clear-night
442	15.1	4.67	326	1010.20	clear-day
443	27.5	7.52	210	1015.37	clear-night
444	8.3	6.17	269	1007.69	clear-night
445	26.1	3.49	140	1020.14	clear-night
446	27.4	5.13	92	1013.23	clear-night

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447      12.0      14.06       10   1019.72                   rain
448      20.5       4.74      126   1014.19      partly-cloudy-day
449      26.7       3.00      320   1013.30            clear-night
450      15.8       5.55      191   1020.67    partly-cloudy-night
451      27.6       7.73      176   1016.64            clear-night
452      21.6       6.71      321   1017.90            clear-night
453      24.9       3.26      113   1016.73            clear-night
454       7.3       2.47      119   1016.54                 cloudy
455      16.6       3.08      297   1018.50            clear-night
456      11.2       5.00       20   1010.84              clear-day
457      25.3       7.62       28   1018.23      partly-cloudy-day
458      27.8       2.84      269   1016.96    partly-cloudy-night
459      25.6      11.06       16   1012.86      partly-cloudy-day
460      17.2       3.47      115   1021.16                 cloudy
461      16.1       4.61       27   1026.73                 cloudy
462      27.0       5.98      100   1021.19            clear-night
463      22.4       6.63      260   1011.52                 cloudy
464      19.7       7.74      117   1014.18            clear-night
465      31.2       4.76      305   1011.27      partly-cloudy-day
466      31.9       9.26      233   1022.12      partly-cloudy-day
467      11.7       3.43      207   1016.43            clear-night
468      17.3       1.48      122   1008.41      partly-cloudy-day
469      17.1       8.78      255   1011.78      partly-cloudy-day
470      22.9       3.36      304   1018.95            clear-night
471      26.8       2.90      153   1017.78            clear-night
472      21.1       2.96       68   1024.60            clear-night
473      25.0       7.88       39   1023.92              clear-day
474      27.5       6.58      132   1017.54            clear-night
475      19.1       6.78       55   1021.89              clear-day
476      23.3      15.28       19   1016.27    partly-cloudy-night
477      20.8      14.31      259   1007.75      partly-cloudy-day
478      25.3      19.58      232   1007.68              clear-day
479      24.6       6.54      199   1015.01    partly-cloudy-night
480      35.7       7.10      345   1011.38              clear-day
481      31.1       3.50      146   1007.13      partly-cloudy-day
482      29.8       5.34       84   1019.64              clear-day
483       6.8       3.85      339   1020.80      partly-cloudy-day
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	sunriseMinutesMidnight	sunriseHour	sunriseMinute	sunriseMinutesSince
1	377	6	17	296
2	412	6	52	187
3	384	6	24	282
4	382	6	22	301
5	402	6	42	735
6	380	6	20	697
7	436	7	16	883
8	412	6	52	187
9	389	6	29	1046
10	395	6	35	92
11	391	6	31	688
12	409	6	49	725

13	424	7	4	970
14	410	6	50	302
15	424	7	4	583
16	399	6	39	-340
17	378	6	18	480
18	433	7	13	526
19	439	7	19	1000
20	367	6	7	1072
21	411	6	51	548
22	408	6	48	-289
23	369	6	9	950
24	377	6	17	881
25	385	6	25	782
26	435	7	15	652
27	381	6	21	744
28	409	6	49	885
29	377	6	17	758
30	389	6	29	721
31	417	6	57	-364
32	436	7	16	278
33	411	6	51	548
34	406	6	46	732
35	376	6	16	907
36	445	7	25	562
37	348	5	48	181
38	391	6	31	947
39	436	7	16	-383
40	405	6	45	1034
41	410	6	50	-266
42	403	6	43	376
43	406	6	46	681
44	401	6	41	1018
45	385	6	25	933
46	411	6	51	-337
47	387	6	27	932
48	392	6	32	719
49	401	6	41	983
50	403	6	43	796
51	435	7	15	553
52	442	7	22	262
53	422	7	2	971
54	405	6	45	408
55	381	6	21	1021
56	404	6	44	726
57	366	6	6	951
58	386	6	26	745
59	430	7	10	978
60	380	6	20	756
61	367	6	7	340
62	385	6	25	964

63	390	6	30	723
64	336	5	36	610
65	390	6	30	839
66	418	6	58	705
67	404	6	44	263
68	408	6	48	910
69	398	6	38	500
70	414	6	54	785
71	362	6	2	-317
72	437	7	17	973
73	401	6	41	-342
74	400	6	40	-341
75	436	7	16	696
76	377	6	17	-264
77	386	6	26	569
78	386	6	26	573
79	376	6	16	32
80	381	6	21	578
81	428	7	8	755
82	376	6	16	750
83	417	6	57	-375
84	394	6	34	504
85	386	6	26	913
86	408	6	48	130
87	376	6	16	823
88	431	7	11	156
89	440	7	20	223
90	392	6	32	-333
91	401	6	41	-2
92	401	6	41	-342
93	436	7	16	546
94	400	6	40	885
95	384	6	24	400
96	382	6	22	577
97	377	6	17	627
98	386	6	26	213
99	400	6	40	1024
100	414	6	54	785
101	404	6	44	792
102	363	6	3	176
103	414	6	54	-295
104	376	6	16	398
105	419	6	59	660
106	401	6	41	405
107	396	6	36	181
108	378	6	18	934
109	423	7	3	476
110	369	6	9	1033
111	424	7	4	908
112	412	6	52	392

113	378	6	18	168
114	386	6	26	288
115	386	6	26	573
116	388	6	28	561
117	335	5	35	979
118	366	6	6	848
119	398	6	38	921
120	376	6	16	-334
121	414	6	54	965
122	398	6	38	981
123	391	6	31	-167
124	419	6	59	362
125	421	7	1	313
126	418	6	58	240
127	419	6	59	959
128	412	6	52	361
129	384	6	24	530
130	396	6	36	415
131	361	6	1	-199
132	407	6	47	971
133	421	7	1	326
134	388	6	28	870
135	404	6	44	-357
136	436	7	16	462
137	384	6	24	920
138	411	6	51	780
139	387	6	27	210
140	423	7	3	419
141	391	6	31	1045
142	429	7	9	529
143	384	6	24	935
144	362	6	2	595
145	405	6	45	910
146	375	6	15	370
147	386	6	26	993
148	432	7	12	-379
149	448	7	28	656
150	406	6	46	457
151	381	6	21	472
152	466	7	46	-227
153	403	6	43	912
154	434	7	14	705
155	384	6	24	362
156	435	7	15	996
157	381	6	21	460
158	400	6	40	559
159	435	7	15	463
160	370	6	10	318
161	372	6	12	222
162	455	7	35	648

163	445	7	25	943
164	402	6	42	903
165	416	6	56	-316
166	465	7	45	-226
167	389	6	29	236
168	414	6	54	-184
169	390	6	30	922
170	398	6	38	921
171	400	6	40	1024
172	405	6	45	1016
173	377	6	17	696
174	436	7	16	-282
175	398	6	38	446
176	401	6	41	-42
177	371	6	11	732
178	466	7	46	811
179	367	6	7	771
180	376	6	16	114
181	412	6	52	695
182	414	6	54	-295
183	436	7	16	285
184	416	6	56	776
185	383	6	23	297
186	392	6	32	207
187	431	7	11	766
188	385	6	25	334
189	362	6	2	932
190	436	7	16	-405
191	402	6	42	-4
192	424	7	4	-348
193	382	6	22	331
194	384	6	24	312
195	337	5	37	930
196	378	6	18	936
197	434	7	14	263
198	381	6	21	576
199	412	6	52	742
200	390	6	30	741
201	380	6	20	133
202	374	6	14	939
203	436	7	16	821
204	382	6	22	157
205	383	6	23	333
206	376	6	16	1063
207	400	6	40	738
208	401	6	41	983
209	421	7	1	638
210	410	6	50	-406
211	421	7	1	326
212	401	6	41	982

213	384	6	24	1000
214	373	6	13	999
215	381	6	21	518
216	388	6	28	-255
217	381	6	21	689
218	440	7	20	995
219	407	6	47	851
220	424	7	4	-365
221	387	6	27	246
222	414	6	54	1019
223	435	7	15	704
224	389	6	29	627
225	412	6	52	667
226	379	6	19	315
227	411	6	51	728
228	408	6	48	-289
229	384	6	24	935
230	385	6	25	719
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232	379	6	19	1000
233	379	6	19	554
234	387	6	27	858
235	420	7	0	869
236	435	7	15	1004
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238	401	6	41	810
239	404	6	44	-402
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241	386	6	26	368
242	402	6	42	903
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244	381	6	21	758
245	383	6	23	706
246	377	6	17	134
247	381	6	21	999
248	380	6	20	338
249	396	6	36	383
250	395	6	35	-382
251	377	6	17	997
252	386	6	26	46
253	460	7	40	-309
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255	408	6	48	310
256	404	6	44	375
257	384	6	24	699
258	393	6	33	806
259	381	6	21	397
260	369	6	9	920
261	408	6	48	-356
262	395	6	35	383

263	380	6	20	888
264	430	7	10	620
265	387	6	27	886
266	368	6	8	-256
267	378	6	18	78
268	357	5	57	559
269	383	6	23	-379
270	404	6	44	373
271	405	6	45	39
272	401	6	41	267
273	380	6	20	927
274	445	7	25	687
275	427	7	7	-284
276	405	6	45	1016
277	444	7	24	850
278	383	6	23	1017
279	404	6	44	555
280	424	7	4	950
281	374	6	14	380
282	381	6	21	502
283	387	6	27	-346
284	404	6	44	795
285	381	6	21	461
286	412	6	52	-293
287	381	6	21	696
288	388	6	28	511
289	393	6	33	-230
290	439	7	19	448
291	401	6	41	492
292	380	6	20	726
293	369	6	9	1033
294	401	6	41	-287
295	399	6	39	-280
296	434	7	14	825
297	378	6	18	371
298	424	7	4	-365
299	379	6	19	-321
300	412	6	52	547
301	384	6	24	-351
302	412	6	52	-293
303	394	6	34	624
304	412	6	52	965
305	447	7	27	-88
306	435	7	15	702
307	379	6	19	873
308	388	6	28	-360
309	405	6	45	312
310	400	6	40	584
311	424	7	4	892
312	385	6	25	507

313	383	6	23	635
314	348	5	48	611
315	430	7	10	649
316	406	6	46	882
317	399	6	39	842
318	384	6	24	724
319	377	6	17	315
320	381	6	21	781
321	413	6	53	690
322	424	7	4	950
323	390	6	30	389
324	431	7	11	452
325	400	6	40	738
326	340	5	40	405
327	404	6	44	-107
328	376	6	16	943
329	388	6	28	511
330	376	6	16	1063
331	430	7	10	478
332	383	6	23	844
333	384	6	24	855
334	427	7	7	709
335	359	5	59	1079
336	437	7	17	865
337	436	7	16	-282
338	388	6	28	751
339	367	6	7	779
340	412	6	52	392
341	381	6	21	1038
342	384	6	24	393
343	376	6	16	-204
344	435	7	15	584
345	404	6	44	-345
346	436	7	16	1003
347	367	6	7	929
348	402	6	42	78
349	402	6	42	342
350	413	6	53	-389
351	340	5	40	517
352	388	6	28	200
353	369	6	9	832
354	399	6	39	844
355	375	6	15	224
356	419	6	59	870
357	374	6	14	224
358	388	6	28	957
359	382	6	22	577
360	380	6	20	-248
361	430	7	10	227
362	414	6	54	561

363	378	6	18	665
364	384	6	24	574
365	354	5	54	825
366	381	6	21	1058
367	399	6	39	844
368	381	6	21	1040
369	387	6	27	690
370	435	7	15	-334
371	436	7	16	756
372	421	7	1	358
373	408	6	48	-350
374	396	6	36	-357
375	411	6	51	728
376	376	6	16	-197
377	412	6	52	445
378	415	6	55	4
379	415	6	55	601
380	403	6	43	-229
381	429	7	9	770
382	405	6	45	734
383	387	6	27	1029
384	392	6	32	923
385	378	6	18	936
386	391	6	31	0
387	409	6	49	885
388	392	6	32	907
389	429	7	9	949
390	388	6	28	511
391	360	6	0	266
392	389	6	29	566
393	315	5	15	1064
394	385	6	25	874
395	416	6	56	966
396	383	6	23	867
397	380	6	20	-321
398	433	7	13	-375
399	401	6	41	726
400	379	6	19	495
401	356	5	56	-112
402	388	6	28	211
403	402	6	42	197
404	354	5	54	285
405	392	6	32	992
406	383	6	23	298
407	387	6	27	456
408	393	6	33	806
409	401	6	41	983
410	412	6	52	1017
411	343	5	43	221
412	396	6	36	656

413	393	6	33	803
414	381	6	21	758
415	379	6	19	-283
416	393	6	33	914
417	380	6	20	399
418	381	6	21	-322
419	377	6	17	-166
420	401	6	41	798
421	401	6	41	668
422	386	6	26	392
423	445	7	25	994
424	381	6	21	398
425	405	6	45	544
426	420	7	0	907
427	434	7	14	-315
428	385	6	25	394
429	375	6	15	943
430	376	6	16	-137
431	385	6	25	873
432	379	6	19	578
433	368	6	8	559
434	410	6	50	729
435	392	6	32	747
436	378	6	18	-334
437	401	6	41	656
438	376	6	16	316
439	387	6	27	152
440	366	6	6	849
441	436	7	16	1003
442	414	6	54	659
443	383	6	23	1043
444	408	6	48	-246
445	401	6	41	1037
446	445	7	25	897
447	370	6	10	23
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449	435	7	15	1004
450	377	6	17	991
451	409	6	49	810
452	403	6	43	-175
453	409	6	49	1014
454	412	6	52	-230
455	396	6	36	923
456	445	7	25	992
457	397	6	37	755
458	439	7	19	799
459	411	6	51	301
460	437	7	17	84
461	386	6	26	915
462	435	7	15	764

463	384	6	24	470
464	382	6	22	840
465	345	5	45	319
466	386	6	26	465
467	383	6	23	879
468	377	6	17	371
469	376	6	16	216
470	444	7	24	-336
471	401	6	41	1018
472	412	6	52	907
473	384	6	24	453
474	423	7	3	831
475	431	7	11	156
476	381	6	21	925
477	383	6	23	574
478	389	6	29	372
479	424	7	4	-186
480	396	6	36	593
481	364	6	4	955
482	435	7	15	644
483	410	6	50	248

	sunsetMinutesMidnight	sunsetHour	sunsetMinute	sunsetMinutesBefore
1	1186	19	46	513
2	1195	19	55	596
3	1173	19	33	507
4	1182	19	42	499
5	1187	19	47	50
6	1183	19	43	106
7	1197	19	57	-122
8	1195	19	55	596
9	1153	19	13	-282
10	1157	19	17	670
11	1183	19	43	104
12	1200	20	0	66
13	1200	20	0	-194
14	1195	19	55	483
15	1195	19	55	188
16	1182	19	42	1123
17	1169	19	29	311
18	1228	20	28	269
19	1219	20	19	-220
20	1109	18	29	-330
21	1196	19	56	237
22	1220	20	20	1101
23	1118	18	38	-201
24	1186	19	46	-72
25	1180	19	40	13
26	1200	20	0	113
27	1181	19	41	56
28	1183	19	43	-111

29	1181	19	41	46
30	1154	19	14	44
31	1184	19	44	1131
32	1184	19	44	470
33	1196	19	56	237
34	1189	19	49	51
35	1173	19	33	-110
36	1196	19	56	189
37	1103	18	23	574
38	1169	19	29	-169
39	1181	19	41	1128
40	1161	19	21	-278
41	1211	20	11	1067
42	1174	19	34	395
43	1175	19	35	88
44	1160	19	20	-259
45	1180	19	40	-138
46	1214	20	14	1140
47	1179	19	39	-140
48	1154	19	14	43
49	1158	19	18	-226
50	1177	19	37	-22
51	1184	19	44	196
52	1241	20	41	537
53	1185	19	45	-208
54	1187	19	47	374
55	1194	19	54	-208
56	1173	19	33	43
57	1169	19	29	-148
58	1148	19	8	17
59	1205	20	5	-203
60	1167	19	27	31
61	1108	18	28	401
62	1134	18	54	-215
63	1172	19	32	59
64	1228	20	28	282
65	1190	19	50	-39
66	1189	19	49	66
67	1086	18	6	419
68	1171	19	31	-147
69	1188	19	48	290
70	1213	20	13	14
71	1125	18	45	1080
72	1196	19	56	-214
73	1174	19	34	1115
74	1185	19	45	1126
75	1198	19	58	66
76	1176	19	36	1063
77	1180	19	40	225
78	1177	19	37	218

