

Statistical Learning Project

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```
pdf_document: default html_document: default
#https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data
library(knitr)
library(ggplot2)
library(tidyr)
library(dplyr)

##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##     filter, lag
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

Read Dataset

```
ds = read.csv("AB_NYC_2019.csv")
head(ds)

##      id                         name host_id host_name
## 1 2539        Clean & quiet apt home by the park    2787      John
## 2 2595                  Skylit Midtown Castle    2845 Jennifer
## 3 3647 THE VILLAGE OF HARLEM....NEW YORK !    4632 Elisabeth
## 4 3831           Cozy Entire Floor of Brownstone    4869 LisaRoxanne
## 5 5022 Entire Apt: Spacious Studio/Loft by central park    7192      Laura
## 6 5099       Large Cozy 1 BR Apartment In Midtown East    7322      Chris
##   neighbourhood_group neighbourhood latitude longitude      room_type price
## 1          Brooklyn      Kensington 40.64749 -73.97237 Private room  149
## 2         Manhattan        Midtown 40.75362 -73.98377 Entire home/apt  225
## 3         Manhattan         Harlem 40.80902 -73.94190 Private room  150
## 4          Brooklyn    Clinton Hill 40.68514 -73.95976 Entire home/apt   89
## 5         Manhattan      East Harlem 40.79851 -73.94399 Entire home/apt   80
## 6         Manhattan     Murray Hill 40.74767 -73.97500 Entire home/apt  200
##   minimum_nights number_of_reviews last_review reviews_per_month
## 1              1                 9 2018-10-19          0.21
## 2              1                45 2019-05-21          0.38
## 3              3                 0                   NA
## 4              1               270 2019-07-05          4.64
## 5             10                 9 2018-11-19          0.10
## 6              3                74 2019-06-22          0.59
```

```

##   calculated_host_listings_count availability_365
## 1                               6      365
## 2                               2      355
## 3                               1      365
## 4                               1      194
## 5                               1       0
## 6                               1     129

summary(ds)

##      id                      name
## Min. : 2539  Hillside Hotel      : 18
## 1st Qu.: 9471945 Home away from home : 17
## Median :196777284                   : 16
## Mean  :19017143 New york Multi-unit building : 16
## 3rd Qu.:29152178 Brooklyn Apartment      : 12
## Max.  :36487245 Loft Suite @ The Box House Hotel: 11
##                               (Other)          :48805
##      host_id                host_name neighbourhood_group
## Min. : 2438    Michael        : 417 Bronx           : 1091
## 1st Qu.: 7822033 David          : 403 Brooklyn         :20104
## Median : 30793816 Sonder (NYC): 327 Manhattan        :21661
## Mean  : 67620011 John          : 294 Queens          : 5666
## 3rd Qu.:107434423 Alex          : 279 Staten Island:  373
## Max.  :274321313 Blueground    : 232
##                               (Other)          :46943
##      neighbourhood      latitude      longitude
## Williamsburg      : 3920  Min.   :40.50  Min.   :-74.24
## Bedford-Stuyvesant: 3714  1st Qu.:40.69  1st Qu.:-73.98
## Harlem           : 2658  Median :40.72  Median :-73.96
## Bushwick          : 2465  Mean   :40.73  Mean   :-73.95
## Upper West Side   : 1971  3rd Qu.:40.76  3rd Qu.:-73.94
## Hell's Kitchen    : 1958  Max.   :40.91  Max.   :-73.71
## (Other)           :32209
##      room_type      price minimum_nights number_of_reviews
## Entire home/apt:25409  Min.   : 0.0  Min.   : 1.00  Min.   : 0.00
## Private room   :22326  1st Qu.: 69.0  1st Qu.: 1.00  1st Qu.: 1.00
## Shared room    : 1160  Median :106.0  Median : 3.00  Median : 5.00
##                               Mean   :152.7  Mean   : 7.03  Mean   :23.27
##                               3rd Qu.:175.0  3rd Qu.: 5.00  3rd Qu.:24.00
##                               Max.  :10000.0  Max.  :1250.00  Max.  :629.00
##
##      last_review reviews_per_month calculated_host_listings_count
## :10052      Min.   : 0.010  Min.   : 1.000
## 2019-06-23: 1413  1st Qu.: 0.190  1st Qu.: 1.000
## 2019-07-01: 1359 Median : 0.720  Median : 1.000
## 2019-06-30: 1341 Mean   : 1.373  Mean   : 7.144
## 2019-06-24:  875  3rd Qu.: 2.020  3rd Qu.: 2.000
## 2019-07-07:  718  Max.   :58.500  Max.   :327.000
## (Other)      NA's   :10052
## availability_365
## Min.   : 0.0
## 1st Qu.: 0.0
## Median : 45.0
## Mean   :112.8

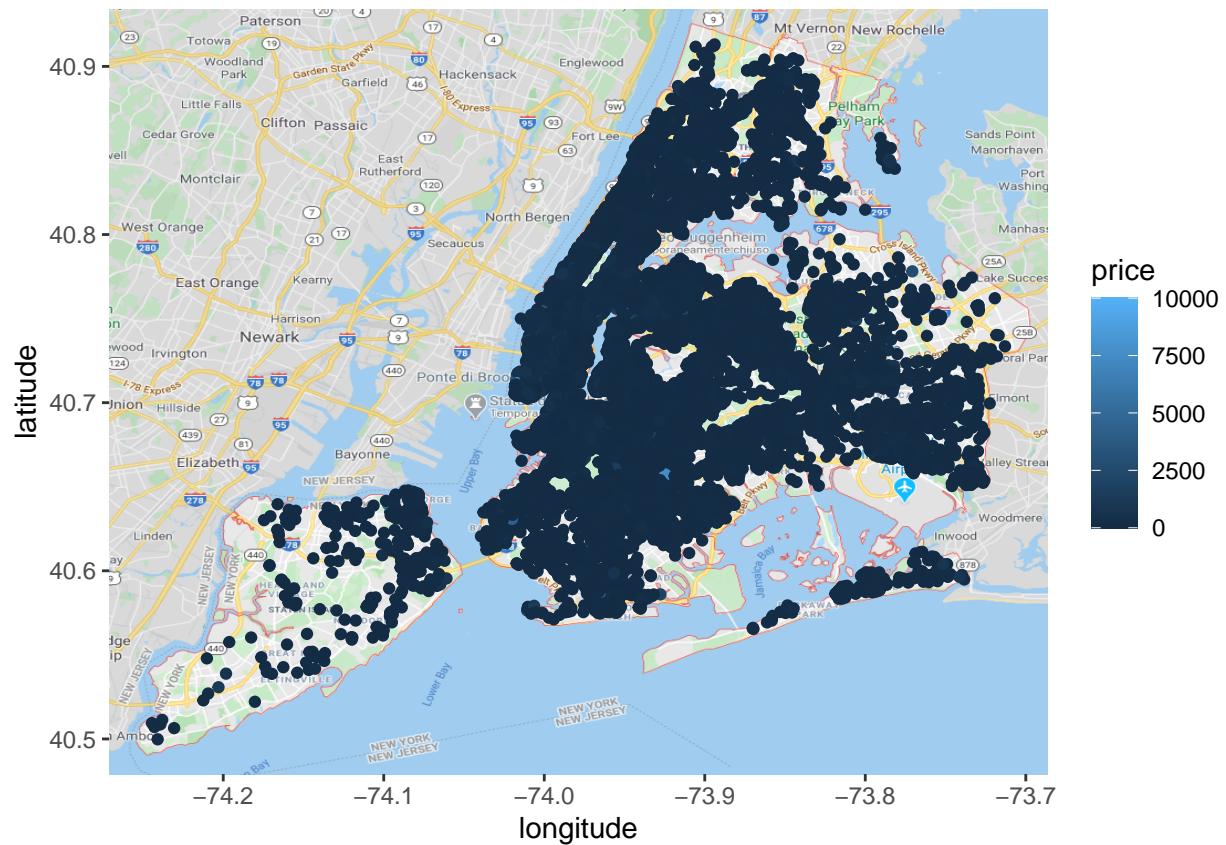
```

```
## 3rd Qu.:227.0
## Max. :365.0
##
```

Data Inspection

```
library(png)
library(ggpubr)
img <- readPNG("map.png")

map_ds = ggplot() + background_image(img) + geom_point(data = ds, aes(y=latitude,x = longitude, color = map_ds)
```



Data cleaning

Check for NA and NULL values

```
#Check for NA
apply(ds,2,function(x) sum(is.na(x)))
```

| | id | name |
|----|---------|-----------|
| ## | 0 | 0 |
| ## | host_id | host_name |

```

##                               0                               0
##      neighbourhood_group      neighbourhood
##                               0                               0
##      latitude                  longitude
##                               0                               0
##      room_type                 price
##                               0                               0
##      minimum_nights            number_of_reviews
##                               0                               0
##      last_review                reviews_per_month
##                               0                               10052
## calculated_host_listings_count availability_365
##                               0                               0

```

Normalisation and selection of the variables

```

library(dplyr)
library(tidyverse)

## -- Attaching packages ----- tidyverse
## v tibble  3.0.1    v stringr 1.4.0
## v readr   1.3.1    v forcats 0.5.0
## v purrr   0.3.4

## -- Conflicts ----- tidyverse_
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()   masks stats::lag()

normalize <- function(x) {
  return ((x - min(x)) / (max(x) - min(x)))
}

clean_data = function(ds, pr=NULL, region= NULL, room = NULL)
{
  ds =ds[c(5,7:10)]
  ds=  ds%>%filter( price >= 15 )

  if(is.null(room))
  {
    ds$room_type = factor(ds$room_type,
                          level= c("Private room","Entire home/apt","Shared room"),
                          labels=c(1,2,3))
  }
  else
  {
    ds=  ds%>%filter( room_type==room)
    ds[ "room_type" ] = NULL
  }
  if(is.null(region))
  {

    ds$neighbourhood_group = factor(ds$neighbourhood_group,
                                     level= c("Brooklyn","Manhattan",

```

```

        "Queens", "Staten Island", "Bronx"),
        labels=c(1,2,3,4,5))
    }
else
{
    ds=  ds%>%filter( price < pr & neighbourhood_group == region)
    ds$neighbourhood_group = NULL
}
if(!is.null(pr))
{
    ds=  ds%>%filter( price < pr )

}
numerical = c("price")
ds[numerical] = as.numeric(scale(ds[numerical]))

return(ds)
}
#ggdraw() +
#  draw_image("New_York_City_.png") +
#  draw_plot(myplot)

dataset = clean_data(ds,500,NULL,NULL)

head(dataset)

##   neighbourhood_group latitude longitude room_type      price
## 1                      1 40.64749 -73.97237     1  0.2216662
## 2                      2 40.75362 -73.98377     2  1.1152290
## 3                      2 40.80902 -73.94190     1  0.2334236
## 4                      1 40.68514 -73.95976     2 -0.4837781
## 5                      2 40.79851 -73.94399     2 -0.5895947
## 6                      2 40.74767 -73.97500     2  0.8212939

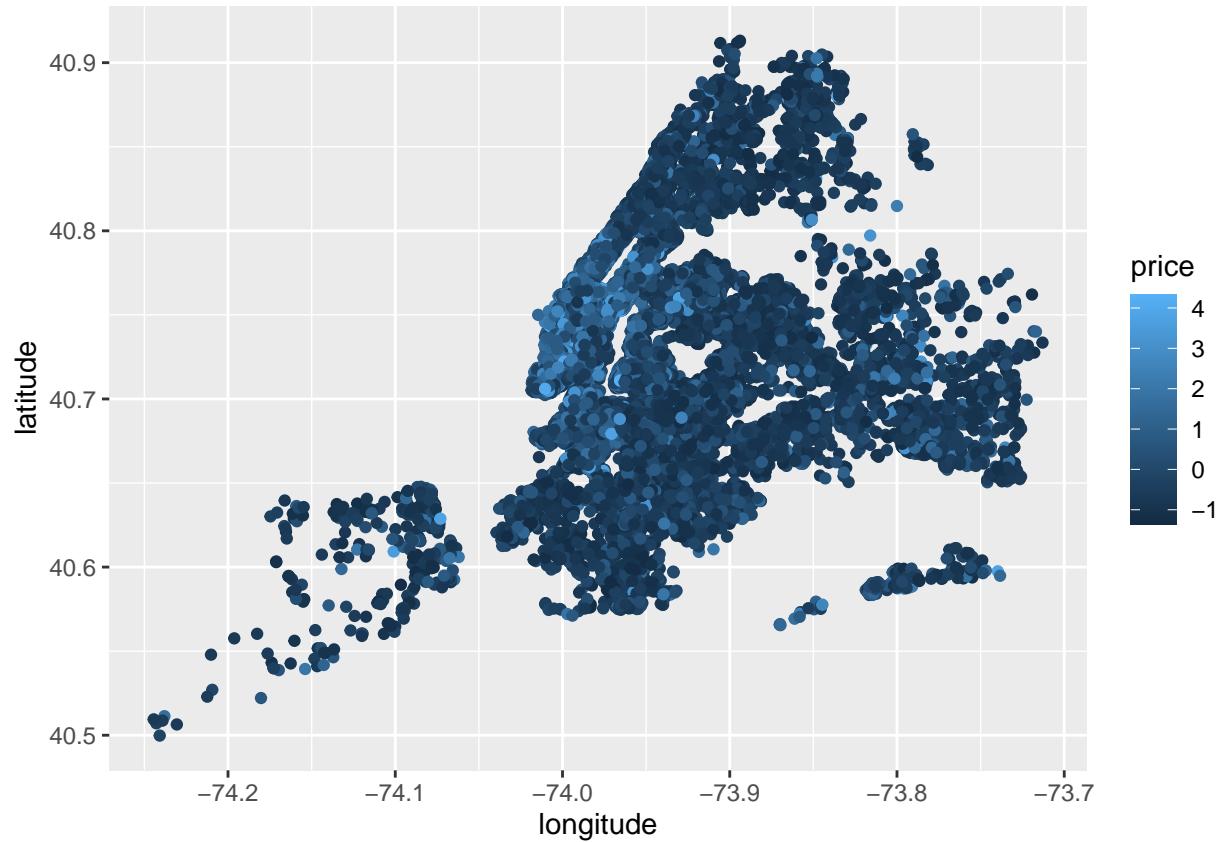
summary(dataset)

##   neighbourhood_group      latitude      longitude      room_type
## 1:19808                 Min.   :40.50   Min.   :-74.24   1:22136
## 2:20745                  1st Qu.:40.69   1st Qu.:-73.98   2:24346
## 3: 5625                  Median :40.72   Median :-73.96   3: 1142
## 4:  366                  Mean   :40.73   Mean   :-73.95
## 5: 1080                  3rd Qu.:40.76   3rd Qu.:-73.94
##                         Max.   :40.91   Max.   :-73.71
##
##      price
##  Min.   :-1.3538
##  1st Qu.:-0.7307
##  Median :-0.3544
##  Mean   : 0.0000
##  3rd Qu.: 0.4686
##  Max.   : 4.3368

mappa = ggplot() + geom_point(data = dataset, aes(y=latitude,x = longitude, color = price))

```

mappa



Split data into train and test sets

```
library(caTools)
library(caret)

## Loading required package: lattice
##
## Attaching package: 'caret'
## The following object is masked from 'package:purrr':
##     lift
data_clean = dataset
sample = sample.split(data_clean, SplitRatio = .75)
train = subset(data_clean, sample == TRUE)
test  = subset(data_clean, sample == FALSE)

print("Initial data shape")

## [1] "Initial data shape"
```

```

print(dim(data_clean))

## [1] 47624      5
print("Train shape")

## [1] "Train shape"
print(dim(train))

## [1] 28575      5
head(train)

##   neighbourhood_group latitude longitude room_type      price
## 1                      1 40.64749 -73.97237     1  0.2216662
## 2                      2 40.75362 -73.98377     2  1.1152290
## 4                      1 40.68514 -73.95976     2 -0.4837781
## 6                      2 40.74767 -73.97500     2  0.8212939
## 7                      1 40.68688 -73.95596     1 -0.8247428
## 9                      2 40.80178 -73.96723     1 -0.6013521

print("Test shape")

## [1] "Test shape"
print(dim(test))

## [1] 19049      5
head(test)

##   neighbourhood_group latitude longitude room_type      price
## 3                      2 40.80902 -73.94190     1  0.2334236
## 5                      2 40.79851 -73.94399     2 -0.5895947
## 8                      2 40.76489 -73.98493     1 -0.6013521
## 10                     2 40.71344 -73.99037     2  0.2334236
## 13                     1 40.66829 -73.98779     1 -0.4837781
## 15                     2 40.73530 -74.00525     2 -0.1192985

library(dplyr)
ds_neig = dataset %>% filter(neighbourhood_group == 2)
ds_neig = ds_neig[-1]

sample_neig = sample.split(ds_neig, SplitRatio = .75)
train_neig = subset(ds_neig, sample == TRUE)
test_neig = subset(ds_neig, sample == FALSE)

ds_neig_room = dataset %>% filter(neighbourhood_group == 2 & room_type == 1)
ds_neig_room = ds_neig_room[-1] [-3]

sample_neig = sample.split(ds_neig, SplitRatio = .75)
train_neig_room = subset(ds_neig_room, sample == TRUE)
test_neig_room = subset(ds_neig_room, sample == FALSE)

```

```
train_neig
```

```
##      latitude longitude room_type      price
## 1    40.75362 -73.98377        2 1.115229046
## 2    40.80902 -73.94190        1 0.233423650
## 4    40.74767 -73.97500        2 0.821293914
## 6    40.80178 -73.96723        1 -0.601352125
## 7    40.71344 -73.99037        2 0.233423650
## 9    40.76076 -73.98867        1 -0.530807693
## 11   40.73530 -74.00525        2 -0.119298508
## 12   40.74192 -73.99501        1 0.115849597
## 14   40.86754 -73.92639        1 -0.589594720
## 16   40.86482 -73.92106        1 -1.012861310
## 17   40.72920 -73.98542        2 0.586145808
## 19   40.81305 -73.95466        1 -0.918802068
## 21   40.71401 -73.98917        3 -1.059890931
## 22   40.72290 -73.98199        1 -0.730683583
## 24   40.81175 -73.94478        2 0.233423650
## 26   40.73961 -73.98074        2 0.821293914
## 27   40.72004 -73.99104        1 -0.236872561
## 29   40.72210 -73.99775        2 0.586145808
## 31   40.77065 -73.95269        2 1.409164178
## 32   40.75979 -73.99119        1 -0.918802068
## 34   40.72298 -73.98474        1 -0.366204019
## 36   40.72162 -73.98008        2 1.174016072
## 37   40.76342 -73.98865        1 -0.930559473
## 39   40.72828 -73.98801        2 0.703719861
## 41   40.74138 -74.00197        1 0.233423650
## 42   40.82915 -73.95136        2 -0.236872561
## 44   40.71140 -73.98794        1 -0.424991046
## 46   40.72912 -73.98057        1 -0.942316878
## 47   40.79764 -73.96177        2 0.115849597
## 49   40.74008 -74.00271        1 -0.377961425
## 51   40.83927 -73.94281        1 -0.765955799
## 52   40.80920 -73.94421        1 -0.354446614
## 54   40.72880 -73.98192        2 0.115849597
## 56   40.74294 -73.98009        2 0.809536509
## 57   40.77823 -73.97637        2 1.232803099
## 59   40.82754 -73.94919        2 0.468571756
## 61   40.72245 -73.98527        2 -0.354446614
## 62   40.77800 -73.94822        2 0.233423650
## 64   40.81618 -73.94894        2 -0.119298508
## 66   40.71341 -73.98856        2 -0.295659588
## 67   40.76754 -73.98399        1 -0.001724456
## 69   40.72354 -73.98295        2 0.762506888
## 71   40.79295 -73.93997        1 -0.718926178
## 72   40.73226 -74.00401        2 1.115229046
## 74   40.77456 -73.95323        2 -0.366204019
## 76   40.82704 -73.94907        2 -0.589594720
## 77   40.72518 -73.98034        1 -0.060511482
## 79   40.73756 -74.00405        2 0.468571756
## 81   40.73423 -74.00460        2 0.233423650
## 82   40.82374 -73.93730        2 -0.354446614
```

| | | | | |
|--------|-----------|-----------|---|--------------|
| ## 84 | 40.76834 | -73.95334 | 1 | -0.648381746 |
| ## 86 | 40.76307 | -73.99665 | 2 | 1.703099310 |
| ## 87 | 40.71882 | -73.98852 | 2 | 1.985277037 |
| ## 89 | 40.72319 | -73.99201 | 1 | -0.554322504 |
| ## 91 | 40.76244 | -73.99271 | 2 | 0.762506888 |
| ## 92 | 40.76548 | -73.98474 | 3 | -0.295659588 |
| ## 94 | 40.81035 | -73.94598 | 2 | -0.107541103 |
| ## 96 | 40.72773 | -73.99134 | 1 | -0.001724456 |
| ## 97 | 40.72861 | -74.00490 | 2 | 0.809536509 |
| ## 99 | 40.81219 | -73.94499 | 1 | -0.777713204 |
| ## 101 | 40.76720 | -73.98508 | 2 | 1.409164178 |
| ## 102 | 40.73012 | -73.99053 | 2 | 1.279832720 |
| ## 104 | 40.80931 | -73.94343 | 2 | 0.292210676 |
| ## 106 | 40.76193 | -73.95010 | 1 | -0.119298508 |
| ## 107 | 40.72052 | -73.98589 | 2 | 0.233423650 |
| ## 109 | 40.75890 | -73.96991 | 2 | 1.409164178 |
| ## 111 | 40.79163 | -73.94573 | 2 | -0.060511482 |
| ## 112 | 40.81180 | -73.94434 | 1 | -0.448505856 |
| ## 114 | 40.72654 | -73.98049 | 2 | -0.366204019 |
| ## 116 | 40.80942 | -73.93936 | 2 | 0.115849597 |
| ## 117 | 40.71961 | -73.99540 | 2 | 0.057062571 |
| ## 119 | 40.71445 | -73.99080 | 1 | -0.119298508 |
| ## 121 | 40.72680 | -73.99079 | 2 | -0.001724456 |
| ## 122 | 40.72477 | -73.98161 | 2 | 0.527358782 |
| ## 124 | 40.72185 | -73.98246 | 2 | 3.055200917 |
| ## 126 | 40.72807 | -73.98594 | 2 | 0.821293914 |
| ## 127 | 40.71702 | -73.99811 | 2 | -0.472020667 |
| ## 129 | 40.777956 | -73.98098 | 2 | -0.178085535 |
| ## 131 | 40.82888 | -73.94307 | 1 | -0.648381746 |
| ## 132 | 40.72681 | -73.98534 | 2 | 0.962382777 |
| ## 134 | 40.81322 | -73.95306 | 2 | 0.057062571 |
| ## 136 | 40.80393 | -73.95838 | 1 | -0.095783698 |
| ## 137 | 40.80082 | -73.96520 | 1 | -0.248629967 |
| ## 139 | 40.78971 | -73.97290 | 2 | 0.762506888 |
| ## 141 | 40.86713 | -73.92811 | 1 | -0.472020667 |
| ## 142 | 40.73198 | -73.98881 | 1 | -0.765955799 |
| ## 144 | 40.71659 | -73.98945 | 2 | -0.060511482 |
| ## 146 | 40.77728 | -73.97818 | 2 | -0.236872561 |
| ## 147 | 40.80892 | -73.93985 | 2 | -0.201600345 |
| ## 149 | 40.71876 | -73.98394 | 2 | 0.233423650 |
| ## 151 | 40.72329 | -73.98486 | 1 | -0.695411367 |
| ## 152 | 40.72399 | -73.98374 | 2 | 0.456814350 |
| ## 154 | 40.72843 | -73.98895 | 2 | 0.104092192 |
| ## 156 | 40.71965 | -73.98766 | 2 | 0.233423650 |
| ## 157 | 40.73877 | -73.97707 | 2 | -0.060511482 |
| ## 159 | 40.79406 | -73.94102 | 3 | -0.765955799 |
| ## 161 | 40.78558 | -73.96960 | 2 | 0.962382777 |
| ## 162 | 40.72577 | -73.98745 | 2 | 1.397406773 |
| ## 164 | 40.77944 | -73.98567 | 2 | -0.119298508 |
| ## 166 | 40.80540 | -73.95189 | 1 | -0.472020667 |
| ## 167 | 40.78491 | -73.95080 | 2 | 1.115229046 |
| ## 169 | 40.71895 | -73.99434 | 2 | 0.950625372 |
| ## 171 | 40.82399 | -73.95328 | 1 | -0.765955799 |
| ## 172 | 40.81822 | -73.94095 | 2 | -0.366204019 |

| | | | | |
|--------|----------|-----------|---|--------------|
| ## 174 | 40.73067 | -73.98702 | 1 | -0.507292883 |
| ## 176 | 40.72533 | -73.99143 | 2 | 3.113987944 |
| ## 177 | 40.72939 | -73.98857 | 2 | 0.691962456 |
| ## 179 | 40.81333 | -73.94453 | 2 | -0.095783698 |
| ## 181 | 40.74630 | -73.97926 | 1 | -0.001724456 |
| ## 182 | 40.74488 | -74.00100 | 2 | 0.021790355 |
| ## 184 | 40.72255 | -73.99346 | 2 | 2.878839838 |
| ## 186 | 40.72485 | -73.97813 | 2 | 0.233423650 |
| ## 187 | 40.80473 | -73.95320 | 2 | 1.514980826 |
| ## 189 | 40.74249 | -74.00329 | 2 | 0.821293914 |
| ## 191 | 40.80474 | -73.94688 | 2 | 1.938247416 |
| ## 192 | 40.72831 | -74.00177 | 2 | 0.527358782 |
| ## 194 | 40.78508 | -73.95332 | 2 | 1.409164178 |
| ## 196 | 40.72674 | -73.97820 | 1 | -0.413233640 |
| ## 197 | 40.81156 | -73.94571 | 1 | -0.883529852 |
| ## 199 | 40.72587 | -73.98438 | 1 | 0.527358782 |
| ## 201 | 40.74346 | -73.99882 | 1 | 0.233423650 |
| ## 202 | 40.77724 | -73.98109 | 2 | 0.821293914 |
| ## 204 | 40.83096 | -73.94633 | 2 | 1.938247416 |
| ## 206 | 40.72636 | -73.98917 | 2 | -0.366204019 |
| ## 207 | 40.72351 | -73.99683 | 1 | 0.115849597 |
| ## 209 | 40.80006 | -73.96049 | 2 | 1.409164178 |
| ## 211 | 40.74342 | -73.99483 | 2 | 0.880080940 |
| ## 212 | 40.77886 | -73.98042 | 2 | 0.644932835 |
| ## 214 | 40.80113 | -73.94503 | 2 | 1.409164178 |
| ## 216 | 40.82411 | -73.94934 | 1 | -0.765955799 |
| ## 217 | 40.79320 | -73.94007 | 2 | -0.601352125 |
| ## 219 | 40.71473 | -73.98842 | 1 | -0.178085535 |
| ## 221 | 40.80827 | -73.95329 | 3 | -0.954074283 |
| ## 222 | 40.73476 | -73.98452 | 2 | 3.172774970 |
| ## 224 | 40.73939 | -73.99612 | 2 | 3.513739723 |
| ## 226 | 40.72019 | -73.98217 | 1 | -0.119298508 |
| ## 227 | 40.72133 | -73.99666 | 2 | 1.997034442 |
| ## 229 | 40.79056 | -73.94680 | 2 | -0.119298508 |
| ## 231 | 40.73712 | -74.00166 | 1 | -0.354446614 |
| ## 232 | 40.73862 | -73.99758 | 2 | 1.409164178 |
| ## 234 | 40.76311 | -73.99388 | 1 | -0.366204019 |
| ## 236 | 40.76684 | -73.95944 | 2 | 0.456814350 |
| ## 237 | 40.72566 | -73.97748 | 1 | -0.236872561 |
| ## 239 | 40.74033 | -74.00024 | 2 | 0.221666245 |
| ## 241 | 40.83403 | -73.94553 | 1 | -0.942316878 |
| ## 242 | 40.76415 | -73.99067 | 2 | 0.221666245 |
| ## 244 | 40.82922 | -73.94174 | 1 | -0.648381746 |
| ## 246 | 40.73089 | -73.98195 | 2 | 0.350997703 |
| ## 247 | 40.76940 | -73.95720 | 2 | 0.703719861 |
| ## 249 | 40.75895 | -73.98830 | 1 | 0.233423650 |
| ## 251 | 40.73854 | -74.00821 | 1 | -0.589594720 |
| ## 252 | 40.75877 | -73.98863 | 2 | 1.174016072 |
| ## 254 | 40.79816 | -73.96190 | 2 | 1.997034442 |
| ## 256 | 40.71813 | -73.98416 | 2 | 0.809536509 |
| ## 257 | 40.71892 | -73.98401 | 2 | 0.809536509 |
| ## 259 | 40.82748 | -73.95153 | 1 | -0.883529852 |
| ## 261 | 40.72956 | -73.99287 | 1 | 1.409164178 |
| ## 262 | 40.71193 | -74.00817 | 1 | 0.233423650 |