79	1107	18	27	699
80	1181	19	41	222
81	1205	20	5	22
82	1197	19	57	71
83	1196	19	56	1154
84	1194	19	54	296
85	1177	19	37	-122
86	1171	19	31	633
87	1181	19	41	-18
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89	1217	20	17	554
90	1190	19	50	1131
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92	1183	19	43	1124
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94	1180	19	40	-105
95	1193	19	53	409
96	1190	19	50	231
97	1142	19	2	138
98	1177	19	37	578
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104	1121	18	41	347
105	1189	19	49	110
106	1088	18	8	282
107	1192	19	52	615
108	1165	19	25	-147
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134	1192	19	52	-66
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137	1161	19	21	-143
138	1177	19	37	-14
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140	1177	19	37	335
141	1170	19	30	-266
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143	1177	19	37	-142
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145	1172	19	32	-143
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147	1190	19	50	-189
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149	1237	20	37	133
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152	1245	20	45	1006
153	1172	19	32	-143
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161	1172	19	32	578
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164	1176	19	36	-129
165	1202	20	2	1102
166	1245	20	45	1006
167	1175	19	35	550
168	1213	20	13	983
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171	1089	18	9	-335
172	1172	19	32	-249
173	1181	19	41	108
174	1198	19	58	1044
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176	1158	19	18	799
177	1227	20	27	124
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179	1128	18	48	-10
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181	1195	19	55	88
182	1213	20	13	1094
183	1197	19	57	476
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185	1145	19	5	465
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187	1199	19	59	2
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193	1177	19	37	464
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199	1194	19	54	40
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214	1170	19	30	-202
215	1177	19	37	278
216	1148	19	8	1015
217	1197	19	57	127
218	1222	20	22	-213
219	1215	20	15	-43
220	1175	19	35	1116
221	1192	19	52	559
222	1213	20	13	-220
223	1182	19	42	43
224	1181	19	41	165
225	1176	19	36	97
226	1174	19	34	480
227	1177	19	37	38
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229	1177	19	37	-142
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231	1193	19	53	409
232	1179	19	39	-200
233	1163	19	23	230
234	1195	19	55	-50
235	1185	19	45	-104
236	1191	19	51	-248
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238	1179	19	39	-32
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253	1206	20	6	1055
254	1177	19	37	464
255	1213	20	13	495
256	1183	19	43	404
257	1197	19	57	114
258	1168	19	28	-31
259	1181	19	41	403
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262	1123	18	43	345
263	1161	19	21	-107
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265	1154	19	14	-119
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267	1194	19	54	738
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282	1159	19	19	276
283	1147	19	7	1106
284	1177	19	37	-22
285	1163	19	23	321
286	1215	20	15	1096
287	1150	19	10	73
288	1155	19	15	256
289	1185	19	45	1022
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291	1158	19	18	265
292	1163	19	23	57
293	1118	18	38	-284
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296	1201	20	1	-58
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301	1177	19	37	1144
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303	1169	19	29	151
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305	1244	20	44	885
306	1185	19	45	48
307	1179	19	39	-73
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309	1183	19	43	466
310	1170	19	30	186
311	1206	20	6	-110
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313	1158	19	18	140
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315	1201	20	1	122
316	1174	19	34	-114
317	1183	19	43	-58
318	1158	19	18	50
319	1109	18	29	417
320	1165	19	25	3
321	1218	20	18	115
322	1117	18	37	-257
323	1172	19	32	393
324	1181	19	41	298
325	1182	19	42	44
326	1223	20	23	478
327	1175	19	35	878
328	1197	19	57	-122

329	1155	19	15	256
330	1188	19	48	-251
331	1207	20	7	299
332	1166	19	26	-61
333	1189	19	49	-50
334	1184	19	44	48
335	1151	19	11	-287
336	1195	19	55	-107
337	1198	19	58	1044
338	1163	19	23	24
339	1109	18	29	-37
340	1193	19	53	389
341	1181	19	41	-238
342	1184	19	44	407
343	1120	18	40	948
344	1185	19	45	166
345	1171	19	31	1112
346	1182	19	42	-257
347	1168	19	28	-128
348	1176	19	36	696
349	1181	19	41	437
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351	1223	20	23	366
352	1163	19	23	575
353	1120	18	40	-81
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355	1197	19	57	598
356	1187	19	47	-102
357	1158	19	18	560
358	1177	19	37	-168
359	1190	19	50	231
360	1161	19	21	1029
361	1182	19	42	525
362	1212	20	12	237
363	1177	19	37	134
364	1179	19	39	221
365	1097	18	17	-82
366	1183	19	43	-256
367	1076	17	56	-167
368	1177	19	37	-244
369	1195	19	55	118
370	1191	19	51	1090
371	1197	19	57	5
372	1149	19	9	370
373	1171	19	31	1113
374	1184	19	44	1145
375	1177	19	37	38
376	1184	19	44	1005
377	1208	20	8	351
378	1184	19	44	765

379	1188	19	48	172
380	1175	19	35	1001
381	1204	20	4	5
382	1175	19	35	36
383	1179	19	39	-237
384	1190	19	50	-125
385	1167	19	27	-147
386	1181	19	41	790
387	1183	19	43	-111
388	1165	19	25	-134
389	1205	20	5	-173
390	1155	19	15	256
391	1067	17	47	441
392	1154	19	14	199
393	1087	18	7	-292
394	1159	19	19	-100
395	1199	19	59	-183
396	1158	19	18	-92
397	1161	19	21	1102
398	1201	20	1	1143
399	1189	19	49	62
400	1183	19	43	309
401	1118	18	38	874
402	1196	19	56	597
403	1181	19	41	582
404	1156	19	16	517
405	1164	19	24	-220
406	1201	20	1	520
407	1182	19	42	339
408	1168	19	28	-31
409	1158	19	18	-226
410	1190	19	50	-239
411	1090	18	10	526
412	1165	19	25	113
413	1166	19	26	-30
414	1189	19	49	50
415	1163	19	23	1067
416	1161	19	21	-146
417	1216	20	16	437
418	1159	19	19	1100
419	1143	19	3	932
420	1175	19	35	-24
421	1178	19	38	109
422	1148	19	8	370
423	1190	19	50	-249
424	1178	19	38	399
425	1188	19	48	239
426	1196	19	56	-131
427	1226	20	26	1107
428	1198	19	58	419

429	1155	19	15	-163
430	1151	19	11	912
431	1197	19	57	-61
432	1215	20	15	258
433	1165	19	25	238
434	1191	19	51	52
435	1190	19	50	51
436	1109	18	29	1065
437	1178	19	38	121
438	1184	19	44	492
439	1192	19	52	653
440	1108	18	28	-107
441	1183	19	43	-256
442	1213	20	13	140
443	1158	19	18	-268
444	1219	20	19	1057
445	1160	19	20	-278
446	1195	19	55	-147
447	1161	19	21	768
448	1174	19	34	470
449	1185	19	45	-254
450	1167	19	27	-201
451	1175	19	35	-44
452	1172	19	32	944
453	1171	19	31	-252
454	1215	20	15	1033
455	1179	19	39	-140
456	1191	19	51	-246
457	1177	19	37	25
458	1219	20	19	-19
459	1196	19	56	484
460	1226	20	26	705
461	1175	19	35	-126
462	1198	19	58	-1
463	1184	19	44	330
464	1174	19	34	-48
465	1084	18	4	420
466	1152	19	12	301
467	1213	20	13	-49
468	1194	19	54	446
469	1197	19	57	605
470	1217	20	17	1109
471	1160	19	20	-259
472	1189	19	49	-130
473	1162	19	22	325
474	1181	19	41	-73
475	1207	20	7	620
476	1158	19	18	-148
477	1190	19	50	233
478	1156	19	16	395

		1184	19	44	946
479	1184	19	44	946
480	1159	19	19	170
481	1133	18	53	-186
482	1200	20	0	121
483	1217	20	17	559

	population_density	urban	suburban	midurban	rural	gymDistanceKm	gymIn100m
1	138.590120	FALSE	FALSE	FALSE	TRUE	0.407034	FALSE
2	426.502200	FALSE	TRUE	TRUE	FALSE	0.124418	FALSE
3	1361.000500	TRUE	TRUE	TRUE	FALSE	0.201849	FALSE
4	368.917400	FALSE	FALSE	TRUE	FALSE	0.591283	FALSE
5	1055.898200	TRUE	TRUE	TRUE	FALSE	0.173525	FALSE
6	138.590120	FALSE	FALSE	FALSE	TRUE	0.148218	FALSE
7	1018.295960	TRUE	TRUE	TRUE	FALSE	1.277743	FALSE
8	426.502200	FALSE	TRUE	TRUE	FALSE	0.123943	FALSE
9	2102.977500	TRUE	TRUE	TRUE	FALSE	0.261546	FALSE
10	256.713560	FALSE	FALSE	TRUE	FALSE	0.199990	FALSE
11	1886.212200	TRUE	TRUE	TRUE	FALSE	0.040415	TRUE
12	426.502200	FALSE	TRUE	TRUE	FALSE	0.400353	FALSE
13	475.516240	FALSE	TRUE	TRUE	FALSE	0.213861	FALSE
14	4039.235800	TRUE	TRUE	TRUE	FALSE	0.290158	FALSE
15	493.075470	FALSE	TRUE	TRUE	FALSE	0.210664	FALSE
16	185.232220	FALSE	FALSE	FALSE	TRUE	0.107988	FALSE
17	64.717780	FALSE	FALSE	FALSE	TRUE	0.269349	FALSE
18	2810.728500	TRUE	TRUE	TRUE	FALSE	0.475915	FALSE
19	0.000000	FALSE	FALSE	FALSE	TRUE	0.255312	FALSE
20	10000.000000	TRUE	TRUE	TRUE	FALSE	0.224709	FALSE
21	426.502200	FALSE	TRUE	TRUE	FALSE	0.186745	FALSE
22	1055.898200	TRUE	TRUE	TRUE	FALSE	0.059085	TRUE
23	4039.235800	TRUE	TRUE	TRUE	FALSE	0.016389	TRUE
24	138.590120	FALSE	FALSE	FALSE	TRUE	0.226608	FALSE
25	761.885600	FALSE	TRUE	TRUE	FALSE	0.609028	FALSE
26	1517.408000	TRUE	TRUE	TRUE	FALSE	0.182979	FALSE
27	25.210114	FALSE	FALSE	FALSE	TRUE	0.073484	TRUE
28	3249.458700	TRUE	TRUE	TRUE	FALSE	0.579931	FALSE
29	64.717780	FALSE	FALSE	FALSE	TRUE	0.172263	FALSE
30	683.353900	FALSE	TRUE	TRUE	FALSE	1.167196	FALSE
31	0.000000	FALSE	FALSE	FALSE	TRUE	0.280782	FALSE
32	2431.234100	TRUE	TRUE	TRUE	FALSE	0.082599	TRUE
33	426.502200	FALSE	TRUE	TRUE	FALSE	0.396451	FALSE
34	4039.235800	TRUE	TRUE	TRUE	FALSE	0.257413	FALSE
35	3622.889600	TRUE	TRUE	TRUE	FALSE	0.043225	TRUE
36	1135.319600	TRUE	TRUE	TRUE	FALSE	0.218993	FALSE
37	3022.142600	TRUE	TRUE	TRUE	FALSE	2.553447	FALSE
38	2431.234100	TRUE	TRUE	TRUE	FALSE	0.144393	FALSE
39	2431.234100	TRUE	TRUE	TRUE	FALSE	23.813972	FALSE
40	48.421627	FALSE	FALSE	FALSE	TRUE	0.028319	TRUE
41	426.502200	FALSE	TRUE	TRUE	FALSE	9.864545	FALSE
42	790.019500	FALSE	TRUE	TRUE	FALSE	0.187347	FALSE
43	40.392357	FALSE	FALSE	FALSE	TRUE	3.038946	FALSE
44	0.000000	FALSE	FALSE	FALSE	TRUE	0.283727	FALSE

45	2261.157000	TRUE	TRUE	TRUE	FALSE	0.516173	FALSE
46	382.540280	FALSE	FALSE	TRUE	FALSE	0.727481	FALSE
47	1018.295960	TRUE	TRUE	TRUE	FALSE	0.212025	FALSE
48	5597.982000	TRUE	TRUE	TRUE	FALSE	0.440074	FALSE
49	1955.863600	TRUE	TRUE	TRUE	FALSE	0.211762	FALSE
50	55.979820	FALSE	FALSE	FALSE	TRUE	0.888201	FALSE
51	8044.736300	TRUE	TRUE	TRUE	FALSE	0.236166	FALSE
52	1411.257600	TRUE	TRUE	TRUE	FALSE	0.254033	FALSE
53	382.540280	FALSE	FALSE	TRUE	FALSE	3.292003	FALSE
54	119.878180	FALSE	FALSE	FALSE	TRUE	0.270268	FALSE
55	947.061000	TRUE	TRUE	TRUE	FALSE	0.341335	FALSE
56	880.809300	TRUE	TRUE	TRUE	FALSE	0.386664	FALSE
57	2102.977500	TRUE	TRUE	TRUE	FALSE	0.183578	FALSE
58	426.502200	FALSE	TRUE	TRUE	FALSE	0.109560	FALSE
59	230.252700	FALSE	FALSE	TRUE	FALSE	4.300162	FALSE
60	3622.889600	TRUE	TRUE	TRUE	FALSE	0.160779	FALSE
61	6019.044400	TRUE	TRUE	TRUE	FALSE	0.383060	FALSE
62	5597.982000	TRUE	TRUE	TRUE	FALSE	0.184328	FALSE
63	1573.440800	TRUE	TRUE	TRUE	FALSE	0.759833	FALSE
64	0.000000	FALSE	FALSE	FALSE	TRUE	0.386547	FALSE
65	1135.319600	TRUE	TRUE	TRUE	FALSE	4.653035	FALSE
66	296.784300	FALSE	FALSE	TRUE	FALSE	1.219406	FALSE
67	1055.898200	TRUE	TRUE	TRUE	FALSE	0.770183	FALSE
68	40.392357	FALSE	FALSE	FALSE	TRUE	2.931848	FALSE
69	67.107590	FALSE	FALSE	FALSE	TRUE	0.890209	FALSE
70	761.885600	FALSE	TRUE	TRUE	FALSE	2.795403	FALSE
71	58.046967	FALSE	FALSE	FALSE	TRUE	0.309267	FALSE
72	1018.295960	TRUE	TRUE	TRUE	FALSE	0.480806	FALSE
73	192.072220	FALSE	FALSE	FALSE	TRUE	0.294766	FALSE
74	256.713560	FALSE	FALSE	TRUE	FALSE	0.260981	FALSE
75	1135.319600	TRUE	TRUE	TRUE	FALSE	1.231092	FALSE
76	396.666200	FALSE	FALSE	TRUE	FALSE	0.265291	FALSE
77	683.353900	FALSE	TRUE	TRUE	FALSE	0.121772	FALSE
78	2261.157000	TRUE	TRUE	TRUE	FALSE	0.042667	TRUE
79	426.502200	FALSE	TRUE	TRUE	FALSE	20.179808	FALSE
80	25.210114	FALSE	FALSE	FALSE	TRUE	0.465010	FALSE
81	570.040200	FALSE	TRUE	TRUE	FALSE	0.562783	FALSE
82	43.430546	FALSE	FALSE	FALSE	TRUE	0.048752	TRUE
83	0.000000	FALSE	FALSE	FALSE	TRUE	0.103804	FALSE
84	3133.740200	TRUE	TRUE	TRUE	FALSE	0.186950	FALSE
85	222.053020	FALSE	FALSE	TRUE	FALSE	0.073466	TRUE
86	40.392357	FALSE	FALSE	FALSE	TRUE	2.920324	FALSE
87	3622.889600	TRUE	TRUE	TRUE	FALSE	0.238376	FALSE
88	266.193150	FALSE	FALSE	TRUE	FALSE	0.344684	FALSE
89	0.000000	FALSE	FALSE	FALSE	TRUE	0.281706	FALSE
90	296.784300	FALSE	FALSE	TRUE	FALSE	0.284722	FALSE
91	3249.458700	TRUE	TRUE	TRUE	FALSE	0.173890	FALSE
92	256.713560	FALSE	FALSE	TRUE	FALSE	0.320550	FALSE
93	2431.234100	TRUE	TRUE	TRUE	FALSE	25.047054	FALSE
94	1631.542600	TRUE	TRUE	TRUE	FALSE	0.168634	FALSE

95	256.713560	FALSE	FALSE	TRUE	FALSE	0.209474	FALSE
96	38.953922	FALSE	FALSE	FALSE	TRUE	3.509740	FALSE
97	1361.000500	TRUE	TRUE	TRUE	FALSE	1.208641	FALSE
98	2261.157000	TRUE	TRUE	TRUE	FALSE	0.079219	TRUE
99	1055.898200	TRUE	TRUE	TRUE	FALSE	0.234715	FALSE
100	761.885600	FALSE	TRUE	TRUE	FALSE	0.908098	FALSE
101	3249.458700	TRUE	TRUE	TRUE	FALSE	0.751233	FALSE
102	214.145360	FALSE	FALSE	TRUE	FALSE	0.469080	FALSE
103	761.885600	FALSE	TRUE	TRUE	FALSE	0.218146	FALSE
104	442.251460	FALSE	TRUE	TRUE	FALSE	0.146082	FALSE
105	247.571580	FALSE	FALSE	TRUE	FALSE	0.253302	FALSE
106	1055.898200	TRUE	TRUE	TRUE	FALSE	0.444015	FALSE
107	3133.740200	TRUE	TRUE	TRUE	FALSE	0.042110	TRUE
108	38.953922	FALSE	FALSE	FALSE	TRUE	0.329159	FALSE
109	2710.633800	TRUE	TRUE	TRUE	FALSE	0.557522	FALSE
110	5206.375000	TRUE	TRUE	TRUE	FALSE	0.243227	FALSE
111	382.540280	FALSE	FALSE	TRUE	FALSE	3.564925	FALSE
112	570.040200	FALSE	TRUE	TRUE	FALSE	0.031867	TRUE
113	330.891050	FALSE	FALSE	TRUE	FALSE	0.377676	FALSE
114	103.692665	FALSE	FALSE	FALSE	TRUE	0.137674	FALSE
115	2261.157000	TRUE	TRUE	TRUE	FALSE	0.242436	FALSE
116	3622.889600	TRUE	TRUE	TRUE	FALSE	0.234734	FALSE
117	0.000000	FALSE	FALSE	FALSE	TRUE	0.285020	FALSE
118	172.274290	FALSE	FALSE	FALSE	TRUE	0.140410	FALSE
119	982.032800	TRUE	TRUE	TRUE	FALSE	0.377823	FALSE
120	761.885600	FALSE	TRUE	TRUE	FALSE	6.630430	FALSE
121	761.885600	FALSE	TRUE	TRUE	FALSE	0.630630	FALSE
122	913.334600	TRUE	TRUE	TRUE	FALSE	0.193617	FALSE
123	62.413080	FALSE	FALSE	FALSE	TRUE	0.088911	TRUE
124	382.540280	FALSE	FALSE	TRUE	FALSE	0.732584	FALSE
125	3895.392000	TRUE	TRUE	TRUE	FALSE	0.204509	FALSE
126	2344.653800	TRUE	TRUE	TRUE	FALSE	0.066011	TRUE
127	982.032800	TRUE	TRUE	TRUE	FALSE	0.340885	FALSE
128	6471.778300	TRUE	TRUE	TRUE	FALSE	0.218392	FALSE
129	1135.319600	TRUE	TRUE	TRUE	FALSE	0.223294	FALSE
130	947.061000	TRUE	TRUE	TRUE	FALSE	0.146818	FALSE
131	5020.967300	TRUE	TRUE	TRUE	FALSE	0.418697	FALSE
132	426.502200	FALSE	TRUE	TRUE	FALSE	0.428870	FALSE
133	107.521680	FALSE	FALSE	FALSE	TRUE	0.533255	FALSE
134	1135.319600	TRUE	TRUE	TRUE	FALSE	4.430470	FALSE
135	790.019500	FALSE	TRUE	TRUE	FALSE	0.322604	FALSE
136	2431.234100	TRUE	TRUE	TRUE	FALSE	55.900999	FALSE
137	913.334600	TRUE	TRUE	TRUE	FALSE	0.619898	FALSE
138	143.707800	FALSE	FALSE	FALSE	TRUE	0.736078	FALSE
139	3622.889600	TRUE	TRUE	TRUE	FALSE	0.332617	FALSE
140	1517.408000	TRUE	TRUE	TRUE	FALSE	0.232726	FALSE
141	1055.898200	TRUE	TRUE	TRUE	FALSE	0.135391	FALSE
142	4188.391000	TRUE	TRUE	TRUE	FALSE	0.234844	FALSE
143	25.210114	FALSE	FALSE	FALSE	TRUE	0.311569	FALSE
144	2102.977500	TRUE	TRUE	TRUE	FALSE	0.215700	FALSE

145	849.442260	TRUE	TRUE	TRUE FALSE	0.202599	FALSE
146	34.938730	FALSE	FALSE	FALSE TRUE	0.413479	FALSE
147	1886.212200	TRUE	TRUE	TRUE FALSE	0.119382	FALSE
148	2261.157000	TRUE	TRUE	TRUE FALSE	0.378442	FALSE
149	4188.391000	TRUE	TRUE	TRUE FALSE	0.194631	FALSE
150	247.571580	FALSE	FALSE	TRUE FALSE	0.223994	FALSE
151	0.000000	FALSE	FALSE	FALSE TRUE	0.153117	FALSE
152	4669.725600	TRUE	TRUE	TRUE FALSE	0.804651	FALSE
153	2810.728500	TRUE	TRUE	TRUE FALSE	0.270832	FALSE
154	2810.728500	TRUE	TRUE	TRUE FALSE	0.734848	FALSE
155	913.334600	TRUE	TRUE	TRUE FALSE	0.122982	FALSE
156	2431.234100	TRUE	TRUE	TRUE FALSE	0.141405	FALSE
157	62.413080	FALSE	FALSE	FALSE TRUE	0.164146	FALSE
158	256.713560	FALSE	FALSE	TRUE FALSE	0.444878	FALSE
159	2431.234100	TRUE	TRUE	TRUE FALSE	0.331310	FALSE
160	368.917400	FALSE	FALSE	TRUE FALSE	0.198089	FALSE
161	411.313750	FALSE	TRUE	TRUE FALSE	0.184750	FALSE
162	199.164810	FALSE	FALSE	FALSE TRUE	0.160276	FALSE
163	2261.157000	TRUE	TRUE	TRUE FALSE	0.098322	TRUE
164	761.885600	FALSE	TRUE	TRUE FALSE	0.317952	FALSE
165	6241.307600	TRUE	TRUE	TRUE FALSE	0.225758	FALSE
166	4669.725600	TRUE	TRUE	TRUE FALSE	0.280699	FALSE
167	1094.888900	TRUE	TRUE	TRUE FALSE	5.048011	FALSE
168	761.885600	FALSE	TRUE	TRUE FALSE	0.869953	FALSE
169	1573.440800	TRUE	TRUE	TRUE FALSE	0.050139	TRUE
170	458.582340	FALSE	TRUE	TRUE FALSE	0.221099	FALSE
171	1055.898200	TRUE	TRUE	TRUE FALSE	0.604699	FALSE
172	849.442260	TRUE	TRUE	TRUE FALSE	0.463192	FALSE
173	160.222840	FALSE	FALSE	FALSE TRUE	1.824068	FALSE
174	138.590120	FALSE	FALSE	FALSE TRUE	2.339596	FALSE
175	734.753600	FALSE	TRUE	TRUE FALSE	0.304428	FALSE
176	1955.863600	TRUE	TRUE	TRUE FALSE	0.453822	FALSE
177	442.251460	FALSE	TRUE	TRUE FALSE	0.317316	FALSE
178	4669.725600	TRUE	TRUE	TRUE FALSE	0.393980	FALSE
179	635.549800	FALSE	TRUE	TRUE FALSE	0.928867	FALSE
180	2102.977500	TRUE	TRUE	TRUE FALSE	0.117494	FALSE
181	426.502200	FALSE	TRUE	TRUE FALSE	0.319524	FALSE
182	761.885600	FALSE	TRUE	TRUE FALSE	0.401356	FALSE
183	1018.295960	TRUE	TRUE	TRUE FALSE	0.568120	FALSE
184	296.784300	FALSE	FALSE	TRUE FALSE	3.095946	FALSE
185	0.000000	FALSE	FALSE	FALSE TRUE	0.305654	FALSE
186	4188.391000	TRUE	TRUE	TRUE FALSE	0.084360	TRUE
187	570.040200	FALSE	TRUE	TRUE FALSE	0.560569	FALSE
188	93.004490	FALSE	FALSE	FALSE TRUE	0.391458	FALSE
189	0.000000	FALSE	FALSE	FALSE TRUE	0.365300	FALSE
190	86.498360	FALSE	FALSE	FALSE TRUE	2.244386	FALSE
191	50.209675	FALSE	FALSE	FALSE TRUE	0.059467	TRUE
192	0.000000	FALSE	FALSE	FALSE TRUE	0.375059	FALSE
193	9643.884000	TRUE	TRUE	TRUE FALSE	0.249883	FALSE
194	2261.157000	TRUE	TRUE	TRUE FALSE	0.507387	FALSE

195	18.862122	FALSE	FALSE	FALSE	TRUE	0.328277	FALSE
196	426.502200	FALSE	TRUE	TRUE	FALSE	0.235427	FALSE
197	947.061000	TRUE	TRUE	TRUE	FALSE	3.641917	FALSE
198	115.609130	FALSE	FALSE	FALSE	TRUE	0.883897	FALSE
199	947.061000	TRUE	TRUE	TRUE	FALSE	0.656379	FALSE
200	296.784300	FALSE	FALSE	TRUE	FALSE	0.210202	FALSE
201	18.862122	FALSE	FALSE	FALSE	TRUE	2.439506	FALSE
202	1411.257600	TRUE	TRUE	TRUE	FALSE	0.361526	FALSE
203	2431.234100	TRUE	TRUE	TRUE	FALSE	0.109411	FALSE
204	9643.884000	TRUE	TRUE	TRUE	FALSE	0.143732	FALSE
205	475.516240	FALSE	TRUE	TRUE	FALSE	0.516899	FALSE
206	138.590120	FALSE	FALSE	FALSE	TRUE	0.194846	FALSE
207	1055.898200	TRUE	TRUE	TRUE	FALSE	1.773556	FALSE
208	1955.863600	TRUE	TRUE	TRUE	FALSE	0.211762	FALSE
209	5804.697000	TRUE	TRUE	TRUE	FALSE	0.332775	FALSE
210	4039.235800	TRUE	TRUE	TRUE	FALSE	0.474922	FALSE
211	107.521680	FALSE	FALSE	FALSE	TRUE	0.072188	TRUE
212	1055.898200	TRUE	TRUE	TRUE	FALSE	0.175332	FALSE
213	1886.212200	TRUE	TRUE	TRUE	FALSE	0.032295	TRUE
214	2102.977500	TRUE	TRUE	TRUE	FALSE	0.034744	TRUE
215	160.222840	FALSE	FALSE	FALSE	TRUE	0.076048	TRUE
216	107.521680	FALSE	FALSE	FALSE	TRUE	0.333145	FALSE
217	0.000000	FALSE	FALSE	FALSE	TRUE	0.178904	FALSE
218	1631.542600	TRUE	TRUE	TRUE	FALSE	0.025760	TRUE
219	426.502200	FALSE	TRUE	TRUE	FALSE	0.372743	FALSE
220	0.000000	FALSE	FALSE	FALSE	TRUE	0.114337	FALSE
221	93.004490	FALSE	FALSE	FALSE	TRUE	0.857799	FALSE
222	761.885600	FALSE	TRUE	TRUE	FALSE	0.926941	FALSE
223	178.635800	FALSE	FALSE	FALSE	TRUE	1.245333	FALSE
224	570.040200	FALSE	TRUE	TRUE	FALSE	0.126828	FALSE
225	493.075470	FALSE	TRUE	TRUE	FALSE	0.175521	FALSE
226	659.018550	FALSE	TRUE	TRUE	FALSE	0.118337	FALSE
227	149.014430	FALSE	FALSE	FALSE	TRUE	3.066171	FALSE
228	1055.898200	TRUE	TRUE	TRUE	FALSE	0.091868	TRUE
229	25.210114	FALSE	FALSE	FALSE	TRUE	0.744243	FALSE
230	330.891050	FALSE	FALSE	TRUE	FALSE	0.243231	FALSE
231	256.713560	FALSE	FALSE	TRUE	FALSE	0.215790	FALSE
232	111.492096	FALSE	FALSE	FALSE	TRUE	0.247689	FALSE
233	38.953922	FALSE	FALSE	FALSE	TRUE	0.032325	TRUE
234	1135.319600	TRUE	TRUE	TRUE	FALSE	4.427568	FALSE
235	426.502200	FALSE	TRUE	TRUE	FALSE	1.248560	FALSE
236	849.442260	TRUE	TRUE	TRUE	FALSE	1.083551	FALSE
237	458.582340	FALSE	TRUE	TRUE	FALSE	3.340507	FALSE
238	475.516240	FALSE	TRUE	TRUE	FALSE	4.632544	FALSE
239	849.442260	TRUE	TRUE	TRUE	FALSE	0.154202	FALSE
240	34.938730	FALSE	FALSE	FALSE	TRUE	0.443516	FALSE
241	25.210114	FALSE	FALSE	FALSE	TRUE	0.440614	FALSE
242	880.809300	TRUE	TRUE	TRUE	FALSE	0.117054	FALSE
243	86.498360	FALSE	FALSE	FALSE	TRUE	0.218878	FALSE
244	475.516240	FALSE	TRUE	TRUE	FALSE	1.329609	FALSE

245	41.883910	FALSE	FALSE	FALSE	TRUE	0.165470	FALSE
246	89.692450	FALSE	FALSE	FALSE	TRUE	0.074659	TRUE
247	266.193150	FALSE	FALSE	TRUE	FALSE	0.067985	TRUE
248	475.516240	FALSE	TRUE	TRUE	FALSE	3.011186	FALSE
249	947.061000	TRUE	TRUE	TRUE	FALSE	0.371013	FALSE
250	4842.162600	TRUE	TRUE	TRUE	FALSE	0.108440	FALSE
251	1463.370600	TRUE	TRUE	TRUE	FALSE	0.247316	FALSE
252	1955.863600	TRUE	TRUE	TRUE	FALSE	0.100105	FALSE
253	1177.243000	TRUE	TRUE	TRUE	FALSE	0.116220	FALSE
254	9643.884000	TRUE	TRUE	TRUE	FALSE	0.503627	FALSE
255	426.502200	FALSE	TRUE	TRUE	FALSE	9.614691	FALSE
256	1055.898200	TRUE	TRUE	TRUE	FALSE	0.073041	TRUE
257	913.334600	TRUE	TRUE	TRUE	FALSE	0.346656	FALSE
258	2431.234100	TRUE	TRUE	TRUE	FALSE	0.245037	FALSE
259	25.210114	FALSE	FALSE	FALSE	TRUE	0.427905	FALSE
260	192.072220	FALSE	FALSE	FALSE	TRUE	0.298536	FALSE
261	426.502200	FALSE	TRUE	TRUE	FALSE	9.924856	FALSE
262	411.313750	FALSE	TRUE	TRUE	FALSE	0.297016	FALSE
263	111.492096	FALSE	FALSE	FALSE	TRUE	0.619545	FALSE
264	612.916900	FALSE	TRUE	TRUE	FALSE	6.180030	FALSE
265	96.438835	FALSE	FALSE	FALSE	TRUE	1.107835	FALSE
266	1955.863600	TRUE	TRUE	TRUE	FALSE	0.637515	FALSE
267	43.430546	FALSE	FALSE	FALSE	TRUE	0.194496	FALSE
268	6241.307600	TRUE	TRUE	TRUE	FALSE	0.722174	FALSE
269	247.571580	FALSE	FALSE	TRUE	FALSE	1.543890	FALSE
270	7758.250000	TRUE	TRUE	TRUE	FALSE	0.084639	TRUE
271	1463.370600	TRUE	TRUE	TRUE	FALSE	0.703247	FALSE
272	256.713560	FALSE	FALSE	TRUE	FALSE	0.145702	FALSE
273	683.353900	FALSE	TRUE	TRUE	FALSE	0.295201	FALSE
274	2521.011500	TRUE	TRUE	TRUE	FALSE	0.448977	FALSE
275	10000.000000	TRUE	TRUE	TRUE	FALSE	0.229658	FALSE
276	849.442260	TRUE	TRUE	TRUE	FALSE	0.447835	FALSE
277	2521.011500	TRUE	TRUE	TRUE	FALSE	0.213701	FALSE
278	1361.000500	TRUE	TRUE	TRUE	FALSE	0.443285	FALSE
279	1018.295960	TRUE	TRUE	TRUE	FALSE	0.457610	FALSE
280	683.353900	FALSE	TRUE	TRUE	FALSE	0.399369	FALSE
281	18.862122	FALSE	FALSE	FALSE	TRUE	2.094821	FALSE
282	38.953922	FALSE	FALSE	FALSE	TRUE	0.506044	FALSE
283	426.502200	FALSE	TRUE	TRUE	FALSE	0.173491	FALSE
284	1463.370600	TRUE	TRUE	TRUE	FALSE	0.785897	FALSE
285	1754.262100	TRUE	TRUE	TRUE	FALSE	1.386332	FALSE
286	761.885600	FALSE	TRUE	TRUE	FALSE	0.163485	FALSE
287	38.953922	FALSE	FALSE	FALSE	TRUE	1.371202	FALSE
288	458.582340	FALSE	TRUE	TRUE	FALSE	1.026229	FALSE
289	913.334600	TRUE	TRUE	TRUE	FALSE	1.040733	FALSE
290	0.000000	FALSE	FALSE	FALSE	TRUE	0.682496	FALSE
291	1955.863600	TRUE	TRUE	TRUE	FALSE	0.559991	FALSE
292	1631.542600	TRUE	TRUE	TRUE	FALSE	0.820666	FALSE
293	5206.375000	TRUE	TRUE	TRUE	FALSE	0.127534	FALSE
294	256.713560	FALSE	FALSE	TRUE	FALSE	0.127469	FALSE