| | | | | |
|--------|----------|-----------|---|--------------|
| ## 264 | 40.80486 | -73.95298 | 1 | -0.718926178 |
| ## 266 | 40.74267 | -73.98569 | 2 | -0.060511482 |
| ## 267 | 40.72416 | -73.98530 | 2 | 1.855945579 |
| ## 269 | 40.71611 | -73.99828 | 1 | -0.236872561 |
| ## 271 | 40.72645 | -73.98035 | 1 | -0.483778072 |
| ## 272 | 40.79239 | -73.94535 | 2 | 0.057062571 |
| ## 274 | 40.72599 | -74.00168 | 1 | 1.644312284 |
| ## 276 | 40.76166 | -73.99675 | 2 | 0.574388403 |
| ## 277 | 40.75575 | -73.96842 | 1 | -0.236872561 |
| ## 279 | 40.74000 | -74.00381 | 1 | -0.001724456 |
| ## 281 | 40.72066 | -73.98506 | 2 | 0.821293914 |
| ## 282 | 40.72264 | -73.98370 | 2 | 0.350997703 |
| ## 284 | 40.73268 | -73.99255 | 2 | 1.303347531 |
| ## 286 | 40.71693 | -73.98948 | 2 | -0.354446614 |
| ## 287 | 40.73685 | -73.98359 | 2 | 3.161017565 |
| ## 289 | 40.85888 | -73.92886 | 1 | -0.695411367 |
| ## 291 | 40.73834 | -73.98230 | 2 | 0.057062571 |
| ## 292 | 40.71876 | -73.98851 | 2 | 0.280453271 |
| ## 294 | 40.85099 | -73.92822 | 1 | -0.060511482 |
| ## 296 | 40.81068 | -73.94288 | 1 | -0.060511482 |
| ## 297 | 40.81122 | -73.94279 | 2 | 3.172774970 |
| ## 299 | 40.71460 | -73.99100 | 1 | -0.178085535 |
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| ## 304 | 40.74031 | -74.00532 | 2 | 2.290969574 |
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| ## 307 | 40.76928 | -73.95021 | 2 | 0.691962456 |
| ## 309 | 40.70523 | -74.01345 | 1 | -0.342689209 |
| ## 311 | 40.73378 | -74.00429 | 2 | 2.878839838 |
| ## 312 | 40.72087 | -73.99022 | 2 | 0.268695866 |
| ## 314 | 40.73312 | -74.00420 | 2 | 1.997034442 |
| ## 316 | 40.82151 | -73.94516 | 2 | 0.292210676 |
| ## 317 | 40.79433 | -73.97650 | 2 | 1.115229046 |
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| ## 324 | 40.74139 | -74.00050 | 2 | 1.056442020 |
| ## 326 | 40.71905 | -73.99677 | 2 | 0.809536509 |
| ## 327 | 40.70741 | -74.00102 | 1 | -0.765955799 |
| ## 329 | 40.79951 | -73.95257 | 2 | -0.001724456 |
| ## 331 | 40.72454 | -73.99151 | 2 | 1.409164178 |
| ## 332 | 40.75282 | -73.97315 | 2 | -0.060511482 |
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| ## 339 | 40.77368 | -73.95198 | 2 | -0.236872561 |
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| ## 349 | 40.76001 | -73.99133 | 2 | 0.527358782 |
| ## 351 | 40.73119 | -73.98819 | 1 | 1.997034442 |
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| ## 354 | 40.76147 | -73.99152 | 2 | 0.409784729 |
| ## 356 | 40.72506 | -73.98865 | 2 | 1.044684614 |
| ## 357 | 40.72891 | -74.00293 | 2 | 3.760645234 |
| ## 359 | 40.71283 | -73.99703 | 2 | 0.104092192 |
| ## 361 | 40.73908 | -74.00378 | 1 | -0.472020667 |
| ## 362 | 40.76250 | -73.98690 | 2 | 0.809536509 |
| ## 364 | 40.77611 | -73.97808 | 2 | 0.233423650 |
| ## 366 | 40.77272 | -73.95307 | 1 | 0.703719861 |
| ## 367 | 40.72509 | -74.00304 | 2 | 1.409164178 |
| ## 369 | 40.79680 | -73.93611 | 2 | 0.233423650 |
| ## 371 | 40.78012 | -73.98439 | 2 | 1.938247416 |
| ## 372 | 40.77508 | -73.97990 | 2 | 0.233423650 |
| ## 374 | 40.82286 | -73.94596 | 1 | -0.648381746 |
| ## 376 | 40.78443 | -73.97399 | 2 | -0.248629967 |
| ## 377 | 40.79107 | -73.94381 | 1 | -0.519050288 |
| ## 379 | 40.73171 | -73.98717 | 1 | -0.483778072 |
| ## 381 | 40.80343 | -73.95310 | 1 | -0.236872561 |
| ## 382 | 40.80760 | -73.94433 | 2 | 0.057062571 |
| ## 384 | 40.83456 | -73.94570 | 2 | -0.178085535 |
| ## 386 | 40.77892 | -73.98238 | 2 | 4.336758093 |
| ## 387 | 40.77688 | -73.96177 | 1 | -0.248629967 |
| ## 389 | 40.77471 | -73.95574 | 2 | 0.339240298 |
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| ## 397 | 40.82772 | -73.93877 | 1 | -0.589594720 |
| ## 399 | 40.79526 | -73.96550 | 2 | 3.019928702 |
| ## 401 | 40.77577 | -73.98258 | 2 | -0.366204019 |
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| ## 407 | 40.73104 | -74.00879 | 1 | 0.762506888 |
| ## 409 | 40.72886 | -74.00013 | 1 | -0.354446614 |
| ## 411 | 40.72143 | -73.98117 | 2 | 0.691962456 |
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| ## 417 | 40.74553 | -73.98943 | 1 | 0.057062571 |
| ## 419 | 40.79967 | -73.95156 | 1 | 0.527358782 |
| ## 421 | 40.75643 | -73.99046 | 2 | 0.821293914 |
| ## 422 | 40.80491 | -73.94866 | 1 | 0.350997703 |
| ## 424 | 40.87039 | -73.91611 | 1 | -0.354446614 |
| ## 426 | 40.76082 | -73.97548 | 2 | 1.409164178 |
| ## 427 | 40.74238 | -73.98122 | 1 | -0.660139151 |
| ## 429 | 40.83434 | -73.94027 | 1 | -0.366204019 |
| ## 431 | 40.76013 | -73.99007 | 1 | -0.307416993 |
| ## 432 | 40.70621 | -74.01525 | 2 | 1.115229046 |
| ## 434 | 40.74125 | -73.98862 | 2 | 2.584904706 |
| ## 436 | 40.78240 | -73.98294 | 1 | -0.060511482 |
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| ## 444 | 40.74530 | -73.99056 | 1 | 0.174636624 |
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| ## 451 | 40.75816 | -73.96457 | 2 | 1.703099310 |
| ## 452 | 40.70537 | -74.00992 | 2 | 0.350997703 |
| ## 454 | 40.72978 | -73.97930 | 1 | -0.060511482 |
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| ## 457 | 40.75590 | -73.99469 | 2 | 2.290969574 |
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| ## 474 | 40.77593 | -73.97699 | 2 | -0.472020667 |
| ## 476 | 40.81790 | -73.94319 | 1 | -0.424991046 |
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| ## 484 | 40.74760 | -73.99698 | 2 | 0.104092192 |
| ## 486 | 40.73204 | -74.00189 | 2 | 2.173395521 |
| ## 487 | 40.81713 | -73.94217 | 1 | -0.648381746 |
| ## 489 | 40.76719 | -73.95303 | 2 | 0.233423650 |
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| ## 497 | 40.80661 | -73.95760 | 1 | -0.483778072 |
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| ## 506 | 40.74428 | -73.97809 | 2 | 0.057062571 |
| ## 507 | 40.74087 | -74.00226 | 2 | 2.937626865 |
| ## 509 | 40.71950 | -73.98022 | 2 | -0.060511482 |
| ## 511 | 40.71164 | -74.00774 | 2 | 2.326241790 |
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| ## 517 | 40.71668 | -73.99073 | 2 | 0.233423650 |
| ## 519 | 40.72686 | -73.97970 | 2 | 1.056442020 |
| ## 521 | 40.82392 | -73.94205 | 1 | -0.601352125 |
| ## 522 | 40.79520 | -73.96240 | 1 | -0.366204019 |
| ## 524 | 40.72701 | -74.00110 | 2 | 0.797779103 |
| ## 526 | 40.72903 | -74.00028 | 2 | 0.586145808 |
| ## 527 | 40.79842 | -73.96903 | 2 | 0.233423650 |
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| ## 531 | 40.72760 | -73.98347 | 1 | -0.683653962 |
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| ## 534 | 40.73951 | -73.98146 | 2 | 0.174636624 |
| ## 536 | 40.74348 | -73.99980 | 2 | 0.821293914 |
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| ## 541 | 40.74341 | -73.99298 | 1 | 0.468571756 |
| ## 542 | 40.72915 | -73.98019 | 2 | -0.142813319 |
| ## 544 | 40.72246 | -73.99552 | 2 | 0.233423650 |
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| ## 547 | 40.74129 | -73.98374 | 2 | 1.585525257 |
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| ## 552 | 40.78111 | -73.97739 | 1 | -0.436748451 |
| ## 554 | 40.73176 | -73.99895 | 1 | 1.938247416 |
| ## 556 | 40.72829 | -73.98156 | 2 | -0.366204019 |
| ## 557 | 40.74403 | -73.99581 | 2 | 1.115229046 |
| ## 559 | 40.79358 | -73.97043 | 2 | -0.330931804 |
| ## 561 | 40.83064 | -73.94076 | 2 | 0.468571756 |
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| ## 566 | 40.76304 | -73.98880 | 2 | 0.762506888 |
| ## 567 | 40.72987 | -74.00082 | 1 | -0.601352125 |
| ## 569 | 40.72564 | -73.98252 | 2 | -0.472020667 |
| ## 571 | 40.79640 | -73.96750 | 2 | 0.938867967 |
| ## 572 | 40.74664 | -73.99441 | 2 | 3.161017565 |
| ## 574 | 40.81757 | -73.94709 | 2 | 1.056442020 |
| ## 576 | 40.72718 | -73.98120 | 1 | -0.366204019 |
| ## 577 | 40.72274 | -73.97934 | 2 | 1.938247416 |
| ## 579 | 40.73481 | -73.99845 | 2 | 0.174636624 |
| ## 581 | 40.73971 | -74.00221 | 1 | -0.060511482 |
| ## 582 | 40.75767 | -73.99034 | 2 | 0.703719861 |
| ## 584 | 40.72819 | -73.97933 | 1 | -0.272144777 |
| ## 586 | 40.81199 | -73.95116 | 1 | -0.601352125 |
| ## 587 | 40.78292 | -73.97438 | 2 | -0.119298508 |
| ## 589 | 40.79785 | -73.97202 | 2 | 0.409784729 |
| ## 591 | 40.71328 | -73.99315 | 1 | -0.401476235 |
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| ## 594 | 40.77032 | -73.99493 | 1 | -0.119298508 |
| ## 596 | 40.73041 | -74.00326 | 2 | 0.821293914 |
| ## 597 | 40.72372 | -74.00277 | 2 | 0.809536509 |
| ## 599 | 40.72466 | -73.99632 | 1 | -0.060511482 |
| ## 601 | 40.77247 | -73.94665 | 2 | -0.236872561 |
| ## 602 | 40.75128 | -73.97658 | 2 | 0.409784729 |
| ## 604 | 40.86284 | -73.91955 | 1 | -0.883529852 |
| ## 606 | 40.74026 | -74.00079 | 2 | 1.703099310 |
| ## 607 | 40.73474 | -73.99527 | 2 | 2.361514006 |
| ## 609 | 40.78390 | -73.97897 | 2 | 0.574388403 |
| ## 611 | 40.76257 | -73.99303 | 2 | 1.397406773 |
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| ## 616 | 40.81726 | -73.94583 | 2 | -0.589594720 |
| ## 617 | 40.71655 | -74.01171 | 2 | -0.001724456 |
| ## 619 | 40.74519 | -73.98338 | 2 | 0.233423650 |
| ## 621 | 40.80352 | -73.95127 | 2 | 0.068819976 |
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| ## 624 | 40.75920 | -73.99133 | 2 | 0.209908839 |
| ## 626 | 40.73082 | -73.98502 | 2 | 0.527358782 |
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| ## 629 | 40.72812 | -74.00191 | 2 | 1.115229046 |
| ## 631 | 40.72095 | -73.99401 | 2 | 0.350997703 |
| ## 632 | 40.79913 | -73.96057 | 1 | -0.824742825 |
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| ## 662 | 40.73354 | -73.98593 | 2 | -0.036996671 |
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| ## 666 | 40.74100 | -73.99957 | 2 | 1.409164178 |
| ## 667 | 40.74027 | -73.98061 | 2 | 1.938247416 |
| ## 669 | 40.72771 | -73.98172 | 1 | -0.648381746 |
| ## 671 | 40.86186 | -73.92701 | 1 | -0.942316878 |
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| ## 674 | 40.73456 | -74.00347 | 1 | -0.495535477 |
| ## 676 | 40.71950 | -73.99416 | 1 | 0.433299540 |
| ## 677 | 40.80829 | -73.94260 | 2 | -0.060511482 |
| ## 679 | 40.79417 | -73.95101 | 1 | -0.448505856 |
| ## 681 | 40.73477 | -74.00275 | 2 | 0.574388403 |
| ## 682 | 40.80314 | -73.95768 | 1 | -0.883529852 |
| ## 684 | 40.74851 | -73.97796 | 2 | 0.045305165 |
| ## 686 | 40.80373 | -73.96790 | 1 | -0.131055914 |
| ## 687 | 40.72912 | -73.98355 | 2 | -0.413233640 |
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| ## 691 | 40.77392 | -73.97852 | 2 | -0.354446614 |
| ## 692 | 40.76422 | -73.99382 | 1 | -0.648381746 |
| ## 694 | 40.86737 | -73.91877 | 2 | -0.883529852 |
| ## 696 | 40.74034 | -74.00259 | 1 | -0.683653962 |
| ## 697 | 40.73105 | -74.00285 | 2 | 1.409164178 |
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| ## 701 | 40.80748 | -73.94869 | 2 | 1.985277037 |
| ## 702 | 40.79854 | -73.96089 | 1 | -0.354446614 |
| ## 704 | 40.74225 | -73.99492 | 2 | 3.466710102 |
| ## 706 | 40.73795 | -74.00593 | 2 | 4.289728472 |
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| ## 714 | 40.71625 | -73.98430 | 2 | 0.456814350 |
| ## 716 | 40.74056 | -73.99262 | 2 | 2.878839838 |
| ## 717 | 40.81073 | -73.94370 | 1 | -0.707168773 |
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| ## 722 | 40.74092 | -74.00037 | 2 | 0.115849597 |
| ## 724 | 40.75154 | -73.97104 | 2 | -0.283902182 |
| ## 726 | 40.72849 | -73.98041 | 2 | 1.397406773 |
| ## 727 | 40.72369 | -73.98940 | 2 | -0.119298508 |
| ## 729 | 40.78674 | -73.97243 | 2 | 0.480329161 |
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| ## 732 | 40.71778 | -74.00452 | 2 | 0.938867967 |
| ## 734 | 40.73454 | -74.00365 | 2 | 2.584904706 |
| ## 736 | 40.85963 | -73.93107 | 1 | -0.389718830 |
| ## 737 | 40.72290 | -73.99574 | 2 | 0.809536509 |
| ## 739 | 40.72064 | -73.99605 | 2 | -0.060511482 |
| ## 741 | 40.76412 | -73.97666 | 2 | 0.468571756 |
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| ## 744 | 40.74314 | -74.00119 | 1 | 0.292210676 |
| ## 746 | 40.72699 | -73.97969 | 2 | 0.574388403 |
| ## 747 | 40.77938 | -73.98247 | 1 | -0.366204019 |
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| ## 759 | 40.83556 | -73.94609 | 1 | -0.765955799 |
| ## 761 | 40.73997 | -73.98789 | 2 | 0.762506888 |
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| ## 764 | 40.80343 | -73.93514 | 2 | -0.119298508 |
| ## 766 | 40.73461 | -74.000594 | 3 | 2.584904706 |
| ## 767 | 40.72578 | -73.98448 | 1 | -0.836500231 |
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| ## 774 | 40.73164 | -74.00327 | 2 | 0.703719861 |
| ## 776 | 40.73186 | -74.00329 | 1 | 0.350997703 |
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| ## 787 | 40.85082 | -73.93780 | 1 | -0.589594720 |
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| ## 804 | 40.85262 | -73.93821 | 2 | 0.727234672 |
| ## 806 | 40.82974 | -73.94193 | 1 | -0.530807693 |
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| ## 817 | 40.73713 | -74.00232 | 2 | 1.291590125 |
| ## 819 | 40.71988 | -73.98639 | 2 | 1.115229046 |
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| ## 822 | 40.73227 | -74.00949 | 2 | 2.467330653 |
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| ## 841 | 40.80394 | -73.95060 | 1 | -0.718926178 |
| ## 842 | 40.73588 | -73.99224 | 1 | -0.765955799 |
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| ## 846 | 40.77627 | -73.98365 | 2 | 0.221666245 |
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| ## 877 | 40.73118 | -74.00290 | 2 | 1.232803099 |
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| ## 932 | 40.74435 | -74.00038 | 2 | -0.072268887 |
| ## 934 | 40.71890 | -73.99654 | 2 | 0.350997703 |
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| ## 984 | 40.80132 | -73.95568 | 3 | -0.648381746 |
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| ## 1021 | 40.71972 | -73.99438 | 2 | 0.221666245 |
| ## 1022 | 40.75964 | -73.98534 | 1 | 0.644932835 |
| ## 1024 | 40.74877 | -73.99940 | 2 | 1.997034442 |
| ## 1026 | 40.83535 | -73.94334 | 1 | -1.059890931 |
| ## 1027 | 40.78859 | -73.94715 | 1 | -0.648381746 |
| ## 1029 | 40.80602 | -73.95362 | 1 | -0.530807693 |
| ## 1031 | 40.83695 | -73.94124 | 2 | 0.527358782 |
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| ## 1054 | 40.74057 | -73.99771 | 2 | -0.472020667 |
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| ## 1074 | 40.73020 | -74.00165 | 2 | 1.115229046 |
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| ## 1097 | 40.75099 | -73.96994 | 2 | 0.821293914 |
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| ## 1101 | 40.82393 | -73.95308 | 1 | -0.413233640 |
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| ## 1104 | 40.74389 | -73.99159 | 1 | 0.057062571 |
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| ## 1114 | 40.76398 | -73.95890 | 2 | -0.060511482 |
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| ## 1117 | 40.81388 | -73.95105 | 1 | -0.413233640 |
| ## 1119 | 40.74331 | -73.98351 | 1 | -0.236872561 |
| ## 1121 | 40.72160 | -73.98204 | 2 | 0.821293914 |
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| ## 1159 | 40.80862 | -73.94516 | 2 | 0.644932835 |
| ## 1161 | 40.80998 | -73.95898 | 1 | -0.648381746 |
| ## 1162 | 40.76178 | -73.96713 | 2 | 1.761886337 |

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| ## 1164 | 40.72631 | -73.99387 | 2 | 1.409164178 |
| ## 1166 | 40.75639 | -73.96558 | 2 | 1.044684614 |
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| ## 1172 | 40.83300 | -73.93806 | 2 | -0.366204019 |
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| ## 1182 | 40.80684 | -73.96404 | 2 | 0.350997703 |
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| ## 1201 | 40.81623 | -73.94907 | 2 | -0.060511482 |
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| ## 1204 | 40.72230 | -73.98210 | 2 | 0.115849597 |
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| ## 1207 | 40.80028 | -73.96180 | 2 | 0.562630998 |
| ## 1209 | 40.76582 | -73.99468 | 2 | 1.997034442 |
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| ## 1216 | 40.72247 | -73.97947 | 1 | -0.671896557 |
| ## 1217 | 40.71608 | -73.98962 | 2 | 0.574388403 |
| ## 1219 | 40.72450 | -73.99419 | 2 | 1.985277037 |
| ## 1221 | 40.71501 | -73.98061 | 1 | -0.954074283 |
| ## 1222 | 40.75028 | -73.99533 | 2 | -0.401476235 |
| ## 1224 | 40.80427 | -73.95404 | 1 | -0.354446614 |
| ## 1226 | 40.70582 | -74.00888 | 2 | 3.055200917 |
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| ## 1232 | 40.74461 | -74.00172 | 2 | 0.115849597 |
| ## 1234 | 40.79004 | -73.94846 | 3 | -0.718926178 |
| ## 1236 | 40.71908 | -73.99976 | 2 | 0.233423650 |
| ## 1237 | 40.78357 | -73.97268 | 2 | -0.107541103 |
| ## 1239 | 40.80330 | -73.95008 | 2 | 0.057062571 |
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| ## 1249 | 40.72545 | -73.99492 | 2 | -0.472020667 |
| ## 1251 | 40.79255 | -73.93842 | 1 | -0.060511482 |
| ## 1252 | 40.82453 | -73.94923 | 2 | 0.292210676 |

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| ## 1254 | 40.71702 | -73.99566 | 2 | 1.997034442 |
| ## 1256 | 40.73158 | -73.99254 | 2 | 1.291590125 |
| ## 1257 | 40.83399 | -73.94474 | 2 | -0.683653962 |
| ## 1259 | 40.75290 | -73.97094 | 2 | 0.527358782 |
| ## 1261 | 40.70939 | -74.00121 | 2 | 3.407923076 |
| ## 1262 | 40.74611 | -73.99209 | 2 | 1.938247416 |
| ## 1264 | 40.73082 | -73.98693 | 2 | 0.350997703 |
| ## 1266 | 40.81606 | -73.94363 | 3 | -0.530807693 |
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| ## 1269 | 40.83942 | -73.93855 | 1 | -0.601352125 |
| ## 1271 | 40.71915 | -73.99309 | 2 | 0.233423650 |
| ## 1272 | 40.81307 | -73.93854 | 1 | -0.589594720 |
| ## 1274 | 40.73380 | -74.00328 | 2 | 0.233423650 |
| ## 1276 | 40.77118 | -73.95270 | 1 | 0.233423650 |
| ## 1277 | 40.72831 | -73.99870 | 2 | 2.937626865 |
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| ## 1281 | 40.76544 | -73.98820 | 2 | 0.644932835 |
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| ## 1286 | 40.78540 | -73.97368 | 1 | 2.114608495 |
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| ## 1291 | 40.76493 | -73.98652 | 2 | 0.233423650 |
| ## 1292 | 40.76703 | -73.98874 | 2 | 0.762506888 |
| ## 1294 | 40.74011 | -73.98185 | 2 | 0.821293914 |
| ## 1296 | 40.81326 | -73.96181 | 1 | 1.056442020 |
| ## 1297 | 40.81740 | -73.94629 | 2 | -0.236872561 |
| ## 1299 | 40.74722 | -73.97734 | 1 | -0.883529852 |
| ## 1301 | 40.79770 | -73.93754 | 1 | -0.648381746 |
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| ## 1312 | 40.74035 | -74.00615 | 2 | 3.643071182 |
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| ## 1317 | 40.79086 | -73.96683 | 2 | 3.631313776 |
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| ## 1327 | 40.73236 | -73.99920 | 2 | 1.526738231 |
| ## 1329 | 40.77219 | -73.95073 | 2 | 0.809536509 |
| ## 1331 | 40.78952 | -73.98097 | 2 | 3.172774970 |
| ## 1332 | 40.74314 | -73.99570 | 2 | 0.821293914 |
| ## 1334 | 40.77648 | -73.96126 | 2 | 1.115229046 |
| ## 1336 | 40.74563 | -73.99325 | 1 | -0.472020667 |
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| ## 1341 | 40.78852 | -73.96746 | 2 | 3.055200917 |
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| ## 1344 | 40.76456 | -73.98233 | 2 | 1.409164178 |
| ## 1346 | 40.71481 | -74.00934 | 2 | 0.633175430 |
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| ## 1354 | 40.81569 | -73.96058 | 1 | -0.354446614 |
| ## 1356 | 40.73246 | -74.00215 | 2 | 0.809536509 |
| ## 1357 | 40.80126 | -73.94540 | 1 | -0.648381746 |
| ## 1359 | 40.74166 | -73.99892 | 1 | -0.472020667 |
| ## 1361 | 40.82519 | -73.94530 | 1 | -0.824742825 |
| ## 1362 | 40.72644 | -73.99230 | 2 | 0.527358782 |
| ## 1364 | 40.72569 | -73.99227 | 2 | 3.819432261 |
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| ## 1367 | 40.72210 | -73.98356 | 2 | 3.407923076 |
| ## 1369 | 40.73679 | -73.98177 | 2 | 0.762506888 |
| ## 1371 | 40.73285 | -73.98245 | 2 | 3.172774970 |
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| ## 1374 | 40.73865 | -73.99620 | 2 | 1.997034442 |
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| ## 1381 | 40.76129 | -73.96869 | 2 | 1.761886337 |
| ## 1382 | 40.75250 | -73.96492 | 2 | 0.997654993 |
| ## 1384 | 40.72369 | -73.97530 | 2 | -0.319174398 |
| ## 1386 | 40.71417 | -74.00678 | 2 | 1.291590125 |
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| ## 1389 | 40.72485 | -73.98349 | 1 | -0.413233640 |
| ## 1391 | 40.72335 | -73.98549 | 2 | 1.115229046 |
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| ## 1401 | 40.76316 | -73.99358 | 2 | 0.821293914 |
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| ## 1426 | 40.82954 | -73.94436 | 1 | -1.001103905 |
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| ## 1434 | 40.80026 | -73.95197 | 3 | -1.001103905 |
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| ## 1444 | 40.72815 | -73.98059 | 2 | 1.938247416 |
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| ## 1451 | 40.76435 | -73.99054 | 2 | 0.821293914 |
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| ## 1471 | 40.72796 | -73.99761 | 1 | 0.233423650 |
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| ## 1501 | 40.86888 | -73.92059 | 1 | -1.001103905 |
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| ## 1524 | 40.71892 | -73.98383 | 2 | -0.354446614 |
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| ## 1531 | 40.72852 | -73.98705 | 2 | 0.233423650 |
| ## 1532 | 40.80121 | -73.95063 | 1 | -0.178085535 |
| ## 1534 | 40.79053 | -73.96956 | 2 | 0.809536509 |
| ## 1536 | 40.79981 | -73.94048 | 1 | -0.648381746 |
| ## 1537 | 40.72829 | -73.98907 | 1 | -0.718926178 |
| ## 1539 | 40.75184 | -73.97199 | 2 | -0.283902182 |
| ## 1541 | 40.77928 | -73.97966 | 2 | -0.119298508 |
| ## 1542 | 40.74282 | -73.98030 | 1 | -0.648381746 |
| ## 1544 | 40.77127 | -73.95033 | 2 | -0.648381746 |
| ## 1546 | 40.74374 | -74.00044 | 2 | 0.809536509 |
| ## 1547 | 40.75053 | -73.97747 | 2 | 0.527358782 |
| ## 1549 | 40.73899 | -73.98153 | 2 | 0.527358782 |
| ## 1551 | 40.71715 | -73.98936 | 2 | -0.236872561 |
| ## 1552 | 40.71864 | -73.98496 | 2 | 0.703719861 |
| ## 1554 | 40.80033 | -73.96509 | 2 | 0.233423650 |
| ## 1556 | 40.72247 | -73.97923 | 2 | 1.985277037 |
| ## 1557 | 40.71651 | -73.99053 | 2 | 0.456814350 |
| ## 1559 | 40.73552 | -74.00716 | 2 | 1.279832720 |
| ## 1561 | 40.74611 | -74.00014 | 2 | 1.056442020 |
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| ## 1566 | 40.76352 | -73.95548 | 2 | 0.057062571 |
| ## 1567 | 40.77452 | -73.94951 | 2 | 0.233423650 |
| ## 1569 | 40.77747 | -73.98095 | 1 | 0.233423650 |
| ## 1571 | 40.75426 | -73.96886 | 2 | 0.115849597 |
| ## 1572 | 40.78835 | -73.96810 | 2 | 0.821293914 |
| ## 1574 | 40.73646 | -73.98337 | 2 | 0.762506888 |
| ## 1576 | 40.73192 | -74.00433 | 2 | 0.303968082 |
| ## 1577 | 40.72859 | -73.98957 | 1 | -0.119298508 |
| ## 1579 | 40.77517 | -73.98829 | 2 | 1.997034442 |
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| ## 1582 | 40.83454 | -73.94224 | 2 | -0.354446614 |
| ## 1584 | 40.73236 | -74.00353 | 2 | 0.821293914 |
| ## 1586 | 40.78881 | -73.98116 | 2 | 0.821293914 |
| ## 1587 | 40.72975 | -74.00414 | 2 | 2.290969574 |
| ## 1589 | 40.70912 | -74.01322 | 2 | 2.925869459 |
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| ## 1594 | 40.76613 | -73.98721 | 2 | 0.586145808 |
| ## 1596 | 40.72934 | -73.99983 | 2 | 0.938867967 |
| ## 1597 | 40.78689 | -73.96985 | 2 | 1.115229046 |
| ## 1599 | 40.74487 | -73.97452 | 2 | -0.060511482 |
| ## 1601 | 40.81968 | -73.95353 | 1 | -0.436748451 |
| ## 1602 | 40.77459 | -73.95149 | 1 | -0.530807693 |
| ## 1604 | 40.71978 | -73.98643 | 2 | 1.103471641 |
| ## 1606 | 40.75667 | -73.96464 | 1 | -0.389718830 |
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| ## 1609 | 40.78360 | -73.95093 | 2 | 2.032306658 |
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| ## 1614 | 40.76252 | -73.98376 | 2 | 0.821293914 |
| ## 1616 | 40.81200 | -73.95367 | 1 | -0.472020667 |
| ## 1617 | 40.77608 | -73.97614 | 2 | 2.467330653 |
| ## 1619 | 40.72456 | -73.98004 | 2 | 0.350997703 |
| ## 1621 | 40.74106 | -74.00262 | 1 | -0.589594720 |
| ## 1622 | 40.74259 | -73.99708 | 2 | 0.350997703 |
| ## 1624 | 40.72358 | -73.98670 | 2 | -0.354446614 |
| ## 1626 | 40.76293 | -73.98981 | 2 | 0.233423650 |
| ## 1627 | 40.78328 | -73.95273 | 2 | 1.997034442 |
| ## 1629 | 40.72422 | -73.98211 | 2 | 1.115229046 |
| ## 1631 | 40.84058 | -73.93885 | 2 | -0.589594720 |
| ## 1632 | 40.84119 | -73.93900 | 1 | -0.472020667 |
| ## 1634 | 40.84531 | -73.93583 | 1 | -0.883529852 |
| ## 1636 | 40.73776 | -73.99996 | 2 | 0.303968082 |
| ## 1637 | 40.73087 | -73.98713 | 2 | 0.586145808 |
| ## 1639 | 40.71539 | -73.99379 | 2 | 0.350997703 |
| ## 1641 | 40.73747 | -74.00014 | 1 | -0.236872561 |
| ## 1642 | 40.74361 | -73.97677 | 2 | 0.233423650 |
| ## 1644 | 40.74047 | -73.99508 | 2 | 0.997654993 |
| ## 1646 | 40.82649 | -73.95253 | 1 | -0.765955799 |
| ## 1647 | 40.71969 | -73.99287 | 2 | 1.409164178 |
| ## 1649 | 40.78340 | -73.97904 | 2 | 3.113987944 |
| ## 1651 | 40.78835 | -73.97257 | 2 | -0.824742825 |
| ## 1652 | 40.83426 | -73.94758 | 1 | -0.883529852 |
| ## 1654 | 40.74502 | -74.00429 | 2 | 1.820673363 |
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| ## 1659 | 40.72672 | -73.98851 | 3 | -1.177464984 |
| ## 1661 | 40.74383 | -73.97909 | 2 | 3.407923076 |
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| ## 1669 | 40.78158 | -73.94808 | 2 | -0.236872561 |
| ## 1671 | 40.79891 | -73.96705 | 1 | -0.483778072 |
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| ## 1686 | 40.74610 | -73.97628 | 2 | 0.527358782 |
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| ## 1689 | 40.80119 | -73.95295 | 1 | -0.577837314 |
| ## 1691 | 40.78345 | -73.97858 | 2 | 0.233423650 |
| ## 1692 | 40.73580 | -73.99677 | 2 | 0.809536509 |
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| ## 1696 | 40.76040 | -73.99220 | 1 | -0.472020667 |
| ## 1697 | 40.78498 | -73.97284 | 2 | 2.584904706 |
| ## 1699 | 40.79822 | -73.97059 | 2 | -0.530807693 |
| ## 1701 | 40.74398 | -73.97662 | 2 | 0.256938461 |
| ## 1702 | 40.74576 | -73.97821 | 1 | -0.236872561 |

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| ## 1704 | 40.78103 | -73.95069 | 2 | -0.648381746 |
| ## 1706 | 40.72035 | -74.00493 | 1 | -0.707168773 |
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| ## 1709 | 40.76532 | -73.99061 | 2 | 0.233423650 |
| ## 1711 | 40.77469 | -73.96327 | 2 | 1.115229046 |
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| ## 1716 | 40.80269 | -73.94637 | 1 | -0.824742825 |
| ## 1717 | 40.70583 | -74.00612 | 1 | -0.001724456 |
| ## 1719 | 40.73374 | -74.00121 | 1 | 0.057062571 |
| ## 1721 | 40.77794 | -73.97699 | 2 | 3.172774970 |
| ## 1722 | 40.76054 | -73.98508 | 2 | 0.821293914 |
| ## 1724 | 40.84966 | -73.93945 | 1 | -1.059890931 |
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| ## 1727 | 40.72946 | -74.00189 | 2 | 0.821293914 |
| ## 1729 | 40.78092 | -73.95162 | 2 | 0.292210676 |
| ## 1731 | 40.71654 | -74.00138 | 1 | -0.824742825 |
| ## 1732 | 40.72541 | -74.01015 | 1 | 0.233423650 |
| ## 1734 | 40.76394 | -73.99448 | 2 | -0.354446614 |
| ## 1736 | 40.71762 | -73.98334 | 2 | 3.172774970 |
| ## 1737 | 40.71968 | -73.98726 | 1 | -0.648381746 |
| ## 1739 | 40.73618 | -74.00256 | 2 | 3.172774970 |
| ## 1741 | 40.78331 | -73.94489 | 2 | 0.644932835 |
| ## 1742 | 40.72916 | -73.98022 | 1 | -0.060511482 |
| ## 1744 | 40.78327 | -73.97343 | 2 | 0.574388403 |
| ## 1746 | 40.74530 | -74.00704 | 2 | 0.339240298 |
| ## 1747 | 40.72034 | -74.01122 | 2 | -0.236872561 |
| ## 1749 | 40.83358 | -73.94462 | 1 | -0.213357751 |
| ## 1751 | 40.78510 | -73.97397 | 2 | 0.762506888 |
| ## 1752 | 40.71149 | -73.99721 | 1 | -0.765955799 |
| ## 1754 | 40.72023 | -74.00715 | 2 | 3.760645234 |
| ## 1756 | 40.80490 | -73.96315 | 2 | -0.824742825 |
| ## 1757 | 40.72908 | -73.99650 | 2 | 1.750128931 |
| ## 1759 | 40.72598 | -73.97778 | 1 | -0.542565099 |
| ## 1761 | 40.76852 | -73.98735 | 2 | 0.233423650 |
| ## 1762 | 40.78474 | -73.94974 | 2 | 0.586145808 |
| ## 1764 | 40.73237 | -73.98918 | 3 | -0.366204019 |
| ## 1766 | 40.72297 | -73.99539 | 2 | 1.409164178 |
| ## 1767 | 40.78792 | -73.97758 | 2 | 0.821293914 |
| ## 1769 | 40.76269 | -73.99070 | 1 | -0.072268887 |
| ## 1771 | 40.80705 | -73.94452 | 2 | 0.527358782 |
| ## 1772 | 40.72337 | -74.00175 | 2 | 3.172774970 |
| ## 1774 | 40.70933 | -74.00381 | 1 | 0.456814350 |
| ## 1776 | 40.72005 | -73.98609 | 2 | 0.586145808 |
| ## 1777 | 40.77194 | -73.94773 | 1 | -0.542565099 |
| ## 1779 | 40.77574 | -73.95240 | 2 | 0.127607002 |
| ## 1781 | 40.76730 | -73.98809 | 2 | 0.233423650 |
| ## 1782 | 40.81456 | -73.94583 | 1 | -0.354446614 |
| ## 1784 | 40.79732 | -73.97259 | 2 | 0.174636624 |
| ## 1786 | 40.73101 | -73.98936 | 2 | 1.350377152 |
| ## 1787 | 40.76152 | -73.98793 | 1 | 0.221666245 |
| ## 1789 | 40.72314 | -73.98491 | 2 | 0.350997703 |
| ## 1791 | 40.76084 | -73.98367 | 2 | -0.013481861 |
| ## 1792 | 40.81927 | -73.94631 | 1 | -0.366204019 |

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| ## 1794 | 40.77929 | -73.97787 | 1 | -0.765955799 |
| ## 1796 | 40.81472 | -73.94291 | 2 | -0.072268887 |
| ## 1797 | 40.82277 | -73.94981 | 1 | 0.821293914 |
| ## 1799 | 40.80750 | -73.95844 | 2 | -0.366204019 |
| ## 1801 | 40.76518 | -73.98746 | 2 | -0.248629967 |
| ## 1802 | 40.72939 | -73.98319 | 1 | -0.648381746 |
| ## 1804 | 40.82350 | -73.95144 | 1 | -0.730683583 |
| ## 1806 | 40.79731 | -73.94231 | 3 | -0.883529852 |
| ## 1807 | 40.73112 | -73.98558 | 1 | -0.472020667 |
| ## 1809 | 40.78283 | -73.97206 | 2 | 0.809536509 |
| ## 1811 | 40.81270 | -73.94367 | 1 | 0.233423650 |
| ## 1812 | 40.79249 | -73.94592 | 2 | -0.119298508 |
| ## 1814 | 40.75529 | -73.96897 | 2 | -0.366204019 |
| ## 1816 | 40.77231 | -73.95588 | 2 | -0.319174398 |
| ## 1817 | 40.77263 | -73.95567 | 2 | -0.154570724 |
| ## 1819 | 40.79071 | -73.97408 | 2 | 0.174636624 |
| ## 1821 | 40.76608 | -73.99203 | 2 | -0.472020667 |
| ## 1822 | 40.77265 | -73.95740 | 2 | 0.174636624 |
| ## 1824 | 40.77107 | -73.95682 | 2 | -0.154570724 |
| ## 1826 | 40.82424 | -73.94664 | 1 | -0.707168773 |
| ## 1827 | 40.80029 | -73.95362 | 2 | 1.879460389 |
| ## 1829 | 40.77278 | -73.95753 | 2 | 0.139364408 |
| ## 1831 | 40.78061 | -73.94980 | 2 | -0.354446614 |
| ## 1832 | 40.76503 | -73.98827 | 1 | -0.330931804 |
| ## 1834 | 40.73409 | -73.98559 | 2 | 0.821293914 |
| ## 1836 | 40.79592 | -73.97024 | 2 | 0.339240298 |
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| ## 1839 | 40.81060 | -73.94647 | 3 | -0.354446614 |
| ## 1841 | 40.79130 | -73.94265 | 2 | 0.115849597 |
| ## 1842 | 40.71675 | -73.99092 | 2 | 0.821293914 |
| ## 1844 | 40.79512 | -73.97092 | 1 | 3.466710102 |
| ## 1846 | 40.77848 | -73.98334 | 1 | -0.248629967 |
| ## 1847 | 40.76419 | -73.98018 | 1 | 0.115849597 |
| ## 1849 | 40.75413 | -73.96792 | 1 | -0.354446614 |
| ## 1851 | 40.73701 | -73.98242 | 2 | 0.586145808 |
| ## 1852 | 40.76711 | -73.98371 | 2 | 1.115229046 |
| ## 1854 | 40.74035 | -73.98114 | 2 | -0.060511482 |
| ## 1856 | 40.80840 | -73.95123 | 1 | -0.366204019 |
| ## 1857 | 40.80697 | -73.95203 | 1 | -0.530807693 |
| ## 1859 | 40.83482 | -73.94617 | 2 | -0.001724456 |
| ## 1861 | 40.76780 | -73.98680 | 2 | 0.115849597 |
| ## 1862 | 40.77518 | -73.95618 | 2 | 0.821293914 |
| ## 1864 | 40.76351 | -73.98431 | 2 | 1.409164178 |
| ## 1866 | 40.79121 | -73.94793 | 1 | -0.648381746 |
| ## 1867 | 40.72210 | -73.98259 | 1 | -0.472020667 |
| ## 1869 | 40.80966 | -73.94711 | 2 | -0.354446614 |
| ## 1871 | 40.73085 | -73.99421 | 2 | 1.585525257 |
| ## 1872 | 40.76544 | -73.98186 | 2 | 3.278591618 |
| ## 1874 | 40.76450 | -73.99314 | 2 | 0.821293914 |
| ## 1876 | 40.71542 | -73.98511 | 1 | -0.413233640 |
| ## 1877 | 40.77249 | -73.95756 | 2 | -0.154570724 |
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| ## 1881 | 40.72278 | -73.98497 | 1 | 0.233423650 |
| ## 1882 | 40.78694 | -73.97384 | 2 | 0.233423650 |

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|---------|----------|-----------|---|--------------|
| ## 1884 | 40.77852 | -73.98577 | 1 | 0.292210676 |
| ## 1886 | 40.77349 | -73.95137 | 2 | 0.233423650 |
| ## 1887 | 40.72105 | -73.98140 | 1 | -0.354446614 |
| ## 1889 | 40.74309 | -73.99436 | 2 | 1.032927209 |
| ## 1891 | 40.73571 | -74.00375 | 2 | -0.119298508 |
| ## 1892 | 40.71418 | -73.99295 | 1 | -0.119298508 |
| ## 1894 | 40.79194 | -73.96913 | 2 | 0.821293914 |
| ## 1896 | 40.76420 | -73.99133 | 2 | 0.691962456 |
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| ## 1899 | 40.83333 | -73.94182 | 1 | -0.907044662 |
| ## 1901 | 40.77125 | -73.95735 | 2 | -0.295659588 |
| ## 1902 | 40.77589 | -73.98188 | 2 | 0.821293914 |
| ## 1904 | 40.80680 | -73.94258 | 2 | -0.742440988 |
| ## 1906 | 40.77065 | -73.95495 | 2 | -0.354446614 |
| ## 1907 | 40.80925 | -73.94226 | 1 | -0.883529852 |
| ## 1909 | 40.73083 | -74.00060 | 2 | 0.233423650 |
| ## 1911 | 40.78833 | -73.94888 | 1 | 1.985277037 |
| ## 1912 | 40.72842 | -73.99903 | 1 | -0.354446614 |
| ## 1914 | 40.71484 | -73.98977 | 2 | 0.644932835 |
| ## 1916 | 40.76634 | -73.98719 | 2 | -0.366204019 |
| ## 1917 | 40.77233 | -73.95627 | 2 | -0.319174398 |
| ## 1919 | 40.85084 | -73.94125 | 1 | -0.683653962 |
| ## 1921 | 40.82149 | -73.93718 | 1 | -0.648381746 |
| ## 1922 | 40.81153 | -73.95856 | 2 | -0.060511482 |
| ## 1924 | 40.72965 | -74.00397 | 2 | 2.996413891 |
| ## 1926 | 40.77291 | -73.95176 | 2 | -0.001724456 |
| ## 1927 | 40.73362 | -73.98920 | 1 | -0.201600345 |
| ## 1929 | 40.71620 | -74.01565 | 2 | 2.290969574 |
| ## 1931 | 40.74411 | -74.00290 | 2 | 0.821293914 |
| ## 1932 | 40.71782 | -73.99422 | 1 | -0.507292883 |
| ## 1934 | 40.76761 | -73.98497 | 2 | 1.409164178 |
| ## 1936 | 40.73704 | -74.01049 | 2 | -0.001724456 |
| ## 1937 | 40.78880 | -73.94844 | 2 | 1.291590125 |
| ## 1939 | 40.71097 | -74.01658 | 2 | 0.821293914 |
| ## 1941 | 40.71615 | -73.98478 | 2 | 0.821293914 |
| ## 1942 | 40.80071 | -73.95340 | 1 | -0.354446614 |
| ## 1944 | 40.83549 | -73.94765 | 2 | -0.824742825 |
| ## 1946 | 40.74551 | -73.97757 | 2 | 0.456814350 |
| ## 1947 | 40.80879 | -73.94127 | 2 | 1.879460389 |
| ## 1949 | 40.85504 | -73.93648 | 2 | -0.178085535 |
| ## 1951 | 40.78139 | -73.95261 | 3 | 0.527358782 |
| ## 1952 | 40.75971 | -73.98979 | 1 | -0.119298508 |
| ## 1954 | 40.73726 | -73.99399 | 1 | 1.232803099 |
| ## 1956 | 40.72310 | -73.98494 | 2 | 0.292210676 |
| ## 1957 | 40.79285 | -73.94482 | 1 | -0.413233640 |
| ## 1959 | 40.77233 | -73.95720 | 2 | -0.142813319 |
| ## 1961 | 40.77222 | -73.95544 | 2 | -0.142813319 |
| ## 1962 | 40.78504 | -73.97959 | 1 | -0.236872561 |
| ## 1964 | 40.83383 | -73.94469 | 1 | -1.071648336 |
| ## 1966 | 40.85719 | -73.93573 | 1 | 0.644932835 |
| ## 1967 | 40.74227 | -73.99362 | 2 | 0.586145808 |
| ## 1969 | 40.86786 | -73.92077 | 1 | -0.942316878 |
| ## 1971 | 40.80453 | -73.95699 | 1 | -0.236872561 |
| ## 1972 | 40.74318 | -73.97193 | 2 | 0.233423650 |

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|---------|----------|-----------|---|--------------|
| ## 1974 | 40.76712 | -73.95668 | 1 | -0.707168773 |
| ## 1976 | 40.72889 | -73.98853 | 2 | 1.397406773 |
| ## 1977 | 40.74475 | -73.97201 | 2 | 0.233423650 |
| ## 1979 | 40.72687 | -73.97995 | 2 | 1.115229046 |
| ## 1981 | 40.76866 | -73.98616 | 2 | -0.507292883 |
| ## 1982 | 40.78576 | -73.97594 | 2 | 1.997034442 |
| ## 1984 | 40.72916 | -74.00433 | 2 | -0.119298508 |
| ## 1986 | 40.72118 | -73.99682 | 1 | -0.178085535 |
| ## 1987 | 40.74897 | -73.99680 | 2 | -0.436748451 |
| ## 1989 | 40.73229 | -74.00400 | 1 | -0.001724456 |
| ## 1991 | 40.74221 | -73.99740 | 2 | 1.056442020 |
| ## 1992 | 40.78145 | -73.95588 | 2 | 1.409164178 |
| ## 1994 | 40.77224 | -73.95629 | 2 | -0.260387372 |
| ## 1996 | 40.71987 | -73.98641 | 2 | 0.233423650 |
| ## 1997 | 40.72293 | -73.99413 | 2 | 2.232182548 |
| ## 1999 | 40.80739 | -73.95918 | 2 | -0.354446614 |
| ## 2001 | 40.74175 | -73.97741 | 2 | -0.542565099 |
| ## 2002 | 40.80399 | -73.94665 | 1 | -0.354446614 |
| ## 2004 | 40.82243 | -73.94786 | 1 | -0.942316878 |
| ## 2006 | 40.71848 | -73.98159 | 2 | -0.072268887 |
| ## 2007 | 40.77573 | -73.98264 | 2 | 0.997654993 |
| ## 2009 | 40.81736 | -73.93921 | 1 | 0.233423650 |
| ## 2011 | 40.80699 | -73.94227 | 3 | 0.821293914 |
| ## 2012 | 40.76745 | -73.98489 | 2 | -0.507292883 |
| ## 2014 | 40.78276 | -73.95299 | 2 | 1.409164178 |
| ## 2016 | 40.76299 | -73.96166 | 2 | 0.233423650 |
| ## 2017 | 40.73666 | -73.97960 | 1 | 0.809536509 |
| ## 2019 | 40.72976 | -74.00445 | 2 | -0.178085535 |
| ## 2021 | 40.72854 | -73.98434 | 2 | 0.480329161 |
| ## 2022 | 40.73509 | -74.00323 | 2 | 0.821293914 |
| ## 2024 | 40.76552 | -73.97738 | 2 | 3.513739723 |
| ## 2026 | 40.85893 | -73.92985 | 2 | -0.354446614 |
| ## 2027 | 40.82165 | -73.95491 | 1 | -0.707168773 |
| ## 2029 | 40.79739 | -73.96945 | 2 | 0.762506888 |
| ## 2031 | 40.82931 | -73.94358 | 2 | 2.526117680 |
| ## 2032 | 40.77059 | -73.94991 | 2 | 1.761886337 |
| ## 2034 | 40.71254 | -73.98535 | 1 | -0.483778072 |
| ## 2036 | 40.71883 | -73.99716 | 2 | 1.056442020 |
| ## 2037 | 40.76429 | -73.98043 | 1 | -0.060511482 |
| ## 2039 | 40.71981 | -73.98701 | 1 | -0.577837314 |
| ## 2041 | 40.84919 | -73.94021 | 1 | -0.801228015 |
| ## 2042 | 40.76158 | -73.96031 | 1 | -0.589594720 |
| ## 2044 | 40.72243 | -73.99655 | 1 | -0.060511482 |
| ## 2046 | 40.71813 | -73.99063 | 2 | 0.821293914 |
| ## 2047 | 40.72652 | -74.00266 | 2 | 0.221666245 |
| ## 2049 | 40.82075 | -73.93790 | 1 | -0.918802068 |
| ## 2051 | 40.74059 | -73.97953 | 1 | -0.824742825 |
| ## 2052 | 40.83686 | -73.94393 | 1 | -1.001103905 |
| ## 2054 | 40.76590 | -73.96611 | 2 | 0.821293914 |
| ## 2056 | 40.82524 | -73.94186 | 2 | -0.613109530 |
| ## 2057 | 40.74156 | -73.99476 | 2 | 1.867702984 |
| ## 2059 | 40.76016 | -73.96597 | 2 | 1.221045694 |
| ## 2061 | 40.71338 | -73.99226 | 2 | 0.057062571 |
| ## 2062 | 40.76866 | -73.95553 | 2 | -1.342068658 |

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|---------|----------|-----------|---|--------------|
| ## 2064 | 40.76572 | -73.95541 | 1 | 0.115849597 |
| ## 2066 | 40.78980 | -73.97080 | 2 | 0.821293914 |
| ## 2067 | 40.74956 | -73.99671 | 1 | -0.472020667 |
| ## 2069 | 40.72823 | -73.98170 | 2 | 0.468571756 |
| ## 2071 | 40.80407 | -73.94603 | 2 | -0.589594720 |
| ## 2072 | 40.73691 | -74.00013 | 2 | 0.421542134 |
| ## 2074 | 40.80080 | -73.94347 | 1 | -0.001724456 |
| ## 2076 | 40.80002 | -73.95559 | 1 | 0.292210676 |
| ## 2077 | 40.77449 | -73.96228 | 2 | -0.131055914 |
| ## 2079 | 40.71769 | -73.98953 | 2 | -0.366204019 |
| ## 2081 | 40.80118 | -73.97063 | 1 | 0.057062571 |
| ## 2082 | 40.73548 | -73.98896 | 2 | 1.703099310 |
| ## 2084 | 40.72749 | -73.99071 | 2 | 0.691962456 |
| ## 2086 | 40.79269 | -73.94218 | 1 | -0.354446614 |
| ## 2087 | 40.73993 | -74.00619 | 2 | 1.291590125 |
| ## 2089 | 40.80048 | -73.96621 | 1 | -1.012861310 |
| ## 2091 | 40.79921 | -73.96704 | 2 | 0.174636624 |
| ## 2092 | 40.79893 | -73.96249 | 1 | -0.472020667 |
| ## 2094 | 40.73953 | -73.98009 | 2 | 0.644932835 |
| ## 2096 | 40.75045 | -73.99662 | 2 | -0.436748451 |
| ## 2097 | 40.73316 | -74.00632 | 2 | 1.997034442 |
| ## 2099 | 40.74369 | -73.98153 | 2 | 3.466710102 |
| ## 2101 | 40.74646 | -73.99678 | 2 | 0.574388403 |
| ## 2102 | 40.83473 | -73.93706 | 1 | -0.589594720 |
| ## 2104 | 40.74722 | -74.00466 | 2 | 1.997034442 |
| ## 2106 | 40.71866 | -73.98592 | 2 | -0.060511482 |
| ## 2107 | 40.77486 | -73.94857 | 2 | 0.644932835 |
| ## 2109 | 40.78818 | -73.97133 | 2 | 1.115229046 |
| ## 2111 | 40.76423 | -73.98187 | 1 | 3.172774970 |
| ## 2112 | 40.85304 | -73.93555 | 2 | -0.495535477 |
| ## 2114 | 40.73873 | -73.98100 | 2 | 0.409784729 |
| ## 2116 | 40.78193 | -73.94884 | 2 | 1.997034442 |
| ## 2117 | 40.82491 | -73.94774 | 2 | 0.221666245 |
| ## 2119 | 40.83367 | -73.94298 | 1 | -0.718926178 |
| ## 2121 | 40.83058 | -73.94950 | 1 | -0.895287257 |
| ## 2122 | 40.83132 | -73.94101 | 1 | -0.942316878 |
| ## 2124 | 40.76496 | -73.99073 | 1 | -0.366204019 |
| ## 2126 | 40.79191 | -73.94433 | 2 | 0.057062571 |
| ## 2127 | 40.71062 | -74.01537 | 1 | -0.236872561 |
| ## 2129 | 40.82967 | -73.94428 | 2 | -0.413233640 |
| ## 2131 | 40.74760 | -73.99195 | 2 | 2.573147301 |
| ## 2132 | 40.73165 | -73.98715 | 2 | 1.879460389 |
| ## 2134 | 40.72511 | -74.00016 | 2 | 0.586145808 |
| ## 2136 | 40.73005 | -73.98525 | 2 | -0.095783698 |
| ## 2137 | 40.76349 | -73.95969 | 2 | 3.172774970 |
| ## 2139 | 40.75812 | -73.96171 | 2 | 0.233423650 |
| ## 2141 | 40.77343 | -73.95979 | 1 | -0.366204019 |
| ## 2142 | 40.82186 | -73.95672 | 1 | -0.824742825 |
| ## 2144 | 40.85529 | -73.93980 | 2 | 0.527358782 |
| ## 2146 | 40.80493 | -73.95677 | 2 | 0.997654993 |
| ## 2147 | 40.81525 | -73.95279 | 2 | 0.821293914 |
| ## 2149 | 40.81511 | -73.94315 | 2 | -0.178085535 |
| ## 2151 | 40.73476 | -74.00100 | 2 | 1.867702984 |
| ## 2152 | 40.76717 | -73.95532 | 1 | -0.413233640 |

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| ## 2154 | 40.76753 | -73.98397 | 2 | 0.233423650 |
| ## 2156 | 40.80409 | -73.93988 | 2 | -0.707168773 |
| ## 2157 | 40.79098 | -73.96745 | 2 | 1.573767852 |
| ## 2159 | 40.80422 | -73.93841 | 2 | 1.985277037 |
| ## 2161 | 40.72402 | -73.98771 | 2 | 0.574388403 |
| ## 2162 | 40.72044 | -73.99645 | 2 | 0.527358782 |
| ## 2164 | 40.77097 | -73.94848 | 2 | 2.584904706 |
| ## 2166 | 40.80810 | -73.95647 | 2 | 0.186394029 |
| ## 2167 | 40.74593 | -73.97915 | 2 | 0.633175430 |
| ## 2169 | 40.80724 | -73.94739 | 2 | 0.468571756 |
| ## 2171 | 40.78273 | -73.97319 | 2 | 0.809536509 |
| ## 2172 | 40.73877 | -73.98171 | 1 | -0.589594720 |
| ## 2174 | 40.82947 | -73.95104 | 1 | -0.542565099 |
| ## 2176 | 40.74318 | -73.97858 | 2 | -0.507292883 |
| ## 2177 | 40.86176 | -73.93082 | 1 | -0.589594720 |
| ## 2179 | 40.73136 | -73.98714 | 2 | 0.115849597 |
| ## 2181 | 40.73041 | -73.98960 | 2 | 0.339240298 |
| ## 2182 | 40.73022 | -74.00421 | 2 | 1.397406773 |
| ## 2184 | 40.72274 | -73.99169 | 2 | 0.245181055 |
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| ## 2187 | 40.82447 | -73.95076 | 1 | -0.413233640 |
| ## 2189 | 40.76878 | -73.98719 | 1 | -0.236872561 |
| ## 2191 | 40.71867 | -73.98612 | 2 | 0.233423650 |
| ## 2192 | 40.73788 | -73.98048 | 2 | 0.468571756 |
| ## 2194 | 40.72673 | -73.98004 | 1 | -0.001724456 |
| ## 2196 | 40.82193 | -73.94499 | 1 | -0.413233640 |
| ## 2197 | 40.71306 | -73.98856 | 1 | -0.589594720 |
| ## 2199 | 40.81813 | -73.93980 | 1 | -0.648381746 |
| ## 2201 | 40.75503 | -73.96711 | 2 | 0.586145808 |
| ## 2202 | 40.76189 | -73.96298 | 1 | -0.718926178 |
| ## 2204 | 40.83365 | -73.94059 | 2 | -0.707168773 |
| ## 2206 | 40.76524 | -73.98018 | 2 | 2.091093684 |
| ## 2207 | 40.71987 | -73.99470 | 2 | 1.644312284 |
| ## 2209 | 40.72110 | -73.98397 | 2 | 0.527358782 |
| ## 2211 | 40.83620 | -73.94033 | 1 | -0.589594720 |
| ## 2212 | 40.81464 | -73.95351 | 1 | -0.824742825 |
| ## 2214 | 40.79805 | -73.94533 | 2 | -0.354446614 |
| ## 2216 | 40.74767 | -73.99393 | 2 | 1.174016072 |
| ## 2217 | 40.80411 | -73.95624 | 2 | 1.115229046 |
| ## 2219 | 40.80900 | -73.94263 | 2 | 0.115849597 |
| ## 2221 | 40.73002 | -74.00653 | 2 | 0.821293914 |
| ## 2222 | 40.82071 | -73.93813 | 1 | -1.001103905 |
| ## 2224 | 40.74596 | -73.98411 | 2 | 0.209908839 |
| ## 2226 | 40.72974 | -73.98372 | 2 | 0.350997703 |
| ## 2227 | 40.84943 | -73.93146 | 1 | -0.942316878 |
| ## 2229 | 40.71445 | -73.99287 | 1 | -0.424991046 |
| ## 2231 | 40.72061 | -73.99472 | 1 | -0.589594720 |
| ## 2232 | 40.74173 | -73.97906 | 2 | -0.119298508 |
| ## 2234 | 40.84464 | -73.93550 | 1 | -0.836500231 |
| ## 2236 | 40.80465 | -73.95365 | 2 | 0.104092192 |
| ## 2237 | 40.82544 | -73.94020 | 1 | -0.765955799 |
| ## 2239 | 40.70883 | -74.01266 | 2 | 1.985277037 |
| ## 2241 | 40.79460 | -73.94105 | 1 | -0.648381746 |
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| ## 2244 | 40.82279 | -73.94947 | 2 | -0.060511482 |
| ## 2246 | 40.71749 | -73.99016 | 2 | -0.307416993 |
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| ## 2249 | 40.79032 | -73.94523 | 1 | -0.883529852 |
| ## 2251 | 40.72138 | -73.98371 | 2 | 0.339240298 |
| ## 2252 | 40.74994 | -73.99612 | 2 | -0.413233640 |
| ## 2254 | 40.76043 | -73.95992 | 2 | 0.350997703 |
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| ## 2257 | 40.76882 | -73.98699 | 2 | -0.236872561 |
| ## 2259 | 40.75090 | -73.96963 | 2 | 1.409164178 |
| ## 2261 | 40.73312 | -73.99097 | 2 | 0.233423650 |
| ## 2262 | 40.77448 | -73.96102 | 2 | 0.527358782 |
| ## 2264 | 40.74110 | -73.98455 | 2 | 0.821293914 |
| ## 2266 | 40.77222 | -73.95604 | 2 | -0.142813319 |
| ## 2267 | 40.74911 | -73.98202 | 1 | -0.413233640 |
| ## 2269 | 40.80677 | -73.94977 | 2 | 2.584904706 |
| ## 2271 | 40.73632 | -73.98475 | 2 | 0.527358782 |
| ## 2272 | 40.777905 | -73.97939 | 2 | 0.821293914 |
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| ## 2276 | 40.77542 | -73.95437 | 1 | -0.671896557 |
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| ## 2281 | 40.77817 | -73.97844 | 2 | 0.821293914 |
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| ## 2299 | 40.71726 | -74.01134 | 2 | 0.821293914 |
| ## 2301 | 40.80645 | -73.95804 | 1 | -0.530807693 |
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| ## 2307 | 40.80592 | -73.93653 | 2 | 0.233423650 |
| ## 2309 | 40.75911 | -73.96299 | 1 | -0.707168773 |
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| ## 2312 | 40.76514 | -73.98058 | 1 | 2.584904706 |
| ## 2314 | 40.80919 | -73.94815 | 2 | -0.119298508 |
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| ## 2319 | 40.79203 | -73.97299 | 2 | -0.366204019 |
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| ## 2334 | 40.80384 | -73.94692 | 1 | -0.730683583 |
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| ## 2367 | 40.76053 | -73.99002 | 1 | 0.821293914 |
| ## 2369 | 40.76908 | -73.98483 | 2 | -0.507292883 |
| ## 2371 | 40.79370 | -73.96590 | 2 | 0.644932835 |
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| ## 2424 | 40.82546 | -73.94629 | 1 | -1.071648336 |
| ## 2426 | 40.77323 | -73.98014 | 1 | -0.354446614 |
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| ## 2441 | 40.74496 | -73.99934 | 2 | -0.060511482 |
| ## 2442 | 40.80311 | -73.96648 | 1 | -0.648381746 |
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| ## 2461 | 40.83456 | -73.94344 | 1 | -1.342068658 |
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| ## 2466 | 40.81118 | -73.93977 | 1 | -0.942316878 |
| ## 2467 | 40.71399 | -73.99107 | 2 | 1.997034442 |
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| ## 2472 | 40.82420 | -73.93789 | 1 | -1.001103905 |
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| ## 2479 | 40.77462 | -73.95461 | 1 | -0.295659588 |
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| ## 2501 | 40.76468 | -73.98514 | 2 | 0.174636624 |
| ## 2502 | 40.74713 | -73.98075 | 1 | 0.527358782 |
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| ## 2514 | 40.80709 | -73.94952 | 2 | 0.057062571 |
| ## 2516 | 40.79545 | -73.96595 | 2 | 1.409164178 |
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| ## 2522 | 40.71906 | -73.98433 | 1 | -0.601352125 |
| ## 2524 | 40.81619 | -73.94003 | 2 | -0.366204019 |
| ## 2526 | 40.76239 | -73.99227 | 2 | -0.060511482 |
| ## 2527 | 40.73314 | -74.00475 | 2 | 0.174636624 |
| ## 2529 | 40.76610 | -73.95730 | 2 | 0.104092192 |
| ## 2531 | 40.74643 | -73.97536 | 2 | 0.821293914 |
| ## 2532 | 40.86496 | -73.92620 | 2 | -0.354446614 |
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| ## 2547 | 40.78883 | -73.97616 | 1 | -0.495535477 |
| ## 2549 | 40.77065 | -73.95163 | 2 | 0.233423650 |
| ## 2551 | 40.77715 | -73.98235 | 2 | 1.526738231 |
| ## 2552 | 40.78627 | -73.94316 | 1 | -0.883529852 |
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| ## 2556 | 40.85440 | -73.93091 | 3 | -1.048133526 |
| ## 2557 | 40.73545 | -74.00097 | 2 | 0.762506888 |
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| ## 2566 | 40.76443 | -73.99184 | 2 | 1.115229046 |
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| ## 2569 | 40.79608 | -73.93819 | 1 | -0.354446614 |
| ## 2571 | 40.76751 | -73.96309 | 2 | 1.997034442 |
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| ## 2591 | 40.75550 | -73.99369 | 2 | 1.514980826 |
| ## 2592 | 40.78907 | -73.94877 | 2 | -0.648381746 |
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| ## 2596 | 40.72607 | -73.98867 | 1 | 0.221666245 |
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| ## 2599 | 40.81599 | -73.94676 | 2 | 0.033547760 |
| ## 2601 | 40.78535 | -73.94997 | 2 | 0.938867967 |
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| ## 2604 | 40.75579 | -73.99154 | 2 | 2.878839838 |
| ## 2606 | 40.81618 | -73.94517 | 2 | -0.424991046 |
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| ## 2612 | 40.72390 | -73.98312 | 2 | 0.233423650 |
| ## 2614 | 40.79008 | -73.94766 | 1 | -0.754198394 |
| ## 2616 | 40.77860 | -73.95104 | 2 | 0.186394029 |
| ## 2617 | 40.72841 | -73.98231 | 2 | 0.809536509 |
| ## 2619 | 40.777859 | -73.98160 | 2 | 2.584904706 |
| ## 2621 | 40.72242 | -73.98262 | 1 | -0.295659588 |
| ## 2622 | 40.78000 | -73.97793 | 2 | 0.350997703 |
| ## 2624 | 40.80006 | -73.94590 | 2 | 0.821293914 |
| ## 2626 | 40.72627 | -73.98303 | 2 | 0.797779103 |
| ## 2627 | 40.72902 | -73.98814 | 2 | 1.385649368 |
| ## 2629 | 40.71938 | -73.98906 | 2 | 1.703099310 |
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| ## 2636 | 40.73220 | -74.00423 | 2 | -0.178085535 |
| ## 2637 | 40.76590 | -73.99543 | 2 | 0.821293914 |
| ## 2639 | 40.76049 | -73.99569 | 1 | -0.483778072 |
| ## 2641 | 40.777891 | -73.94840 | 2 | 1.938247416 |
| ## 2642 | 40.85104 | -73.93617 | 2 | -0.236872561 |
| ## 2644 | 40.71287 | -73.98685 | 1 | -0.248629967 |
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| ## 2651 | 40.79913 | -73.95932 | 1 | -0.389718830 |
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| ## 2659 | 40.74726 | -74.00213 | 3 | -0.707168773 |
| ## 2661 | 40.73191 | -74.00679 | 2 | 1.997034442 |
| ## 2662 | 40.72144 | -73.99435 | 1 | -0.295659588 |
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| ## 2671 | 40.79795 | -73.96175 | 2 | 1.997034442 |
| ## 2672 | 40.73634 | -74.00841 | 2 | 0.821293914 |
| ## 2674 | 40.77783 | -73.98150 | 2 | -0.589594720 |
| ## 2676 | 40.76221 | -73.99028 | 2 | 0.350997703 |
| ## 2677 | 40.81071 | -73.94433 | 2 | -0.178085535 |
| ## 2679 | 40.79820 | -73.97119 | 2 | -0.001724456 |
| ## 2681 | 40.79849 | -73.93843 | 1 | -0.448505856 |
| ## 2682 | 40.72421 | -73.99304 | 2 | 0.762506888 |
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| ## 2686 | 40.74998 | -73.99772 | 2 | 2.526117680 |
| ## 2687 | 40.80521 | -73.94519 | 2 | 1.997034442 |
| ## 2689 | 40.73549 | -73.98311 | 2 | 1.397406773 |
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| ## 2694 | 40.72736 | -74.00192 | 2 | 4.289728472 |
| ## 2696 | 40.77473 | -73.94859 | 1 | -0.718926178 |
| ## 2697 | 40.80743 | -73.94256 | 1 | -0.695411367 |
| ## 2699 | 40.72908 | -73.97901 | 2 | 1.115229046 |
| ## 2701 | 40.78137 | -73.98183 | 2 | 0.809536509 |
| ## 2702 | 40.72724 | -73.98639 | 2 | 0.527358782 |
| ## 2704 | 40.73647 | -73.99814 | 1 | 0.233423650 |
| ## 2706 | 40.72347 | -73.98116 | 2 | 0.233423650 |
| ## 2707 | 40.73474 | -74.00867 | 2 | 1.409164178 |
| ## 2709 | 40.77998 | -73.98462 | 2 | -0.001724456 |
| ## 2711 | 40.74685 | -73.97598 | 2 | 0.221666245 |
| ## 2712 | 40.75005 | -73.99718 | 2 | 2.232182548 |
| ## 2714 | 40.73325 | -73.98789 | 1 | -0.389718830 |
| ## 2716 | 40.76710 | -73.96968 | 2 | 1.703099310 |
| ## 2717 | 40.73553 | -74.00546 | 2 | 1.373891962 |
| ## 2719 | 40.82412 | -73.93872 | 1 | -0.718926178 |
| ## 2721 | 40.73505 | -73.98212 | 2 | 0.115849597 |
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| ## 2724 | 40.79994 | -73.97001 | 1 | 1.985277037 |
| ## 2726 | 40.82624 | -73.94527 | 2 | 0.233423650 |
| ## 2727 | 40.79917 | -73.93995 | 2 | 0.762506888 |
| ## 2729 | 40.83335 | -73.94048 | 2 | -0.742440988 |
| ## 2731 | 40.71452 | -73.98710 | 1 | -0.119298508 |
| ## 2732 | 40.86644 | -73.92677 | 1 | 1.409164178 |
| ## 2734 | 40.78304 | -73.98146 | 2 | -0.060511482 |
| ## 2736 | 40.83488 | -73.93843 | 2 | -0.754198394 |
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| ## 2751 | 40.77127 | -73.95108 | 2 | 0.233423650 |
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| ## 2762 | 40.81473 | -73.96039 | 2 | 0.350997703 |
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| ## 2776 | 40.77926 | -73.97877 | 2 | 1.115229046 |
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| ## 2784 | 40.79284 | -73.97675 | 2 | -0.013481861 |
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| ## 2797 | 40.77439 | -73.94965 | 2 | 1.397406773 |
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| ## 2802 | 40.73346 | -73.98216 | 2 | 0.115849597 |
| ## 2804 | 40.71570 | -73.99094 | 2 | 3.161017565 |
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| ## 2807 | 40.70581 | -74.00948 | 1 | -0.472020667 |
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| ## 2814 | 40.76195 | -74.00001 | 1 | -0.013481861 |
| ## 2816 | 40.80297 | -73.95537 | 2 | -0.354446614 |
| ## 2817 | 40.76160 | -73.99677 | 2 | 1.115229046 |
| ## 2819 | 40.77167 | -73.95735 | 2 | 0.139364408 |
| ## 2821 | 40.76358 | -73.96464 | 2 | 2.290969574 |
| ## 2822 | 40.76198 | -73.98718 | 2 | 2.584904706 |
| ## 2824 | 40.72052 | -73.98003 | 3 | -0.765955799 |
| ## 2826 | 40.71927 | -73.98511 | 2 | -0.248629967 |
| ## 2827 | 40.71566 | -73.99076 | 2 | 0.691962456 |
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| ## 2852 | 40.77340 | -73.95357 | 2 | -0.366204019 |
| ## 2854 | 40.73287 | -73.98585 | 2 | 0.586145808 |
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| ## 2874 | 40.79311 | -73.94587 | 1 | -0.589594720 |
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| ## 2911 | 40.72619 | -73.98284 | 2 | 1.279832720 |
| ## 2912 | 40.76244 | -73.96215 | 2 | 1.997034442 |
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| ## 2941 | 40.72904 | -74.00129 | 2 | 0.821293914 |
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| ## 2951 | 40.82796 | -73.95050 | 1 | -0.354446614 |
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| ## 2964 | 40.80434 | -73.95476 | 2 | -0.413233640 |
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| ## 2996 | 40.77773 | -73.97764 | 1 | 0.821293914 |
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| ## 2999 | 40.71763 | -73.99753 | 2 | 0.350997703 |
| ## 3001 | 40.71820 | -73.99326 | 2 | 1.997034442 |
| ## 3002 | 40.74583 | -74.00405 | 2 | 0.821293914 |
| ## 3004 | 40.74372 | -73.99682 | 1 | 0.233423650 |
| ## 3006 | 40.78804 | -73.94906 | 1 | -0.577837314 |
| ## 3007 | 40.76719 | -73.98533 | 2 | -0.389718830 |
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| ## 3011 | 40.78380 | -73.97266 | 2 | 1.467951205 |
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| ## 3014 | 40.78335 | -73.94822 | 2 | -0.001724456 |
| ## 3016 | 40.72904 | -74.00116 | 2 | 1.115229046 |
| ## 3017 | 40.76736 | -73.98383 | 2 | 0.586145808 |
| ## 3019 | 40.79510 | -73.94716 | 1 | -0.295659588 |
| ## 3021 | 40.76332 | -73.98630 | 2 | 1.703099310 |
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| ## 3034 | 40.78615 | -73.94295 | 1 | -0.695411367 |
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| ## 3042 | 40.78286 | -73.98339 | 2 | 1.585525257 |
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| ## 3046 | 40.76102 | -73.98882 | 2 | 2.937626865 |
| ## 3047 | 40.71806 | -73.98493 | 1 | -0.236872561 |
| ## 3049 | 40.70820 | -74.00139 | 1 | -0.613109530 |
| ## 3051 | 40.78334 | -73.97452 | 2 | -0.060511482 |
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| ## 3054 | 40.76175 | -73.98920 | 1 | -0.366204019 |
| ## 3056 | 40.81405 | -73.95285 | 2 | -0.060511482 |
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| ## 3087 | 40.79967 | -73.95444 | 1 | -0.413233640 |
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| ## 3094 | 40.72954 | -73.98337 | 2 | -0.119298508 |
| ## 3096 | 40.77595 | -73.95573 | 1 | -0.354446614 |
| ## 3097 | 40.77546 | -73.95165 | 2 | 0.233423650 |
| ## 3099 | 40.81419 | -73.95033 | 2 | -0.530807693 |
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| ## 3102 | 40.71068 | -74.00713 | 2 | 1.879460389 |
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| ## 3111 | 40.73272 | -73.98520 | 2 | -0.060511482 |
| ## 3112 | 40.77209 | -73.95083 | 1 | -0.589594720 |
| ## 3114 | 40.73718 | -73.98373 | 1 | -0.648381746 |
| ## 3116 | 40.72536 | -73.98560 | 2 | 1.409164178 |
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| ## 3119 | 40.76060 | -73.96028 | 2 | 0.292210676 |
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| ## 3134 | 40.72950 | -73.98398 | 2 | -0.354446614 |
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| ## 3137 | 40.75928 | -73.99036 | 2 | 0.586145808 |
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| ## 3142 | 40.78648 | -73.96920 | 1 | 0.057062571 |

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| ## 3144 | 40.78744 | -73.95211 | 1 | -0.812985420 |
| ## 3146 | 40.72982 | -73.98316 | 2 | 0.644932835 |
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| ## 3154 | 40.79643 | -73.93543 | 2 | -0.178085535 |
| ## 3156 | 40.82774 | -73.95181 | 1 | -0.178085535 |
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| ## 3187 | 40.80177 | -73.95710 | 2 | -0.178085535 |
| ## 3189 | 40.76432 | -73.98599 | 1 | 0.057062571 |
| ## 3191 | 40.76186 | -73.97324 | 2 | 0.221666245 |
| ## 3192 | 40.72490 | -73.98852 | 2 | 0.233423650 |
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| ## 3202 | 40.74610 | -73.98632 | 2 | 1.773643742 |
| ## 3204 | 40.78785 | -73.97717 | 1 | -0.836500231 |
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| ## 3211 | 40.73183 | -74.00649 | 2 | 0.527358782 |
| ## 3212 | 40.83299 | -73.94527 | 1 | 0.233423650 |
| ## 3214 | 40.73075 | -74.00233 | 2 | 0.539116187 |
| ## 3216 | 40.76917 | -73.98488 | 2 | -0.507292883 |
| ## 3217 | 40.78866 | -73.95461 | 2 | -0.236872561 |
| ## 3219 | 40.72259 | -73.98502 | 2 | 0.809536509 |
| ## 3221 | 40.72825 | -73.98879 | 1 | -0.354446614 |
| ## 3222 | 40.80249 | -73.93463 | 1 | -0.895287257 |
| ## 3224 | 40.75624 | -73.96417 | 2 | 0.821293914 |
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| ## 3227 | 40.73433 | -74.00588 | 2 | 1.409164178 |
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| ## 3231 | 40.80917 | -73.95405 | 2 | 1.409164178 |
| ## 3232 | 40.79312 | -73.94115 | 2 | -0.236872561 |