295	185.232220	FALSE	FALSE	FALSE	TRUE	0.119864	FALSE
296	1517.408000	TRUE	TRUE	TRUE	FALSE	0.012170	TRUE
297	50.209675	FALSE	FALSE	FALSE	TRUE	0.336237	FALSE
298	0.000000	FALSE	FALSE	FALSE	TRUE	0.043826	TRUE
299	659.018550	FALSE	TRUE	TRUE	FALSE	0.252958	FALSE
300	426.502200	FALSE	TRUE	TRUE	FALSE	0.340714	FALSE
301	25.210114	FALSE	FALSE	FALSE	TRUE	4.419181	FALSE
302	1055.898200	TRUE	TRUE	TRUE	FALSE	0.154187	FALSE
303	1312.533000	TRUE	TRUE	TRUE	FALSE	0.125821	FALSE
304	21.806335	FALSE	FALSE	FALSE	TRUE	15.261386	FALSE
305	0.000000	FALSE	FALSE	FALSE	TRUE	0.202368	FALSE
306	2431.234100	TRUE	TRUE	TRUE	FALSE	0.152602	FALSE
307	111.492096	FALSE	FALSE	FALSE	TRUE	0.226978	FALSE
308	3622.889600	TRUE	TRUE	TRUE	FALSE	0.144807	FALSE
309	1094.888900	TRUE	TRUE	TRUE	FALSE	0.113829	FALSE
310	368.917400	FALSE	FALSE	TRUE	FALSE	0.505645	FALSE
311	475.516240	FALSE	TRUE	TRUE	FALSE	0.037504	TRUE
312	3622.889600	TRUE	TRUE	TRUE	FALSE	0.266527	FALSE
313	475.516240	FALSE	TRUE	TRUE	FALSE	0.623611	FALSE
314	0.000000	FALSE	FALSE	FALSE	TRUE	3.695032	FALSE
315	570.040200	FALSE	TRUE	TRUE	FALSE	0.151057	FALSE
316	40.392357	FALSE	FALSE	FALSE	TRUE	3.176434	FALSE
317	1177.243000	TRUE	TRUE	TRUE	FALSE	22.880993	FALSE
318	1754.262100	TRUE	TRUE	TRUE	FALSE	0.842291	FALSE
319	1631.542600	TRUE	TRUE	TRUE	FALSE	0.959506	FALSE
320	1517.408000	TRUE	TRUE	TRUE	FALSE	0.862198	FALSE
321	178.635800	FALSE	FALSE	FALSE	TRUE	0.550915	FALSE
322	530.163000	FALSE	TRUE	TRUE	FALSE	0.215629	FALSE
323	1055.898200	TRUE	TRUE	TRUE	FALSE	0.149906	FALSE
324	0.000000	FALSE	FALSE	FALSE	TRUE	3.471531	FALSE
325	1055.898200	TRUE	TRUE	TRUE	FALSE	1.526814	FALSE
326	0.000000	FALSE	FALSE	FALSE	TRUE	0.387983	FALSE
327	296.784300	FALSE	FALSE	TRUE	FALSE	0.340311	FALSE
328	43.430546	FALSE	FALSE	FALSE	TRUE	0.145139	FALSE
329	458.582340	FALSE	TRUE	TRUE	FALSE	1.317510	FALSE
330	138.590120	FALSE	FALSE	FALSE	TRUE	0.205667	FALSE
331	77.582504	FALSE	FALSE	FALSE	TRUE	0.458725	FALSE
332	3.077436	FALSE	FALSE	FALSE	TRUE	0.090752	TRUE
333	947.061000	TRUE	TRUE	TRUE	FALSE	0.587958	FALSE
334	38.953922	FALSE	FALSE	FALSE	TRUE	1.268817	FALSE
335	2028.087200	TRUE	TRUE	TRUE	FALSE	0.335583	FALSE
336	86.498360	FALSE	FALSE	FALSE	TRUE	1.765274	FALSE
337	138.590120	FALSE	FALSE	FALSE	TRUE	1.165601	FALSE
338	3622.889600	TRUE	TRUE	TRUE	FALSE	0.011200	TRUE
339	10000.000000	TRUE	TRUE	TRUE	FALSE	0.152901	FALSE
340	570.040200	FALSE	TRUE	TRUE	FALSE	0.075295	TRUE
341	138.590120	FALSE	FALSE	FALSE	TRUE	0.200566	FALSE
342	1018.295960	TRUE	TRUE	TRUE	FALSE	0.547601	FALSE
343	0.000000	FALSE	FALSE	FALSE	TRUE	0.333922	FALSE
344	2431.234100	TRUE	TRUE	TRUE	FALSE	0.152602	FALSE

345	880.809300	TRUE	TRUE	TRUE	FALSE	0.460436	FALSE
346	2431.234100	TRUE	TRUE	TRUE	FALSE	0.062957	TRUE
347	192.072220	FALSE	FALSE	FALSE	TRUE	0.252706	FALSE
348	55.979820	FALSE	FALSE	FALSE	TRUE	0.532633	FALSE
349	256.713560	FALSE	FALSE	TRUE	FALSE	0.443553	FALSE
350	214.145360	FALSE	FALSE	TRUE	FALSE	3.741960	FALSE
351	0.000000	FALSE	FALSE	FALSE	TRUE	0.393248	FALSE
352	3622.889600	TRUE	TRUE	TRUE	FALSE	0.283180	FALSE
353	4039.235800	TRUE	TRUE	TRUE	FALSE	0.079332	TRUE
354	947.061000	TRUE	TRUE	TRUE	FALSE	0.291869	FALSE
355	34.938730	FALSE	FALSE	FALSE	TRUE	0.524511	FALSE
356	426.502200	FALSE	TRUE	TRUE	FALSE	1.242557	FALSE
357	708.587800	FALSE	TRUE	TRUE	FALSE	2.343285	FALSE
358	1018.295960	TRUE	TRUE	TRUE	FALSE	0.559629	FALSE
359	41.883910	FALSE	FALSE	FALSE	TRUE	3.178632	FALSE
360	38.953922	FALSE	FALSE	FALSE	TRUE	0.442677	FALSE
361	0.000000	FALSE	FALSE	FALSE	TRUE	3.647794	FALSE
362	1055.898200	TRUE	TRUE	TRUE	FALSE	0.326756	FALSE
363	1361.000500	TRUE	TRUE	TRUE	FALSE	0.184480	FALSE
364	2261.157000	TRUE	TRUE	TRUE	FALSE	0.332672	FALSE
365	185.232220	FALSE	FALSE	FALSE	TRUE	0.345207	FALSE
366	2261.157000	TRUE	TRUE	TRUE	FALSE	0.192841	FALSE
367	947.061000	TRUE	TRUE	TRUE	FALSE	0.130656	FALSE
368	160.222840	FALSE	FALSE	FALSE	TRUE	0.605347	FALSE
369	1265.791600	TRUE	TRUE	TRUE	FALSE	1.185962	FALSE
370	849.442260	TRUE	TRUE	TRUE	FALSE	1.934011	FALSE
371	12.207147	FALSE	FALSE	FALSE	TRUE	1.940013	FALSE
372	0.000000	FALSE	FALSE	FALSE	TRUE	0.315940	FALSE
373	40.392357	FALSE	FALSE	FALSE	TRUE	0.767127	FALSE
374	296.784300	FALSE	FALSE	TRUE	FALSE	0.362923	FALSE
375	149.014430	FALSE	FALSE	FALSE	TRUE	3.025374	FALSE
376	1631.542600	TRUE	TRUE	TRUE	FALSE	0.084823	TRUE
377	426.502200	FALSE	TRUE	TRUE	FALSE	9.786660	FALSE
378	411.313750	FALSE	TRUE	TRUE	FALSE	5.386685	FALSE
379	0.000000	FALSE	FALSE	FALSE	TRUE	0.041381	TRUE
380	849.442260	TRUE	TRUE	TRUE	FALSE	0.469112	FALSE
381	2180.633500	TRUE	TRUE	TRUE	FALSE	0.138619	FALSE
382	1463.370600	TRUE	TRUE	TRUE	FALSE	0.732516	FALSE
383	1018.295960	TRUE	TRUE	TRUE	FALSE	0.333051	FALSE
384	296.784300	FALSE	FALSE	TRUE	FALSE	0.353692	FALSE
385	426.502200	FALSE	TRUE	TRUE	FALSE	0.611132	FALSE
386	138.590120	FALSE	FALSE	FALSE	TRUE	0.127234	FALSE
387	3249.458700	TRUE	TRUE	TRUE	FALSE	0.636538	FALSE
388	72.155210	FALSE	FALSE	FALSE	TRUE	0.447929	FALSE
389	2028.087200	TRUE	TRUE	TRUE	FALSE	0.370529	FALSE
390	458.582340	FALSE	TRUE	TRUE	FALSE	0.518681	FALSE
391	0.000000	FALSE	FALSE	FALSE	TRUE	0.196723	FALSE
392	683.353900	FALSE	TRUE	TRUE	FALSE	0.287445	FALSE
393	0.000000	FALSE	FALSE	FALSE	TRUE	0.073067	TRUE
394	913.334600	TRUE	TRUE	TRUE	FALSE	0.515028	FALSE

395	230.252700	FALSE	FALSE	TRUE	FALSE	0.595119	FALSE
396	475.516240	FALSE	TRUE	TRUE	FALSE	0.715597	FALSE
397	38.953922	FALSE	FALSE	FALSE	TRUE	0.470942	FALSE
398	612.916900	FALSE	TRUE	TRUE	FALSE	0.506776	FALSE
399	1055.898200	TRUE	TRUE	TRUE	FALSE	0.148476	FALSE
400	2810.728500	TRUE	TRUE	TRUE	FALSE	0.442025	FALSE
401	511.283080	FALSE	TRUE	TRUE	FALSE	2.387006	FALSE
402	0.000000	FALSE	FALSE	FALSE	TRUE	0.122806	FALSE
403	256.713560	FALSE	FALSE	TRUE	FALSE	0.418505	FALSE
404	982.032800	TRUE	TRUE	TRUE	FALSE	0.650602	FALSE
405	570.040200	FALSE	TRUE	TRUE	FALSE	0.852083	FALSE
406	1135.319600	TRUE	TRUE	TRUE	FALSE	0.091419	TRUE
407	133.654710	FALSE	FALSE	FALSE	TRUE	0.748600	FALSE
408	2431.234100	TRUE	TRUE	TRUE	FALSE	0.442795	FALSE
409	1955.863600	TRUE	TRUE	TRUE	FALSE	0.480368	FALSE
410	591.089900	FALSE	TRUE	TRUE	FALSE	0.028059	TRUE
411	4842.162600	TRUE	TRUE	TRUE	FALSE	0.510662	FALSE
412	276.022770	FALSE	FALSE	TRUE	FALSE	0.283822	FALSE
413	1265.791600	TRUE	TRUE	TRUE	FALSE	0.521318	FALSE
414	43.430546	FALSE	FALSE	FALSE	TRUE	3.386431	FALSE
415	38.953922	FALSE	FALSE	FALSE	TRUE	0.011775	TRUE
416	530.163000	FALSE	TRUE	TRUE	FALSE	0.202925	FALSE
417	18.862122	FALSE	FALSE	FALSE	TRUE	0.136007	FALSE
418	38.953922	FALSE	FALSE	FALSE	TRUE	0.258094	FALSE
419	2810.728500	TRUE	TRUE	TRUE	FALSE	0.042828	TRUE
420	2810.728500	TRUE	TRUE	TRUE	FALSE	0.540235	FALSE
421	1463.370600	TRUE	TRUE	TRUE	FALSE	0.363381	FALSE
422	426.502200	FALSE	TRUE	TRUE	FALSE	0.188504	FALSE
423	2102.977500	TRUE	TRUE	TRUE	FALSE	0.242314	FALSE
424	62.413080	FALSE	FALSE	FALSE	TRUE	0.298987	FALSE
425	683.353900	FALSE	TRUE	TRUE	FALSE	0.093791	TRUE
426	107.521680	FALSE	FALSE	FALSE	TRUE	0.562861	FALSE
427	2810.728500	TRUE	TRUE	TRUE	FALSE	0.206676	FALSE
428	1094.888900	TRUE	TRUE	TRUE	FALSE	0.077509	TRUE
429	659.018550	FALSE	TRUE	TRUE	FALSE	0.392758	FALSE
430	5597.982000	TRUE	TRUE	TRUE	FALSE	0.461077	FALSE
431	1135.319600	TRUE	TRUE	TRUE	FALSE	4.587326	FALSE
432	138.590120	FALSE	FALSE	FALSE	TRUE	0.348507	FALSE
433	214.145360	FALSE	FALSE	TRUE	FALSE	1.588826	FALSE
434	511.283080	FALSE	TRUE	TRUE	FALSE	0.445876	FALSE
435	296.784300	FALSE	FALSE	TRUE	FALSE	0.084148	TRUE
436	0.000000	FALSE	FALSE	FALSE	TRUE	304.912560	FALSE
437	849.442260	TRUE	TRUE	TRUE	FALSE	0.803978	FALSE
438	1631.542600	TRUE	TRUE	TRUE	FALSE	0.232216	FALSE
439	93.004490	FALSE	FALSE	FALSE	TRUE	0.333939	FALSE
440	214.145360	FALSE	FALSE	TRUE	FALSE	0.132915	FALSE
441	2431.234100	TRUE	TRUE	TRUE	FALSE	0.297625	FALSE
442	761.885600	FALSE	TRUE	TRUE	FALSE	0.863947	FALSE
443	475.516240	FALSE	TRUE	TRUE	FALSE	3.092898	FALSE
444	1055.898200	TRUE	TRUE	TRUE	FALSE	0.230813	FALSE