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| ## 3234 | 40.71952 | -73.99313 | 1 | -0.695411367 |
| ## 3236 | 40.73666 | -74.00691 | 2 | 0.221666245 |
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| ## 3241 | 40.79368 | -73.97324 | 2 | 0.233423650 |
| ## 3242 | 40.73117 | -73.98335 | 2 | -0.001724456 |
| ## 3244 | 40.74742 | -73.99617 | 2 | 0.762506888 |
| ## 3246 | 40.74746 | -73.97883 | 2 | 4.336758093 |
| ## 3247 | 40.72755 | -73.97876 | 1 | -0.354446614 |
| ## 3249 | 40.76235 | -73.96005 | 2 | 0.644932835 |
| ## 3251 | 40.77529 | -73.98192 | 2 | 0.821293914 |
| ## 3252 | 40.78026 | -73.95290 | 2 | -0.236872561 |
| ## 3254 | 40.77170 | -73.98759 | 1 | 0.115849597 |
| ## 3256 | 40.73418 | -73.98930 | 2 | 1.409164178 |
| ## 3257 | 40.72937 | -74.00125 | 2 | 0.068819976 |
| ## 3259 | 40.79584 | -73.97156 | 2 | 0.644932835 |
| ## 3261 | 40.76115 | -73.98224 | 2 | 0.821293914 |
| ## 3262 | 40.76615 | -73.98790 | 2 | 0.174636624 |
| ## 3264 | 40.76340 | -73.98928 | 1 | -0.377961425 |
| ## 3266 | 40.76602 | -73.99249 | 2 | 1.162258667 |
| ## 3267 | 40.81574 | -73.94877 | 1 | -0.589594720 |
| ## 3269 | 40.76571 | -73.99482 | 2 | -0.119298508 |
| ## 3271 | 40.84340 | -73.94139 | 2 | 0.821293914 |
| ## 3272 | 40.76272 | -73.96775 | 2 | 0.456814350 |
| ## 3274 | 40.83551 | -73.94232 | 1 | -0.683653962 |
| ## 3276 | 40.73305 | -73.98255 | 1 | -0.671896557 |
| ## 3277 | 40.74467 | -73.97202 | 1 | -0.354446614 |
| ## 3279 | 40.76181 | -73.98757 | 2 | 0.350997703 |
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| ## 3282 | 40.80843 | -73.93722 | 1 | -0.589594720 |
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| ## 3292 | 40.80177 | -73.93532 | 2 | -0.354446614 |
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| ## 3296 | 40.79093 | -73.96780 | 1 | 1.409164178 |
| ## 3297 | 40.73170 | -73.98272 | 1 | -0.366204019 |
| ## 3299 | 40.75702 | -73.99458 | 1 | -0.413233640 |
| ## 3301 | 40.74444 | -73.97174 | 3 | -0.178085535 |
| ## 3302 | 40.77122 | -73.98135 | 2 | 0.186394029 |
| ## 3304 | 40.77399 | -73.95101 | 2 | 0.221666245 |
| ## 3306 | 40.73296 | -74.00235 | 2 | 1.056442020 |
| ## 3307 | 40.81608 | -73.93970 | 1 | -0.765955799 |
| ## 3309 | 40.80251 | -73.96532 | 2 | 2.290969574 |
| ## 3311 | 40.72566 | -73.98032 | 1 | -0.060511482 |
| ## 3312 | 40.81251 | -73.95102 | 2 | -0.354446614 |
| ## 3314 | 40.78965 | -73.96870 | 2 | -0.236872561 |
| ## 3316 | 40.71369 | -73.98828 | 1 | -0.577837314 |
| ## 3317 | 40.80672 | -73.95404 | 1 | -0.589594720 |
| ## 3319 | 40.80469 | -73.96381 | 2 | -0.354446614 |
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| ## 3324 | 40.70462 | -74.00986 | 2 | 4.054580366 |
| ## 3326 | 40.82417 | -73.94496 | 1 | -0.954074283 |
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| ## 3349 | 40.76196 | -73.99194 | 1 | -0.707168773 |
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| ## 3357 | 40.777937 | -73.97805 | 2 | -0.119298508 |
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| ## 3361 | 40.74033 | -74.00872 | 1 | 1.115229046 |
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| ## 3396 | 40.72481 | -73.98216 | 1 | -0.060511482 |
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| ## 3411 | 40.82943 | -73.94070 | 2 | -0.119298508 |
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| ## 3414 | 40.79372 | -73.94316 | 2 | 0.821293914 |
| ## 3416 | 40.71647 | -73.99116 | 2 | 0.997654993 |
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| ## 3419 | 40.71509 | -73.99670 | 2 | -0.765955799 |
| ## 3421 | 40.77139 | -73.95766 | 2 | -0.236872561 |
| ## 3422 | 40.72956 | -73.98613 | 2 | -0.566079909 |
| ## 3424 | 40.74121 | -73.98648 | 2 | 1.056442020 |
| ## 3426 | 40.76348 | -73.99344 | 1 | -0.119298508 |
| ## 3427 | 40.82862 | -73.94706 | 1 | -0.519050288 |
| ## 3429 | 40.77170 | -73.95572 | 2 | -0.166328130 |
| ## 3431 | 40.77636 | -73.98937 | 2 | 1.409164178 |
| ## 3432 | 40.74302 | -74.00015 | 2 | 0.386269919 |
| ## 3434 | 40.73182 | -73.98450 | 1 | 0.762506888 |
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| ## 3441 | 40.71758 | -73.99201 | 1 | -0.542565099 |
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| ## 3447 | 40.76738 | -73.98466 | 2 | 0.821293914 |
| ## 3449 | 40.73101 | -73.99087 | 1 | 1.997034442 |
| ## 3451 | 40.82896 | -73.94059 | 1 | -0.942316878 |
| ## 3452 | 40.72934 | -74.00276 | 2 | 1.997034442 |
| ## 3454 | 40.73536 | -73.98393 | 2 | 0.927110562 |
| ## 3456 | 40.79788 | -73.96180 | 1 | -0.824742825 |
| ## 3457 | 40.80947 | -73.95392 | 2 | 1.997034442 |
| ## 3459 | 40.82335 | -73.94887 | 1 | -0.354446614 |
| ## 3461 | 40.77635 | -73.95616 | 2 | 3.760645234 |
| ## 3462 | 40.79092 | -73.97426 | 2 | 0.644932835 |
| ## 3464 | 40.81506 | -73.94851 | 2 | 1.820673363 |
| ## 3466 | 40.79155 | -73.94746 | 1 | -0.589594720 |
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| ## 3469 | 40.72703 | -74.00286 | 2 | 2.584904706 |
| ## 3471 | 40.74349 | -73.97577 | 1 | -0.472020667 |
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| ## 3476 | 40.84245 | -73.93918 | 2 | 0.115849597 |
| ## 3477 | 40.83741 | -73.93928 | 1 | -0.765955799 |
| ## 3479 | 40.81134 | -73.95531 | 2 | 0.292210676 |
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| ## 3482 | 40.77793 | -73.96020 | 2 | 0.468571756 |
| ## 3484 | 40.84305 | -73.94045 | 2 | -0.060511482 |
| ## 3486 | 40.73261 | -74.00116 | 1 | -0.589594720 |
| ## 3487 | 40.84035 | -73.94089 | 2 | -0.413233640 |
| ## 3489 | 40.81240 | -73.93470 | 2 | 0.233423650 |
| ## 3491 | 40.74725 | -73.97431 | 2 | 0.445056945 |
| ## 3492 | 40.71111 | -74.01567 | 2 | 0.762506888 |
| ## 3494 | 40.77727 | -73.95089 | 2 | 0.233423650 |
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| ## 3497 | 40.84411 | -73.93764 | 1 | -1.001103905 |
| ## 3499 | 40.78826 | -73.96767 | 2 | 4.336758093 |
| ## 3501 | 40.77684 | -73.97979 | 2 | 0.527358782 |
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| ## 3504 | 40.78866 | -73.97878 | 2 | 0.762506888 |
| ## 3506 | 40.80272 | -73.96634 | 1 | -1.001103905 |
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| ## 3511 | 40.71724 | -73.98546 | 2 | -0.530807693 |
| ## 3512 | 40.76017 | -73.99198 | 2 | 0.821293914 |
| ## 3514 | 40.81128 | -73.94647 | 2 | 1.820673363 |
| ## 3516 | 40.82510 | -73.93899 | 1 | 0.821293914 |
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| ## 3519 | 40.75621 | -73.96802 | 2 | -0.530807693 |
| ## 3521 | 40.72191 | -73.99587 | 1 | -0.060511482 |
| ## 3522 | 40.71974 | -73.98549 | 1 | -0.483778072 |
| ## 3524 | 40.76365 | -73.98057 | 2 | 1.985277037 |
| ## 3526 | 40.72923 | -73.99949 | 1 | -0.613109530 |
| ## 3527 | 40.74089 | -74.00181 | 2 | 1.409164178 |
| ## 3529 | 40.77700 | -73.95253 | 2 | 2.584904706 |
| ## 3531 | 40.72708 | -74.00055 | 2 | 0.233423650 |
| ## 3532 | 40.71869 | -73.98282 | 1 | -0.648381746 |
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| ## 3546 | 40.73905 | -74.00140 | 2 | 0.104092192 |
| ## 3547 | 40.81192 | -73.95239 | 1 | -0.601352125 |
| ## 3549 | 40.73556 | -73.98679 | 2 | 0.821293914 |
| ## 3551 | 40.71526 | -73.98670 | 2 | 0.938867967 |
| ## 3552 | 40.76877 | -73.98460 | 2 | -0.507292883 |
| ## 3554 | 40.80121 | -73.96163 | 2 | 0.821293914 |
| ## 3556 | 40.777901 | -73.97596 | 2 | 1.056442020 |
| ## 3557 | 40.85901 | -73.92874 | 2 | -0.601352125 |
| ## 3559 | 40.77889 | -73.98155 | 2 | 0.703719861 |
| ## 3561 | 40.81143 | -73.95987 | 1 | -0.824742825 |
| ## 3562 | 40.83562 | -73.94581 | 1 | -0.472020667 |
| ## 3564 | 40.85677 | -73.93715 | 1 | -0.707168773 |
| ## 3566 | 40.79614 | -73.93787 | 2 | -0.001724456 |
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| ## 3569 | 40.72551 | -73.97893 | 2 | 1.409164178 |
| ## 3571 | 40.72014 | -73.99268 | 2 | 1.761886337 |
| ## 3572 | 40.80301 | -73.96644 | 1 | -0.707168773 |
| ## 3574 | 40.75531 | -73.96600 | 2 | 0.609660619 |
| ## 3576 | 40.78302 | -73.98057 | 2 | -0.354446614 |
| ## 3577 | 40.74409 | -73.97145 | 2 | 1.409164178 |
| ## 3579 | 40.79445 | -73.93307 | 2 | -0.119298508 |
| ## 3581 | 40.76497 | -73.99330 | 2 | 0.527358782 |
| ## 3582 | 40.80373 | -73.95523 | 2 | -0.295659588 |
| ## 3584 | 40.85475 | -73.93372 | 3 | -0.413233640 |
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| ## 3587 | 40.78354 | -73.94699 | 1 | -0.472020667 |
| ## 3589 | 40.82903 | -73.94123 | 2 | -0.354446614 |
| ## 3591 | 40.777894 | -73.98099 | 2 | 2.255697358 |
| ## 3592 | 40.80146 | -73.96132 | 1 | -0.942316878 |

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| ## 3594 | 40.73889 | -73.99749 | 1 | 0.233423650 |
| ## 3596 | 40.79115 | -73.94663 | 1 | -0.472020667 |
| ## 3597 | 40.71750 | -73.98435 | 1 | -0.413233640 |
| ## 3599 | 40.75546 | -73.99701 | 2 | 0.691962456 |
| ## 3601 | 40.77867 | -73.95121 | 1 | -0.472020667 |
| ## 3602 | 40.71296 | -74.00982 | 2 | 1.997034442 |
| ## 3604 | 40.78820 | -73.94762 | 1 | -0.942316878 |
| ## 3606 | 40.78203 | -73.97644 | 1 | 0.527358782 |
| ## 3607 | 40.77220 | -73.98119 | 2 | 1.714856715 |
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| ## 3611 | 40.71063 | -73.99526 | 1 | -0.472020667 |
| ## 3612 | 40.77357 | -73.95193 | 2 | 1.997034442 |
| ## 3614 | 40.77468 | -73.97966 | 2 | 1.985277037 |
| ## 3616 | 40.73318 | -74.00745 | 2 | 1.350377152 |
| ## 3617 | 40.84773 | -73.93346 | 1 | -1.001103905 |
| ## 3619 | 40.74253 | -73.98006 | 1 | -0.648381746 |
| ## 3621 | 40.82782 | -73.95155 | 1 | -0.601352125 |
| ## 3622 | 40.777032 | -73.96161 | 2 | 0.527358782 |
| ## 3624 | 40.73069 | -73.98515 | 2 | 0.233423650 |
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| ## 3627 | 40.72526 | -73.99201 | 2 | 0.644932835 |
| ## 3629 | 40.74039 | -74.00665 | 2 | 0.821293914 |
| ## 3631 | 40.80692 | -73.96434 | 2 | -0.119298508 |
| ## 3632 | 40.81356 | -73.94807 | 2 | 0.174636624 |
| ## 3634 | 40.72131 | -73.99429 | 2 | 1.938247416 |
| ## 3636 | 40.73481 | -73.98669 | 2 | 0.750749482 |
| ## 3637 | 40.81412 | -73.95185 | 2 | 0.115849597 |
| ## 3639 | 40.71466 | -74.00802 | 1 | -0.483778072 |
| ## 3641 | 40.72098 | -73.99493 | 2 | 2.584904706 |
| ## 3642 | 40.72514 | -73.98960 | 2 | 1.997034442 |
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| ## 3646 | 40.80168 | -73.96543 | 1 | -0.836500231 |
| ## 3647 | 40.80581 | -73.95000 | 1 | -0.718926178 |
| ## 3649 | 40.72852 | -73.98560 | 1 | -0.236872561 |
| ## 3651 | 40.80627 | -73.94896 | 1 | -0.413233640 |
| ## 3652 | 40.79159 | -73.97809 | 2 | -0.001724456 |
| ## 3654 | 40.81444 | -73.95863 | 1 | -0.648381746 |
| ## 3656 | 40.70778 | -74.00685 | 2 | 0.233423650 |
| ## 3657 | 40.85111 | -73.93325 | 1 | -0.495535477 |
| ## 3659 | 40.80066 | -73.96941 | 1 | -0.060511482 |
| ## 3661 | 40.73707 | -74.00524 | 1 | 0.233423650 |
| ## 3662 | 40.82159 | -73.95013 | 1 | -1.342068658 |
| ## 3664 | 40.78775 | -73.94891 | 1 | -0.366204019 |
| ## 3666 | 40.84064 | -73.93727 | 1 | -1.118677957 |
| ## 3667 | 40.78576 | -73.97629 | 2 | 0.433299540 |
| ## 3669 | 40.78293 | -73.97667 | 2 | 0.527358782 |
| ## 3671 | 40.71959 | -74.00429 | 1 | -0.236872561 |
| ## 3672 | 40.75506 | -73.96887 | 2 | 1.409164178 |
| ## 3674 | 40.79745 | -73.96916 | 2 | 1.761886337 |
| ## 3676 | 40.72378 | -73.98385 | 2 | -0.001724456 |
| ## 3677 | 40.87494 | -73.91057 | 2 | -1.059890931 |
| ## 3679 | 40.73637 | -73.98619 | 2 | 3.161017565 |
| ## 3681 | 40.77643 | -73.95086 | 2 | 0.821293914 |
| ## 3682 | 40.73249 | -73.98870 | 1 | 0.821293914 |

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| ## 3684 | 40.83998 | -73.94295 | 1 | -0.707168773 |
| ## 3686 | 40.73507 | -74.00826 | 2 | 1.279832720 |
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| ## 3692 | 40.78017 | -73.98317 | 2 | 0.233423650 |
| ## 3694 | 40.74476 | -73.99862 | 2 | -0.354446614 |
| ## 3696 | 40.71983 | -73.98801 | 2 | 0.115849597 |
| ## 3697 | 40.74583 | -73.97834 | 2 | 0.350997703 |
| ## 3699 | 40.84543 | -73.94283 | 1 | -0.848257636 |
| ## 3701 | 40.78396 | -73.95218 | 1 | -0.236872561 |
| ## 3702 | 40.77883 | -73.97494 | 1 | 0.350997703 |
| ## 3704 | 40.85516 | -73.93780 | 2 | 0.821293914 |
| ## 3706 | 40.79169 | -73.97498 | 2 | -0.519050288 |
| ## 3707 | 40.75674 | -73.99774 | 1 | -0.013481861 |
| ## 3709 | 40.72066 | -73.99566 | 1 | -0.413233640 |
| ## 3711 | 40.79275 | -73.97199 | 1 | -0.472020667 |
| ## 3712 | 40.78125 | -73.94851 | 2 | 1.409164178 |
| ## 3714 | 40.73404 | -74.00955 | 2 | 0.821293914 |
| ## 3716 | 40.72644 | -73.97866 | 1 | -0.178085535 |
| ## 3717 | 40.71762 | -73.99328 | 1 | -0.483778072 |
| ## 3719 | 40.79276 | -73.93854 | 1 | 0.115849597 |
| ## 3721 | 40.74957 | -73.98255 | 2 | 0.762506888 |
| ## 3722 | 40.75545 | -73.96896 | 1 | -0.060511482 |
| ## 3724 | 40.80273 | -73.95748 | 2 | 0.468571756 |
| ## 3726 | 40.74870 | -73.97358 | 2 | -0.060511482 |
| ## 3727 | 40.73235 | -73.98392 | 1 | 1.938247416 |
| ## 3729 | 40.77224 | -73.94844 | 1 | -0.954074283 |
| ## 3731 | 40.71507 | -73.99033 | 2 | 1.350377152 |
| ## 3732 | 40.82948 | -73.94876 | 1 | -0.883529852 |
| ## 3734 | 40.82373 | -73.95144 | 1 | -0.942316878 |
| ## 3736 | 40.76015 | -73.96378 | 2 | 1.373891962 |
| ## 3737 | 40.80182 | -73.94014 | 1 | -0.295659588 |
| ## 3739 | 40.75085 | -73.98266 | 2 | 0.233423650 |
| ## 3741 | 40.73992 | -73.99888 | 2 | 0.809536509 |
| ## 3742 | 40.72764 | -74.00076 | 2 | 4.336758093 |
| ## 3744 | 40.76440 | -73.99338 | 1 | -0.001724456 |
| ## 3746 | 40.79000 | -73.97318 | 2 | 1.056442020 |
| ## 3747 | 40.72174 | -73.98418 | 1 | -0.566079909 |
| ## 3749 | 40.76571 | -73.98023 | 2 | 1.997034442 |
| ## 3751 | 40.76400 | -73.95870 | 2 | 0.057062571 |
| ## 3752 | 40.80571 | -73.95429 | 2 | 0.233423650 |
| ## 3754 | 40.73408 | -74.00263 | 2 | 1.409164178 |
| ## 3756 | 40.83771 | -73.94638 | 2 | 0.821293914 |
| ## 3757 | 40.79324 | -73.97489 | 2 | 0.115849597 |
| ## 3759 | 40.78370 | -73.97851 | 2 | 2.996413891 |
| ## 3761 | 40.72781 | -73.98620 | 2 | -0.236872561 |
| ## 3762 | 40.81698 | -73.95259 | 2 | -0.178085535 |
| ## 3764 | 40.82119 | -73.95773 | 1 | -0.765955799 |
| ## 3766 | 40.80625 | -73.96176 | 1 | -0.542565099 |
| ## 3767 | 40.75055 | -73.98679 | 2 | 2.467330653 |
| ## 3769 | 40.76622 | -73.97783 | 2 | 2.584904706 |
| ## 3771 | 40.73963 | -73.99898 | 2 | 0.527358782 |
| ## 3772 | 40.74218 | -73.99963 | 2 | 2.584904706 |

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| ## 3774 | 40.73638 | -74.00393 | 2 | 0.586145808 |
| ## 3776 | 40.82589 | -73.95094 | 1 | -0.589594720 |
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| ## 3779 | 40.77323 | -73.95567 | 1 | -0.530807693 |
| ## 3781 | 40.77205 | -73.95339 | 2 | 1.291590125 |
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| ## 3784 | 40.85133 | -73.93844 | 1 | -0.589594720 |
| ## 3786 | 40.81790 | -73.95390 | 1 | -0.648381746 |
| ## 3787 | 40.72872 | -73.98639 | 2 | 0.292210676 |
| ## 3789 | 40.72911 | -73.99915 | 2 | 2.584904706 |
| ## 3791 | 40.80170 | -73.96991 | 2 | 1.409164178 |
| ## 3792 | 40.76539 | -73.97897 | 1 | 0.586145808 |
| ## 3794 | 40.80133 | -73.96574 | 1 | -0.824742825 |
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| ## 3799 | 40.82606 | -73.95075 | 1 | -0.848257636 |
| ## 3801 | 40.82879 | -73.93821 | 2 | -0.589594720 |
| ## 3802 | 40.85131 | -73.94059 | 1 | -0.648381746 |
| ## 3804 | 40.81894 | -73.93871 | 1 | -0.577837314 |
| ## 3806 | 40.82536 | -73.94383 | 2 | -0.001724456 |
| ## 3807 | 40.83206 | -73.94261 | 2 | 0.233423650 |
| ## 3809 | 40.73909 | -73.97880 | 1 | -0.707168773 |
| ## 3811 | 40.71855 | -73.98950 | 2 | 0.633175430 |
| ## 3812 | 40.83721 | -73.93894 | 1 | -0.942316878 |
| ## 3814 | 40.79229 | -73.93954 | 1 | -0.413233640 |
| ## 3816 | 40.73391 | -73.98552 | 2 | 0.233423650 |
| ## 3817 | 40.72699 | -73.98694 | 2 | 0.821293914 |
| ## 3819 | 40.79601 | -73.93454 | 1 | -0.942316878 |
| ## 3821 | 40.78602 | -73.97729 | 1 | -0.483778072 |
| ## 3822 | 40.70610 | -74.01570 | 1 | -0.530807693 |
| ## 3824 | 40.73204 | -74.00399 | 2 | 0.350997703 |
| ## 3826 | 40.74801 | -73.98817 | 2 | 1.115229046 |
| ## 3827 | 40.84239 | -73.93574 | 2 | 0.104092192 |
| ## 3829 | 40.76555 | -73.95791 | 2 | 3.161017565 |
| ## 3831 | 40.77689 | -73.98103 | 2 | 0.057062571 |
| ## 3832 | 40.73783 | -73.99383 | 1 | -0.354446614 |
| ## 3834 | 40.73267 | -74.00379 | 1 | 0.115849597 |
| ## 3836 | 40.79828 | -73.97231 | 2 | 0.233423650 |
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| ## 3839 | 40.83155 | -73.94804 | 1 | -0.530807693 |
| ## 3841 | 40.73082 | -73.98182 | 2 | -0.119298508 |
| ## 3842 | 40.73608 | -74.00039 | 2 | 1.997034442 |
| ## 3844 | 40.72639 | -73.98875 | 2 | 1.761886337 |
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| ## 3847 | 40.73857 | -73.99787 | 2 | 3.172774970 |
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| ## 3856 | 40.79435 | -73.94071 | 1 | -0.389718830 |
| ## 3857 | 40.74912 | -73.98007 | 2 | 0.174636624 |
| ## 3859 | 40.75885 | -73.99584 | 1 | -0.001724456 |
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| ## 3864 | 40.78165 | -73.94825 | 2 | -0.036996671 |
| ## 3866 | 40.74650 | -73.99100 | 1 | -0.354446614 |
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| ## 3874 | 40.76217 | -73.96622 | 2 | 1.703099310 |
| ## 3876 | 40.76685 | -73.95265 | 2 | 1.409164178 |
| ## 3877 | 40.72879 | -73.98575 | 1 | -0.354446614 |
| ## 3879 | 40.74558 | -74.00325 | 2 | 1.526738231 |
| ## 3881 | 40.74688 | -74.00145 | 2 | 0.821293914 |
| ## 3882 | 40.80352 | -73.95079 | 2 | -0.248629967 |
| ## 3884 | 40.71937 | -73.99098 | 2 | -0.119298508 |
| ## 3886 | 40.77259 | -73.95647 | 2 | 0.821293914 |
| ## 3887 | 40.73742 | -74.00171 | 2 | 0.809536509 |
| ## 3889 | 40.77818 | -73.98959 | 2 | 1.479708610 |
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| ## 3892 | 40.74642 | -73.98516 | 2 | 1.056442020 |
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| ## 3896 | 40.81791 | -73.95357 | 1 | -0.824742825 |
| ## 3897 | 40.73420 | -74.00854 | 2 | 1.115229046 |
| ## 3899 | 40.79745 | -73.96936 | 2 | -0.001724456 |
| ## 3901 | 40.76966 | -73.95319 | 2 | 0.233423650 |
| ## 3902 | 40.83705 | -73.93990 | 1 | -0.883529852 |
| ## 3904 | 40.73643 | -74.00351 | 2 | 0.115849597 |
| ## 3906 | 40.70793 | -74.00411 | 1 | -0.060511482 |
| ## 3907 | 40.76644 | -73.95803 | 2 | -0.001724456 |
| ## 3909 | 40.76037 | -73.99084 | 1 | 0.292210676 |
| ## 3911 | 40.86623 | -73.91993 | 1 | -0.942316878 |
| ## 3912 | 40.76140 | -73.98954 | 1 | 0.292210676 |
| ## 3914 | 40.77824 | -73.97701 | 2 | 2.878839838 |
| ## 3916 | 40.77734 | -73.95997 | 2 | 0.233423650 |
| ## 3917 | 40.76180 | -73.99093 | 1 | 1.467951205 |
| ## 3919 | 40.76146 | -73.99109 | 1 | 0.292210676 |
| ## 3921 | 40.75987 | -73.99056 | 1 | 0.292210676 |
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| ## 3924 | 40.81456 | -73.94159 | 1 | -0.765955799 |
| ## 3926 | 40.83340 | -73.93913 | 1 | -0.577837314 |
| ## 3927 | 40.72949 | -73.98012 | 1 | -0.589594720 |
| ## 3929 | 40.73728 | -74.00773 | 2 | -0.413233640 |
| ## 3931 | 40.79866 | -73.96810 | 2 | 3.878219287 |
| ## 3932 | 40.84872 | -73.93633 | 1 | -0.718926178 |
| ## 3934 | 40.74733 | -73.99023 | 1 | -0.366204019 |
| ## 3936 | 40.73185 | -74.00271 | 2 | 0.233423650 |
| ## 3937 | 40.71966 | -73.98166 | 2 | 0.997654993 |
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| ## 3941 | 40.81103 | -73.95804 | 1 | -0.566079909 |
| ## 3942 | 40.85151 | -73.93789 | 2 | -0.295659588 |
| ## 3944 | 40.72900 | -74.00066 | 2 | 1.350377152 |
| ## 3946 | 40.71905 | -73.98487 | 2 | 1.409164178 |
| ## 3947 | 40.70892 | -74.01325 | 2 | -0.001724456 |
| ## 3949 | 40.82094 | -73.95622 | 1 | 0.644932835 |
| ## 3951 | 40.71449 | -73.98740 | 1 | -0.483778072 |
| ## 3952 | 40.72148 | -73.98235 | 2 | 1.338619746 |

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| ## 3954 | 40.82443 | -73.93843 | 1 | -1.059890931 |
| ## 3956 | 40.777870 | -73.98088 | 2 | 1.514980826 |
| ## 3957 | 40.72140 | -73.99635 | 1 | -0.354446614 |
| ## 3959 | 40.76308 | -73.99000 | 1 | 0.703719861 |
| ## 3961 | 40.73983 | -73.99880 | 2 | 1.938247416 |
| ## 3962 | 40.75603 | -73.99247 | 2 | -0.413233640 |
| ## 3964 | 40.82878 | -73.94625 | 1 | -0.942316878 |
| ## 3966 | 40.74508 | -73.97854 | 2 | 2.584904706 |
| ## 3967 | 40.78968 | -73.94202 | 1 | -0.589594720 |
| ## 3969 | 40.74138 | -74.00072 | 2 | 0.292210676 |
| ## 3971 | 40.84666 | -73.93790 | 1 | -1.001103905 |
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| ## 3977 | 40.73323 | -74.00434 | 2 | 0.797779103 |
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| ## 3987 | 40.81961 | -73.93937 | 1 | -1.024618715 |
| ## 3989 | 40.78147 | -73.97806 | 2 | 0.233423650 |
| ## 3991 | 40.74206 | -73.98014 | 1 | -0.354446614 |
| ## 3992 | 40.77252 | -73.95560 | 2 | 0.115849597 |
| ## 3994 | 40.78905 | -73.96748 | 2 | 0.644932835 |
| ## 3996 | 40.79265 | -73.97108 | 1 | -0.483778072 |
| ## 3997 | 40.74815 | -73.99417 | 2 | 1.409164178 |
| ## 3999 | 40.74682 | -74.00417 | 1 | 0.057062571 |
| ## 4001 | 40.79063 | -73.94718 | 2 | -0.236872561 |
| ## 4002 | 40.81254 | -73.94118 | 2 | -0.060511482 |
| ## 4004 | 40.77566 | -73.95335 | 2 | -0.142813319 |
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| ## 4009 | 40.80100 | -73.96647 | 1 | -0.707168773 |
| ## 4011 | 40.73104 | -73.99708 | 2 | 1.174016072 |
| ## 4012 | 40.76112 | -73.96190 | 2 | 0.233423650 |
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| ## 4021 | 40.78289 | -73.98477 | 2 | -0.060511482 |
| ## 4022 | 40.74462 | -73.98272 | 2 | 0.233423650 |
| ## 4024 | 40.72297 | -73.97973 | 1 | -0.366204019 |
| ## 4026 | 40.80016 | -73.96448 | 1 | 0.104092192 |
| ## 4027 | 40.81398 | -73.95213 | 1 | -0.765955799 |
| ## 4029 | 40.78180 | -73.98483 | 2 | -0.178085535 |
| ## 4031 | 40.75440 | -73.97345 | 2 | 0.703719861 |
| ## 4032 | 40.79243 | -73.93952 | 2 | -0.001724456 |
| ## 4034 | 40.73912 | -73.98250 | 2 | 1.997034442 |
| ## 4036 | 40.71947 | -73.99327 | 1 | 0.233423650 |
| ## 4037 | 40.82416 | -73.95306 | 1 | -0.648381746 |
| ## 4039 | 40.76425 | -73.96811 | 2 | 0.762506888 |
| ## 4041 | 40.81514 | -73.95954 | 1 | -0.589594720 |
| ## 4042 | 40.78551 | -73.94167 | 2 | -0.366204019 |

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| ## 4044 | 40.72745 | -74.00270 | 2 | 0.703719861 |
| ## 4046 | 40.74613 | -74.00468 | 2 | 2.584904706 |
| ## 4047 | 40.77734 | -73.95779 | 3 | -0.001724456 |
| ## 4049 | 40.72795 | -73.98503 | 2 | 1.409164178 |
| ## 4051 | 40.80481 | -73.96375 | 1 | -1.001103905 |
| ## 4052 | 40.84454 | -73.94188 | 1 | -0.707168773 |
| ## 4054 | 40.75870 | -73.96705 | 1 | -0.295659588 |
| ## 4056 | 40.78402 | -73.94974 | 2 | 1.079956830 |
| ## 4057 | 40.73669 | -74.00375 | 2 | 0.221666245 |
| ## 4059 | 40.81054 | -73.94447 | 1 | 0.057062571 |
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| ## 4066 | 40.79674 | -73.94449 | 1 | -0.671896557 |
| ## 4067 | 40.80594 | -73.95363 | 2 | -0.589594720 |
| ## 4069 | 40.77408 | -73.98181 | 2 | 1.350377152 |
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| ## 4079 | 40.77269 | -73.95055 | 2 | 0.115849597 |
| ## 4081 | 40.72600 | -74.00204 | 2 | 0.233423650 |
| ## 4082 | 40.74020 | -73.97935 | 2 | 0.762506888 |
| ## 4084 | 40.77553 | -73.95343 | 2 | -0.119298508 |
| ## 4086 | 40.71813 | -73.99665 | 1 | -0.483778072 |
| ## 4087 | 40.77344 | -73.95035 | 2 | 1.326862341 |
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| ## 4091 | 40.72639 | -73.98756 | 2 | 0.233423650 |
| ## 4092 | 40.76551 | -73.98899 | 3 | -0.166328130 |
| ## 4094 | 40.73634 | -74.00485 | 2 | 2.584904706 |
| ## 4096 | 40.77770 | -73.98960 | 2 | 0.821293914 |
| ## 4097 | 40.72382 | -73.98171 | 1 | -0.589594720 |
| ## 4099 | 40.82632 | -73.95168 | 2 | -0.060511482 |
| ## 4101 | 40.76040 | -73.96257 | 2 | 0.703719861 |
| ## 4102 | 40.72123 | -73.99513 | 1 | -0.472020667 |
| ## 4104 | 40.75651 | -73.96696 | 2 | 3.760645234 |
| ## 4106 | 40.73022 | -73.98893 | 2 | 0.797779103 |
| ## 4107 | 40.75788 | -73.96890 | 2 | 0.221666245 |
| ## 4109 | 40.71892 | -73.99241 | 1 | 0.233423650 |
| ## 4111 | 40.72474 | -73.98273 | 1 | -0.236872561 |
| ## 4112 | 40.76533 | -73.96163 | 2 | 1.644312284 |
| ## 4114 | 40.73894 | -74.00067 | 2 | 1.409164178 |
| ## 4116 | 40.79820 | -73.96931 | 2 | 0.668447645 |
| ## 4117 | 40.76812 | -73.98341 | 2 | -0.366204019 |
| ## 4119 | 40.83470 | -73.94413 | 1 | -1.001103905 |
| ## 4121 | 40.79033 | -73.97290 | 2 | 0.115849597 |
| ## 4122 | 40.72393 | -73.98271 | 1 | -0.354446614 |
| ## 4124 | 40.71706 | -73.99285 | 2 | -0.236872561 |
| ## 4126 | 40.74281 | -73.97981 | 1 | -0.119298508 |
| ## 4127 | 40.72179 | -73.99829 | 2 | 0.339240298 |
| ## 4129 | 40.79355 | -73.97122 | 1 | -0.413233640 |
| ## 4131 | 40.79632 | -73.96225 | 1 | -0.366204019 |
| ## 4132 | 40.72299 | -73.97756 | 2 | 0.209908839 |

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| ## 4134 | 40.79527 | -73.96695 | 2 | 0.409784729 |
| ## 4136 | 40.83524 | -73.94300 | 2 | 0.409784729 |
| ## 4137 | 40.80441 | -73.96409 | 2 | -0.119298508 |
| ## 4139 | 40.80595 | -73.94882 | 2 | 2.643691733 |
| ## 4141 | 40.72135 | -73.98668 | 2 | 0.586145808 |
| ## 4142 | 40.86717 | -73.91943 | 2 | 0.174636624 |
| ## 4144 | 40.75255 | -73.98003 | 2 | 0.433299540 |
| ## 4146 | 40.74882 | -73.97788 | 2 | 0.350997703 |
| ## 4147 | 40.79874 | -73.96034 | 2 | -0.001724456 |
| ## 4149 | 40.86755 | -73.92336 | 2 | 0.527358782 |
| ## 4151 | 40.72873 | -73.98793 | 1 | -0.472020667 |
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| ## 4154 | 40.71992 | -73.98822 | 2 | -0.236872561 |
| ## 4156 | 40.82101 | -73.95436 | 1 | -0.695411367 |
| ## 4157 | 40.79831 | -73.93961 | 1 | -0.707168773 |
| ## 4159 | 40.80569 | -73.96058 | 2 | -0.648381746 |
| ## 4161 | 40.85487 | -73.93777 | 2 | -0.178085535 |
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| ## 4164 | 40.79024 | -73.97911 | 2 | 0.821293914 |
| ## 4166 | 40.72010 | -73.98410 | 2 | 0.527358782 |
| ## 4167 | 40.71574 | -73.99107 | 1 | -0.354446614 |
| ## 4169 | 40.73330 | -73.98943 | 2 | 1.044684614 |
| ## 4171 | 40.71475 | -73.99120 | 2 | -0.119298508 |
| ## 4172 | 40.73088 | -74.00035 | 2 | 0.115849597 |
| ## 4174 | 40.79715 | -73.96873 | 1 | -0.589594720 |
| ## 4176 | 40.80445 | -73.96490 | 2 | 0.115849597 |
| ## 4177 | 40.78931 | -73.97520 | 2 | 0.821293914 |
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| ## 4191 | 40.73125 | -73.98675 | 2 | 4.113367393 |
| ## 4192 | 40.72545 | -73.98802 | 2 | 1.985277037 |
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| ## 4201 | 40.73813 | -73.98098 | 2 | 1.761886337 |
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| ## 4204 | 40.78763 | -73.97308 | 1 | -0.013481861 |
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| ## 4207 | 40.83769 | -73.94207 | 1 | -1.059890931 |
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| ## 4211 | 40.72157 | -73.98489 | 2 | -0.001724456 |
| ## 4212 | 40.73529 | -74.00323 | 2 | 1.232803099 |
| ## 4214 | 40.75979 | -73.99402 | 1 | -0.589594720 |
| ## 4216 | 40.73545 | -74.00686 | 2 | 0.762506888 |
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| ## 4221 | 40.71645 | -74.00402 | 2 | 1.409164178 |
| ## 4222 | 40.80304 | -73.96582 | 1 | -0.777713204 |

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| ## 4224 | 40.76579 | -73.98057 | 2 | 1.526738231 |
| ## 4226 | 40.72492 | -73.97914 | 1 | -0.589594720 |
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| ## 4231 | 40.74627 | -73.99142 | 1 | 0.233423650 |
| ## 4232 | 40.80023 | -73.93822 | 1 | -1.118677957 |
| ## 4234 | 40.82681 | -73.94260 | 1 | -1.118677957 |
| ## 4236 | 40.73943 | -73.98135 | 2 | 0.809536509 |
| ## 4237 | 40.78858 | -73.94742 | 2 | 0.515601377 |
| ## 4239 | 40.72423 | -73.99013 | 1 | -0.131055914 |
| ## 4241 | 40.72210 | -74.00464 | 1 | -0.060511482 |
| ## 4242 | 40.75277 | -73.96686 | 1 | -0.707168773 |
| ## 4244 | 40.72164 | -73.97927 | 2 | 0.527358782 |
| ## 4246 | 40.76171 | -73.99478 | 1 | 0.233423650 |
| ## 4247 | 40.71508 | -73.98973 | 1 | -0.119298508 |
| ## 4249 | 40.79933 | -73.95949 | 2 | 0.644932835 |
| ## 4251 | 40.71934 | -73.98424 | 1 | -0.389718830 |
| ## 4252 | 40.74537 | -73.97462 | 2 | 1.174016072 |
| ## 4254 | 40.72579 | -73.99341 | 2 | 1.350377152 |
| ## 4256 | 40.76441 | -73.98058 | 2 | 3.008171296 |
| ## 4257 | 40.73774 | -73.97343 | 1 | -0.413233640 |
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| ## 4261 | 40.77088 | -73.98061 | 2 | 0.115849597 |
| ## 4262 | 40.72228 | -73.98380 | 2 | 1.409164178 |
| ## 4264 | 40.72163 | -73.97888 | 1 | -0.354446614 |
| ## 4266 | 40.73579 | -73.98175 | 1 | 0.821293914 |
| ## 4267 | 40.82622 | -73.94980 | 1 | -0.718926178 |
| ## 4269 | 40.83523 | -73.93980 | 1 | -1.059890931 |
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| ## 4272 | 40.79555 | -73.96578 | 2 | 3.161017565 |
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| ## 4291 | 40.76432 | -73.99396 | 2 | 0.527358782 |
| ## 4292 | 40.70725 | -74.01533 | 2 | 3.760645234 |
| ## 4294 | 40.77780 | -73.98407 | 2 | -0.060511482 |
| ## 4296 | 40.777085 | -73.95725 | 2 | -0.142813319 |
| ## 4297 | 40.72682 | -73.97845 | 2 | 1.409164178 |
| ## 4299 | 40.72560 | -73.99555 | 1 | -0.060511482 |
| ## 4301 | 40.81211 | -73.93780 | 1 | -0.648381746 |
| ## 4302 | 40.80120 | -73.96382 | 1 | -0.507292883 |
| ## 4304 | 40.72547 | -74.01000 | 1 | 1.997034442 |
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| ## 4314 | 40.76030 | -73.99222 | 2 | 0.821293914 |
| ## 4316 | 40.82034 | -73.94345 | 1 | 0.821293914 |
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| ## 4354 | 40.72634 | -74.00101 | 2 | 0.586145808 |
| ## 4356 | 40.74334 | -73.99204 | 2 | 3.172774970 |
| ## 4357 | 40.74380 | -73.99751 | 1 | -0.142813319 |
| ## 4359 | 40.81095 | -73.95296 | 2 | 1.985277037 |
| ## 4361 | 40.83431 | -73.94020 | 1 | -0.707168773 |
| ## 4362 | 40.80417 | -73.96874 | 1 | 0.433299540 |
| ## 4364 | 40.71813 | -73.99231 | 2 | 0.174636624 |
| ## 4366 | 40.81835 | -73.94138 | 1 | -0.942316878 |
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| ## 4386 | 40.78557 | -73.97214 | 1 | 0.233423650 |
| ## 4387 | 40.74376 | -74.00387 | 2 | 1.644312284 |
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| ## 4401 | 40.72811 | -73.98453 | 1 | -0.413233640 |
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| ## 4404 | 40.77368 | -73.98704 | 1 | -0.824742825 |
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| ## 4411 | 40.74751 | -73.97676 | 2 | 0.703719861 |
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| ## 4421 | 40.71382 | -73.99769 | 1 | -0.648381746 |
| ## 4422 | 40.71912 | -73.99776 | 1 | -0.812985420 |
| ## 4424 | 40.72276 | -73.99314 | 2 | 2.584904706 |
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| ## 4427 | 40.77148 | -73.98226 | 1 | 0.609660619 |
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| ## 4434 | 40.78502 | -73.94763 | 2 | 0.691962456 |
| ## 4436 | 40.74590 | -73.97607 | 1 | 0.468571756 |
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| ## 4439 | 40.76444 | -73.98592 | 2 | 1.997034442 |
| ## 4441 | 40.86363 | -73.93002 | 1 | -0.965831689 |
| ## 4442 | 40.80739 | -73.94196 | 2 | 0.268695866 |
| ## 4444 | 40.78824 | -73.94687 | 2 | 0.762506888 |
| ## 4446 | 40.82453 | -73.93952 | 1 | -0.824742825 |
| ## 4447 | 40.70993 | -73.98700 | 3 | -1.118677957 |
| ## 4449 | 40.74212 | -73.99828 | 1 | 0.938867967 |
| ## 4451 | 40.86274 | -73.92842 | 1 | -1.271524226 |
| ## 4452 | 40.74336 | -74.00278 | 2 | 0.821293914 |
| ## 4454 | 40.82651 | -73.94871 | 2 | 3.760645234 |
| ## 4456 | 40.73162 | -74.00928 | 2 | 0.586145808 |
| ## 4457 | 40.80610 | -73.96641 | 1 | -0.472020667 |
| ## 4459 | 40.74148 | -74.00048 | 2 | 1.115229046 |
| ## 4461 | 40.70689 | -74.01451 | 2 | 0.350997703 |
| ## 4462 | 40.74056 | -73.98389 | 1 | -0.707168773 |
| ## 4464 | 40.78290 | -73.94694 | 2 | 0.468571756 |
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| ## 4486 | 40.73415 | -73.99814 | 2 | 3.466710102 |
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| ## 4489 | 40.80379 | -73.96571 | 1 | -0.589594720 |
| ## 4491 | 40.80111 | -73.96539 | 1 | -0.648381746 |
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| ## 4494 | 40.70501 | -74.01395 | 1 | -0.472020667 |
| ## 4496 | 40.81411 | -73.96073 | 2 | 0.586145808 |
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| ## 4499 | 40.74926 | -73.98201 | 2 | 1.409164178 |
| ## 4501 | 40.74005 | -74.00466 | 1 | -0.648381746 |
| ## 4502 | 40.72113 | -73.99465 | 1 | -0.836500231 |
| ## 4504 | 40.80755 | -73.95104 | 2 | -0.354446614 |
| ## 4506 | 40.72147 | -73.98733 | 2 | 1.938247416 |
| ## 4507 | 40.72460 | -73.98953 | 2 | 3.172774970 |
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| ## 4512 | 40.73570 | -73.98087 | 1 | -0.507292883 |
| ## 4514 | 40.71987 | -73.99436 | 2 | 1.115229046 |
| ## 4516 | 40.75709 | -73.96972 | 2 | 1.985277037 |
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| ## 4519 | 40.80021 | -73.96634 | 2 | 0.762506888 |
| ## 4521 | 40.75543 | -73.99662 | 1 | 0.115849597 |
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| ## 4529 | 40.70518 | -74.01270 | 1 | -0.589594720 |
| ## 4531 | 40.74680 | -74.00493 | 2 | 0.527358782 |
| ## 4532 | 40.84877 | -73.93515 | 1 | -1.024618715 |
| ## 4534 | 40.73428 | -73.98521 | 2 | 1.997034442 |
| ## 4536 | 40.72395 | -73.98001 | 2 | 0.233423650 |
| ## 4537 | 40.76449 | -73.99340 | 2 | 0.527358782 |
| ## 4539 | 40.78888 | -73.97723 | 2 | 0.233423650 |
| ## 4541 | 40.78938 | -73.94679 | 2 | 0.115849597 |
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| ## 4544 | 40.73518 | -73.98047 | 2 | 1.409164178 |
| ## 4546 | 40.77098 | -73.95965 | 2 | 0.233423650 |
| ## 4547 | 40.71449 | -73.98700 | 1 | -0.707168773 |
| ## 4549 | 40.71846 | -73.98672 | 1 | -0.589594720 |
| ## 4551 | 40.75654 | -73.98891 | 2 | 2.808295407 |
| ## 4552 | 40.82457 | -73.94984 | 1 | -1.036376120 |
| ## 4554 | 40.76328 | -73.99347 | 1 | 0.350997703 |
| ## 4556 | 40.71909 | -73.99028 | 2 | -0.413233640 |
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| ## 4559 | 40.73243 | -73.98692 | 1 | -0.401476235 |
| ## 4561 | 40.72521 | -74.00213 | 2 | 0.174636624 |
| ## 4562 | 40.72131 | -73.98541 | 2 | -0.354446614 |
| ## 4564 | 40.82150 | -73.95565 | 1 | -0.648381746 |
| ## 4566 | 40.72157 | -73.97861 | 1 | -0.695411367 |
| ## 4567 | 40.76637 | -73.95345 | 2 | -0.142813319 |
| ## 4569 | 40.73849 | -74.00589 | 2 | 1.115229046 |
| ## 4571 | 40.73523 | -73.98668 | 1 | 0.350997703 |
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| ## 4574 | 40.81944 | -73.94080 | 1 | -0.671896557 |
| ## 4576 | 40.76633 | -73.98145 | 2 | 2.408543627 |
| ## 4577 | 40.72251 | -73.99957 | 1 | -0.942316878 |
| ## 4579 | 40.76885 | -73.98631 | 2 | 0.409784729 |
| ## 4581 | 40.74192 | -73.99978 | 1 | 0.057062571 |
| ## 4582 | 40.77285 | -73.94715 | 1 | -0.236872561 |

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| ## 4584 | 40.83713 | -73.94343 | 1 | -0.824742825 |
| ## 4586 | 40.74763 | -73.97330 | 2 | 1.409164178 |
| ## 4587 | 40.75091 | -73.99414 | 3 | 0.821293914 |
| ## 4589 | 40.72913 | -74.00074 | 1 | -0.648381746 |
| ## 4591 | 40.78129 | -73.98572 | 3 | -0.765955799 |
| ## 4592 | 40.75014 | -73.99069 | 2 | 1.409164178 |
| ## 4594 | 40.73221 | -74.00928 | 2 | 2.878839838 |
| ## 4596 | 40.71608 | -73.99425 | 1 | -0.683653962 |
| ## 4597 | 40.77569 | -73.98028 | 2 | 1.409164178 |
| ## 4599 | 40.82987 | -73.94625 | 2 | -0.624866936 |
| ## 4601 | 40.74921 | -73.98445 | 2 | 0.644932835 |
| ## 4602 | 40.74042 | -73.99714 | 1 | -0.354446614 |
| ## 4604 | 40.72126 | -73.98482 | 2 | -0.248629967 |
| ## 4606 | 40.80189 | -73.96962 | 1 | 0.256938461 |
| ## 4607 | 40.71555 | -73.99298 | 2 | 1.997034442 |
| ## 4609 | 40.72045 | -73.99016 | 2 | 1.409164178 |
| ## 4611 | 40.79791 | -73.96951 | 2 | -0.001724456 |
| ## 4612 | 40.74840 | -73.97298 | 1 | 0.821293914 |
| ## 4614 | 40.74465 | -73.99253 | 2 | -0.013481861 |
| ## 4616 | 40.75512 | -73.96826 | 2 | 0.233423650 |
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| ## 4621 | 40.80115 | -73.96043 | 1 | -0.824742825 |
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| ## 4624 | 40.72731 | -74.00472 | 2 | 2.584904706 |
| ## 4626 | 40.76145 | -73.98556 | 2 | 0.856566130 |
| ## 4627 | 40.70550 | -74.00812 | 2 | 0.691962456 |
| ## 4629 | 40.777950 | -73.94778 | 2 | -0.860015041 |
| ## 4631 | 40.777343 | -73.95651 | 2 | -0.142813319 |
| ## 4632 | 40.75989 | -73.98900 | 3 | 1.409164178 |
| ## 4634 | 40.76511 | -73.96555 | 2 | 0.292210676 |
| ## 4636 | 40.78856 | -73.97368 | 1 | -0.178085535 |
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| ## 4639 | 40.81525 | -73.94552 | 2 | 0.409784729 |
| ## 4641 | 40.72873 | -73.98399 | 2 | 1.115229046 |
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| ## 4644 | 40.75245 | -73.98442 | 2 | 0.468571756 |
| ## 4646 | 40.76777 | -73.96393 | 2 | 1.985277037 |
| ## 4647 | 40.74553 | -73.97302 | 1 | -0.354446614 |
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| ## 4651 | 40.72573 | -73.97926 | 2 | -0.013481861 |
| ## 4652 | 40.73845 | -73.97950 | 2 | 0.409784729 |
| ## 4654 | 40.76127 | -73.99181 | 2 | 1.350377152 |
| ## 4656 | 40.70517 | -74.01142 | 2 | 2.584904706 |
| ## 4657 | 40.80679 | -73.94408 | 1 | -0.801228015 |
| ## 4659 | 40.74318 | -73.99820 | 2 | -0.013481861 |
| ## 4661 | 40.72995 | -73.98135 | 2 | 0.821293914 |
| ## 4662 | 40.71460 | -73.98423 | 1 | -0.483778072 |
| ## 4664 | 40.72528 | -74.00223 | 1 | -0.683653962 |
| ## 4666 | 40.70956 | -74.01605 | 2 | 0.409784729 |
| ## 4667 | 40.72018 | -74.00981 | 1 | -0.354446614 |
| ## 4669 | 40.75249 | -73.96866 | 2 | -0.119298508 |
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| ## 4674 | 40.73921 | -73.99717 | 2 | 1.056442020 |
| ## 4676 | 40.78222 | -73.94791 | 2 | -0.354446614 |
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| ## 4679 | 40.71343 | -73.99532 | 1 | -0.824742825 |
| ## 4681 | 40.80089 | -73.95674 | 2 | 0.821293914 |
| ## 4682 | 40.76641 | -73.94561 | 3 | -1.001103905 |
| ## 4684 | 40.70660 | -74.00396 | 1 | -0.119298508 |
| ## 4686 | 40.75463 | -73.97445 | 2 | -0.072268887 |
| ## 4687 | 40.77569 | -73.95202 | 2 | 0.115849597 |
| ## 4689 | 40.80577 | -73.94708 | 1 | -0.119298508 |
| ## 4691 | 40.77340 | -73.95832 | 2 | 0.233423650 |
| ## 4692 | 40.80214 | -73.95325 | 1 | -0.765955799 |
| ## 4694 | 40.77354 | -73.98462 | 1 | -0.448505856 |
| ## 4696 | 40.79505 | -73.93925 | 2 | 0.527358782 |
| ## 4697 | 40.72504 | -73.97905 | 2 | 0.586145808 |
| ## 4699 | 40.74513 | -74.00076 | 1 | -0.413233640 |
| ## 4701 | 40.84111 | -73.93698 | 1 | -0.765955799 |
| ## 4702 | 40.75383 | -73.99536 | 2 | 0.703719861 |
| ## 4704 | 40.81243 | -73.93920 | 2 | 1.409164178 |
| ## 4706 | 40.77832 | -73.98069 | 2 | 1.115229046 |
| ## 4707 | 40.85369 | -73.93187 | 1 | -0.730683583 |
| ## 4709 | 40.71868 | -73.99036 | 2 | 0.915353156 |
| ## 4711 | 40.80204 | -73.95794 | 1 | -0.354446614 |
| ## 4712 | 40.85415 | -73.93108 | 1 | -1.059890931 |
| ## 4714 | 40.73418 | -74.00460 | 2 | 0.750749482 |
| ## 4716 | 40.82205 | -73.94670 | 1 | -1.036376120 |
| ## 4717 | 40.72681 | -73.99952 | 2 | 1.291590125 |
| ## 4719 | 40.78086 | -73.94974 | 2 | 0.057062571 |
| ## 4721 | 40.82137 | -73.94769 | 1 | -0.707168773 |
| ## 4722 | 40.72409 | -74.00241 | 1 | 0.809536509 |
| ## 4724 | 40.80801 | -73.94860 | 1 | 0.586145808 |
| ## 4726 | 40.82755 | -73.93787 | 2 | -0.060511482 |
| ## 4727 | 40.77001 | -73.95691 | 1 | 0.527358782 |
| ## 4729 | 40.76128 | -73.99617 | 2 | 0.691962456 |
| ## 4731 | 40.76039 | -73.99002 | 1 | -0.707168773 |
| ## 4732 | 40.79512 | -73.97479 | 1 | -0.589594720 |
| ## 4734 | 40.72824 | -73.97543 | 2 | 0.515601377 |
| ## 4736 | 40.72749 | -73.98894 | 1 | -0.248629967 |
| ## 4737 | 40.73435 | -73.99903 | 2 | 1.174016072 |
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| ## 4741 | 40.70698 | -74.01383 | 2 | 0.115849597 |
| ## 4742 | 40.76502 | -73.98198 | 1 | 3.161017565 |
| ## 4744 | 40.76096 | -73.95964 | 2 | 1.409164178 |
| ## 4746 | 40.76483 | -73.95801 | 2 | 1.397406773 |
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| ## 4751 | 40.76095 | -73.98668 | 1 | 0.233423650 |
| ## 4752 | 40.72972 | -73.98750 | 1 | 0.115849597 |
| ## 4754 | 40.71631 | -73.99694 | 2 | 0.104092192 |
| ## 4756 | 40.77455 | -73.94982 | 2 | 0.174636624 |
| ## 4757 | 40.82323 | -73.95494 | 1 | -0.883529852 |
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| ## 4764 | 40.80285 | -73.96570 | 1 | -0.824742825 |
| ## 4766 | 40.82720 | -73.94137 | 1 | -0.589594720 |
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| ## 4777 | 40.82244 | -73.94773 | 2 | -0.072268887 |
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| ## 4781 | 40.76436 | -73.96471 | 2 | 1.997034442 |
| ## 4782 | 40.79771 | -73.93449 | 2 | -0.236872561 |
| ## 4784 | 40.83368 | -73.94314 | 1 | -0.589594720 |
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| ## 4799 | 40.73572 | -73.98735 | 2 | 0.703719861 |
| ## 4801 | 40.71978 | -73.98424 | 2 | 0.880080940 |
| ## 4802 | 40.73106 | -73.98467 | 2 | -0.119298508 |
| ## 4804 | 40.80109 | -73.97093 | 2 | 0.703719861 |
| ## 4806 | 40.80220 | -73.95737 | 1 | -0.366204019 |
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| ## 4809 | 40.77697 | -73.97698 | 1 | 0.080577381 |
| ## 4811 | 40.75287 | -73.97439 | 2 | 0.221666245 |
| ## 4812 | 40.72529 | -73.97756 | 1 | -0.060511482 |
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| ## 4821 | 40.80370 | -73.96803 | 2 | 2.867082433 |
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| ## 4826 | 40.74568 | -73.98324 | 2 | 1.820673363 |
| ## 4827 | 40.71924 | -74.01165 | 1 | -0.036996671 |
| ## 4829 | 40.78385 | -73.97466 | 2 | 1.115229046 |
| ## 4831 | 40.82497 | -73.94595 | 1 | -0.824742825 |
| ## 4832 | 40.73983 | -74.00102 | 2 | 1.703099310 |
| ## 4834 | 40.80773 | -73.95977 | 1 | -1.059890931 |
| ## 4836 | 40.777860 | -73.98554 | 1 | 0.057062571 |
| ## 4837 | 40.777875 | -73.98750 | 2 | 0.409784729 |
| ## 4839 | 40.73798 | -73.99963 | 2 | 0.468571756 |
| ## 4841 | 40.76693 | -73.95911 | 2 | 0.115849597 |
| ## 4842 | 40.73809 | -73.98215 | 2 | 0.821293914 |
| ## 4844 | 40.71879 | -73.99586 | 2 | -0.366204019 |
| ## 4846 | 40.81646 | -73.93690 | 2 | 0.586145808 |
| ## 4847 | 40.71435 | -73.98924 | 2 | -0.472020667 |
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| ## 4854 | 40.71342 | -73.99045 | 1 | -0.472020667 |
| ## 4856 | 40.74041 | -74.00141 | 2 | 0.821293914 |
| ## 4857 | 40.72689 | -73.98676 | 2 | 0.809536509 |
| ## 4859 | 40.75744 | -73.99269 | 2 | 1.820673363 |
| ## 4861 | 40.72184 | -73.98165 | 3 | -0.824742825 |
| ## 4862 | 40.82940 | -73.94695 | 2 | -0.366204019 |
| ## 4864 | 40.78510 | -73.95254 | 3 | -0.801228015 |
| ## 4866 | 40.78180 | -73.95122 | 2 | -0.119298508 |
| ## 4867 | 40.79401 | -73.96432 | 1 | -0.589594720 |
| ## 4869 | 40.72195 | -73.98797 | 1 | -0.613109530 |
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| ## 4872 | 40.72367 | -73.98131 | 3 | -0.354446614 |
| ## 4874 | 40.74469 | -73.97443 | 2 | -0.060511482 |
| ## 4876 | 40.76330 | -73.98591 | 1 | 0.057062571 |
| ## 4877 | 40.72828 | -73.98602 | 2 | 3.466710102 |
| ## 4879 | 40.72623 | -73.98452 | 2 | 0.233423650 |
| ## 4881 | 40.75731 | -73.98435 | 1 | -0.178085535 |
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| ## 4884 | 40.72271 | -73.99545 | 2 | 0.586145808 |
| ## 4886 | 40.80255 | -73.95347 | 1 | -0.354446614 |
| ## 4887 | 40.72249 | -73.98042 | 1 | -0.295659588 |
| ## 4889 | 40.82855 | -73.94033 | 1 | -1.189222389 |
| ## 4891 | 40.72075 | -74.00982 | 1 | -0.589594720 |
| ## 4892 | 40.71480 | -73.99248 | 2 | 0.527358782 |
| ## 4894 | 40.72917 | -73.98517 | 1 | 0.586145808 |
| ## 4896 | 40.76517 | -73.96665 | 2 | 0.233423650 |
| ## 4897 | 40.72756 | -73.98588 | 2 | 1.761886337 |
| ## 4899 | 40.81281 | -73.95882 | 2 | -0.589594720 |
| ## 4901 | 40.76069 | -73.99068 | 2 | 1.279832720 |
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| ## 4904 | 40.73464 | -74.00084 | 2 | 1.279832720 |
| ## 4906 | 40.777127 | -73.95175 | 1 | -0.178085535 |
| ## 4907 | 40.71848 | -73.99091 | 2 | 0.233423650 |
| ## 4909 | 40.70830 | -74.00415 | 2 | 0.350997703 |
| ## 4911 | 40.78709 | -73.97755 | 2 | 1.056442020 |
| ## 4912 | 40.72781 | -73.98398 | 1 | -0.366204019 |
| ## 4914 | 40.80449 | -73.94743 | 2 | -0.001724456 |
| ## 4916 | 40.80316 | -73.95447 | 1 | -0.589594720 |
| ## 4917 | 40.72976 | -73.98245 | 2 | 0.350997703 |
| ## 4919 | 40.70428 | -74.01067 | 2 | -0.036996671 |
| ## 4921 | 40.85041 | -73.92645 | 1 | -0.942316878 |
| ## 4922 | 40.82305 | -73.94555 | 1 | -0.954074283 |
| ## 4924 | 40.79360 | -73.97442 | 1 | -0.354446614 |
| ## 4926 | 40.73160 | -73.98543 | 2 | 1.961762226 |
| ## 4927 | 40.75679 | -73.99547 | 2 | -0.178085535 |
| ## 4929 | 40.83401 | -73.94254 | 2 | -1.001103905 |
| ## 4931 | 40.83591 | -73.94777 | 2 | 0.292210676 |
| ## 4932 | 40.73842 | -73.98008 | 3 | -0.389718830 |
| ## 4934 | 40.76414 | -73.99296 | 2 | 1.256317909 |
| ## 4936 | 40.76443 | -73.99219 | 1 | -0.295659588 |
| ## 4937 | 40.75900 | -73.98894 | 2 | 1.997034442 |
| ## 4939 | 40.72290 | -73.98313 | 1 | -0.824742825 |
| ## 4941 | 40.80706 | -73.94665 | 1 | -0.354446614 |
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| ## 4944 | 40.74110 | -74.00184 | 1 | -0.213357751 |
| ## 4946 | 40.77858 | -73.95059 | 2 | 0.174636624 |
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| ## 4951 | 40.77500 | -73.95071 | 2 | 0.703719861 |
| ## 4952 | 40.72143 | -73.99427 | 1 | -0.707168773 |
| ## 4954 | 40.73438 | -73.98530 | 2 | 0.292210676 |
| ## 4956 | 40.71971 | -73.98494 | 1 | -0.472020667 |
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| ## 4961 | 40.80093 | -73.96308 | 1 | -0.236872561 |
| ## 4962 | 40.81669 | -73.96029 | 1 | -0.824742825 |
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| ## 4966 | 40.71569 | -73.99174 | 2 | 0.809536509 |
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| ## 4984 | 40.71319 | -73.99265 | 1 | -0.354446614 |
| ## 4986 | 40.84478 | -73.94132 | 2 | 0.527358782 |
| ## 4987 | 40.74433 | -73.97769 | 1 | -0.060511482 |
| ## 4989 | 40.86729 | -73.92716 | 2 | 0.115849597 |
| ## 4991 | 40.75417 | -73.97279 | 1 | 0.057062571 |
| ## 4992 | 40.70867 | -74.00030 | 1 | -0.354446614 |
| ## 4994 | 40.71591 | -73.99488 | 1 | -0.801228015 |
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| ## 5001 | 40.74420 | -74.00123 | 2 | 1.409164178 |
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| ## 5004 | 40.71292 | -73.98496 | 2 | 0.221666245 |
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| ## 5012 | 40.80810 | -73.93807 | 2 | 1.115229046 |
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| ## 5017 | 40.72549 | -74.00523 | 2 | 0.409784729 |
| ## 5019 | 40.79037 | -73.94450 | 2 | -0.060511482 |
| ## 5021 | 40.74197 | -74.00409 | 2 | 1.291590125 |
| ## 5022 | 40.81147 | -73.94710 | 2 | 1.879460389 |
| ## 5024 | 40.80769 | -73.95497 | 1 | -0.707168773 |
| ## 5026 | 40.72704 | -73.98783 | 2 | 0.762506888 |
| ## 5027 | 40.76767 | -73.98783 | 3 | -0.777713204 |
| ## 5029 | 40.73743 | -73.98652 | 2 | 0.703719861 |
| ## 5031 | 40.75556 | -73.96817 | 2 | 0.233423650 |
| ## 5032 | 40.72417 | -73.98391 | 2 | 1.997034442 |

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| ## 5034 | 40.79290 | -73.94108 | 1 | -0.554322504 |
| ## 5036 | 40.76385 | -73.98212 | 2 | 1.409164178 |
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| ## 5039 | 40.73557 | -73.98353 | 1 | -0.072268887 |
| ## 5041 | 40.74382 | -73.98798 | 1 | -0.354446614 |
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| ## 5044 | 40.76285 | -73.99159 | 1 | -0.119298508 |
| ## 5046 | 40.80596 | -73.96471 | 2 | 0.468571756 |
| ## 5047 | 40.71855 | -73.99791 | 2 | 0.691962456 |
| ## 5049 | 40.72797 | -73.97787 | 1 | -0.624866936 |
| ## 5051 | 40.77688 | -73.94687 | 2 | -0.119298508 |
| ## 5052 | 40.79714 | -73.94023 | 2 | -0.530807693 |
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| ## 5057 | 40.82494 | -73.94300 | 2 | -0.765955799 |
| ## 5059 | 40.81491 | -73.94779 | 1 | -0.824742825 |
| ## 5061 | 40.75994 | -73.98812 | 2 | 1.514980826 |
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| ## 5069 | 40.73820 | -74.00299 | 2 | 1.985277037 |
| ## 5071 | 40.72476 | -74.00387 | 1 | -0.566079909 |
| ## 5072 | 40.77162 | -73.95808 | 2 | 0.233423650 |
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| ## 5076 | 40.72566 | -73.98323 | 2 | 1.174016072 |
| ## 5077 | 40.76348 | -73.94859 | 2 | 0.586145808 |
| ## 5079 | 40.74637 | -73.97469 | 2 | -0.307416993 |
| ## 5081 | 40.75531 | -73.97147 | 1 | 0.115849597 |
| ## 5082 | 40.77595 | -73.94969 | 2 | 1.938247416 |
| ## 5084 | 40.75687 | -73.96639 | 2 | 0.468571756 |
| ## 5086 | 40.74044 | -74.00326 | 2 | 1.115229046 |
| ## 5087 | 40.76066 | -73.96372 | 2 | -0.354446614 |
| ## 5089 | 40.80473 | -73.94763 | 2 | 0.527358782 |
| ## 5091 | 40.78172 | -73.97825 | 2 | 0.703719861 |
| ## 5092 | 40.80307 | -73.94600 | 2 | 0.456814350 |
| ## 5094 | 40.72744 | -73.99979 | 2 | 0.315725487 |
| ## 5096 | 40.74490 | -73.99167 | 2 | -0.248629967 |
| ## 5097 | 40.79405 | -73.93429 | 2 | 0.233423650 |
| ## 5099 | 40.76135 | -73.96707 | 2 | 0.057062571 |
| ## 5101 | 40.72680 | -73.98027 | 1 | -0.483778072 |
| ## 5102 | 40.72247 | -73.98435 | 1 | -0.354446614 |
| ## 5104 | 40.77762 | -73.95160 | 2 | 0.468571756 |
| ## 5106 | 40.75251 | -73.97262 | 2 | 0.527358782 |
| ## 5107 | 40.75759 | -73.96902 | 2 | 1.174016072 |
| ## 5109 | 40.70726 | -74.01429 | 2 | 1.162258667 |
| ## 5111 | 40.72314 | -73.97929 | 2 | 0.821293914 |
| ## 5112 | 40.70776 | -74.01514 | 2 | 0.456814350 |
| ## 5114 | 40.71873 | -73.98394 | 2 | 0.233423650 |
| ## 5116 | 40.73744 | -73.98413 | 2 | 2.055821469 |
| ## 5117 | 40.77739 | -73.98231 | 2 | -0.495535477 |
| ## 5119 | 40.77188 | -73.98847 | 2 | -0.060511482 |
| ## 5121 | 40.85120 | -73.93693 | 1 | -0.648381746 |
| ## 5122 | 40.74208 | -73.98084 | 2 | -0.119298508 |

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| ## 5124 | 40.72038 | -73.99818 | 2 | 0.703719861 |
| ## 5126 | 40.72874 | -74.00122 | 2 | 0.821293914 |
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| ## 5134 | 40.82642 | -73.93668 | 1 | -0.601352125 |
| ## 5136 | 40.78972 | -73.95030 | 1 | 0.762506888 |
| ## 5137 | 40.75891 | -73.98450 | 2 | 0.527358782 |
| ## 5139 | 40.80822 | -73.94264 | 2 | 0.586145808 |
| ## 5141 | 40.72517 | -73.99023 | 1 | -0.354446614 |
| ## 5142 | 40.75454 | -73.97083 | 2 | -0.319174398 |
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| ## 5146 | 40.71334 | -73.99025 | 1 | -0.648381746 |
| ## 5147 | 40.83559 | -73.94552 | 1 | -0.648381746 |
| ## 5149 | 40.76773 | -73.95456 | 2 | 0.174636624 |
| ## 5151 | 40.72024 | -74.00866 | 1 | -0.354446614 |
| ## 5152 | 40.72281 | -73.97768 | 2 | -0.001724456 |
| ## 5154 | 40.86444 | -73.92899 | 1 | -1.001103905 |
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| ## 5157 | 40.76717 | -73.95317 | 2 | 1.409164178 |
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| ## 5161 | 40.71544 | -73.99106 | 1 | -0.472020667 |
| ## 5162 | 40.82390 | -73.95393 | 2 | -0.236872561 |
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| ## 5166 | 40.73001 | -74.00369 | 2 | 0.762506888 |
| ## 5167 | 40.71665 | -73.99633 | 1 | -0.307416993 |
| ## 5169 | 40.78419 | -73.94851 | 2 | 0.938867967 |
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| ## 5212 | 40.84699 | -73.93620 | 1 | -0.883529852 |

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| ## 5214 | 40.76620 | -73.98321 | 1 | -0.824742825 |
| ## 5216 | 40.75525 | -73.99412 | 2 | 0.456814350 |
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| ## 5222 | 40.72603 | -73.98614 | 2 | 0.821293914 |
| ## 5224 | 40.79644 | -73.96135 | 2 | 1.409164178 |
| ## 5226 | 40.81344 | -73.95007 | 2 | -0.530807693 |
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| ## 5299 | 40.71692 | -73.98259 | 2 | 1.350377152 |
| ## 5301 | 40.71846 | -73.98727 | 1 | 0.233423650 |
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| ## 5304 | 40.80157 | -73.95407 | 1 | -0.765955799 |
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| ## 5359 | 40.74538 | -73.98313 | 2 | 1.820673363 |
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| ## 5362 | 40.72667 | -74.00257 | 2 | 0.527358782 |
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| ## 5369 | 40.76747 | -73.99422 | 1 | -0.295659588 |
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| ## 5389 | 40.73319 | -74.00225 | 1 | -0.765955799 |
| ## 5391 | 40.76168 | -73.95059 | 1 | -0.824742825 |
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| ## 5394 | 40.80887 | -73.95917 | 2 | -0.119298508 |
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| ## 5401 | 40.77557 | -73.94615 | 1 | -0.801228015 |
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| ## 5406 | 40.79733 | -73.93988 | 1 | -0.883529852 |
| ## 5407 | 40.74015 | -73.98038 | 2 | -0.060511482 |
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| ## 5414 | 40.83907 | -73.94256 | 1 | -0.954074283 |
| ## 5416 | 40.77254 | -73.94930 | 2 | 3.760645234 |
| ## 5417 | 40.77813 | -73.97574 | 1 | 0.233423650 |
| ## 5419 | 40.76376 | -73.99323 | 2 | -0.589594720 |
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| ## 5426 | 40.72443 | -73.98289 | 2 | 0.809536509 |
| ## 5427 | 40.76892 | -73.96845 | 2 | 0.985897588 |
| ## 5429 | 40.76037 | -73.99016 | 2 | 1.291590125 |
| ## 5431 | 40.82241 | -73.94120 | 1 | -1.001103905 |
| ## 5432 | 40.80960 | -73.94099 | 1 | -0.472020667 |
| ## 5434 | 40.78743 | -73.96855 | 2 | 0.233423650 |
| ## 5436 | 40.80473 | -73.96528 | 1 | -0.801228015 |
| ## 5437 | 40.77130 | -73.95443 | 2 | 0.527358782 |
| ## 5439 | 40.73683 | -73.98191 | 1 | -0.812985420 |
| ## 5441 | 40.78763 | -73.95111 | 1 | -0.060511482 |
| ## 5442 | 40.72911 | -73.98151 | 1 | -0.530807693 |
| ## 5444 | 40.72772 | -74.00130 | 2 | 1.115229046 |
| ## 5446 | 40.75553 | -73.99230 | 2 | 1.761886337 |
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| ## 5452 | 40.85068 | -73.93046 | 1 | -1.059890931 |
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| ## 5456 | 40.71255 | -73.99673 | 2 | 0.174636624 |
| ## 5457 | 40.73431 | -74.00635 | 2 | 1.703099310 |
| ## 5459 | 40.81319 | -73.94423 | 2 | 2.526117680 |
| ## 5461 | 40.72145 | -73.97881 | 1 | -0.648381746 |
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| ## 5464 | 40.78591 | -73.94832 | 2 | 1.703099310 |
| ## 5466 | 40.77281 | -73.95822 | 2 | 0.527358782 |
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| ## 5469 | 40.79351 | -73.93388 | 2 | -0.366204019 |
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| ## 5472 | 40.70864 | -74.00675 | 2 | 1.409164178 |
| ## 5474 | 40.79478 | -73.94178 | 2 | 2.290969574 |
| ## 5476 | 40.74603 | -74.00147 | 2 | 0.350997703 |
| ## 5477 | 40.75903 | -73.96287 | 2 | 2.032306658 |
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| ## 5484 | 40.72292 | -73.99307 | 2 | 0.821293914 |
| ## 5486 | 40.73161 | -73.98960 | 2 | 0.421542134 |
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| ## 5492 | 40.77685 | -73.97710 | 2 | 1.997034442 |
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| ## 5496 | 40.71002 | -74.00723 | 1 | -0.377961425 |
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| ## 5501 | 40.80319 | -73.95432 | 1 | -0.824742825 |
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| ## 5504 | 40.72826 | -73.98871 | 2 | 2.290969574 |
| ## 5506 | 40.79735 | -73.93386 | 1 | -0.366204019 |
| ## 5507 | 40.80542 | -73.96230 | 2 | 1.879460389 |
| ## 5509 | 40.79823 | -73.93260 | 1 | -0.530807693 |
| ## 5511 | 40.76941 | -73.98162 | 2 | 0.586145808 |
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| ## 5527 | 40.72011 | -73.99729 | 2 | 1.585525257 |
| ## 5529 | 40.72501 | -74.00353 | 1 | -0.472020667 |
| ## 5531 | 40.79665 | -73.94824 | 2 | 1.115229046 |
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| ## 5534 | 40.72136 | -73.98767 | 1 | -0.530807693 |
| ## 5536 | 40.76928 | -73.96163 | 1 | 1.409164178 |
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| ## 5539 | 40.71927 | -73.99943 | 2 | 1.997034442 |
| ## 5541 | 40.71143 | -74.00596 | 2 | 1.867702984 |
| ## 5542 | 40.82292 | -73.95373 | 1 | -1.012861310 |
| ## 5544 | 40.76515 | -73.98470 | 3 | -0.354446614 |
| ## 5546 | 40.74650 | -74.00360 | 2 | 2.878839838 |
| ## 5547 | 40.80948 | -73.94739 | 2 | 1.350377152 |
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| ## 5551 | 40.73866 | -74.00063 | 2 | 1.056442020 |
| ## 5552 | 40.74755 | -73.98054 | 2 | -0.119298508 |
| ## 5554 | 40.71668 | -73.98954 | 1 | -0.448505856 |
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| ## 5559 | 40.78039 | -73.95863 | 2 | 0.421542134 |
| ## 5561 | 40.78007 | -73.94677 | 2 | -0.178085535 |
| ## 5562 | 40.72097 | -73.99605 | 2 | 0.115849597 |
| ## 5564 | 40.81872 | -73.94491 | 1 | -1.071648336 |
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| ## 5571 | 40.79682 | -73.94876 | 2 | 1.526738231 |
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| ## 5574 | 40.75429 | -73.99198 | 1 | -0.366204019 |
| ## 5576 | 40.78495 | -73.95030 | 2 | 0.057062571 |
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| ## 5587 | 40.74361 | -73.99503 | 2 | 1.232803099 |
| ## 5589 | 40.78095 | -73.98178 | 2 | 0.762506888 |
| ## 5591 | 40.75246 | -73.97171 | 2 | 0.233423650 |
| ## 5592 | 40.76406 | -73.98705 | 2 | 3.760645234 |
| ## 5594 | 40.76108 | -73.95058 | 1 | -0.707168773 |
| ## 5596 | 40.80838 | -73.95995 | 1 | -0.648381746 |
| ## 5597 | 40.72888 | -73.98193 | 2 | 0.350997703 |
| ## 5599 | 40.80263 | -73.94662 | 2 | 1.526738231 |
| ## 5601 | 40.80272 | -73.95564 | 1 | -0.824742825 |
| ## 5602 | 40.72554 | -73.98380 | 2 | -0.272144777 |
| ## 5604 | 40.79509 | -73.96649 | 2 | 1.855945579 |
| ## 5606 | 40.80464 | -73.95637 | 1 | -0.542565099 |
| ## 5607 | 40.72043 | -73.98916 | 1 | -0.060511482 |
| ## 5609 | 40.72941 | -74.00481 | 2 | 0.233423650 |
| ## 5611 | 40.80407 | -73.95762 | 2 | -0.483778072 |
| ## 5612 | 40.78494 | -73.97663 | 2 | 3.172774970 |
| ## 5614 | 40.79479 | -73.94919 | 1 | -0.236872561 |
| ## 5616 | 40.72459 | -73.99366 | 2 | 0.174636624 |
| ## 5617 | 40.76080 | -73.99470 | 1 | -0.413233640 |
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| ## 5621 | 40.73429 | -73.98689 | 1 | 0.350997703 |
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| ## 5629 | 40.72912 | -73.97854 | 2 | 3.055200917 |
| ## 5631 | 40.80023 | -73.96678 | 1 | -0.530807693 |
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| ## 5644 | 40.82195 | -73.95373 | 1 | -0.801228015 |
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| ## 5651 | 40.73123 | -74.00684 | 2 | 3.760645234 |
| ## 5652 | 40.73304 | -73.98430 | 2 | 0.115849597 |
| ## 5654 | 40.80463 | -73.95044 | 2 | 0.821293914 |
| ## 5656 | 40.72145 | -74.00231 | 1 | 0.821293914 |
| ## 5657 | 40.76278 | -73.98498 | 1 | 0.786021698 |
| ## 5659 | 40.76510 | -73.95812 | 1 | -0.542565099 |
| ## 5661 | 40.73725 | -73.98439 | 2 | 0.762506888 |
| ## 5662 | 40.82347 | -73.93944 | 1 | -1.095163147 |