445	0.000000	FALSE	FALSE	FALSE	TRUE	0.188846	FALSE
446	2521.011500	TRUE	TRUE	TRUE FALSE	0.277154	FALSE
447	111.492096	FALSE	FALSE	FALSE	TRUE	0.702361	FALSE
448	1573.440800	TRUE	TRUE	TRUE FALSE	0.341255	FALSE
449	2431.234100	TRUE	TRUE	TRUE FALSE	0.772765	FALSE
450	62.413080	FALSE	FALSE	FALSE	TRUE	0.440576	FALSE
451	266.193150	FALSE	FALSE	TRUE FALSE	0.341663	FALSE
452	2810.728500	TRUE	TRUE	TRUE FALSE	0.174071	FALSE
453	115.609130	FALSE	FALSE	FALSE	TRUE	1.587084	FALSE
454	1055.898200	TRUE	TRUE	TRUE FALSE	0.632445	FALSE
455	138.590120	FALSE	FALSE	FALSE	TRUE	1.642855	FALSE
456	2102.977500	TRUE	TRUE	TRUE FALSE	0.078610	TRUE
457	1312.533000	TRUE	TRUE	TRUE FALSE	0.097080	TRUE
458	0.000000	FALSE	FALSE	FALSE	TRUE	0.175624	FALSE
459	426.502200	FALSE	TRUE	TRUE FALSE	0.214909	FALSE
460	1631.542600	TRUE	TRUE	TRUE FALSE	1.395725	FALSE
461	25.210114	FALSE	FALSE	FALSE	TRUE	0.144046	FALSE
462	1018.295960	TRUE	TRUE	TRUE FALSE	0.248004	FALSE
463	0.000000	FALSE	FALSE	FALSE	TRUE	3.483509	FALSE
464	160.222840	FALSE	FALSE	FALSE	TRUE	0.191072	FALSE
465	9643.884000	TRUE	TRUE	TRUE FALSE	0.354301	FALSE
466	160.222840	FALSE	FALSE	FALSE	TRUE	0.211129	FALSE
467	18.862122	FALSE	FALSE	FALSE	TRUE	1.183617	FALSE
468	34.938730	FALSE	FALSE	FALSE	TRUE	0.615101	FALSE
469	43.430546	FALSE	FALSE	FALSE	TRUE	0.198069	FALSE
470	10000.000000	TRUE	TRUE	TRUE FALSE	0.282298	FALSE
471	0.000000	FALSE	FALSE	FALSE	TRUE	0.299571	FALSE
472	1754.262100	TRUE	TRUE	TRUE FALSE	3.891691	FALSE
473	591.089900	FALSE	TRUE	TRUE FALSE	2.116782	FALSE
474	382.540280	FALSE	FALSE	TRUE FALSE	1.471094	FALSE
475	266.193150	FALSE	FALSE	TRUE FALSE	0.465079	FALSE
476	111.492096	FALSE	FALSE	FALSE	TRUE	2.519226	FALSE
477	1018.295960	TRUE	TRUE	TRUE FALSE	1.130239	FALSE
478	530.163000	FALSE	TRUE	TRUE FALSE	0.376155	FALSE
479	0.000000	FALSE	FALSE	FALSE	TRUE	0.079495	TRUE
480	683.353900	FALSE	TRUE	TRUE FALSE	0.158542	FALSE
481	635.549800	FALSE	TRUE	TRUE FALSE	0.777899	FALSE
482	1517.408000	TRUE	TRUE	TRUE FALSE	0.125099	FALSE
483	1055.898200	TRUE	TRUE	TRUE FALSE	0.855812	FALSE

	gymIn250m	gymIn500m	gymIn1000m	gymIn2500m	gymIn5000m	pokestopDistanceKm
1	FALSE	TRUE	TRUE	TRUE	TRUE	0.026995
2	TRUE	TRUE	TRUE	TRUE	TRUE	0.144224
3	TRUE	TRUE	TRUE	TRUE	TRUE	0.147702
4	FALSE	FALSE	TRUE	TRUE	TRUE	0.198507
5	TRUE	TRUE	TRUE	TRUE	TRUE	0.054630
6	TRUE	TRUE	TRUE	TRUE	TRUE	0.037897
7	FALSE	FALSE	FALSE	TRUE	TRUE	0.623501
8	TRUE	TRUE	TRUE	TRUE	TRUE	0.037991
9	FALSE	TRUE	TRUE	TRUE	TRUE	0.134527
10	TRUE	TRUE	TRUE	TRUE	TRUE	0.199990

11	TRUE	TRUE	TRUE	TRUE	TRUE	0.194447
12	FALSE	TRUE	TRUE	TRUE	TRUE	0.400353
13	TRUE	TRUE	TRUE	TRUE	TRUE	0.161195
14	FALSE	TRUE	TRUE	TRUE	TRUE	0.223304
15	TRUE	TRUE	TRUE	TRUE	TRUE	0.210664
16	TRUE	TRUE	TRUE	TRUE	TRUE	0.064418
17	FALSE	TRUE	TRUE	TRUE	TRUE	0.146426
18	FALSE	TRUE	TRUE	TRUE	TRUE	0.475915
19	FALSE	TRUE	TRUE	TRUE	TRUE	0.022080
20	TRUE	TRUE	TRUE	TRUE	TRUE	0.154628
21	TRUE	TRUE	TRUE	TRUE	TRUE	0.013831
22	TRUE	TRUE	TRUE	TRUE	TRUE	0.082846
23	TRUE	TRUE	TRUE	TRUE	TRUE	0.166016
24	TRUE	TRUE	TRUE	TRUE	TRUE	0.158592
25	FALSE	FALSE	TRUE	TRUE	TRUE	0.097065
26	TRUE	TRUE	TRUE	TRUE	TRUE	0.042348
27	TRUE	TRUE	TRUE	TRUE	TRUE	0.125634
28	FALSE	FALSE	TRUE	TRUE	TRUE	0.579931
29	TRUE	TRUE	TRUE	TRUE	TRUE	0.080867
30	FALSE	FALSE	FALSE	TRUE	TRUE	0.208148
31	FALSE	TRUE	TRUE	TRUE	TRUE	0.152682
32	TRUE	TRUE	TRUE	TRUE	TRUE	0.110999
33	FALSE	TRUE	TRUE	TRUE	TRUE	0.074471
34	FALSE	TRUE	TRUE	TRUE	TRUE	0.102124
35	TRUE	TRUE	TRUE	TRUE	TRUE	0.006341
36	TRUE	TRUE	TRUE	TRUE	TRUE	0.218993
37	FALSE	FALSE	FALSE	FALSE	TRUE	1.287279
38	TRUE	TRUE	TRUE	TRUE	TRUE	0.108506
39	FALSE	FALSE	FALSE	FALSE	FALSE	0.873498
40	TRUE	TRUE	TRUE	TRUE	TRUE	0.021989
41	FALSE	FALSE	FALSE	FALSE	FALSE	5.370902
42	TRUE	TRUE	TRUE	TRUE	TRUE	0.082715
43	FALSE	FALSE	FALSE	FALSE	TRUE	0.643512
44	FALSE	TRUE	TRUE	TRUE	TRUE	0.215888
45	FALSE	FALSE	TRUE	TRUE	TRUE	0.556743
46	FALSE	FALSE	TRUE	TRUE	TRUE	0.582109
47	TRUE	TRUE	TRUE	TRUE	TRUE	0.152239
48	FALSE	TRUE	TRUE	TRUE	TRUE	0.191867
49	TRUE	TRUE	TRUE	TRUE	TRUE	0.075861
50	FALSE	FALSE	TRUE	TRUE	TRUE	0.343195
51	TRUE	TRUE	TRUE	TRUE	TRUE	0.180538
52	FALSE	TRUE	TRUE	TRUE	TRUE	0.052712
53	FALSE	FALSE	FALSE	FALSE	TRUE	0.119086
54	FALSE	TRUE	TRUE	TRUE	TRUE	0.095798
55	FALSE	TRUE	TRUE	TRUE	TRUE	0.098946
56	FALSE	TRUE	TRUE	TRUE	TRUE	0.075295
57	TRUE	TRUE	TRUE	TRUE	TRUE	0.068587
58	TRUE	TRUE	TRUE	TRUE	TRUE	0.105790
59	FALSE	FALSE	FALSE	FALSE	TRUE	0.227237
60	TRUE	TRUE	TRUE	TRUE	TRUE	0.022900

61	FALSE	TRUE	TRUE	TRUE	TRUE	0.074631
62	TRUE	TRUE	TRUE	TRUE	TRUE	0.125387
63	FALSE	FALSE	TRUE	TRUE	TRUE	0.181307
64	FALSE	TRUE	TRUE	TRUE	TRUE	0.236460
65	FALSE	FALSE	FALSE	FALSE	TRUE	0.267251
66	FALSE	FALSE	FALSE	TRUE	TRUE	1.219406
67	FALSE	FALSE	TRUE	TRUE	TRUE	0.429669
68	FALSE	FALSE	FALSE	FALSE	TRUE	0.345882
69	FALSE	FALSE	TRUE	TRUE	TRUE	1.024731
70	FALSE	FALSE	FALSE	FALSE	TRUE	2.795403
71	FALSE	TRUE	TRUE	TRUE	TRUE	0.309267
72	FALSE	TRUE	TRUE	TRUE	TRUE	0.480806
73	FALSE	TRUE	TRUE	TRUE	TRUE	0.075838
74	FALSE	TRUE	TRUE	TRUE	TRUE	0.079772
75	FALSE	FALSE	FALSE	TRUE	TRUE	1.231092
76	FALSE	TRUE	TRUE	TRUE	TRUE	0.101801
77	TRUE	TRUE	TRUE	TRUE	TRUE	0.049346
78	TRUE	TRUE	TRUE	TRUE	TRUE	0.387679
79	FALSE	FALSE	FALSE	FALSE	FALSE	1.217739
80	FALSE	TRUE	TRUE	TRUE	TRUE	0.170224
81	FALSE	FALSE	TRUE	TRUE	TRUE	0.270666
82	TRUE	TRUE	TRUE	TRUE	TRUE	0.017328
83	TRUE	TRUE	TRUE	TRUE	TRUE	0.126109
84	TRUE	TRUE	TRUE	TRUE	TRUE	0.084719
85	TRUE	TRUE	TRUE	TRUE	TRUE	0.118689
86	FALSE	FALSE	FALSE	FALSE	TRUE	0.366286
87	TRUE	TRUE	TRUE	TRUE	TRUE	0.074349
88	FALSE	TRUE	TRUE	TRUE	TRUE	0.043784
89	FALSE	TRUE	TRUE	TRUE	TRUE	0.039909
90	FALSE	TRUE	TRUE	TRUE	TRUE	0.128688
91	TRUE	TRUE	TRUE	TRUE	TRUE	0.125633
92	FALSE	TRUE	TRUE	TRUE	TRUE	0.045412
93	FALSE	FALSE	FALSE	FALSE	FALSE	4.748242
94	TRUE	TRUE	TRUE	TRUE	TRUE	0.285852
95	TRUE	TRUE	TRUE	TRUE	TRUE	0.559655
96	FALSE	FALSE	FALSE	FALSE	TRUE	0.076167
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99	TRUE	TRUE	TRUE	TRUE	TRUE	0.185598
100	FALSE	FALSE	TRUE	TRUE	TRUE	0.244756
101	FALSE	FALSE	TRUE	TRUE	TRUE	0.295105
102	FALSE	TRUE	TRUE	TRUE	TRUE	0.018906
103	TRUE	TRUE	TRUE	TRUE	TRUE	0.324380
104	TRUE	TRUE	TRUE	TRUE	TRUE	0.025389
105	FALSE	TRUE	TRUE	TRUE	TRUE	0.046916
106	FALSE	TRUE	TRUE	TRUE	TRUE	0.219114
107	TRUE	TRUE	TRUE	TRUE	TRUE	0.019179
108	FALSE	TRUE	TRUE	TRUE	TRUE	0.028060
109	FALSE	FALSE	TRUE	TRUE	TRUE	0.483029
110	TRUE	TRUE	TRUE	TRUE	TRUE	0.106631

111	FALSE	FALSE	FALSE	FALSE	TRUE	1.881562
112	TRUE	TRUE	TRUE	TRUE	TRUE	0.119905
113	FALSE	TRUE	TRUE	TRUE	TRUE	0.377676
114	TRUE	TRUE	TRUE	TRUE	TRUE	0.042343
115	TRUE	TRUE	TRUE	TRUE	TRUE	0.011226
116	TRUE	TRUE	TRUE	TRUE	TRUE	0.134062
117	FALSE	TRUE	TRUE	TRUE	TRUE	0.058774
118	TRUE	TRUE	TRUE	TRUE	TRUE	0.033757
119	FALSE	TRUE	TRUE	TRUE	TRUE	0.377823
120	FALSE	FALSE	FALSE	FALSE	FALSE	1.037666
121	FALSE	FALSE	TRUE	TRUE	TRUE	0.457105
122	TRUE	TRUE	TRUE	TRUE	TRUE	0.239021
123	TRUE	TRUE	TRUE	TRUE	TRUE	0.119093
124	FALSE	FALSE	TRUE	TRUE	TRUE	0.193795
125	TRUE	TRUE	TRUE	TRUE	TRUE	0.342709
126	TRUE	TRUE	TRUE	TRUE	TRUE	0.008844
127	FALSE	TRUE	TRUE	TRUE	TRUE	0.113465
128	TRUE	TRUE	TRUE	TRUE	TRUE	0.038507
129	TRUE	TRUE	TRUE	TRUE	TRUE	0.141719
130	TRUE	TRUE	TRUE	TRUE	TRUE	0.024500
131	FALSE	TRUE	TRUE	TRUE	TRUE	0.026313
132	FALSE	TRUE	TRUE	TRUE	TRUE	0.428870
133	FALSE	FALSE	TRUE	TRUE	TRUE	0.290499
134	FALSE	FALSE	FALSE	FALSE	TRUE	0.485071
135	FALSE	TRUE	TRUE	TRUE	TRUE	0.218787
136	FALSE	FALSE	FALSE	FALSE	FALSE	55.900999
137	FALSE	FALSE	TRUE	TRUE	TRUE	0.314058
138	FALSE	FALSE	TRUE	TRUE	TRUE	0.736078
139	FALSE	TRUE	TRUE	TRUE	TRUE	0.231480
140	TRUE	TRUE	TRUE	TRUE	TRUE	0.257560
141	TRUE	TRUE	TRUE	TRUE	TRUE	0.089113
142	TRUE	TRUE	TRUE	TRUE	TRUE	0.112676
143	FALSE	TRUE	TRUE	TRUE	TRUE	0.189562
144	TRUE	TRUE	TRUE	TRUE	TRUE	0.046280
145	TRUE	TRUE	TRUE	TRUE	TRUE	0.073235
146	FALSE	TRUE	TRUE	TRUE	TRUE	0.117067
147	TRUE	TRUE	TRUE	TRUE	TRUE	0.006694
148	FALSE	TRUE	TRUE	TRUE	TRUE	0.048979
149	TRUE	TRUE	TRUE	TRUE	TRUE	0.202915
150	TRUE	TRUE	TRUE	TRUE	TRUE	0.116358
151	TRUE	TRUE	TRUE	TRUE	TRUE	0.038080
152	FALSE	FALSE	TRUE	TRUE	TRUE	1.114674
153	FALSE	TRUE	TRUE	TRUE	TRUE	0.043830
154	FALSE	FALSE	TRUE	TRUE	TRUE	0.734848
155	TRUE	TRUE	TRUE	TRUE	TRUE	0.033359
156	TRUE	TRUE	TRUE	TRUE	TRUE	0.107172
157	TRUE	TRUE	TRUE	TRUE	TRUE	0.164146
158	FALSE	TRUE	TRUE	TRUE	TRUE	0.064566
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	pokestopIn2500m	pokestopIn5000m	cooc_1	cooc_2	cooc_3	cooc_4	cooc_5	cooc_6
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68	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	13
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77	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	69
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108	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16
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117	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	13
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241	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	19
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243	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	74
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383	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	90
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386	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16
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395	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16
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411	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	129
412	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	133
413	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	17
414	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16

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417	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	133
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459	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	19
460	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16
461	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	16
462	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	1
463	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	7
464	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	19

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465    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    10
466    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    133
467    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    41
468    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    46
469    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    16
470    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    129
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475    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    46
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477    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    19
478    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    29
479    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    48
480    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    46
481    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    140
482    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    13
483    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    FALSE    48
 [ reached 'max' / getOption("max.print") -- omitted 29119 rows ]
```

Reading Vectors: Point data

Now we use another common GIS package, sp, to convert this table into a point shapefile.