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| ## 5664 | 40.75699 | -73.98493 | 1 | -0.060511482 |
| ## 5666 | 40.83288 | -73.93821 | 2 | -0.707168773 |
| ## 5667 | 40.75088 | -73.96918 | 2 | 0.809536509 |
| ## 5669 | 40.76444 | -73.98728 | 1 | -0.119298508 |
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| ## 5676 | 40.79566 | -73.94480 | 2 | -0.236872561 |
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| ## 5679 | 40.74178 | -73.97313 | 2 | 1.526738231 |
| ## 5681 | 40.80569 | -73.96333 | 1 | -0.648381746 |
| ## 5682 | 40.73053 | -74.00297 | 2 | 1.409164178 |
| ## 5684 | 40.76553 | -73.98709 | 2 | 1.997034442 |
| ## 5686 | 40.80857 | -73.94200 | 1 | -0.483778072 |
| ## 5687 | 40.81788 | -73.93583 | 2 | -0.648381746 |
| ## 5689 | 40.72051 | -74.00168 | 1 | -0.648381746 |
| ## 5691 | 40.72823 | -74.00571 | 2 | 1.409164178 |
| ## 5692 | 40.78857 | -73.94328 | 2 | 0.703719861 |
| ## 5694 | 40.79443 | -73.93501 | 1 | -0.001724456 |
| ## 5696 | 40.73737 | -74.00591 | 1 | -0.472020667 |
| ## 5697 | 40.72030 | -73.98698 | 1 | -0.366204019 |
| ## 5699 | 40.76504 | -73.98718 | 1 | -0.589594720 |
| ## 5701 | 40.76206 | -73.94904 | 1 | -1.001103905 |
| ## 5702 | 40.76374 | -73.96583 | 2 | 0.821293914 |
| ## 5704 | 40.80929 | -73.95826 | 1 | -0.707168773 |
| ## 5706 | 40.87663 | -73.91041 | 1 | -0.942316878 |
| ## 5707 | 40.72936 | -73.97882 | 1 | -0.354446614 |
| ## 5709 | 40.83113 | -73.94597 | 2 | -0.060511482 |
| ## 5711 | 40.83358 | -73.94113 | 1 | -1.001103905 |
| ## 5712 | 40.77594 | -73.98449 | 2 | 0.680205051 |
| ## 5714 | 40.83424 | -73.94275 | 1 | -0.765955799 |
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| ## 5719 | 40.71611 | -73.99539 | 2 | 0.586145808 |
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| ## 5737 | 40.80345 | -73.95067 | 1 | 0.821293914 |
| ## 5739 | 40.77730 | -73.95305 | 2 | 1.526738231 |
| ## 5741 | 40.74120 | -73.98171 | 2 | -0.236872561 |
| ## 5742 | 40.72265 | -73.98365 | 1 | -0.472020667 |
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| ## 5746 | 40.72407 | -73.98236 | 2 | 0.115849597 |
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| ## 5754 | 40.76576 | -73.98383 | 1 | 0.174636624 |
| ## 5756 | 40.72935 | -74.00064 | 1 | 0.821293914 |
| ## 5757 | 40.74566 | -73.99989 | 2 | 2.761265785 |
| ## 5759 | 40.75287 | -73.96708 | 2 | 1.174016072 |
| ## 5761 | 40.72248 | -73.99481 | 1 | 0.409784729 |
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| ## 5766 | 40.75134 | -73.96807 | 2 | -0.213357751 |
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| ## 5769 | 40.71775 | -74.01509 | 1 | 0.233423650 |
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| ## 5811 | 40.76650 | -73.98675 | 2 | 0.586145808 |
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| ## 5821 | 40.76704 | -73.98153 | 2 | 2.808295407 |
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| ## 5834 | 40.74501 | -73.98574 | 1 | 0.233423650 |
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| ## 5844 | 40.76118 | -73.98535 | 2 | 0.104092192 |
| ## 5846 | 40.82920 | -73.94874 | 1 | -0.530807693 |
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| ## 5874 | 40.81437 | -73.93833 | 2 | -0.119298508 |
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| ## 5877 | 40.72051 | -73.99513 | 2 | 1.115229046 |
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| ## 5882 | 40.77789 | -73.97701 | 2 | 0.586145808 |
| ## 5884 | 40.80040 | -73.96849 | 2 | -0.119298508 |
| ## 5886 | 40.73434 | -74.00462 | 2 | 1.997034442 |
| ## 5887 | 40.71844 | -74.00228 | 2 | 0.256938461 |
| ## 5889 | 40.75342 | -73.98729 | 2 | 0.821293914 |
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| ## 5894 | 40.72791 | -73.99997 | 1 | -0.601352125 |
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| ## 5897 | 40.74150 | -73.98354 | 2 | 0.104092192 |
| ## 5899 | 40.72964 | -73.98095 | 2 | 2.937626865 |
| ## 5901 | 40.71401 | -73.99063 | 2 | 0.586145808 |
| ## 5902 | 40.76684 | -73.98766 | 1 | -0.824742825 |
| ## 5904 | 40.72020 | -73.98284 | 1 | -0.119298508 |
| ## 5906 | 40.74807 | -73.98091 | 1 | -0.060511482 |
| ## 5907 | 40.75578 | -73.99523 | 1 | 0.186394029 |
| ## 5909 | 40.72143 | -73.98434 | 1 | -0.472020667 |
| ## 5911 | 40.70749 | -74.01413 | 2 | 0.456814350 |
| ## 5912 | 40.81218 | -73.96112 | 2 | 0.821293914 |
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| ## 5916 | 40.76542 | -73.97844 | 2 | 1.397406773 |
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| ## 5927 | 40.71908 | -73.98633 | 2 | 0.515601377 |
| ## 5929 | 40.72778 | -73.99899 | 1 | -0.530807693 |
| ## 5931 | 40.74238 | -73.97652 | 2 | 0.527358782 |
| ## 5932 | 40.71282 | -73.98915 | 2 | 0.174636624 |

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| ## 5934 | 40.82011 | -73.94434 | 2 | -0.119298508 |
| ## 5936 | 40.74390 | -73.97974 | 2 | 0.809536509 |
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| ## 5939 | 40.82042 | -73.95256 | 1 | -0.765955799 |
| ## 5941 | 40.70431 | -74.01680 | 2 | -0.001724456 |
| ## 5942 | 40.76481 | -73.95651 | 2 | 1.115229046 |
| ## 5944 | 40.72571 | -73.98833 | 2 | 0.233423650 |
| ## 5946 | 40.73299 | -74.00444 | 2 | 0.104092192 |
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| ## 5952 | 40.73491 | -74.00578 | 2 | 0.104092192 |
| ## 5954 | 40.71854 | -74.00439 | 1 | 0.468571756 |
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| ## 5974 | 40.73927 | -73.99833 | 2 | 1.056442020 |
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| ## 5979 | 40.80085 | -73.96468 | 1 | -1.059890931 |
| ## 5981 | 40.78347 | -73.97748 | 1 | -0.648381746 |
| ## 5982 | 40.78239 | -73.97581 | 2 | 0.809536509 |
| ## 5984 | 40.83034 | -73.94902 | 2 | -0.060511482 |
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| ## 5992 | 40.72173 | -73.99351 | 1 | -0.707168773 |
| ## 5994 | 40.75093 | -73.98096 | 2 | -0.236872561 |
| ## 5996 | 40.74908 | -73.98095 | 2 | 0.468571756 |
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| ## 6001 | 40.74537 | -73.97652 | 2 | 0.233423650 |
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| ## 6004 | 40.76316 | -73.98840 | 1 | 0.468571756 |
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| ## 6007 | 40.86860 | -73.92594 | 1 | -1.001103905 |
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| ## 6021 | 40.77668 | -73.94819 | 2 | -0.013481861 |
| ## 6022 | 40.71686 | -73.98346 | 1 | -0.472020667 |

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| ## 6024 | 40.76262 | -73.99283 | 2 | 0.233423650 |
| ## 6026 | 40.80483 | -73.96486 | 1 | -0.707168773 |
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| ## 6029 | 40.78866 | -73.94941 | 2 | 0.821293914 |
| ## 6031 | 40.76343 | -73.99381 | 2 | 0.233423650 |
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| ## 6034 | 40.71777 | -74.01493 | 1 | 0.233423650 |
| ## 6036 | 40.80681 | -73.93956 | 1 | -0.648381746 |
| ## 6037 | 40.74845 | -73.99635 | 2 | 0.468571756 |
| ## 6039 | 40.79586 | -73.94332 | 1 | -0.742440988 |
| ## 6041 | 40.75828 | -73.96286 | 2 | 1.056442020 |
| ## 6042 | 40.72434 | -73.98447 | 1 | -0.601352125 |
| ## 6044 | 40.71316 | -74.00498 | 1 | 0.456814350 |
| ## 6046 | 40.82364 | -73.94556 | 2 | 0.233423650 |
| ## 6047 | 40.77292 | -73.95015 | 1 | -0.060511482 |
| ## 6049 | 40.76206 | -73.95705 | 1 | -0.472020667 |
| ## 6051 | 40.73482 | -74.00834 | 2 | 0.115849597 |
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| ## 6067 | 40.79616 | -73.97506 | 1 | -1.001103905 |
| ## 6069 | 40.82697 | -73.95236 | 2 | 0.821293914 |
| ## 6071 | 40.72697 | -74.00098 | 2 | 2.173395521 |
| ## 6072 | 40.80082 | -73.96059 | 2 | 2.584904706 |
| ## 6074 | 40.73462 | -73.98227 | 2 | 0.115849597 |
| ## 6076 | 40.73956 | -73.98163 | 1 | 0.115849597 |
| ## 6077 | 40.80729 | -73.95238 | 1 | -0.236872561 |
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| ## 6081 | 40.82232 | -73.95696 | 1 | -0.824742825 |
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| ## 6084 | 40.73130 | -74.00154 | 2 | 0.421542134 |
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| ## 6091 | 40.76256 | -73.96320 | 1 | -0.366204019 |
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| ## 6097 | 40.72485 | -74.00254 | 2 | 0.644932835 |
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| ## 6101 | 40.74520 | -73.97779 | 2 | 3.748887829 |
| ## 6102 | 40.75939 | -73.96949 | 2 | 0.821293914 |
| ## 6104 | 40.76427 | -73.96200 | 2 | -0.413233640 |
| ## 6106 | 40.72288 | -73.99466 | 1 | -0.072268887 |
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| ## 6109 | 40.73046 | -73.98643 | 2 | 1.409164178 |
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| ## 6112 | 40.80197 | -73.93888 | 1 | -0.883529852 |

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| ## 6114 | 40.73182 | -74.01000 | 2 | 0.409784729 |
| ## 6116 | 40.79945 | -73.95411 | 1 | 0.927110562 |
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| ## 6119 | 40.76640 | -73.95854 | 2 | 1.703099310 |
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| ## 6124 | 40.72423 | -73.98327 | 3 | -0.354446614 |
| ## 6126 | 40.72435 | -73.98461 | 2 | -0.060511482 |
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| ## 6134 | 40.72542 | -74.00158 | 2 | -0.295659588 |
| ## 6136 | 40.73713 | -74.00358 | 2 | 1.115229046 |
| ## 6137 | 40.75763 | -73.96359 | 1 | -0.119298508 |
| ## 6139 | 40.71910 | -73.98812 | 2 | 0.350997703 |
| ## 6141 | 40.79739 | -73.94054 | 2 | -0.472020667 |
| ## 6142 | 40.70524 | -74.01278 | 2 | 1.174016072 |
| ## 6144 | 40.72130 | -73.98559 | 2 | 1.985277037 |
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| ## 6151 | 40.79958 | -73.96403 | 1 | -0.942316878 |
| ## 6152 | 40.72299 | -73.99251 | 2 | 0.809536509 |
| ## 6154 | 40.75330 | -73.97162 | 2 | 1.703099310 |
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| ## 6162 | 40.76544 | -73.98651 | 2 | 0.057062571 |
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| ## 6204 | 40.77467 | -73.95405 | 2 | -0.354446614 |
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| ## 6214 | 40.78986 | -73.96825 | 2 | 2.055821469 |
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| ## 6226 | 40.73144 | -73.98355 | 1 | -0.648381746 |
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| ## 6231 | 40.72265 | -73.99493 | 2 | 1.409164178 |
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| ## 6294 | 40.80708 | -73.95211 | 1 | -0.589594720 |
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| ## 6309 | 40.73058 | -73.98286 | 1 | -1.071648336 |
| ## 6311 | 40.80523 | -73.93929 | 1 | -0.824742825 |
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| ## 6317 | 40.73242 | -74.00411 | 2 | 0.233423650 |
| ## 6319 | 40.71287 | -73.99573 | 2 | 2.232182548 |
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| ## 6331 | 40.76175 | -73.99041 | 1 | -0.554322504 |
| ## 6332 | 40.77141 | -73.95340 | 3 | -1.059890931 |
| ## 6334 | 40.75981 | -73.99071 | 2 | 3.172774970 |
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| ## 6342 | 40.80526 | -73.95509 | 1 | -0.589594720 |
| ## 6344 | 40.73303 | -74.00118 | 2 | 0.821293914 |
| ## 6346 | 40.79176 | -73.97329 | 2 | -0.566079909 |
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| ## 6349 | 40.78690 | -73.95285 | 1 | -1.001103905 |
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| ## 6361 | 40.70642 | -74.01756 | 2 | 1.350377152 |
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| ## 6374 | 40.77774 | -73.97701 | 2 | 0.809536509 |
| ## 6376 | 40.76309 | -73.95794 | 2 | 0.527358782 |
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| ## 6384 | 40.74870 | -73.99514 | 1 | -0.131055914 |
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| ## 6417 | 40.75980 | -73.98537 | 2 | 2.808295407 |
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| ## 6427 | 40.81238 | -73.95319 | 1 | -0.718926178 |
| ## 6429 | 40.79736 | -73.94203 | 2 | -0.601352125 |
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| ## 6437 | 40.71567 | -74.00061 | 2 | 0.821293914 |
| ## 6439 | 40.80129 | -73.95389 | 1 | -0.413233640 |
| ## 6441 | 40.84411 | -73.93784 | 1 | -0.942316878 |
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| ## 6454 | 40.71323 | -73.99752 | 2 | 1.232803099 |
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| ## 6471 | 40.73455 | -73.99171 | 2 | 1.350377152 |
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| ## 6474 | 40.79481 | -73.97185 | 1 | -1.059890931 |
| ## 6476 | 40.71862 | -73.99700 | 2 | 1.467951205 |
| ## 6477 | 40.73386 | -74.00460 | 2 | 0.809536509 |
| ## 6479 | 40.73618 | -74.00900 | 2 | 0.233423650 |
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| ## 6496 | 40.76508 | -73.99087 | 1 | -0.883529852 |
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| ## 6501 | 40.77511 | -73.95276 | 2 | -0.060511482 |
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| ## 6506 | 40.86761 | -73.92718 | 3 | -1.189222389 |
| ## 6507 | 40.72152 | -73.97999 | 1 | -0.765955799 |
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| ## 6516 | 40.86313 | -73.92162 | 1 | -1.024618715 |
| ## 6517 | 40.79153 | -73.97174 | 2 | 0.527358782 |
| ## 6519 | 40.81357 | -73.93575 | 2 | -0.413233640 |
| ## 6521 | 40.76189 | -73.98961 | 2 | 0.821293914 |
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| ## 6526 | 40.81312 | -73.94273 | 2 | 0.550873593 |
| ## 6527 | 40.77271 | -73.98811 | 2 | 0.703719861 |
| ## 6529 | 40.76950 | -73.95320 | 2 | 0.233423650 |
| ## 6531 | 40.72130 | -73.98900 | 2 | 0.809536509 |
| ## 6532 | 40.74721 | -73.98968 | 1 | -0.765955799 |
| ## 6534 | 40.72201 | -73.98277 | 2 | 0.821293914 |
| ## 6536 | 40.75225 | -73.97177 | 1 | 4.336758093 |
| ## 6537 | 40.72793 | -73.98771 | 2 | 0.527358782 |
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| ## 6544 | 40.79804 | -73.96135 | 2 | 0.115849597 |
| ## 6546 | 40.76241 | -73.98587 | 2 | 0.586145808 |
| ## 6547 | 40.74308 | -73.98172 | 1 | 0.821293914 |
| ## 6549 | 40.77137 | -73.98321 | 2 | 0.586145808 |
| ## 6551 | 40.77661 | -73.98228 | 2 | 1.409164178 |
| ## 6552 | 40.82283 | -73.95247 | 1 | -0.765955799 |
| ## 6554 | 40.80420 | -73.96507 | 2 | -0.001724456 |
| ## 6556 | 40.82195 | -73.95508 | 1 | -0.942316878 |
| ## 6557 | 40.74370 | -73.99476 | 2 | 0.821293914 |
| ## 6559 | 40.70563 | -74.00658 | 2 | 0.468571756 |
| ## 6561 | 40.76071 | -73.99188 | 1 | -0.060511482 |
| ## 6562 | 40.76279 | -73.98540 | 2 | 1.820673363 |

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| ## 6564 | 40.72132 | -73.98369 | 1 | -0.236872561 |
| ## 6566 | 40.79576 | -73.96856 | 1 | 0.233423650 |
| ## 6567 | 40.79890 | -73.96775 | 1 | -0.119298508 |
| ## 6569 | 40.72697 | -73.98072 | 2 | 0.350997703 |
| ## 6571 | 40.75321 | -73.97215 | 3 | -0.648381746 |
| ## 6572 | 40.72225 | -73.99473 | 2 | 0.115849597 |
| ## 6574 | 40.82850 | -73.94889 | 1 | -0.507292883 |
| ## 6576 | 40.75066 | -73.97037 | 2 | 0.797779103 |
| ## 6577 | 40.80792 | -73.96728 | 2 | 3.760645234 |
| ## 6579 | 40.78838 | -73.97892 | 2 | 1.409164178 |
| ## 6581 | 40.80187 | -73.94705 | 2 | 0.409784729 |
| ## 6582 | 40.74549 | -73.99473 | 1 | -0.542565099 |
| ## 6584 | 40.78222 | -73.94725 | 2 | 0.057062571 |
| ## 6586 | 40.77287 | -73.95292 | 2 | 1.997034442 |
| ## 6587 | 40.83038 | -73.94531 | 1 | -1.001103905 |
| ## 6589 | 40.79390 | -73.97404 | 1 | -0.824742825 |
| ## 6591 | 40.71659 | -73.98949 | 2 | 0.809536509 |
| ## 6592 | 40.79712 | -73.93469 | 1 | -1.012861310 |
| ## 6594 | 40.73390 | -73.98523 | 1 | 0.104092192 |
| ## 6596 | 40.79922 | -73.94677 | 1 | -0.119298508 |
| ## 6597 | 40.74161 | -74.00162 | 1 | -0.707168773 |
| ## 6599 | 40.72895 | -73.98558 | 2 | 0.821293914 |
| ## 6601 | 40.72705 | -74.00314 | 1 | 0.703719861 |
| ## 6602 | 40.83480 | -73.94067 | 2 | 0.233423650 |
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| ## 6611 | 40.81032 | -73.95415 | 2 | -0.472020667 |
| ## 6612 | 40.79504 | -73.94584 | 2 | 1.115229046 |
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| ## 6619 | 40.76769 | -73.95616 | 2 | -0.354446614 |
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| ## 6626 | 40.72367 | -73.98401 | 1 | -0.248629967 |
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| ## 6631 | 40.85043 | -73.93600 | 2 | -0.236872561 |
| ## 6632 | 40.79795 | -73.96156 | 2 | 1.985277037 |
| ## 6634 | 40.71303 | -73.98645 | 1 | -0.918802068 |
| ## 6636 | 40.74596 | -73.98195 | 2 | -0.236872561 |
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| ## 6654 | 40.83122 | -73.94475 | 3 | -0.942316878 |
| ## 6656 | 40.74053 | -73.97906 | 2 | 0.033547760 |
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| ## 6667 | 40.73955 | -73.98568 | 2 | 1.703099310 |
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| ## 6671 | 40.75688 | -73.96815 | 2 | 0.233423650 |
| ## 6672 | 40.72818 | -73.99886 | 2 | 0.139364408 |
| ## 6674 | 40.75605 | -73.96503 | 2 | 0.409784729 |
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| ## 6689 | 40.74866 | -73.98986 | 2 | 1.879460389 |
| ## 6691 | 40.77654 | -73.94904 | 2 | 0.409784729 |
| ## 6692 | 40.71555 | -73.99091 | 2 | 0.586145808 |
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| ## 6696 | 40.76798 | -73.96755 | 2 | 0.115849597 |
| ## 6697 | 40.72573 | -73.98406 | 1 | -0.131055914 |
| ## 6699 | 40.77609 | -73.98991 | 2 | -0.119298508 |
| ## 6701 | 40.72428 | -73.98748 | 2 | -0.236872561 |
| ## 6702 | 40.74168 | -73.98040 | 2 | 0.339240298 |
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| ## 6706 | 40.79469 | -73.96575 | 1 | -1.059890931 |
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| ## 6709 | 40.75705 | -73.99265 | 2 | 1.115229046 |
| ## 6711 | 40.75926 | -73.99304 | 2 | -0.060511482 |
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| ## 6721 | 40.75754 | -73.96129 | 2 | 1.350377152 |
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| ## 6726 | 40.72815 | -74.00111 | 2 | 0.409784729 |
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| ## 6744 | 40.82443 | -73.95265 | 2 | 3.172774970 |
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| ## 6751 | 40.78583 | -73.94316 | 1 | -0.824742825 |
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| ## 6762 | 40.74381 | -73.98016 | 2 | 0.233423650 |
| ## 6764 | 40.72852 | -73.98064 | 2 | 1.703099310 |
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| ## 6771 | 40.76072 | -73.99818 | 2 | 1.279832720 |
| ## 6772 | 40.78967 | -73.94741 | 2 | -0.354446614 |
| ## 6774 | 40.73354 | -74.00549 | 2 | 1.409164178 |
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| ## 6782 | 40.73146 | -74.00392 | 1 | -0.295659588 |
| ## 6784 | 40.72093 | -73.97964 | 2 | -0.354446614 |
| ## 6786 | 40.72671 | -74.01035 | 2 | 1.879460389 |
| ## 6787 | 40.83288 | -73.94306 | 1 | -0.707168773 |
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| ## 6792 | 40.73178 | -74.00173 | 2 | 1.997034442 |
| ## 6794 | 40.78825 | -73.94870 | 1 | -0.824742825 |
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| ## 6799 | 40.79665 | -73.94928 | 1 | -0.718926178 |
| ## 6801 | 40.72982 | -73.98823 | 3 | -0.648381746 |
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| ## 6816 | 40.76528 | -73.98175 | 2 | 1.279832720 |
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| ## 6827 | 40.74418 | -73.97565 | 1 | -0.707168773 |
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| ## 6834 | 40.73477 | -73.98069 | 3 | -0.354446614 |
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| ## 6844 | 40.79982 | -73.96192 | 2 | 0.233423650 |
| ## 6846 | 40.84915 | -73.93317 | 2 | 0.468571756 |
| ## 6847 | 40.78807 | -73.97406 | 1 | -0.648381746 |
| ## 6849 | 40.78115 | -73.94660 | 2 | 0.527358782 |
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| ## 6856 | 40.71171 | -73.98871 | 3 | -1.153950173 |
| ## 6857 | 40.80031 | -73.95847 | 2 | 2.937626865 |
| ## 6859 | 40.72716 | -73.98264 | 2 | 0.821293914 |
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| ## 6872 | 40.74491 | -73.99536 | 1 | 0.527358782 |
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| ## 6876 | 40.76156 | -73.99127 | 2 | 2.290969574 |
| ## 6877 | 40.75237 | -73.98769 | 2 | 2.385028816 |
| ## 6879 | 40.75915 | -73.99932 | 2 | 1.350377152 |
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| ## 6891 | 40.74939 | -73.98292 | 2 | -0.366204019 |
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| ## 6897 | 40.70350 | -74.00713 | 2 | 0.562630998 |
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| ## 6901 | 40.71251 | -73.98890 | 1 | -0.824742825 |
| ## 6902 | 40.74771 | -73.98727 | 2 | 0.104092192 |
| ## 6904 | 40.82127 | -73.95669 | 1 | -0.883529852 |
| ## 6906 | 40.80422 | -73.95495 | 1 | -1.001103905 |
| ## 6907 | 40.80237 | -73.94370 | 1 | 1.409164178 |
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| ## 6911 | 40.79636 | -73.94342 | 1 | -0.483778072 |
| ## 6912 | 40.72827 | -73.98630 | 1 | -0.236872561 |
| ## 6914 | 40.79902 | -73.96043 | 1 | -0.765955799 |
| ## 6916 | 40.74545 | -73.98113 | 2 | 0.233423650 |
| ## 6917 | 40.78942 | -73.96768 | 2 | 0.821293914 |
| ## 6919 | 40.73185 | -73.98431 | 1 | -0.354446614 |
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| ## 6924 | 40.74369 | -73.99571 | 2 | 1.115229046 |
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| ## 6941 | 40.83086 | -73.94478 | 1 | -1.118677957 |
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| ## 6947 | 40.72705 | -73.98787 | 2 | 1.703099310 |
| ## 6949 | 40.83498 | -73.94801 | 1 | -0.613109530 |
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| ## 6956 | 40.82033 | -73.94358 | 2 | -0.060511482 |
| ## 6957 | 40.72838 | -73.98539 | 2 | -0.178085535 |
| ## 6959 | 40.74205 | -73.97828 | 2 | 0.339240298 |
| ## 6961 | 40.77346 | -73.95590 | 2 | 1.409164178 |
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| ## 6964 | 40.83294 | -73.94167 | 1 | -0.624866936 |
| ## 6966 | 40.75314 | -73.97367 | 2 | 1.044684614 |
| ## 6967 | 40.71849 | -73.98334 | 2 | 0.115849597 |
| ## 6969 | 40.73630 | -73.98691 | 2 | 0.797779103 |
| ## 6971 | 40.76446 | -73.99175 | 1 | -0.589594720 |
| ## 6972 | 40.79180 | -73.97413 | 2 | 0.057062571 |
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| ## 6976 | 40.75489 | -73.96660 | 2 | 1.279832720 |
| ## 6977 | 40.72591 | -73.98000 | 2 | 0.233423650 |
| ## 6979 | 40.73064 | -73.99937 | 2 | 0.762506888 |
| ## 6981 | 40.74419 | -73.99861 | 2 | 0.409784729 |
| ## 6982 | 40.80464 | -73.96418 | 1 | -0.707168773 |
| ## 6984 | 40.76016 | -73.96910 | 2 | 0.104092192 |
| ## 6986 | 40.78495 | -73.97310 | 2 | 0.703719861 |
| ## 6987 | 40.83549 | -73.94729 | 2 | -0.295659588 |
| ## 6989 | 40.76116 | -73.99016 | 1 | -0.119298508 |
| ## 6991 | 40.80882 | -73.94654 | 2 | 2.584904706 |
| ## 6992 | 40.79711 | -73.93647 | 1 | -0.824742825 |
| ## 6994 | 40.83543 | -73.94456 | 2 | 2.690721354 |
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| ## 6997 | 40.77667 | -73.95463 | 2 | 0.115849597 |
| ## 6999 | 40.75761 | -73.96217 | 2 | 1.997034442 |
| ## 7001 | 40.78039 | -73.98426 | 2 | 3.161017565 |
| ## 7002 | 40.72444 | -73.98136 | 1 | -0.589594720 |
| ## 7004 | 40.70873 | -74.00601 | 1 | -0.589594720 |
| ## 7006 | 40.79839 | -73.96804 | 2 | 1.409164178 |
| ## 7007 | 40.72421 | -73.99041 | 1 | 0.586145808 |
| ## 7009 | 40.75322 | -73.97321 | 2 | 1.985277037 |
| ## 7011 | 40.76302 | -73.99416 | 2 | -0.354446614 |
| ## 7012 | 40.70799 | -74.00977 | 2 | 1.997034442 |

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| ## 7014 | 40.87133 | -73.91562 | 1 | -0.942316878 |
| ## 7016 | 40.71257 | -73.98671 | 1 | -0.060511482 |
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| ## 7019 | 40.76800 | -73.98557 | 2 | 0.786021698 |
| ## 7021 | 40.80967 | -73.95295 | 2 | 0.527358782 |
| ## 7022 | 40.76058 | -73.99603 | 2 | 0.115849597 |
| ## 7024 | 40.71920 | -73.98431 | 1 | -0.648381746 |
| ## 7026 | 40.76347 | -73.99296 | 2 | -0.401476235 |
| ## 7027 | 40.74462 | -73.97746 | 2 | 2.584904706 |
| ## 7029 | 40.82088 | -73.95628 | 1 | -0.942316878 |
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| ## 7032 | 40.72522 | -73.98114 | 1 | 0.233423650 |
| ## 7034 | 40.76507 | -73.98393 | 2 | 0.115849597 |
| ## 7036 | 40.73475 | -74.00440 | 2 | 1.409164178 |
| ## 7037 | 40.80507 | -73.96465 | 2 | 1.879460389 |
| ## 7039 | 40.76306 | -73.99257 | 2 | 0.233423650 |
| ## 7041 | 40.79456 | -73.94345 | 2 | 0.656690240 |
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| ## 7049 | 40.71330 | -73.99560 | 1 | -0.707168773 |
| ## 7051 | 40.72952 | -73.98214 | 1 | -0.566079909 |
| ## 7052 | 40.77835 | -73.97655 | 2 | 0.821293914 |
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| ## 7104 | 40.80118 | -73.94513 | 1 | -0.530807693 |
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| ## 7116 | 40.82095 | -73.94007 | 1 | -1.059890931 |
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| ## 7119 | 40.81810 | -73.94632 | 2 | 0.068819976 |
| ## 7121 | 40.74516 | -73.99590 | 1 | -0.354446614 |
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| ## 7131 | 40.75965 | -73.99035 | 2 | 1.103471641 |
| ## 7132 | 40.74187 | -74.00175 | 1 | -0.060511482 |
| ## 7134 | 40.82469 | -73.94029 | 1 | -0.178085535 |
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| ## 7137 | 40.76161 | -73.96252 | 2 | 0.821293914 |
| ## 7139 | 40.71187 | -73.98878 | 3 | -1.118677957 |
| ## 7141 | 40.77458 | -73.95116 | 2 | 0.468571756 |
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| ## 7147 | 40.81567 | -73.95951 | 1 | -0.942316878 |
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| ## 7194 | 40.83344 | -73.94442 | 1 | -0.765955799 |
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| ## 7284 | 40.86612 | -73.91890 | 2 | -0.624866936 |
| ## 7286 | 40.76455 | -73.99128 | 3 | -1.177464984 |
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| ## 7294 | 40.72501 | -73.98776 | 1 | 0.233423650 |
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| ## 7332 | 40.74139 | -73.97830 | 2 | -0.119298508 |
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| ## 7351 | 40.777854 | -73.95073 | 3 | -1.001103905 |
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| ## 7464 | 40.86709 | -73.92962 | 1 | -0.589594720 |
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| ## 7482 | 40.73887 | -74.00011 | 1 | -0.530807693 |
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| ## 7487 | 40.73179 | -74.00149 | 1 | 1.997034442 |
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| ## 7502 | 40.73637 | -73.98051 | 2 | 2.584904706 |
| ## 7504 | 40.77305 | -73.96283 | 3 | -0.366204019 |
| ## 7506 | 40.72697 | -73.98488 | 2 | 1.409164178 |
| ## 7507 | 40.70433 | -74.00706 | 2 | 0.233423650 |
| ## 7509 | 40.84490 | -73.94034 | 1 | -0.530807693 |
| ## 7511 | 40.82779 | -73.94065 | 2 | -0.295659588 |
| ## 7512 | 40.72426 | -73.99535 | 2 | 1.703099310 |
| ## 7514 | 40.80125 | -73.96529 | 1 | -0.472020667 |
| ## 7516 | 40.76264 | -73.98569 | 2 | 0.350997703 |
| ## 7517 | 40.81162 | -73.95046 | 2 | -0.354446614 |
| ## 7519 | 40.82579 | -73.95280 | 1 | -0.601352125 |
| ## 7521 | 40.76139 | -73.96208 | 2 | 0.092334787 |
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| ## 7524 | 40.71085 | -74.00830 | 1 | -0.836500231 |
| ## 7526 | 40.76318 | -73.98473 | 1 | -0.307416993 |
| ## 7527 | 40.79643 | -73.97188 | 1 | -0.236872561 |
| ## 7529 | 40.72515 | -74.00182 | 2 | 0.233423650 |
| ## 7531 | 40.81286 | -73.93618 | 1 | -0.918802068 |
| ## 7532 | 40.78396 | -73.97691 | 2 | 0.480329161 |
| ## 7534 | 40.73334 | -74.00104 | 2 | 0.409784729 |
| ## 7536 | 40.76345 | -73.99298 | 1 | -0.601352125 |
| ## 7537 | 40.80041 | -73.95237 | 2 | 0.350997703 |
| ## 7539 | 40.73506 | -74.00518 | 2 | 1.397406773 |
| ## 7541 | 40.71258 | -73.99010 | 2 | 0.821293914 |
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| ## 7544 | 40.80304 | -73.95148 | 1 | -0.765955799 |
| ## 7546 | 40.82158 | -73.93824 | 1 | -0.354446614 |
| ## 7547 | 40.74487 | -74.00277 | 3 | -0.648381746 |
| ## 7549 | 40.72838 | -73.99899 | 2 | 0.821293914 |
| ## 7551 | 40.74036 | -73.98053 | 2 | -0.119298508 |
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| ## 7554 | 40.77693 | -73.94524 | 2 | -0.119298508 |
| ## 7556 | 40.72954 | -73.98842 | 1 | -0.354446614 |
| ## 7557 | 40.82605 | -73.94219 | 1 | -0.883529852 |
| ## 7559 | 40.81834 | -73.93929 | 1 | -0.707168773 |
| ## 7561 | 40.86059 | -73.92986 | 1 | -0.942316878 |
| ## 7562 | 40.70662 | -74.00510 | 2 | 0.233423650 |
| ## 7564 | 40.81646 | -73.93795 | 1 | -0.236872561 |
| ## 7566 | 40.81604 | -73.94017 | 1 | -0.236872561 |
| ## 7567 | 40.777865 | -73.98104 | 2 | 0.221666245 |
| ## 7569 | 40.75604 | -73.96810 | 2 | 0.644932835 |
| ## 7571 | 40.74436 | -73.97292 | 2 | 0.821293914 |
| ## 7572 | 40.73210 | -74.00461 | 2 | 1.409164178 |
| ## 7574 | 40.777375 | -73.94963 | 2 | 0.033547760 |
| ## 7576 | 40.80020 | -73.96727 | 1 | 1.985277037 |
| ## 7577 | 40.76283 | -73.99331 | 1 | -0.178085535 |
| ## 7579 | 40.71783 | -73.99817 | 1 | -0.554322504 |
| ## 7581 | 40.80100 | -73.96130 | 2 | 0.233423650 |
| ## 7582 | 40.71385 | -73.99711 | 1 | -0.648381746 |
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| ## 7589 | 40.83945 | -73.94353 | 2 | -0.236872561 |
| ## 7591 | 40.777614 | -73.94626 | 2 | 0.233423650 |
| ## 7592 | 40.79951 | -73.96767 | 1 | -0.742440988 |
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| ## 7596 | 40.71336 | -73.98977 | 1 | 0.233423650 |
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| ## 7599 | 40.75956 | -73.98512 | 2 | 1.279832720 |
| ## 7601 | 40.81193 | -73.95946 | 1 | -0.236872561 |
| ## 7602 | 40.76284 | -73.96038 | 2 | 0.233423650 |
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| ## 7611 | 40.73057 | -73.99422 | 2 | 0.809536509 |
| ## 7612 | 40.80286 | -73.96561 | 1 | -0.883529852 |
| ## 7614 | 40.777928 | -73.94862 | 2 | 0.115849597 |
| ## 7616 | 40.71775 | -73.98612 | 1 | -0.366204019 |
| ## 7617 | 40.80570 | -73.94689 | 2 | 2.584904706 |
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| ## 7621 | 40.76200 | -73.96045 | 2 | -0.389718830 |
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| ## 7624 | 40.82429 | -73.95225 | 1 | -0.895287257 |
| ## 7626 | 40.71962 | -73.98241 | 2 | -0.589594720 |
| ## 7627 | 40.81619 | -73.93798 | 2 | -0.624866936 |
| ## 7629 | 40.76334 | -73.98909 | 2 | -0.154570724 |
| ## 7631 | 40.72966 | -73.98187 | 2 | 0.115849597 |
| ## 7632 | 40.74637 | -73.97207 | 2 | 0.821293914 |
| ## 7634 | 40.72768 | -73.98739 | 1 | 0.221666245 |
| ## 7636 | 40.70514 | -74.00921 | 1 | -0.530807693 |
| ## 7637 | 40.75186 | -73.97062 | 2 | 1.514980826 |
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| ## 7641 | 40.72070 | -73.99815 | 2 | -0.636624341 |
| ## 7642 | 40.71579 | -73.99158 | 2 | -0.060511482 |