```
library(sp)
xy <- tibble(longitude = pkmng_points_dat$longitude,
             latitude = pkmng_points_dat$latitude)
pkmng_points <- SpatialPointsDataFrame(coords = xy,
                                       data = pkmng_points_dat)
```

Reading Vectors: Point data

```
pkmng_points

class       : SpatialPointsDataFrame
features    : 29602
extent      : -158.0198, 175.6162, -42.9845, 68.43698  (xmin, xmax, ymin,
ymax)
variables   : 207
# A tibble: 29,602 x 207
  pokemonId latitude longitude appearedLocalTi… cellId_90m cellId_180m
      <int>    <dbl>     <dbl> <fct>                 <dbl>       <dbl>
 1       16     53.7    -0.443 2016-09-04T09:3…    5.22e18     5.22e18
 2       60     46.0     8.96  2016-09-06T07:5…    5.15e18     5.15e18
 3       19     46.2    15.3   2016-09-04T08:3…    5.14e18     5.14e18
 4       16     50.7    14.5   2016-09-04T09:2…    5.12e18     5.12e18
 5       23     44.5    11.3   2016-09-04T16:0…    5.15e18     5.15e18
 6      120     50.2    14.7   2016-09-03T15:5…    5.12e18     5.12e18
```

```
 7        46     33.6     -84.3   2016-09-07T01:0…      9.87e18      9.87e18
 8        10     46.0      8.95   2016-09-06T06:2…      5.15e18      5.15e18
 9        27     33.9     -118.   2016-09-06T05:1…      9.28e18      9.28e18
10        23     34.3     -119.   2016-09-06T14:4…      9.29e18      9.29e18
# … with 29,592 more rows, and 201 more variables: cellId_370m <dbl>,
#   cellId_730m <dbl>, cellId_1460m <dbl>, cellId_2920m <dbl>,
#   cellId_5850m <dbl>, appearedTimeOfDay <fct>, appearedHour <int>,
#   appearedMinute <int>, appearedDayOfWeek <fct>, appearedDay <int>,
#   appearedMonth <int>, appearedYear <int>, terrainType <int>,
#   closeToWater <lgl>, city <fct>, continent <fct>, weather <fct>,
#   temperature <dbl>, windSpeed <dbl>, windBearing <int>, pressure <dbl>,
#   weatherIcon <fct>, sunriseMinutesMidnight <int>, sunriseHour <int>,
#   sunriseMinute <int>, sunriseMinutesSince <int>,
#   sunsetMinutesMidnight <int>, sunsetHour <int>, sunsetMinute <int>,
#   sunsetMinutesBefore <int>, population_density <dbl>, urban <lgl>,
#   suburban <lgl>, midurban <lgl>, rural <lgl>, gymDistanceKm <dbl>,
#   gymIn100m <lgl>, gymIn250m <lgl>, gymIn500m <lgl>, gymIn1000m <lgl>,
#   gymIn2500m <lgl>, gymIn5000m <lgl>, pokestopDistanceKm <dbl>,
#   pokestopIn100m <lgl>, pokestopIn250m <lgl>, pokestopIn500m <lgl>,
#   pokestopIn1000m <lgl>, pokestopIn2500m <lgl>, pokestopIn5000m <lgl>,
#   cooc_1 <lgl>, cooc_2 <lgl>, cooc_3 <lgl>, cooc_4 <lgl>, cooc_5 <lgl>,
#   cooc_6 <lgl>, cooc_7 <lgl>, cooc_8 <lgl>, cooc_9 <lgl>, cooc_10 <lgl>,
#   cooc_11 <lgl>, cooc_12 <lgl>, cooc_13 <lgl>, cooc_14 <lgl>, cooc_15
<lgl>,
#   cooc_16 <lgl>, cooc_17 <lgl>, cooc_18 <lgl>, cooc_19 <lgl>, cooc_20
<lgl>,
#   cooc_21 <lgl>, cooc_22 <lgl>, cooc_23 <lgl>, cooc_24 <lgl>, cooc_25
<lgl>,
#   cooc_26 <lgl>, cooc_27 <lgl>, cooc_28 <lgl>, cooc_29 <lgl>, cooc_30
<lgl>,
#   cooc_31 <lgl>, cooc_32 <lgl>, cooc_33 <lgl>, cooc_34 <lgl>, cooc_35
<lgl>,
#   cooc_36 <lgl>, cooc_37 <lgl>, cooc_38 <lgl>, cooc_39 <lgl>, cooc_40
<lgl>,
#   cooc_41 <lgl>, cooc_42 <lgl>, cooc_43 <lgl>, cooc_44 <lgl>, cooc_45
<lgl>,
#   cooc_46 <lgl>, cooc_47 <lgl>, cooc_48 <lgl>, cooc_49 <lgl>, cooc_50
<lgl>,
#   cooc_51 <lgl>, …
```

Reading Rasters

Finally, importing rasters is easily done with the `raster` package.

```
library(raster)
pkmng_raster <- raster("Data/pkmng_raster.tif")
```

Reading Rasters

Parts of a raster object

```
pkmng_raster

class      : RasterLayer
dimensions : 87, 180, 15660   (nrow, ncol, ncell)
resolution : 2, 2   (x, y)
extent     : -180, 180, -90.42973, 83.57027   (xmin, xmax, ymin, ymax)
crs        : +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
source     :
/Users/Hannah/Dropbox/RWorkingGroup/SpatialAnalysis1/Data/pkmng_raster.tif
names      : pkmng_raster
values     : 0, 9.535896   (min, max)
```

Basic visualization

Just use the `plot()` function!

```
plot(pkmng_countries, col = "yellow")
```
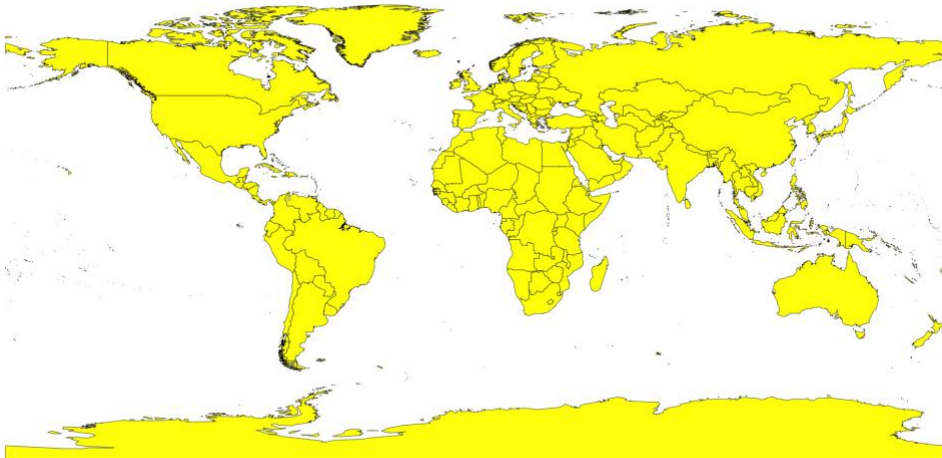

plot of chunk basic plot polygon

Basic visualization

Just use the `plot()` function!

```
plot(pkmng_points)
```

plot of chunk basic plot points

Basic visualization

You can stack map layers, too.

```
plot(pkmng_countries, col = "yellow")
points(pkmng_points, pch = 20, cex = .7, col = "red")
```
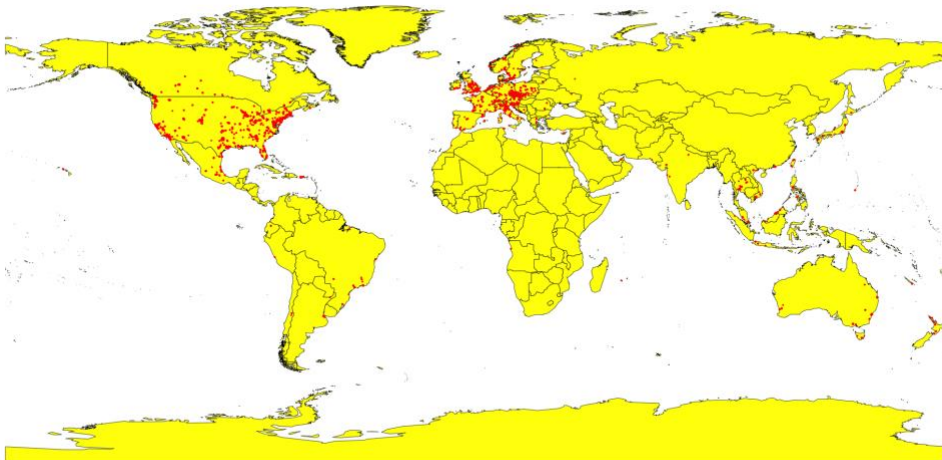

plot of chunk basic plot polygon and points

Basic visualization

Rasters also use the `plot()` function!

```
plot(pkmng_raster)
```
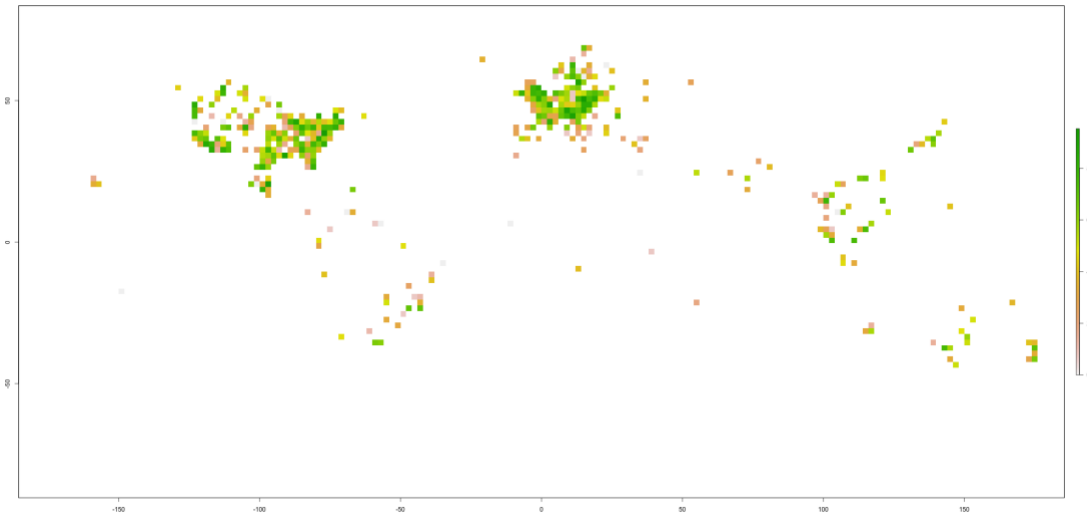

plot of chunk plot raster 1

Basic visualization

You can stack multiple plots that mix rasters and vectors using `add` argument.

```
plot(pkmng_raster, col = viridis::viridis(n = 10))
plot(pkmng_countries, add = T)
```
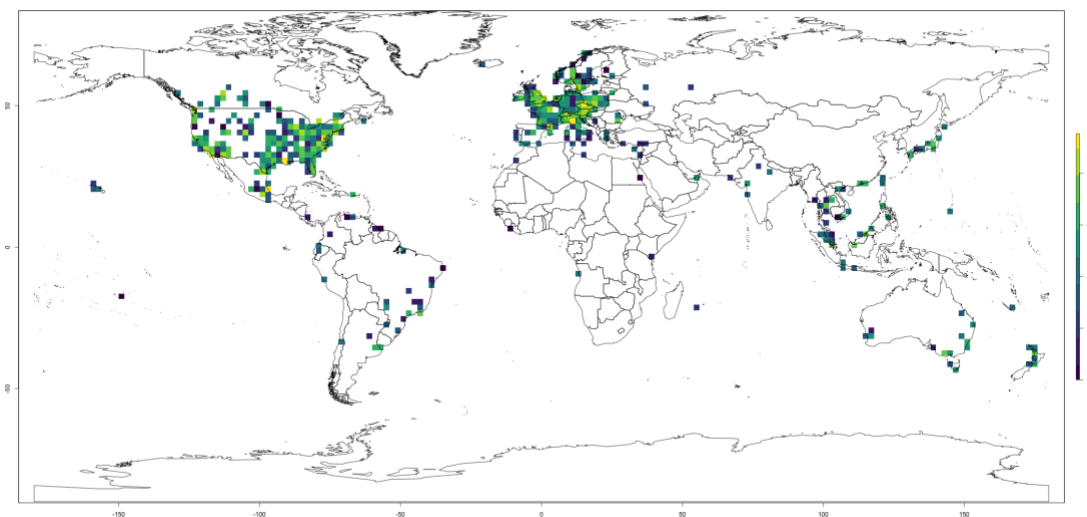

plot of chunk plot raster 2

Challenge 1: Load and display spatial data

type: prompt

Now it's your turn! Load the shapefile, point csv, and raster and plot them all together. Data can be found in the "Data" folder in the SpatialAnalysis project on GitHub.
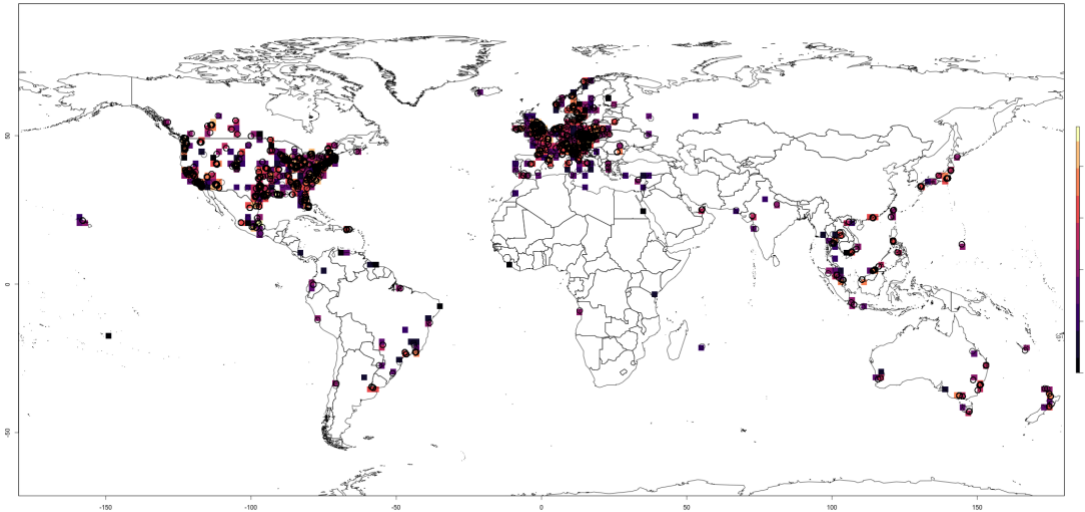
plot of chunk Challenge 1 Map

Solution 1: Load and display spatial data

type: prompt

Now it's your turn! Load the shapefile, point csv, and raster and plot them all together. Data can be found in the "Data" folder in the SpatialAnalysis project on GitHub.
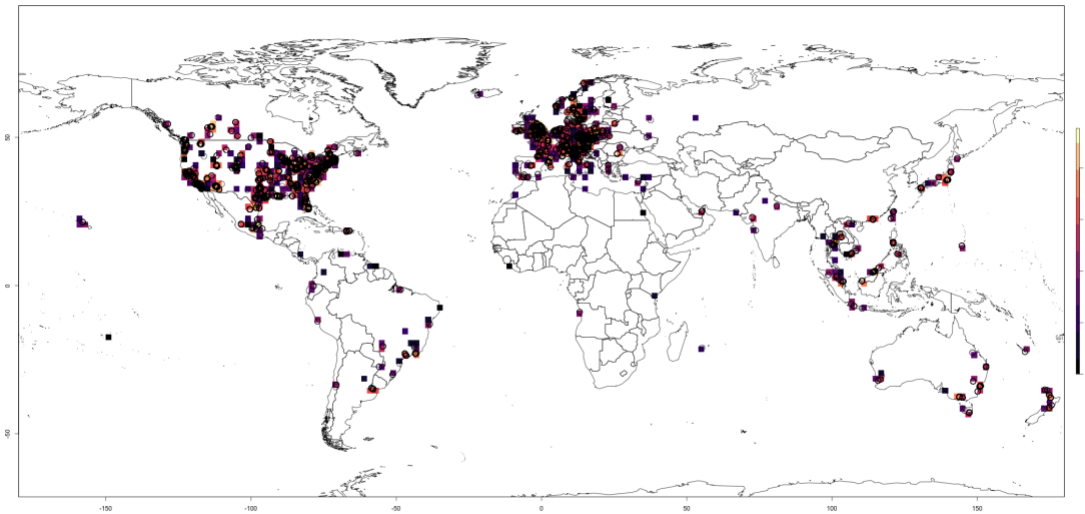
plot of chunk Challenge 2 Map

Projections, Extents, and Units

type: section

Projections

One of the most important things to remember when dealing with spatial data!!

A projection is a mathematical transformation of coordinates from the surface of a sphere on a 2D plane.
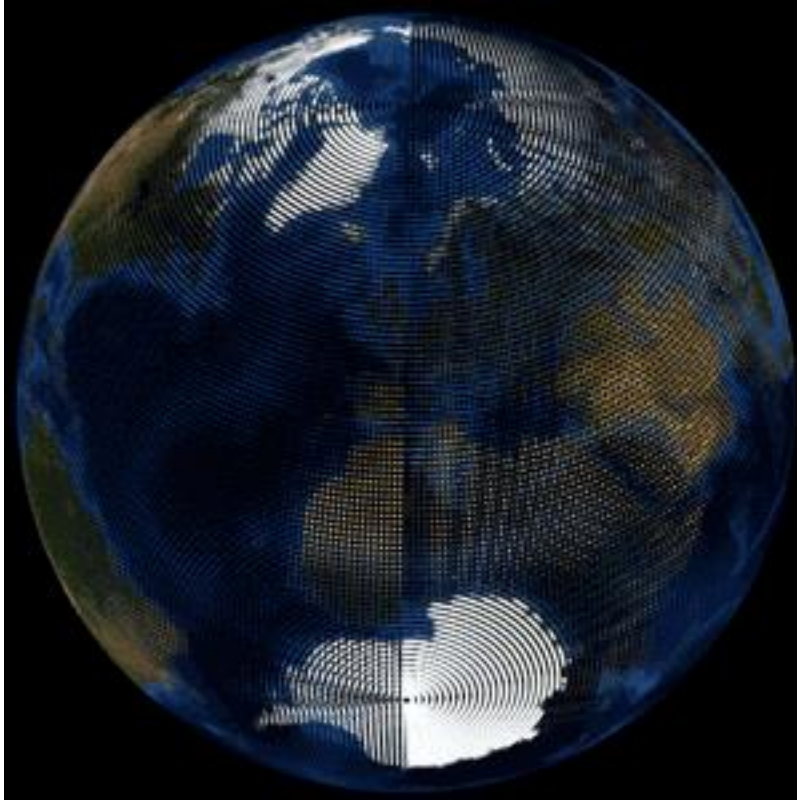
Demo of projection

Types of projections

By surface: * Cylindrical * Conic * Azimuthal

By preservation of a metric property * Conformal (preserves shape, distorts area) * Equal-area (preserves area, distorts shape) * Equidistant (preserves distance from some point or line)

Checking projection of your spatial objects

You can view the Coordinate Reference System of your spatial objects:

```
crs(pkmng_countries)

CRS arguments:
 +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0

crs(pkmng_raster)
```

```
CRS arguments:
 +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
```

Checking projection of spatial objects

But our points shapefile has no projection, because we didn't set it when creating the object.

```
crs(pkmng_points)
```

```
CRS arguments: NA
```

Setting projection of spatial objects

Two options for defining projections: - Writing a string of desired projection - Extract projection from existing object

```
proj1 <- crs("+proj=longlat +datum=WGS84 +no_defs +ellps=WGS84
+towgs84=0,0,0")
proj2 <- crs(pkmng_countries)
proj2
```

```
CRS arguments:
 +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
```

Setting projection of spatial objects

Once you've defined the projection, add it to your object

```
proj4string(pkmng_points) <- proj1
pkmng_points

class       : SpatialPointsDataFrame
features    : 29602
extent      : -158.0198, 175.6162, -42.9845, 68.43698  (xmin, xmax, ymin,
ymax)
crs         : +proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0
variables   : 207
names       : pokemonId,   latitude,   longitude,    appearedLocalTime,
cellId_90m,         cellId_180m,        cellId_370m,       cellId_730m,
cellId_1460m,        cellId_2920m,       cellId_5850m, appearedTimeOfDay,
appearedHour, appearedMinute, appearedDayOfWeek, ...
min values  :         1, -42.984504, -158.019758, 2016-09-02T21:50:11Z,
43172735374852096,    43172735576178688,    43172735307743232,
43172732086517760,    43172719201615872,    43172667662008320,
43172598942531584,        afternoon,            0,                0,
dummy_day, ...
max values  :       149,   68.43698,  175.616223, 2016-09-08T03:51:27Z,
```

```
12280882455157669888, 12280882455224778752, 12280882455493214208,
1.2280882456567e+19, 12280882443682054144, 12280882495221661696,
12280882701380091904,              night,              23,              59,
Wednesday, ...
```

Transform projection of spatial objects

When you want to change the projection of a spatial object

```
pkmng_points_p <- spTransform(pkmng_points,
                              crs("+proj=laea  +lat_0=0 +lon_0=0"))
pkmng_points_p

class      : SpatialPointsDataFrame
features   : 29602
extent     : -9285067, 11178209, -11993372, 9520128  (xmin, xmax, ymin,
ymax)
crs        : +proj=laea +lat_0=0 +lon_0=0 +ellps=WGS84
variables  : 207
names      : pokemonId,   latitude,   longitude,    appearedLocalTime,
cellId_90m,         cellId_180m,         cellId_370m,         cellId_730m,
cellId_1460m,       cellId_2920m,        cellId_5850m, appearedTimeOfDay,
appearedHour, appearedMinute, appearedDayOfWeek, ...
min values :         1, -42.984504, -158.019758, 2016-09-02T21:50:11Z,
43172733374852096,    43172735576178688,    43172735307743232,
43172732086517760,    43172719201615872,    43172667662008320,
43172598942531584,        afternoon,              0,              0,
dummy_day, ...
max values :       149,   68.43698,  175.616223, 2016-09-08T03:51:27Z,
12280882455157669888, 12280882455224778752, 12280882455493214208,
1.2280882456567e+19, 12280882443682054144, 12280882495221661696,
12280882701380091904,              night,              23,              59,
Wednesday, ...
```

Why are projections so important?

Here's our points mapped on top of a shapefile of countries:

```
plot(pkmng_countries, axes = T)
plot(pkmng_points, add = T, pch = 1, col = "red")
```
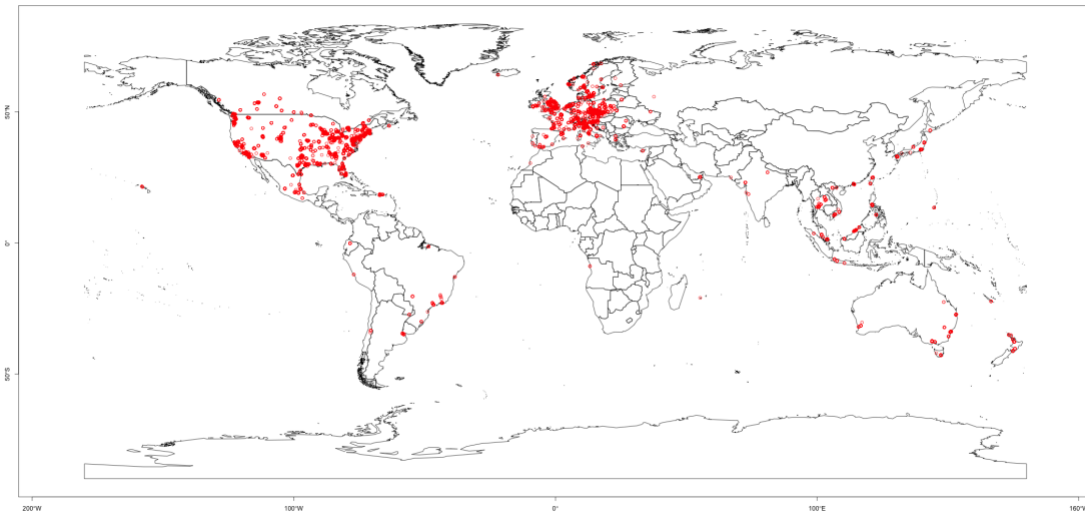
plot of chunk map

Why are projections so important?

Projections don't match:

```
countries_p <- spTransform(pkmng_countries,
                           crs("+proj=laea  +lat_0=0 +lon_0=0"))
plot(countries_p, axes = T)
plot(pkmng_points, add = T, pch = 1, col = "red")
```
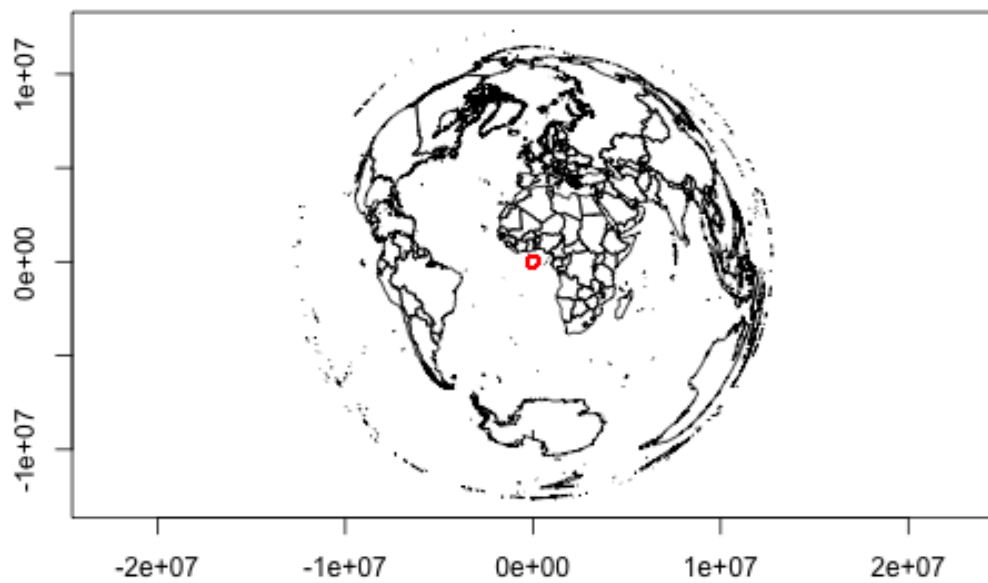
plot of chunk map 2

Projections do match:

```
plot(countries_p, axes = T)
plot(pkmng_points_p, add = T, pch = 1, col = "red")
```
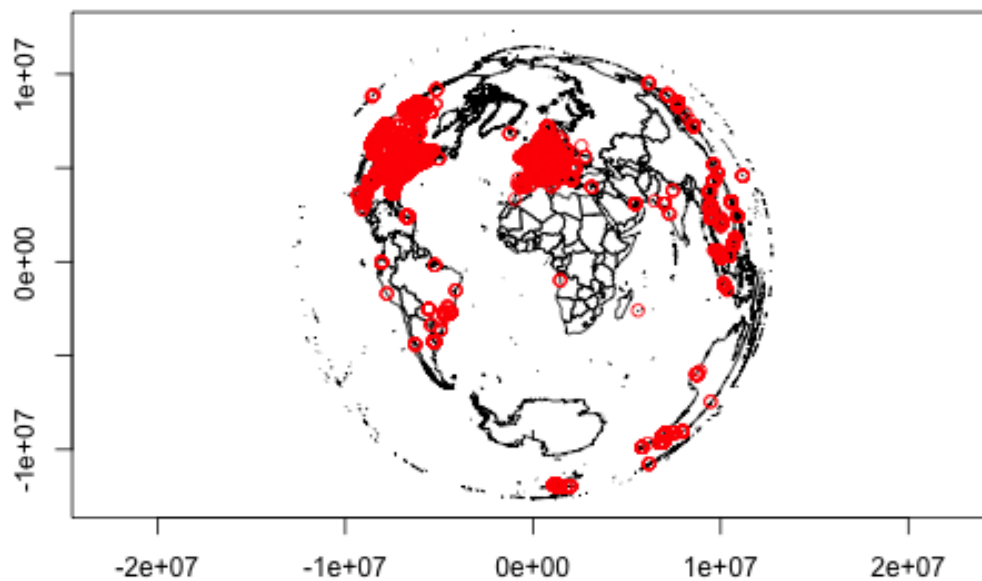
plot of chunk map 3

Extent: Vectors

- Minimum and maximum X and Y coordinates of the object
- Depends on projections for units

```
pkmng_countries@bbox

    min        max
x -180 180.00000
y  -90  83.57027

countries_p@bbox

        min       max
x -12726751 12733710
y -12641498 12299760
```

Extent: Rasters

For raster objects, you find the extent with this syntax:

```
pkmng_raster@extent
```

```
class     : Extent
xmin      : -180
xmax      : 180
ymin      : -90.42973
ymax      : 83.57027
```

Changing raster extents

- Reduce extent using `crop()`
- Increase extent using `extend()`

```
pkmng_raster_c <- crop(pkmng_raster,
                       extent(-50, 100, 0, 80))
```

Changing raster extents

All the red cells are in the new, limited extent!

```
plot(pkmng_raster)
plot(pkmng_raster_c, add = T, col = "red")
```
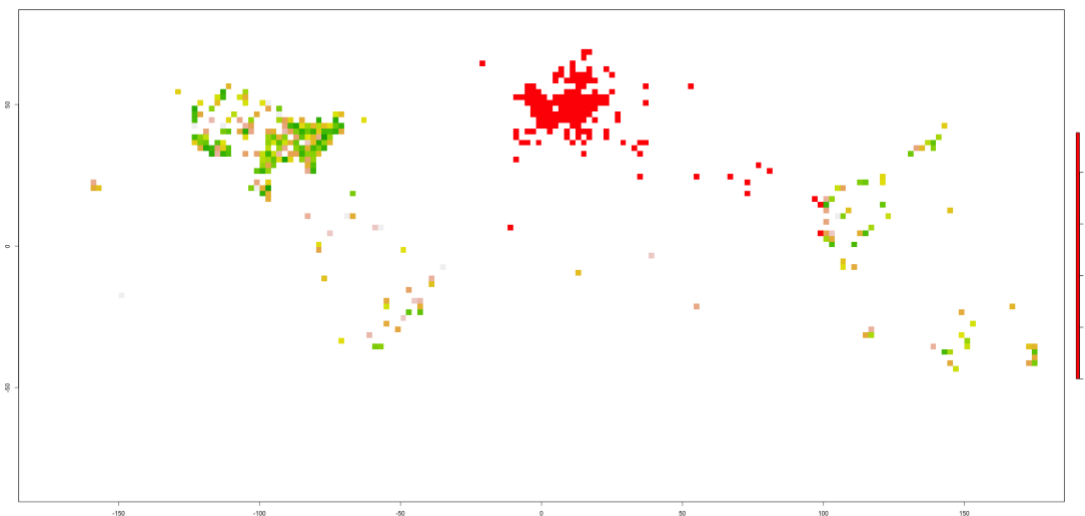

plot of chunk extent 4

Why is extent important?

Mismatching extents and projections result in errors

```
raster::intersect(countries_p, pkmng_raster_c)
```

```
NULL
```

Challenge 2: Load and display spatial data

type: prompt

Now it's your turn! Try cropping the `pkmng_raster` to the Northern Hemisphere and then projecting it using "+proj=laea +lat_0=45 +lon_0=0". Bonus if you reproject and plot the country spatial file on top of it.
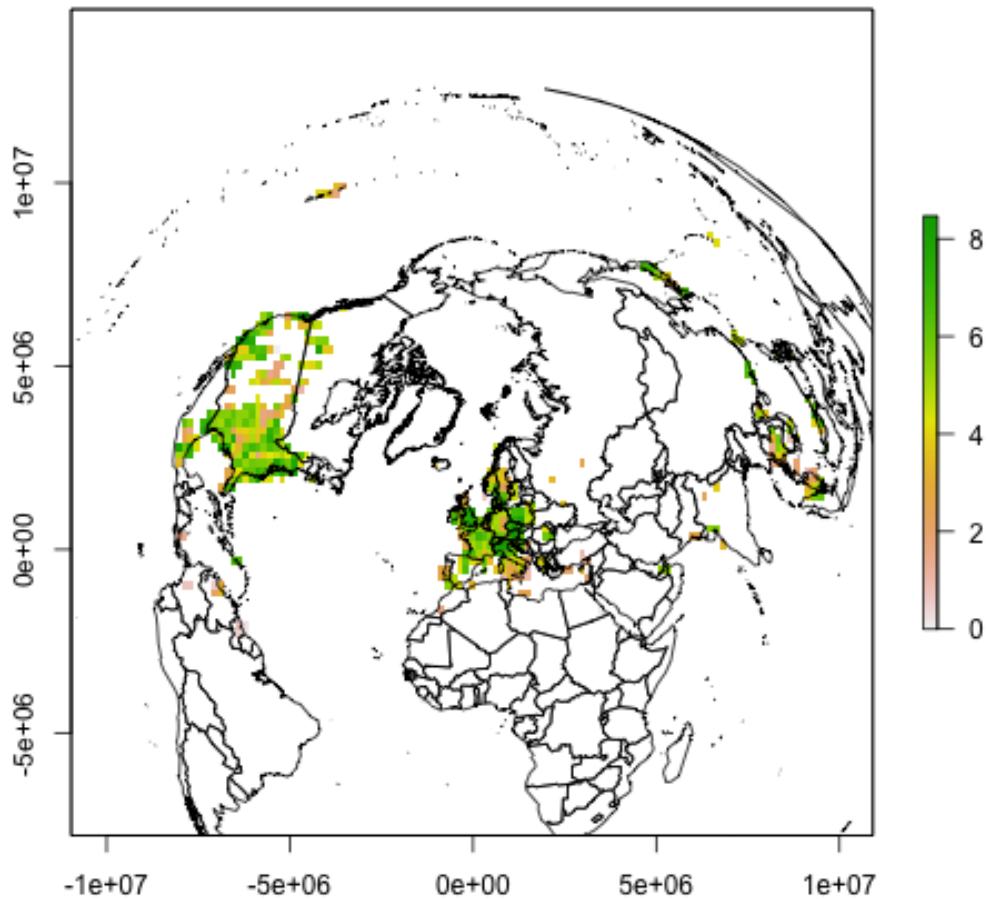
plot of chunk Challenge 2 Proj

Solution 2: Load and display spatial data

type: prompt

```
pkmnh_rast_crop <- crop(pkmng_raster, extent(c(-180, 180, 0, 90)))
pkmng_raster_crop_rprj <- projectRaster(pkmnh_rast_crop,
                                        crs = "+proj=laea +lat_0=45
+lon_0=0")
plot(pkmng_raster_crop_rprj)
plot(spTransform(pkmng_countries,
                CRSobj = "+proj=laea +lat_0=45 +lon_0=0"), add = T)
```

Some Basic Spatial Manipulation and Analysis

type: section

Geoprocessing
- GIS operations used to manipulate spatial data
- Input dataset -> operation -> output dataset

Geoprocessing: Buffer points
- creates a polygon based on proximity

Example: buffer some pokemon points to 100km radius

Geoprocessing: Buffer points

First, subset data

```
sub_pkmng_p<- subset(pkmng_points, pokemonId %in% c(8:10))
plot(pkmng_countries)
plot(sub_pkmng_p,add = T, col = "red")
```
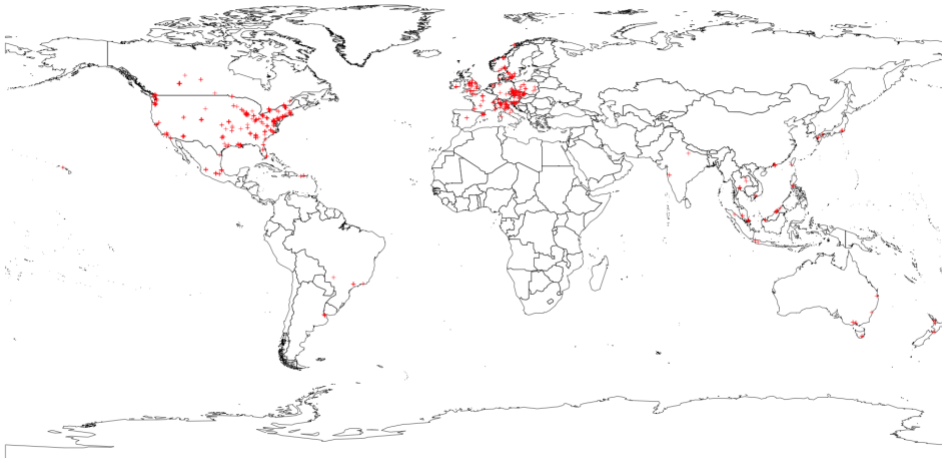
plot of chunk subset pokemon

Geoprocessing: Buffer points

Then buffer with a 100km radius

```
buffer_pkmng_points<- raster::buffer(sub_pkmng_p,width = 100000)
plot(pkmng_countries)
plot(buffer_pkmng_points,add = T, col = "red")
```
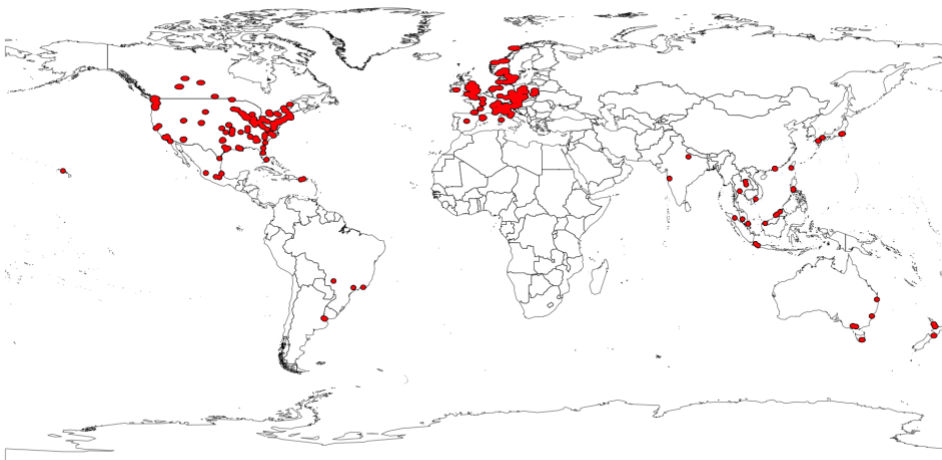

plot of chunk buffer pokemon

Geoprocessing: Clip

- Overlay function that cuts out an input layer with extent of a defined feature boundary
- Result of this tool is a new clipped output layer.

Example: clip buffered points to ones in Italy, and to fit boundaries of Italian coastline.

Geoprocessing: Clip

First, filter Italy out of the countries shapefile

```
Italy <- pkmng_countries %>% filter(NAME == "Italy")
plot(Italy)
plot(buffer_pkmng_points, add = T, col = "red")
```
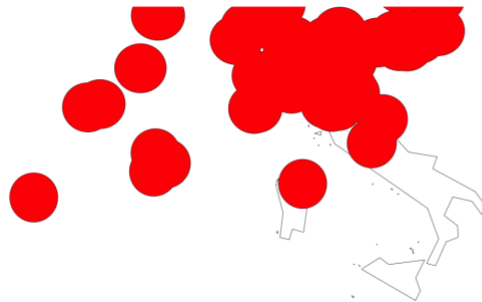

plot of chunk pull out Italy

Geoprocessing: Clip

Now clip buffered points based on Italian shapefile we created

```
clip_pkmng_rgeos<- rgeos::gIntersection(Italy, buffer_pkmng_points,
                                        byid = TRUE, drop_lower_td = TRUE)
plot(Italy)
plot(clip_pkmng_rgeos, add = T, col = "red")
```

plot of chunk clip to Italy

Geoprocessing: Intersect

- similar to clip tool because the extent of input features defines the output
- BUT it preserves attributes from all data sets that overlap each other in the output

Lets intersect the points with the country shapefile to find which points belong to which country

```
intersect_pkmg<- raster::intersect(pkmng_points,pkmng_countries)
```

Geoprocessing: Intersect

```
head(pkmng_countries@data)[,5:7]
```

```
                  NAME    AREA   POP2005
0 Antigua and Barbuda      44     83039
1              Algeria 238174  32854159
2           Azerbaijan   8260   8352021
3              Albania   2740   3153731
4              Armenia   2820   3017661
5               Angola 124670  16095214
```

```
head(intersect_pkmg@data)[,c(1:3,212:214)]
```

```
  pokemonId latitude longitude           NAME  AREA   POP2005
1        16 53.68574 -0.443450 United Kingdom 24193  60244834
2        60 46.00403  8.957153    Switzerland  4000   7424389
3        19 46.23540 15.254241       Slovenia  2014   1999425
4        16 50.67543 14.541165 Czech Republic  7727  10191762
5        23 44.49420 11.344701          Italy 29411   5864636
6       120 50.18774 14.657816 Czech Republic  7727  10191762
```

Geoprocessing: Merge

- Combines datasets that are the same data type

```
#subset the countries
sub_count<- pkmng_countries %>% filter(NAME==c("France","Italy"))
sub_count_sf<- sf::st_as_sf(sub_count)
merge_count<- sf::st_combine(sub_count_sf)
plot(merge_count)
```

plot of chunk merge

Geoprocessing: Dissolve

- Unifies boundaries based on common attribute values

```
diss_sub_count<- rgeos::gUnaryUnion(sub_count)
plot(diss_sub_count)
```

plot of chunk dissolve

Zonal statistics

Allows you to calculate statistics from raster data for each feature a vector dataset

Example: Calculate mean temperature at pokemons were collected.

Zonal statistics: Step 1

Download and plot the mean annual temperature from the web using the getData function

```r
climate <- raster::getData('worldclim', var='bio', res=10)
annual_temp<- climate$bio1
plot(annual_temp, col = viridis::inferno(n=10))
```
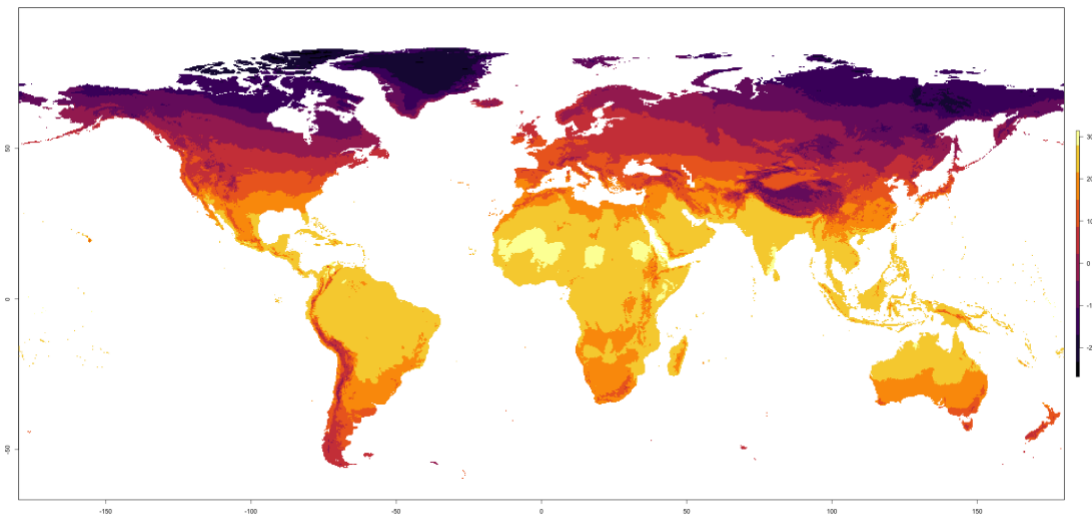

plot of chunk get data

Zonal statistics: Step 2

Extract temperature at each point

```r
poke_annual_temp<- raster::extract(annual_temp, pkmng_points, na.rm=T, df=T)
head(poke_annual_temp)
```

```
  ID bio1
1  1   95
2  2   92
3  3   93
4  4   73
5  5  133
6  6   89
```

Zonal statistics: Step 3

Uh-oh, the data has no identification of which point it belongs! We need to merge it with the point identifiers.

```
poke_annual_temp_final<-
cbind(pkmng_points@data$pokemonId,poke_annual_temp$bio1)
colnames(poke_annual_temp_final)<- c("pokemonId","Annual_Temp")
head(poke_annual_temp_final)

     pokemonId Annual_Temp
[1,]        16          95
[2,]        60          92
[3,]        19          93
[4,]        16          73
[5,]        23         133
[6,]       120          89
```

Zonal statistics: Results

Ta-da!

```
boxplot(poke_annual_temp_final[,2],
        main = "Pokemon Collection Temperature", col = "#00cc99")
```

Challenge 3: Zonal Statistics

type: prompt

Now you try it! What is the mean annual precipitation at which pokemons were collected?

Hint: Mean annual precipitation is bio12 in the climate dataset.
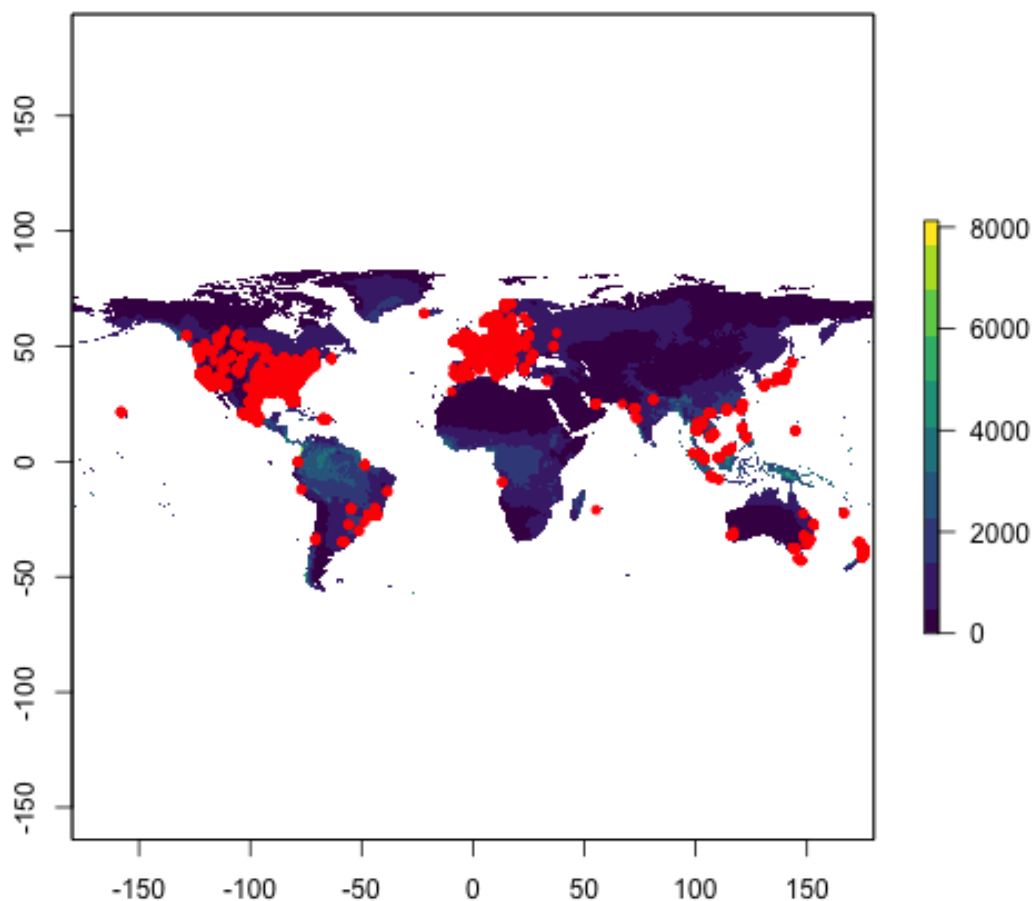
plot of chunk Challenge 3 ZS

Solution 3: Zonal Statistics

type: prompt

```
annual_precip<- climate$bio12
poke_annual_precip<- raster::extract(annual_precip, pkmng_points, na.rm=T,
df=T)
poke_annual_precip_final<-
cbind(pkmng_points@data$pokemonId,poke_annual_precip$bio12)
colnames(poke_annual_precip_final)<- c("pokemonId","Annual_Precip")
paste0("Mean annual precipitation at pokemon collections: ",
       round(mean(poke_annual_precip_final[,2], na.rm = T)), digits = 2)

[1] "Mean annual precipitation at pokemon collections: 9372"
```

TAKE HOME MESSAGES

- Be mindful of projections!
- Visualize spatial patterns!
- No one tool does everything!

Pikachu