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| ## 7644 | 40.72563 | -73.99118 | 2 | 1.997034442 |
| ## 7646 | 40.71518 | -73.98953 | 1 | 0.233423650 |
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| ## 7649 | 40.75608 | -73.96895 | 2 | 0.821293914 |
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| ## 7652 | 40.74921 | -74.00416 | 2 | 1.703099310 |
| ## 7654 | 40.77856 | -73.98278 | 2 | 0.233423650 |
| ## 7656 | 40.87540 | -73.91263 | 2 | -0.495535477 |
| ## 7657 | 40.80210 | -73.96629 | 1 | -0.777713204 |
| ## 7659 | 40.74653 | -73.99632 | 2 | 0.409784729 |
| ## 7661 | 40.73578 | -73.98706 | 1 | -0.354446614 |
| ## 7662 | 40.83048 | -73.95009 | 1 | 1.409164178 |
| ## 7664 | 40.72079 | -73.98965 | 1 | 0.527358782 |
| ## 7666 | 40.76066 | -73.99922 | 2 | 0.809536509 |
| ## 7667 | 40.76207 | -73.99937 | 2 | 1.279832720 |
| ## 7669 | 40.76112 | -73.99893 | 2 | 1.279832720 |
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| ## 7689 | 40.72741 | -73.97529 | 2 | 0.139364408 |
| ## 7691 | 40.76642 | -73.97107 | 1 | 2.008791847 |
| ## 7692 | 40.86541 | -73.92935 | 1 | -0.918802068 |
| ## 7694 | 40.72471 | -73.98891 | 2 | -0.283902182 |
| ## 7696 | 40.81591 | -73.93995 | 1 | -0.707168773 |
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| ## 7699 | 40.78305 | -73.97757 | 2 | 1.291590125 |
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| ## 7717 | 40.70706 | -74.00442 | 1 | -0.366204019 |
| ## 7719 | 40.76571 | -73.99101 | 2 | 0.080577381 |
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| ## 7734 | 40.77363 | -73.95154 | 2 | -0.472020667 |
| ## 7736 | 40.79201 | -73.97423 | 1 | -0.765955799 |
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| ## 7747 | 40.71934 | -73.98172 | 1 | -0.648381746 |
| ## 7749 | 40.75948 | -73.98631 | 1 | 0.456814350 |
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| ## 7759 | 40.83702 | -73.94199 | 1 | -0.648381746 |
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| ## 7764 | 40.72628 | -73.97952 | 1 | -0.742440988 |
| ## 7766 | 40.77936 | -73.97874 | 2 | 0.433299540 |
| ## 7767 | 40.71827 | -73.98983 | 2 | 0.586145808 |
| ## 7769 | 40.81635 | -73.94467 | 2 | -0.178085535 |
| ## 7771 | 40.74584 | -74.00279 | 2 | 1.115229046 |
| ## 7772 | 40.77512 | -73.95254 | 1 | -0.366204019 |
| ## 7774 | 40.81589 | -73.94648 | 2 | -0.236872561 |
| ## 7776 | 40.78853 | -73.97510 | 2 | 0.233423650 |
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| ## 7779 | 40.76986 | -73.98673 | 1 | -0.472020667 |
| ## 7781 | 40.81005 | -73.95990 | 3 | -0.707168773 |
| ## 7782 | 40.82588 | -73.93880 | 1 | -1.106920552 |
| ## 7784 | 40.72746 | -73.97611 | 2 | 0.644932835 |
| ## 7786 | 40.72871 | -74.00149 | 2 | 0.362755108 |
| ## 7787 | 40.75880 | -73.96611 | 2 | 1.526738231 |
| ## 7789 | 40.75897 | -73.96170 | 2 | 0.938867967 |
| ## 7791 | 40.75726 | -73.96177 | 2 | 1.056442020 |
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| ## 7796 | 40.76294 | -73.98574 | 2 | 0.809536509 |
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| ## 7801 | 40.76172 | -73.96538 | 2 | 0.574388403 |
| ## 7802 | 40.78435 | -73.97579 | 2 | 1.938247416 |
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| ## 7814 | 40.86076 | -73.92781 | 2 | -0.354446614 |
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| ## 7819 | 40.82004 | -73.95063 | 1 | -1.059890931 |
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| ## 7824 | 40.80573 | -73.94994 | 2 | -0.013481861 |
| ## 7826 | 40.77510 | -73.98148 | 2 | 1.997034442 |
| ## 7827 | 40.75666 | -73.99444 | 2 | 0.644932835 |
| ## 7829 | 40.76122 | -73.98292 | 2 | 0.644932835 |
| ## 7831 | 40.72539 | -73.97963 | 2 | 1.938247416 |
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| ## 7836 | 40.79671 | -73.97120 | 2 | 0.174636624 |
| ## 7837 | 40.72552 | -73.97879 | 2 | 0.409784729 |
| ## 7839 | 40.72948 | -73.99986 | 1 | -0.178085535 |
| ## 7841 | 40.80372 | -73.95036 | 1 | -0.765955799 |
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| ## 7844 | 40.75004 | -73.97089 | 2 | -0.178085535 |
| ## 7846 | 40.72737 | -73.97789 | 2 | -0.236872561 |
| ## 7847 | 40.83077 | -73.94847 | 2 | -0.483778072 |
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| ## 7854 | 40.73273 | -74.00704 | 2 | 1.703099310 |
| ## 7856 | 40.74136 | -73.98006 | 2 | 0.339240298 |
| ## 7857 | 40.77580 | -73.95472 | 2 | 0.821293914 |
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| ## 7861 | 40.70994 | -74.00706 | 2 | 3.266834213 |
| ## 7862 | 40.75967 | -73.98732 | 2 | 1.679584500 |
| ## 7864 | 40.76395 | -73.98840 | 2 | 0.821293914 |
| ## 7866 | 40.77374 | -73.95684 | 2 | 1.585525257 |
| ## 7867 | 40.72544 | -73.98990 | 1 | -0.589594720 |
| ## 7869 | 40.72392 | -73.98719 | 1 | -0.707168773 |
| ## 7871 | 40.73055 | -73.99146 | 2 | -0.025239266 |
| ## 7872 | 40.72248 | -73.98316 | 1 | -0.530807693 |
| ## 7874 | 40.79229 | -73.97308 | 2 | 2.573147301 |
| ## 7876 | 40.72875 | -74.00169 | 1 | -0.236872561 |
| ## 7877 | 40.74122 | -73.99963 | 2 | 2.290969574 |
| ## 7879 | 40.81044 | -73.94916 | 2 | 0.233423650 |
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| ## 7891 | 40.82438 | -73.95020 | 2 | -0.013481861 |
| ## 7892 | 40.71967 | -73.98506 | 2 | 0.233423650 |
| ## 7894 | 40.80927 | -73.94270 | 1 | -0.812985420 |
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| ## 7901 | 40.80442 | -73.96362 | 1 | -0.472020667 |
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| ## 7904 | 40.78137 | -73.95176 | 2 | 0.233423650 |
| ## 7906 | 40.77597 | -73.98038 | 2 | 0.691962456 |
| ## 7907 | 40.82022 | -73.95358 | 2 | -0.060511482 |
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| ## 7914 | 40.74327 | -73.97202 | 2 | 0.292210676 |
| ## 7916 | 40.76247 | -73.96238 | 1 | -0.883529852 |
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| ## 7921 | 40.80364 | -73.96541 | 1 | -0.718926178 |
| ## 7922 | 40.72626 | -74.00154 | 2 | 0.327482892 |
| ## 7924 | 40.76609 | -73.99305 | 1 | 0.233423650 |
| ## 7926 | 40.82924 | -73.94783 | 1 | -0.942316878 |
| ## 7927 | 40.75257 | -73.97148 | 1 | -0.765955799 |
| ## 7929 | 40.74033 | -73.98268 | 2 | 0.691962456 |
| ## 7931 | 40.77386 | -73.95348 | 2 | 0.821293914 |
| ## 7932 | 40.83669 | -73.94274 | 2 | -0.060511482 |
| ## 7934 | 40.81596 | -73.95999 | 1 | -0.519050288 |
| ## 7936 | 40.81932 | -73.95761 | 1 | -0.942316878 |
| ## 7937 | 40.74075 | -73.99567 | 2 | 0.292210676 |
| ## 7939 | 40.72930 | -73.99479 | 2 | 4.336758093 |
| ## 7941 | 40.82717 | -73.95249 | 1 | -0.860015041 |
| ## 7942 | 40.71798 | -74.01253 | 2 | -0.413233640 |
| ## 7944 | 40.83619 | -73.94099 | 1 | -0.765955799 |
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| ## 7947 | 40.76496 | -73.99415 | 2 | 0.809536509 |
| ## 7949 | 40.72603 | -73.98915 | 2 | 0.233423650 |
| ## 7951 | 40.73887 | -73.98177 | 2 | 1.997034442 |
| ## 7952 | 40.80421 | -73.96738 | 1 | -0.648381746 |
| ## 7954 | 40.77672 | -73.94697 | 1 | -0.930559473 |
| ## 7956 | 40.81818 | -73.93905 | 1 | -0.954074283 |
| ## 7957 | 40.78817 | -73.98068 | 1 | 0.527358782 |
| ## 7959 | 40.74754 | -73.98309 | 2 | -0.131055914 |
| ## 7961 | 40.74270 | -73.99837 | 2 | 0.644932835 |
| ## 7962 | 40.72009 | -73.98631 | 1 | -0.942316878 |
| ## 7964 | 40.72376 | -73.98303 | 3 | -1.177464984 |
| ## 7966 | 40.75449 | -73.96545 | 2 | 0.809536509 |
| ## 7967 | 40.72927 | -73.99039 | 2 | 1.997034442 |
| ## 7969 | 40.73183 | -73.98513 | 2 | -0.013481861 |
| ## 7971 | 40.80477 | -73.94797 | 1 | -0.060511482 |
| ## 7972 | 40.77841 | -73.98028 | 1 | -0.448505856 |
| ## 7974 | 40.71709 | -73.99628 | 2 | -0.072268887 |
| ## 7976 | 40.78918 | -73.94995 | 2 | 0.233423650 |
| ## 7977 | 40.72753 | -73.97825 | 2 | 1.409164178 |
| ## 7979 | 40.80165 | -73.96497 | 1 | -0.765955799 |
| ## 7981 | 40.74107 | -73.99595 | 2 | 1.409164178 |
| ## 7982 | 40.72810 | -73.99067 | 2 | 1.409164178 |
| ## 7984 | 40.71274 | -73.99662 | 2 | -0.072268887 |
| ## 7986 | 40.74361 | -73.99885 | 2 | 0.938867967 |
| ## 7987 | 40.72778 | -73.98335 | 2 | -0.060511482 |
| ## 7989 | 40.72576 | -73.98691 | 2 | 0.821293914 |
| ## 7991 | 40.78112 | -73.95214 | 3 | -1.036376120 |
| ## 7992 | 40.77788 | -73.95615 | 2 | -0.295659588 |
| ## 7994 | 40.75965 | -73.96543 | 2 | 0.115849597 |
| ## 7996 | 40.72232 | -73.99579 | 1 | -0.765955799 |
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| ## 7999 | 40.82350 | -73.94332 | 2 | 1.409164178 |
| ## 8001 | 40.77320 | -73.95173 | 2 | 0.527358782 |
| ## 8002 | 40.72940 | -73.98021 | 1 | -0.236872561 |

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| ## 8004 | 40.73491 | -73.98400 | 1 | -0.648381746 |
| ## 8006 | 40.72570 | -73.98635 | 2 | 0.821293914 |
| ## 8007 | 40.77316 | -73.94998 | 2 | -0.119298508 |
| ## 8009 | 40.73316 | -74.00183 | 2 | 1.174016072 |
| ## 8011 | 40.77770 | -73.95350 | 2 | 0.057062571 |
| ## 8012 | 40.78176 | -73.97822 | 2 | 0.233423650 |
| ## 8014 | 40.85308 | -73.92878 | 1 | -0.883529852 |
| ## 8016 | 40.74595 | -73.98996 | 2 | 3.161017565 |
| ## 8017 | 40.77310 | -73.95169 | 2 | 0.233423650 |
| ## 8019 | 40.79921 | -73.94749 | 2 | 0.292210676 |
| ## 8021 | 40.86082 | -73.92585 | 2 | -0.413233640 |
| ## 8022 | 40.77094 | -73.95126 | 2 | 0.809536509 |
| ## 8024 | 40.79426 | -73.96414 | 2 | 0.233423650 |
| ## 8026 | 40.74099 | -73.98139 | 2 | 0.938867967 |
| ## 8027 | 40.82225 | -73.94549 | 1 | -0.883529852 |
| ## 8029 | 40.80057 | -73.96679 | 1 | -0.413233640 |
| ## 8031 | 40.78664 | -73.97275 | 2 | 0.762506888 |
| ## 8032 | 40.76518 | -73.98406 | 1 | -0.589594720 |
| ## 8034 | 40.82421 | -73.95426 | 1 | -1.059890931 |
| ## 8036 | 40.76404 | -73.99260 | 1 | 0.527358782 |
| ## 8037 | 40.79942 | -73.96378 | 1 | -0.589594720 |
| ## 8039 | 40.72712 | -73.98705 | 2 | -0.354446614 |
| ## 8041 | 40.82636 | -73.93867 | 2 | -0.589594720 |
| ## 8042 | 40.82984 | -73.94226 | 1 | -0.718926178 |
| ## 8044 | 40.77758 | -73.94642 | 2 | -0.001724456 |
| ## 8046 | 40.83484 | -73.94009 | 2 | -0.413233640 |
| ## 8047 | 40.80227 | -73.95571 | 2 | 0.409784729 |
| ## 8049 | 40.76927 | -73.94900 | 2 | -0.001724456 |
| ## 8051 | 40.82508 | -73.93884 | 1 | -0.707168773 |
| ## 8052 | 40.80595 | -73.95812 | 2 | 0.492086566 |
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| ## 8056 | 40.86836 | -73.92827 | 1 | -0.765955799 |
| ## 8057 | 40.72900 | -73.98098 | 2 | -0.060511482 |
| ## 8059 | 40.73103 | -74.00906 | 2 | 1.997034442 |
| ## 8061 | 40.71069 | -74.00751 | 2 | 0.821293914 |
| ## 8062 | 40.72309 | -73.98428 | 1 | -0.660139151 |
| ## 8064 | 40.75420 | -73.96862 | 1 | -0.472020667 |
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| ## 8074 | 40.71052 | -74.01135 | 2 | 2.173395521 |
| ## 8076 | 40.82903 | -73.94502 | 1 | -0.942316878 |
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| ## 8084 | 40.75965 | -73.96631 | 2 | 0.115849597 |
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| ## 8087 | 40.72090 | -73.98822 | 1 | -0.530807693 |
| ## 8089 | 40.86118 | -73.92758 | 2 | -0.483778072 |
| ## 8091 | 40.75888 | -73.98467 | 1 | -0.201600345 |
| ## 8092 | 40.72611 | -73.97905 | 2 | -0.119298508 |

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| ## 8094 | 40.73517 | -73.98176 | 1 | -0.119298508 |
| ## 8096 | 40.81142 | -73.95134 | 1 | -0.718926178 |
| ## 8097 | 40.76720 | -73.98457 | 2 | 0.233423650 |
| ## 8099 | 40.76858 | -73.95346 | 2 | -0.366204019 |
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| ## 8107 | 40.84156 | -73.93884 | 1 | -1.001103905 |
| ## 8109 | 40.84198 | -73.93816 | 1 | -1.059890931 |
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| ## 8117 | 40.71474 | -74.00596 | 1 | -0.354446614 |
| ## 8119 | 40.83625 | -73.93915 | 2 | 0.115849597 |
| ## 8121 | 40.74744 | -73.97299 | 2 | 1.044684614 |
| ## 8122 | 40.81922 | -73.95276 | 1 | -0.718926178 |
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| ## 8126 | 40.76463 | -73.98855 | 2 | 1.703099310 |
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| ## 8184 | 40.74465 | -73.99883 | 1 | -0.060511482 |
| ## 8186 | 40.73038 | -73.98458 | 1 | 0.468571756 |
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| ## 8206 | 40.74572 | -73.98285 | 2 | 1.291590125 |
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| ## 8216 | 40.73282 | -74.00684 | 2 | 1.056442020 |
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| ## 8261 | 40.75546 | -73.96454 | 2 | 2.878839838 |
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| ## 8274 | 40.78004 | -73.98314 | 2 | 0.938867967 |
| ## 8276 | 40.73778 | -74.00287 | 2 | 2.584904706 |
| ## 8277 | 40.82418 | -73.94893 | 1 | -0.765955799 |
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| ## 8304 | 40.74796 | -73.97949 | 3 | -0.319174398 |
| ## 8306 | 40.72148 | -73.99543 | 2 | 1.926490010 |
| ## 8307 | 40.75095 | -73.97115 | 2 | -0.236872561 |
| ## 8309 | 40.72714 | -73.98668 | 2 | 2.185152927 |
| ## 8311 | 40.70851 | -74.00563 | 2 | 1.997034442 |
| ## 8312 | 40.79321 | -73.97685 | 2 | 4.219184040 |
| ## 8314 | 40.77174 | -73.98934 | 2 | 0.821293914 |
| ## 8316 | 40.76338 | -73.98911 | 1 | -0.119298508 |
| ## 8317 | 40.74164 | -73.98275 | 1 | 0.527358782 |
| ## 8319 | 40.73958 | -73.98258 | 2 | 0.762506888 |
| ## 8321 | 40.73226 | -73.98688 | 1 | -0.354446614 |
| ## 8322 | 40.74029 | -74.00233 | 2 | 0.644932835 |
| ## 8324 | 40.74426 | -73.98250 | 2 | 2.584904706 |
| ## 8326 | 40.83406 | -73.94731 | 2 | -0.354446614 |
| ## 8327 | 40.72921 | -74.00345 | 2 | 1.291590125 |
| ## 8329 | 40.83613 | -73.94472 | 1 | -0.765955799 |
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| ## 8344 | 40.81315 | -73.95389 | 1 | -0.954074283 |
| ## 8346 | 40.78411 | -73.97721 | 2 | 1.350377152 |
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| ## 8364 | 40.71891 | -73.99095 | 2 | -0.060511482 |
| ## 8366 | 40.72057 | -73.99462 | 1 | -0.483778072 |
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| ## 8391 | 40.80758 | -73.93702 | 2 | 0.115849597 |
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| ## 8404 | 40.77715 | -73.94802 | 1 | 0.527358782 |
| ## 8406 | 40.74202 | -73.98032 | 1 | -0.413233640 |
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| ## 8409 | 40.73546 | -74.00263 | 3 | -0.589594720 |
| ## 8411 | 40.71311 | -73.98482 | 1 | -1.024618715 |
| ## 8412 | 40.71906 | -73.98836 | 2 | 0.703719861 |
| ## 8414 | 40.73175 | -74.00419 | 2 | 0.468571756 |
| ## 8416 | 40.73933 | -74.00241 | 2 | 1.409164178 |
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| ## 8426 | 40.74725 | -73.99515 | 2 | 1.409164178 |
| ## 8427 | 40.79910 | -73.96963 | 1 | -0.366204019 |
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| ## 8432 | 40.76943 | -73.98720 | 1 | -0.060511482 |
| ## 8434 | 40.82957 | -73.94535 | 1 | -0.824742825 |
| ## 8436 | 40.76141 | -73.96376 | 2 | -0.154570724 |
| ## 8437 | 40.74496 | -73.97867 | 1 | -0.354446614 |
| ## 8439 | 40.79281 | -73.93955 | 1 | -1.059890931 |
| ## 8441 | 40.71581 | -74.00616 | 2 | 3.643071182 |
| ## 8442 | 40.78525 | -73.94178 | 1 | -0.765955799 |
| ## 8444 | 40.79505 | -73.94204 | 1 | -0.366204019 |
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| ## 8447 | 40.71490 | -73.99063 | 2 | 0.268695866 |
| ## 8449 | 40.82663 | -73.94624 | 1 | -0.824742825 |
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| ## 8452 | 40.86316 | -73.92627 | 3 | 1.997034442 |

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| ## 8454 | 40.76072 | -73.98792 | 1 | -0.119298508 |
| ## 8456 | 40.71705 | -74.00935 | 2 | 2.584904706 |
| ## 8457 | 40.76388 | -73.98874 | 1 | -0.236872561 |
| ## 8459 | 40.82626 | -73.93831 | 1 | 0.527358782 |
| ## 8461 | 40.74207 | -73.98240 | 2 | 1.409164178 |
| ## 8462 | 40.73316 | -74.00782 | 2 | 1.997034442 |
| ## 8464 | 40.78316 | -73.94662 | 2 | 0.527358782 |
| ## 8466 | 40.73903 | -73.98267 | 2 | 0.821293914 |
| ## 8467 | 40.76112 | -73.98473 | 1 | -0.060511482 |
| ## 8469 | 40.72163 | -73.98715 | 1 | -0.354446614 |
| ## 8471 | 40.70483 | -74.01545 | 2 | 0.586145808 |
| ## 8472 | 40.86438 | -73.92787 | 1 | 1.138743857 |
| ## 8474 | 40.76142 | -73.99248 | 2 | 0.033547760 |
| ## 8476 | 40.73711 | -73.98573 | 2 | 1.409164178 |
| ## 8477 | 40.79371 | -73.96708 | 2 | 1.938247416 |
| ## 8479 | 40.86763 | -73.91792 | 1 | -0.824742825 |
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| ## 8482 | 40.80429 | -73.96499 | 2 | 0.527358782 |
| ## 8484 | 40.75797 | -73.97004 | 2 | 0.233423650 |
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| ## 8491 | 40.79834 | -73.94761 | 2 | 0.398027324 |
| ## 8492 | 40.82220 | -73.94323 | 2 | 0.809536509 |
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| ## 8504 | 40.72191 | -73.99472 | 2 | -0.119298508 |
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| ## 8542 | 40.75735 | -73.96438 | 2 | 0.797779103 |

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| ## 8544 | 40.79501 | -73.97132 | 2 | 0.409784729 |
| ## 8546 | 40.777972 | -73.94543 | 1 | -0.589594720 |
| ## 8547 | 40.70402 | -74.00776 | 2 | 1.232803099 |
| ## 8549 | 40.83503 | -73.94166 | 1 | -0.824742825 |
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| ## 8559 | 40.76495 | -73.98964 | 2 | 0.409784729 |
| ## 8561 | 40.77718 | -73.98023 | 1 | -0.119298508 |
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| ## 8564 | 40.76080 | -73.96032 | 2 | 1.397406773 |
| ## 8566 | 40.77883 | -73.95205 | 2 | 1.044684614 |
| ## 8567 | 40.80167 | -73.95781 | 1 | -0.707168773 |
| ## 8569 | 40.76404 | -73.96628 | 2 | 1.115229046 |
| ## 8571 | 40.82316 | -73.94478 | 2 | 0.762506888 |
| ## 8572 | 40.71391 | -74.00624 | 2 | 0.468571756 |
| ## 8574 | 40.76744 | -73.95901 | 2 | 0.644932835 |
| ## 8576 | 40.73630 | -73.98338 | 2 | 1.409164178 |
| ## 8577 | 40.77357 | -73.95149 | 2 | -0.718926178 |
| ## 8579 | 40.76748 | -73.98609 | 2 | 0.527358782 |
| ## 8581 | 40.71342 | -73.99929 | 2 | 0.233423650 |
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| ## 8586 | 40.82986 | -73.93965 | 2 | 0.245181055 |
| ## 8587 | 40.72693 | -73.98385 | 2 | 0.586145808 |
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| ## 8599 | 40.75842 | -73.99276 | 1 | -0.824742825 |
| ## 8601 | 40.74404 | -73.97217 | 1 | 0.057062571 |
| ## 8602 | 40.73193 | -73.99126 | 2 | 1.609040068 |
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| ## 8611 | 40.73499 | -73.99254 | 1 | 0.233423650 |
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| ## 8621 | 40.70830 | -74.01406 | 1 | -0.589594720 |
| ## 8622 | 40.82367 | -73.93762 | 2 | -0.295659588 |
| ## 8624 | 40.72688 | -74.00220 | 2 | 0.821293914 |
| ## 8626 | 40.78492 | -73.97992 | 1 | -0.236872561 |
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| ## 8634 | 40.76338 | -73.99552 | 2 | 0.821293914 |
| ## 8636 | 40.76100 | -73.98522 | 2 | 0.456814350 |
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| ## 8652 | 40.76529 | -73.97713 | 1 | 2.584904706 |
| ## 8654 | 40.80771 | -73.94112 | 3 | -0.413233640 |
| ## 8656 | 40.79528 | -73.94418 | 2 | -0.436748451 |
| ## 8657 | 40.76035 | -73.98189 | 2 | 0.350997703 |
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| ## 8671 | 40.72630 | -74.00344 | 2 | 0.691962456 |
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| ## 8706 | 40.80751 | -73.96619 | 1 | -0.236872561 |
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| ## 8719 | 40.82218 | -73.94593 | 2 | -0.119298508 |
| ## 8721 | 40.75175 | -73.97218 | 1 | 1.632554878 |
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| ## 8724 | 40.78319 | -73.97762 | 1 | -0.530807693 |
| ## 8726 | 40.74624 | -74.00371 | 2 | 1.115229046 |
| ## 8727 | 40.71305 | -73.99443 | 1 | -0.354446614 |
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| ## 8732 | 40.74101 | -74.00496 | 2 | 1.997034442 |
| ## 8734 | 40.77390 | -73.94782 | 1 | -0.613109530 |
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| ## 8739 | 40.80088 | -73.96194 | 1 | -0.178085535 |
| ## 8741 | 40.81668 | -73.94407 | 1 | -0.354446614 |
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| ## 8761 | 40.71809 | -73.99655 | 1 | 0.821293914 |
| ## 8762 | 40.80173 | -73.96175 | 2 | 2.878839838 |
| ## 8764 | 40.79543 | -73.93539 | 1 | -0.589594720 |
| ## 8766 | 40.74068 | -74.00295 | 2 | 0.586145808 |
| ## 8767 | 40.74698 | -73.97218 | 1 | 0.880080940 |
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| ## 8772 | 40.72104 | -73.99498 | 1 | -0.001724456 |
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| ## 8776 | 40.73352 | -73.98730 | 1 | -0.472020667 |
| ## 8777 | 40.81674 | -73.95292 | 3 | -0.765955799 |
| ## 8779 | 40.82245 | -73.95675 | 1 | -0.648381746 |
| ## 8781 | 40.78057 | -73.95734 | 2 | -0.119298508 |
| ## 8782 | 40.74817 | -73.97595 | 1 | 0.233423650 |
| ## 8784 | 40.72274 | -74.00807 | 2 | 2.878839838 |
| ## 8786 | 40.75315 | -73.97253 | 2 | -0.013481861 |
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| ## 8791 | 40.72021 | -73.99592 | 2 | 1.162258667 |
| ## 8792 | 40.74828 | -73.98401 | 1 | 0.691962456 |
| ## 8794 | 40.71806 | -73.99351 | 2 | 1.409164178 |
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| ## 8802 | 40.72228 | -73.99582 | 3 | -0.765955799 |
| ## 8804 | 40.79772 | -73.96213 | 2 | 2.408543627 |
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| ## 8807 | 40.71610 | -73.99828 | 2 | 0.115849597 |
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| ## 8814 | 40.74768 | -73.98723 | 2 | 0.762506888 |
| ## 8816 | 40.76135 | -73.96645 | 1 | 1.174016072 |
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| ## 8819 | 40.72524 | -74.00218 | 2 | 2.584904706 |
| ## 8821 | 40.74476 | -73.99266 | 2 | 4.195669230 |
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| ## 8857 | 40.73281 | -73.98686 | 2 | 1.409164178 |
| ## 8859 | 40.71916 | -74.01177 | 1 | -0.413233640 |
| ## 8861 | 40.80910 | -73.94241 | 1 | -0.483778072 |
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| ## 8864 | 40.70488 | -74.00744 | 1 | -0.413233640 |
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| ## 8904 | 40.73016 | -73.98171 | 2 | 0.562630998 |
| ## 8906 | 40.76626 | -73.98338 | 2 | 2.808295407 |
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| ## 8909 | 40.72461 | -73.98172 | 1 | -0.530807693 |
| ## 8911 | 40.82914 | -73.94736 | 1 | -0.718926178 |
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| ## 8916 | 40.77789 | -73.95473 | 2 | -0.154570724 |
| ## 8917 | 40.76590 | -73.98371 | 2 | 1.409164178 |
| ## 8919 | 40.70959 | -74.00646 | 2 | 0.174636624 |
| ## 8921 | 40.72117 | -73.97839 | 1 | -0.589594720 |
| ## 8922 | 40.83490 | -73.94829 | 2 | 0.233423650 |
| ## 8924 | 40.73317 | -73.99813 | 2 | 1.938247416 |
| ## 8926 | 40.77502 | -73.95536 | 1 | 0.151121813 |
| ## 8927 | 40.80783 | -73.95419 | 1 | 0.398027324 |
| ## 8929 | 40.74411 | -73.98011 | 3 | -0.765955799 |
| ## 8931 | 40.77097 | -73.94862 | 1 | -0.824742825 |
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| ## 8937 | 40.73267 | -73.98259 | 1 | -0.354446614 |
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| ## 8947 | 40.73726 | -73.97932 | 1 | -0.178085535 |
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| ## 8951 | 40.73845 | -74.00551 | 2 | 1.056442020 |
| ## 8952 | 40.86859 | -73.91948 | 1 | -1.001103905 |
| ## 8954 | 40.74494 | -73.97554 | 2 | 0.586145808 |
| ## 8956 | 40.74318 | -74.00137 | 2 | 0.586145808 |
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| ## 8961 | 40.72692 | -73.98781 | 1 | -0.131055914 |
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| ## 8966 | 40.77680 | -73.98217 | 2 | 1.467951205 |
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| ## 8974 | 40.72705 | -74.00419 | 2 | 2.878839838 |
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| ## 8986 | 40.75230 | -73.97288 | 1 | 0.797779103 |
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| ## 8994 | 40.71858 | -73.98968 | 1 | -0.613109530 |
| ## 8996 | 40.78122 | -73.94989 | 2 | -0.013481861 |
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| ## 9001 | 40.75372 | -73.99332 | 3 | -0.366204019 |
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| ## 9084 | 40.71916 | -73.99229 | 1 | -0.377961425 |
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| ## 9096 | 40.73621 | -74.00612 | 2 | 2.584904706 |
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| ## 9174 | 40.74047 | -73.98381 | 1 | -0.707168773 |
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| ## 9211 | 40.72357 | -73.98797 | 2 | 3.172774970 |
| ## 9212 | 40.73243 | -74.00932 | 2 | 1.056442020 |
| ## 9214 | 40.78983 | -73.94419 | 1 | -0.765955799 |
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| ## 9242 | 40.76418 | -73.98885 | 2 | 0.703719861 |
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| ## 9264 | 40.74301 | -73.98037 | 2 | -0.119298508 |
| ## 9266 | 40.72258 | -73.98148 | 1 | -0.354446614 |
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| ## 9301 | 40.72860 | -73.99971 | 2 | 1.703099310 |
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| ## 9354 | 40.71682 | -73.99574 | 2 | 0.350997703 |
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| ## 9399 | 40.71875 | -73.98349 | 1 | -0.824742825 |
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| ## 9442 | 40.71789 | -73.98308 | 2 | -0.072268887 |

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| ## 9444 | 40.75329 | -73.98880 | 1 | -1.177464984 |
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| ## 9481 | 40.72275 | -73.98918 | 1 | -0.119298508 |
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| ## 9534 | 40.71203 | -73.99008 | 1 | -0.366204019 |
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| ## 9714 | 40.85338 | -73.93232 | 1 | -0.530807693 |
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| ## 9804 | 40.76125 | -73.98945 | 2 | 0.045305165 |
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| ## 9894 | 40.79806 | -73.96085 | 1 | -0.354446614 |
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| ## 9932 | 40.81131 | -73.95820 | 1 | -1.001103905 |
| ## 9934 | 40.72886 | -73.98830 | 1 | 0.233423650 |
| ## 9936 | 40.71794 | -73.99955 | 2 | 0.762506888 |
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| ## 9951 | 40.80674 | -73.95616 | 1 | -0.824742825 |
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| ## 9984 | 40.82168 | -73.95161 | 2 | 0.809536509 |
| ## 9986 | 40.75888 | -73.99077 | 2 | 1.162258667 |
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| ## 10002 | 40.76976 | -73.95208 | 1 | -0.236872561 |
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| ## 10006 | 40.81447 | -73.94721 | 2 | 0.409784729 |
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| ## 10012 | 40.80965 | -73.94696 | 1 | -0.178085535 |
| ## 10014 | 40.73916 | -73.98220 | 2 | 1.232803099 |
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| ## 10021 | 40.72528 | -74.00317 | 2 | 0.821293914 |
| ## 10022 | 40.74612 | -73.97684 | 1 | -0.624866936 |
| ## 10024 | 40.78830 | -73.95017 | 1 | -0.354446614 |
| ## 10026 | 40.83694 | -73.94212 | 2 | -0.354446614 |
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| ## 10074 | 40.76597 | -73.98379 | 2 | 2.290969574 |
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| ## 10164 | 40.72205 | -73.98389 | 1 | 0.456814350 |
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| ## 10254 | 40.78293 | -73.97636 | 1 | -1.059890931 |
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| ## 10344 | 40.77127 | -73.95493 | 2 | -0.295659588 |
| ## 10346 | 40.86739 | -73.92000 | 2 | -0.613109530 |
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| ## 10357 | 40.76224 | -73.99909 | 2 | 1.056442020 |
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| ## 10364 | 40.75071 | -73.97995 | 1 | 0.092334787 |
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| ## 10392 | 40.74736 | -73.97838 | 1 | -0.824742825 |
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| ## 10401 | 40.74689 | -73.97763 | 2 | 0.233423650 |
| ## 10402 | 40.71222 | -74.01566 | 2 | 2.584904706 |
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| ## 10409 | 40.86556 | -73.92656 | 1 | -1.106920552 |
| ## 10411 | 40.84202 | -73.94171 | 2 | -0.260387372 |
| ## 10412 | 40.76548 | -73.94675 | 1 | -0.883529852 |
| ## 10414 | 40.82088 | -73.95230 | 1 | -1.106920552 |
| ## 10416 | 40.72529 | -73.98655 | 2 | 1.997034442 |
| ## 10417 | 40.79312 | -73.96595 | 2 | -0.178085535 |
| ## 10419 | 40.76398 | -73.98600 | 1 | -0.366204019 |
| ## 10421 | 40.75609 | -73.96941 | 2 | -0.060511482 |
| ## 10422 | 40.76441 | -73.99437 | 2 | -0.354446614 |
| ## 10424 | 40.74763 | -73.97602 | 1 | -0.918802068 |
| ## 10426 | 40.74842 | -73.98542 | 3 | 2.232182548 |
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| ## 10429 | 40.79771 | -73.94833 | 1 | 0.174636624 |
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| ## 10432 | 40.86822 | -73.92048 | 2 | -0.354446614 |

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| ## 10434 | 40.73095 | -73.99413 | 1 | 0.821293914 |
| ## 10436 | 40.73627 | -73.98952 | 2 | 1.879460389 |
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| ## 10439 | 40.79185 | -73.94139 | 1 | -0.942316878 |
| ## 10441 | 40.75905 | -73.96142 | 2 | 4.054580366 |
| ## 10442 | 40.70864 | -74.01276 | 2 | 1.115229046 |
| ## 10444 | 40.77489 | -73.95242 | 1 | -0.472020667 |
| ## 10446 | 40.73123 | -73.99374 | 1 | -0.131055914 |
| ## 10447 | 40.82499 | -73.94488 | 2 | 0.233423650 |
| ## 10449 | 40.76956 | -73.95835 | 2 | -0.060511482 |
| ## 10451 | 40.73848 | -74.00252 | 2 | 1.409164178 |
| ## 10452 | 40.73160 | -74.00262 | 2 | 1.738371526 |
| ## 10454 | 40.71773 | -74.00601 | 2 | 0.762506888 |
| ## 10456 | 40.78084 | -73.94735 | 2 | -0.377961425 |
| ## 10457 | 40.71769 | -73.99854 | 2 | 1.244560504 |
| ## 10459 | 40.71734 | -73.99071 | 1 | -0.648381746 |
| ## 10461 | 40.81644 | -73.94127 | 2 | -0.472020667 |
| ## 10462 | 40.82566 | -73.94438 | 1 | -0.824742825 |
| ## 10464 | 40.74620 | -74.00222 | 2 | 2.573147301 |
| ## 10466 | 40.71925 | -73.98955 | 2 | -0.283902182 |
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| ## 10469 | 40.76486 | -73.97822 | 2 | 1.397406773 |
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| ## 10476 | 40.81070 | -73.95842 | 1 | -0.824742825 |
| ## 10477 | 40.74814 | -73.98956 | 2 | 1.761886337 |
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| ## 10482 | 40.77541 | -73.95083 | 2 | -0.377961425 |
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| ## 10499 | 40.77099 | -73.95118 | 2 | -0.119298508 |
| ## 10501 | 40.75112 | -73.99605 | 2 | 3.161017565 |
| ## 10502 | 40.86702 | -73.92519 | 2 | -0.236872561 |
| ## 10504 | 40.80302 | -73.95605 | 1 | -0.354446614 |
| ## 10506 | 40.74507 | -73.97920 | 1 | -0.636624341 |
| ## 10507 | 40.77861 | -73.95015 | 2 | 1.844188174 |
| ## 10509 | 40.75936 | -73.98752 | 2 | 1.879460389 |
| ## 10511 | 40.72249 | -73.99507 | 2 | 1.409164178 |
| ## 10512 | 40.80176 | -73.96638 | 1 | -0.707168773 |
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| ## 10516 | 40.77320 | -73.98768 | 2 | 0.209908839 |
| ## 10517 | 40.82953 | -73.94283 | 2 | -0.683653962 |
| ## 10519 | 40.72390 | -73.98111 | 1 | -0.119298508 |
| ## 10521 | 40.79835 | -73.97242 | 1 | -0.236872561 |
| ## 10522 | 40.76373 | -73.98810 | 2 | 1.115229046 |

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| ## 10524 | 40.80253 | -73.96812 | 2 | 0.703719861 |
| ## 10526 | 40.84492 | -73.93673 | 1 | -0.824742825 |
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| ## 10531 | 40.73526 | -74.00476 | 2 | 2.220425143 |
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| ## 10536 | 40.76327 | -73.96120 | 2 | 0.586145808 |
| ## 10537 | 40.74808 | -73.98172 | 2 | 0.821293914 |
| ## 10539 | 40.84717 | -73.93267 | 1 | -1.177464984 |
| ## 10541 | 40.72717 | -73.98643 | 1 | 0.586145808 |
| ## 10542 | 40.77949 | -73.98000 | 2 | 0.621418024 |
| ## 10544 | 40.81703 | -73.93691 | 2 | -0.542565099 |
| ## 10546 | 40.72954 | -74.00206 | 2 | 0.997654993 |
| ## 10547 | 40.80079 | -73.95798 | 2 | 0.057062571 |
| ## 10549 | 40.75334 | -73.97278 | 2 | 0.762506888 |
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| ## 10557 | 40.73160 | -74.00212 | 2 | 0.938867967 |
| ## 10559 | 40.75077 | -73.98140 | 2 | 0.174636624 |
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| ## 10569 | 40.82452 | -73.94499 | 2 | -0.860015041 |
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| ## 10572 | 40.71913 | -73.99680 | 3 | 0.409784729 |
| ## 10574 | 40.71453 | -73.98679 | 1 | -0.718926178 |
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| ## 10579 | 40.76892 | -73.96906 | 1 | -0.178085535 |
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| ## 10592 | 40.74063 | -73.98205 | 2 | 2.290969574 |
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| ## 10611 | 40.73280 | -74.00845 | 2 | 1.985277037 |
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| ## 10614 | 40.74625 | -73.99911 | 2 | 0.644932835 |
| ## 10616 | 40.82186 | -73.94624 | 1 | -0.589594720 |
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| ## 10621 | 40.76833 | -73.95581 | 2 | 0.057062571 |
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| ## 10624 | 40.76074 | -73.94943 | 1 | -0.683653962 |
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| ## 10627 | 40.72034 | -73.98617 | 2 | 0.115849597 |
| ## 10629 | 40.85471 | -73.93016 | 1 | -0.942316878 |
| ## 10631 | 40.73852 | -74.00269 | 2 | 0.586145808 |
| ## 10632 | 40.75548 | -73.99510 | 1 | -0.354446614 |
| ## 10634 | 40.72403 | -74.00858 | 2 | 0.821293914 |
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| ## 10639 | 40.74818 | -73.97537 | 2 | 0.527358782 |
| ## 10641 | 40.77366 | -73.95755 | 2 | -0.060511482 |
| ## 10642 | 40.79749 | -73.93336 | 1 | 0.115849597 |
| ## 10644 | 40.73247 | -74.00335 | 2 | 1.115229046 |
| ## 10646 | 40.74371 | -74.00244 | 2 | 3.172774970 |
| ## 10647 | 40.73392 | -74.00354 | 2 | 0.233423650 |
| ## 10649 | 40.74444 | -74.00068 | 2 | 0.527358782 |
| ## 10651 | 40.73557 | -73.98589 | 2 | 0.821293914 |
| ## 10652 | 40.74857 | -73.97722 | 2 | 0.233423650 |
| ## 10654 | 40.76174 | -73.99228 | 2 | -0.001724456 |
| ## 10656 | 40.80194 | -73.95551 | 2 | -0.119298508 |
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| ## 10661 | 40.80006 | -73.96480 | 2 | -0.295659588 |
| ## 10662 | 40.81611 | -73.94419 | 1 | -1.106920552 |
| ## 10664 | 40.85063 | -73.94315 | 1 | -0.965831689 |
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| ## 10669 | 40.73958 | -74.00171 | 1 | -0.765955799 |
| ## 10671 | 40.72728 | -73.98954 | 1 | -0.824742825 |
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| ## 10682 | 40.82582 | -73.94876 | 1 | -0.765955799 |
| ## 10684 | 40.86438 | -73.92086 | 3 | -1.059890931 |
| ## 10686 | 40.81703 | -73.94512 | 2 | -0.131055914 |
| ## 10687 | 40.73020 | -74.00080 | 2 | 0.586145808 |
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| ## 10691 | 40.84133 | -73.93739 | 3 | -0.942316878 |
| ## 10692 | 40.78196 | -73.97764 | 1 | -0.895287257 |
| ## 10694 | 40.76708 | -73.98912 | 1 | -0.366204019 |
| ## 10696 | 40.79956 | -73.94113 | 1 | -0.566079909 |
| ## 10697 | 40.72588 | -74.00286 | 2 | 1.115229046 |
| ## 10699 | 40.72979 | -73.98300 | 1 | 0.221666245 |
| ## 10701 | 40.74838 | -73.98108 | 2 | 1.703099310 |
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| ## 10704 | 40.72723 | -73.98466 | 2 | 0.174636624 |
| ## 10706 | 40.77468 | -73.98184 | 2 | 0.586145808 |
| ## 10707 | 40.76959 | -73.95338 | 1 | -0.648381746 |
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| ## 10711 | 40.71206 | -73.99055 | 1 | -0.707168773 |
| ## 10712 | 40.74724 | -73.98924 | 2 | 3.172774970 |
| ## 10714 | 40.72119 | -73.98738 | 2 | -0.060511482 |
| ## 10716 | 40.80179 | -73.96872 | 2 | 0.527358782 |
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| ## 10719 | 40.73185 | -74.00589 | 2 | 0.527358782 |
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| ## 10722 | 40.72294 | -73.99526 | 2 | 1.409164178 |
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| ## 10726 | 40.76300 | -73.98624 | 1 | 1.997034442 |
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| ## 10731 | 40.82555 | -73.94297 | 1 | -0.624866936 |
| ## 10732 | 40.76620 | -73.95740 | 2 | -0.354446614 |
| ## 10734 | 40.72985 | -73.99938 | 1 | -0.283902182 |
| ## 10736 | 40.75283 | -73.99951 | 2 | 0.115849597 |
| ## 10737 | 40.78413 | -73.97779 | 1 | -0.424991046 |
| ## 10739 | 40.74511 | -73.97833 | 2 | 0.174636624 |
| ## 10741 | 40.71885 | -73.99514 | 1 | -0.119298508 |
| ## 10742 | 40.71043 | -73.98174 | 1 | 0.315725487 |
| ## 10744 | 40.78242 | -73.95470 | 2 | 0.350997703 |
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| ## 10747 | 40.78668 | -73.94247 | 1 | -0.530807693 |
| ## 10749 | 40.73129 | -74.00298 | 2 | 1.409164178 |
| ## 10751 | 40.80230 | -73.96688 | 1 | -0.342689209 |
| ## 10752 | 40.71253 | -73.99586 | 1 | -0.942316878 |
| ## 10754 | 40.74498 | -73.99845 | 1 | -0.295659588 |
| ## 10756 | 40.71558 | -73.99136 | 2 | 2.290969574 |
| ## 10757 | 40.74118 | -73.99900 | 2 | 0.292210676 |
| ## 10759 | 40.74837 | -74.00228 | 1 | -0.354446614 |
| ## 10761 | 40.78271 | -73.94540 | 2 | 0.209908839 |
| ## 10762 | 40.76591 | -73.98717 | 1 | -0.236872561 |
| ## 10764 | 40.77561 | -73.95213 | 2 | 0.821293914 |
| ## 10766 | 40.73978 | -73.99630 | 3 | 1.409164178 |
| ## 10767 | 40.78823 | -73.97499 | 2 | -0.166328130 |
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| ## 10771 | 40.76223 | -73.99458 | 2 | 0.386269919 |
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| ## 10774 | 40.74429 | -73.99984 | 2 | -0.001724456 |
| ## 10776 | 40.78360 | -73.95220 | 2 | -0.001724456 |
| ## 10777 | 40.79222 | -73.94607 | 1 | -0.060511482 |
| ## 10779 | 40.77744 | -73.95476 | 2 | -0.154570724 |
| ## 10781 | 40.77229 | -73.94941 | 1 | -0.589594720 |
| ## 10782 | 40.74175 | -73.99104 | 2 | 2.584904706 |
| ## 10784 | 40.76554 | -73.98245 | 1 | -0.589594720 |
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| ## 10787 | 40.81143 | -73.94935 | 2 | -0.354446614 |
| ## 10789 | 40.74846 | -73.97557 | 2 | 0.468571756 |
| ## 10791 | 40.74956 | -73.97668 | 2 | 0.527358782 |
| ## 10792 | 40.72497 | -73.98208 | 2 | 1.056442020 |

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| ## 10794 | 40.71353 | -73.99632 | 1 | -0.178085535 |
| ## 10796 | 40.73394 | -74.00490 | 2 | 0.115849597 |
| ## 10797 | 40.76692 | -73.96400 | 2 | 3.172774970 |
| ## 10799 | 40.75851 | -73.99138 | 2 | 1.703099310 |
| ## 10801 | 40.73564 | -73.98229 | 2 | 1.279832720 |
| ## 10802 | 40.86801 | -73.92372 | 2 | -0.765955799 |
| ## 10804 | 40.74862 | -74.00237 | 2 | 0.233423650 |
| ## 10806 | 40.72435 | -73.98394 | 1 | -0.671896557 |
| ## 10807 | 40.72716 | -73.98524 | 2 | -0.354446614 |
| ## 10809 | 40.82411 | -73.95090 | 2 | -0.377961425 |
| ## 10811 | 40.74466 | -73.97480 | 2 | -0.589594720 |
| ## 10812 | 40.79930 | -73.94164 | 1 | -0.824742825 |
| ## 10814 | 40.76212 | -73.96358 | 2 | 0.233423650 |
| ## 10816 | 40.78469 | -73.97197 | 2 | 0.339240298 |
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| ## 10819 | 40.81949 | -73.95521 | 1 | -1.001103905 |
| ## 10821 | 40.80760 | -73.94252 | 1 | -0.871772446 |
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| ## 10827 | 40.72890 | -74.00059 | 1 | -0.707168773 |
| ## 10829 | 40.72208 | -73.99365 | 1 | -0.354446614 |
| ## 10831 | 40.77286 | -73.94789 | 2 | -0.178085535 |
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| ## 10834 | 40.76358 | -73.98015 | 1 | -0.683653962 |
| ## 10836 | 40.72467 | -73.98922 | 1 | -0.354446614 |
| ## 10837 | 40.77275 | -73.94917 | 1 | -0.707168773 |
| ## 10839 | 40.74204 | -73.99899 | 2 | 1.703099310 |
| ## 10841 | 40.72295 | -73.98487 | 1 | -0.413233640 |
| ## 10842 | 40.81140 | -73.95237 | 1 | -0.942316878 |
| ## 10844 | 40.82105 | -73.94588 | 2 | -0.354446614 |
| ## 10846 | 40.76937 | -73.95745 | 2 | 0.292210676 |
| ## 10847 | 40.75315 | -73.97175 | 2 | -0.354446614 |
| ## 10849 | 40.72345 | -73.98407 | 3 | 2.584904706 |
| ## 10851 | 40.76412 | -73.94800 | 1 | -0.824742825 |
| ## 10852 | 40.72759 | -73.98466 | 2 | 0.233423650 |
| ## 10854 | 40.72044 | -73.99646 | 1 | -0.577837314 |
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| ## 10864 | 40.79241 | -73.94058 | 2 | 0.057062571 |
| ## 10866 | 40.78207 | -73.94717 | 1 | -0.683653962 |
| ## 10867 | 40.79652 | -73.93323 | 1 | -0.119298508 |
| ## 10869 | 40.75044 | -73.99665 | 2 | -0.025239266 |
| ## 10871 | 40.77395 | -73.98786 | 2 | 0.703719861 |
| ## 10872 | 40.83520 | -73.94045 | 1 | -0.942316878 |
| ## 10874 | 40.72818 | -73.98925 | 1 | -0.413233640 |
| ## 10876 | 40.75830 | -73.98295 | 2 | 0.938867967 |
| ## 10877 | 40.72304 | -73.98089 | 1 | -0.060511482 |
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| ## 10881 | 40.77625 | -73.95208 | 2 | -0.060511482 |
| ## 10882 | 40.75832 | -73.99179 | 1 | -0.013481861 |

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| ## 10884 | 40.76002 | -73.98958 | 1 | -0.013481861 |
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| ## 10899 | 40.72589 | -73.97726 | 1 | -0.648381746 |
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| ## 10902 | 40.73673 | -74.00836 | 2 | 0.233423650 |
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| ## 10919 | 40.70492 | -74.00797 | 2 | 0.809536509 |
| ## 10921 | 40.73555 | -74.00737 | 1 | -0.178085535 |
| ## 10922 | 40.75856 | -73.99057 | 2 | 0.539116187 |
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| ## 11064 | 40.77255 | -73.95457 | 2 | -0.060511482 |
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| ## 11154 | 40.76044 | -73.99882 | 2 | 1.679584500 |
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| ## 11244 | 40.73820 | -73.99844 | 2 | 1.409164178 |
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| ## 11287 | 40.77205 | -73.95128 | 2 | 1.115229046 |
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| ## 11301 | 40.74946 | -73.97850 | 3 | -0.954074283 |
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| ## 11334 40.73741 -73.98096 | 2 | 1.009412399 |
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| ## 11886 | 40.82397 | -73.95453 | 1 | -0.883529852 |
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| ## 11889 | 40.75219 | -73.98380 | 1 | 4.219184040 |
| ## 11891 | 40.85560 | -73.93245 | 1 | -1.118677957 |
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| ## 11901 | 40.78901 | -73.98057 | 2 | 0.809536509 |
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| ## 11911 | 40.81264 | -73.94602 | 2 | 1.115229046 |
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| ## 11916 | 40.84063 | -73.93928 | 1 | -0.883529852 |
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| ## 11919 | 40.72440 | -73.99884 | 1 | 0.456814350 |
| ## 11921 | 40.84482 | -73.94029 | 2 | 0.104092192 |
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| ## 11964 | 40.79772 | -73.94809 | 1 | -0.648381746 |
| ## 11966 | 40.74025 | -74.00066 | 2 | 3.172774970 |
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| ## 11972 | 40.74727 | -74.00261 | 2 | 0.644932835 |
| ## 11974 | 40.71989 | -74.00465 | 2 | 4.313243283 |
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| ## 11977 | 40.75575 | -73.99374 | 1 | 0.527358782 |
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| ## 11984 | 40.76008 | -73.98946 | 1 | 0.527358782 |
| ## 11986 | 40.72364 | -73.99577 | 2 | 0.821293914 |
| ## 11987 | 40.78951 | -73.94605 | 2 | 0.762506888 |
| ## 11989 | 40.72591 | -74.00396 | 2 | 1.115229046 |
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| ## 11992 | 40.76615 | -73.97118 | 2 | 1.056442020 |
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| ## 11997 | 40.83734 | -73.94506 | 2 | -0.119298508 |
| ## 11999 | 40.72336 | -73.98079 | 2 | 0.033547760 |
| ## 12001 | 40.75697 | -73.97909 | 2 | 1.467951205 |
| ## 12002 | 40.80486 | -73.94889 | 2 | 1.115229046 |
| ## 12004 | 40.74143 | -74.00027 | 2 | 0.339240298 |
| ## 12006 | 40.76173 | -73.99325 | 2 | -0.001724456 |
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| ## 12054 | 40.76270 | -73.96225 | 1 | -0.472020667 |
| ## 12056 | 40.73103 | -74.00141 | 2 | -0.119298508 |
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| ## 12091 | 40.72291 | -73.98915 | 1 | -0.695411367 |
| ## 12092 | 40.75117 | -73.99305 | 1 | 0.292210676 |
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| ## 12144 | 40.72734 | -73.97203 | 1 | -0.765955799 |
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| ## 12179 | 40.75979 | -73.98953 | 2 | 3.113987944 |
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| ## 12201 | 40.73539 | -73.99547 | 2 | 4.172154419 |
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| ## 12234 | 40.80219 | -73.94383 | 1 | 0.233423650 |
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| ## 12279 | 40.84110 | -73.93751 | 1 | -0.942316878 |
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| ## 12289 | 40.79722 | -73.96205 | 1 | -0.942316878 |
| ## 12291 | 40.74696 | -73.97460 | 2 | 1.409164178 |
| ## 12292 | 40.70430 | -74.00923 | 2 | 1.997034442 |
| ## 12294 | 40.82771 | -73.94699 | 2 | -0.589594720 |
| ## 12296 | 40.79010 | -73.95053 | 2 | 0.021790355 |
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| ## 12301 | 40.71441 | -73.98655 | 1 | -0.354446614 |
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| ## 12324 | 40.74785 | -73.96967 | 1 | 0.762506888 |
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| ## 12366 | 40.73702 | -73.98824 | 2 | 0.762506888 |
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| ## 12377 | 40.80487 | -73.95752 | 2 | -0.472020667 |
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| ## 12382 | 40.73322 | -73.99762 | 2 | 2.232182548 |
| ## 12384 | 40.76814 | -73.95604 | 1 | -0.366204019 |
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| ## 12389 | 40.74566 | -73.98126 | 2 | 1.385649368 |
| ## 12391 | 40.81244 | -73.95261 | 1 | -0.742440988 |
| ## 12392 | 40.77141 | -73.94985 | 2 | 0.233423650 |
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| ## 12397 | 40.73607 | -74.00373 | 2 | 0.233423650 |
| ## 12399 | 40.71799 | -73.99640 | 2 | -0.060511482 |
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| ## 12404 | 40.73506 | -73.99743 | 2 | 3.172774970 |
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| ## 12426 | 40.76285 | -73.98728 | 1 | -0.295659588 |
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| ## 12436 | 40.80639 | -73.94834 | 2 | -0.566079909 |
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| ## 12451 | 40.80039 | -73.93610 | 2 | 0.409784729 |
| ## 12452 | 40.72594 | -74.00136 | 1 | 0.586145808 |
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| ## 12471 | 40.80279 | -73.94450 | 1 | -1.024618715 |
| ## 12472 | 40.82592 | -73.93911 | 1 | -0.530807693 |
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| ## 12476 | 40.76250 | -73.99778 | 2 | 2.584904706 |
| ## 12477 | 40.72486 | -73.98241 | 2 | 0.115849597 |
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| ## 12496 | 40.81529 | -73.94367 | 2 | -0.001724456 |
| ## 12497 | 40.71532 | -73.99903 | 2 | 0.233423650 |
| ## 12499 | 40.73445 | -73.98423 | 2 | 1.056442020 |
| ## 12501 | 40.77710 | -73.95020 | 2 | 1.350377152 |
| ## 12502 | 40.77746 | -73.95043 | 2 | 0.057062571 |

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| ## 12504 40.72504 -73.98327 | 2 0.233423650 |
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| ## 12507 40.72516 -74.00242 | 2 0.821293914 |
| ## 12509 40.77654 -73.97694 | 2 3.172774970 |
| ## 12511 40.80379 -73.95257 | 2 -0.295659588 |
| ## 12512 40.76327 -73.96197 | 2 0.938867967 |
| ## 12514 40.79760 -73.93388 | 2 0.468571756 |
| ## 12516 40.72299 -73.97809 | 3 -1.036376120 |
| ## 12517 40.70711 -74.01526 | 1 -0.001724456 |
| ## 12519 40.75071 -74.00247 | 1 -0.542565099 |
| ## 12521 40.72347 -73.99302 | 1 -0.707168773 |
| ## 12522 40.84385 -73.94324 | 2 -0.648381746 |
| ## 12524 40.76684 -73.98539 | 1 -0.507292883 |
| ## 12526 40.79733 -73.93695 | 1 -0.648381746 |
| ## 12527 40.76384 -73.99309 | 1 -0.765955799 |
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| ## 12532 40.72345 -74.01001 | 2 1.985277037 |
| ## 12534 40.81991 -73.95248 | 1 -0.648381746 |
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| ## 12594 | 40.74989 | -73.98231 | 1 | -0.354446614 |
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| ## 12614 | 40.74077 | -73.98718 | 1 | -0.013481861 |
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| ## 12632 | 40.84777 | -73.94241 | 2 | 0.350997703 |
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| ## 12684 40.79005 -73.94929 | 2 -0.236872561 |
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| ## 12709 40.81309 -73.95336 | 1 -1.153950173 |
| ## 12711 40.79937 -73.96281 | 1 -0.354446614 |
| ## 12712 40.73955 -73.99775 | 2 1.174016072 |
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| ## 12716 40.72015 -73.98376 | 2 3.360893455 |
| ## 12717 40.79787 -73.96880 | 2 -0.366204019 |
| ## 12719 40.74776 -74.00238 | 2 -0.648381746 |
| ## 12721 40.83558 -73.94040 | 1 -1.083405742 |
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| ## 12749 40.77287 -73.95897 | 1 0.527358782 |
| ## 12751 40.78610 -73.97097 | 2 0.468571756 |
| ## 12752 40.77340 -73.98684 | 1 -0.119298508 |
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| ## 12766 40.82389 -73.95014 | 1 -0.965831689 |
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| ## 12774 | 40.73951 | -73.99979 | 2 | -0.178085535 |
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| ## 12784 | 40.74376 | -73.99313 | 2 | 1.056442020 |
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| ## 12791 | 40.73307 | -73.98347 | 2 | 0.233423650 |
| ## 12792 | 40.75040 | -73.97759 | 2 | 0.821293914 |
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| ## 12809 | 40.72073 | -73.99290 | 2 | 1.761886337 |
| ## 12811 | 40.72011 | -73.99535 | 1 | -0.060511482 |
| ## 12812 | 40.85210 | -73.93958 | 2 | -0.236872561 |
| ## 12814 | 40.70351 | -74.01266 | 2 | 0.409784729 |
| ## 12816 | 40.76805 | -73.96765 | 2 | 0.456814350 |
| ## 12817 | 40.78941 | -73.97167 | 2 | 0.174636624 |
| ## 12819 | 40.78694 | -73.97218 | 2 | -0.354446614 |
| ## 12821 | 40.70764 | -74.00077 | 1 | -0.836500231 |
| ## 12822 | 40.74698 | -73.98906 | 1 | -0.236872561 |
| ## 12824 | 40.76365 | -73.96683 | 2 | 1.703099310 |
| ## 12826 | 40.72753 | -73.98412 | 2 | 0.703719861 |
| ## 12827 | 40.83618 | -73.94443 | 1 | -0.824742825 |
| ## 12829 | 40.77233 | -73.95321 | 2 | 0.468571756 |
| ## 12831 | 40.76482 | -73.97965 | 1 | 1.997034442 |
| ## 12832 | 40.77798 | -73.95153 | 2 | -0.131055914 |
| ## 12834 | 40.76274 | -73.99321 | 2 | -0.119298508 |
| ## 12836 | 40.77251 | -73.95113 | 3 | -0.648381746 |
| ## 12837 | 40.74286 | -73.99847 | 1 | -0.542565099 |
| ## 12839 | 40.74779 | -73.98734 | 2 | 1.056442020 |
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| ## 12852 | 40.71889 | -73.99686 | 2 | 3.172774970 |
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| ## 12856 | 40.74142 | -74.00250 | 2 | 0.233423650 |
| ## 12857 | 40.72968 | -73.98073 | 2 | 2.584904706 |
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| ## 12864 | 40.82089 | -73.95018 | 1 | -0.765955799 |
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| ## 13044 | 40.83705 | -73.93843 | 1 | -0.883529852 |
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| ## 13314 40.73780 -74.00620 | 2 0.209908839 |
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| ## 13384 40.72421 -73.98025 | 1 -0.354446614 |
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| ## 13401 40.76710 -73.98744 | 2 1.115229046 |
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| ## 13404 | 40.72969 | -74.00697 | 2 | 0.821293914 |
| ## 13406 | 40.77768 | -73.94951 | 1 | -0.354446614 |
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| ## 13426 | 40.84695 | -73.93593 | 1 | -0.942316878 |
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| ## 13429 | 40.79770 | -73.93493 | 2 | 1.409164178 |
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| ## 13477 | 40.78028 | -73.94769 | 2 | 0.233423650 |
| ## 13479 | 40.72547 | -73.99284 | 2 | 0.644932835 |
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| ## 13527 | 40.71113 | -73.98840 | 3 | -1.142192768 |
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| ## 13557 | 40.70690 | -74.01388 | 1 | -0.413233640 |
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| ## 13582 | 40.75864 | -73.97035 | 2 | 0.821293914 |

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| ## 13584 | 40.79694 | -73.96268 | 1 | -0.589594720 |
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| ## 13619 | 40.70401 | -74.00932 | 2 | 0.574388403 |
| ## 13621 | 40.76914 | -73.98757 | 2 | 0.586145808 |
| ## 13622 | 40.76592 | -73.98095 | 1 | -0.060511482 |
| ## 13624 | 40.70518 | -74.00994 | 2 | 0.609660619 |
| ## 13626 | 40.73272 | -74.00623 | 2 | 0.409784729 |
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| ## 13629 | 40.77181 | -73.95097 | 2 | 0.809536509 |
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| ## 13651 | 40.73992 | -73.98272 | 2 | 0.821293914 |
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| ## 13674 40.71953 -73.99685 | 1 -0.236872561 |
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| ## 13702 40.72580 -73.97963 | 2 2.349756601 |
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| ## 13749 40.82996 -73.94490 | 1 -0.718926178 |
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| ## 13752 40.80670 -73.94481 | 2 0.468571756 |
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| ## 13764 | 40.75996 | -73.99223 | 2 | 0.115849597 |
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| ## 13801 | 40.79372 | -73.93552 | 2 | 0.233423650 |
| ## 13802 | 40.75971 | -73.98639 | 2 | 2.432058438 |
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| ## 13821 | 40.78769 | -73.94691 | 1 | -0.636624341 |
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| ## 13852 | 40.75541 | -73.99502 | 1 | 0.303968082 |

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| ## 13854 | 40.73773 | -73.98322 | 2 | 1.409164178 |
| ## 13856 | 40.79190 | -73.94562 | 1 | -0.530807693 |
| ## 13857 | 40.72823 | -73.98425 | 1 | -0.354446614 |
| ## 13859 | 40.75196 | -73.97148 | 2 | 2.455573248 |
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| ## 13862 | 40.81626 | -73.95862 | 1 | -0.354446614 |
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| ## 13866 | 40.80321 | -73.96463 | 1 | -1.118677957 |
| ## 13867 | 40.78460 | -73.97315 | 2 | -0.366204019 |
| ## 13869 | 40.75788 | -73.99198 | 2 | 1.632554878 |
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| ## 13872 | 40.72768 | -73.99917 | 2 | 3.290349023 |
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| ## 13877 | 40.71418 | -74.00676 | 2 | 3.760645234 |
| ## 13879 | 40.71766 | -73.99827 | 1 | -0.236872561 |
| ## 13881 | 40.73139 | -73.98791 | 2 | 2.584904706 |
| ## 13882 | 40.73609 | -73.98595 | 2 | 0.174636624 |
| ## 13884 | 40.76870 | -73.98742 | 1 | -0.530807693 |
| ## 13886 | 40.77735 | -73.96222 | 2 | 3.466710102 |
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| ## 13889 | 40.80630 | -73.95548 | 1 | -0.530807693 |
| ## 13891 | 40.72852 | -73.99009 | 1 | 0.233423650 |
| ## 13892 | 40.75523 | -73.96367 | 1 | -0.248629967 |
| ## 13894 | 40.75215 | -73.97152 | 2 | -0.554322504 |
| ## 13896 | 40.71970 | -73.99747 | 1 | -0.707168773 |
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| ## 13922 | 40.74454 | -73.97339 | 2 | 0.903595751 |
| ## 13924 | 40.80109 | -73.96523 | 1 | -0.366204019 |
| ## 13926 | 40.76464 | -73.99006 | 3 | -0.718926178 |
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| ## 13936 | 40.73308 | -74.00456 | 2 | 0.315725487 |
| ## 13937 | 40.74483 | -73.97956 | 2 | -0.060511482 |
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| ## 13941 | 40.84501 | -73.93861 | 1 | -1.059890931 |
| ## 13942 | 40.73281 | -74.00205 | 2 | 2.290969574 |

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| ## 13944 | 40.80462 | -73.95622 | 2 | 0.586145808 |
| ## 13946 | 40.78488 | -73.97630 | 2 | 0.221666245 |
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| ## 13971 | 40.84287 | -73.94093 | 1 | -1.024618715 |
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| ## 13981 | 40.71714 | -73.99229 | 2 | 0.821293914 |
| ## 13982 | 40.82441 | -73.95327 | 1 | -0.354446614 |
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| ## 14001 | 40.79468 | -73.96470 | 1 | -0.377961425 |
| ## 14002 | 40.76770 | -73.95476 | 3 | -0.707168773 |
| ## 14004 | 40.73416 | -74.00424 | 2 | 0.656690240 |
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| ## 14009 | 40.76996 | -73.95760 | 2 | 0.092334787 |
| ## 14011 | 40.72700 | -73.98406 | 2 | 2.584904706 |
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| ## 14031 | 40.74907 | -73.97818 | 1 | -0.119298508 |
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| ## 14034 | 40.81207 | -73.94359 | 1 | -0.918802068 |
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| ## 14071 | 40.82952 | -73.94764 | 2 | -0.295659588 |
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| ## 14074 | 40.74267 | -73.99971 | 2 | 1.985277037 |
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| ## 14077 | 40.72580 | -74.00150 | 1 | -1.001103905 |
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| ## 14124 | 40.75859 | -73.99195 | 1 | -1.071648336 |
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| ## 14151 | 40.72712 | -74.00065 | 2 | 3.090473133 |
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| ## 14154 | 40.72811 | -73.98824 | 1 | 1.820673363 |
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| ## 14157 | 40.76591 | -73.97886 | 2 | 2.385028816 |
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| ## 14162 | 40.777844 | -73.94728 | 2 | -0.060511482 |
| ## 14164 | 40.76907 | -73.98814 | 1 | -0.366204019 |
| ## 14166 | 40.73434 | -73.99963 | 2 | 1.174016072 |
| ## 14167 | 40.82314 | -73.94245 | 1 | -0.389718830 |
| ## 14169 | 40.82461 | -73.95269 | 1 | -0.824742825 |
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| ## 14176 | 40.72718 | -73.98798 | 1 | -0.824742825 |
| ## 14177 | 40.73867 | -74.00383 | 2 | 1.997034442 |
| ## 14179 | 40.72844 | -74.00025 | 1 | -0.354446614 |
| ## 14181 | 40.75233 | -73.99410 | 2 | 1.514980826 |
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| ## 14194 | 40.86833 | -73.92291 | 2 | -0.530807693 |
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| ## 14197 | 40.79580 | -73.97163 | 1 | -0.718926178 |
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| ## 14201 | 40.76361 | -73.98847 | 1 | 0.292210676 |
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| ## 14204 | 40.80724 | -73.96677 | 2 | 1.409164178 |
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| ## 14212 | 40.76418 | -73.99448 | 1 | -0.707168773 |

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| ## 14214 | 40.72202 | -73.98922 | 2 | 0.174636624 |
| ## 14216 | 40.71829 | -73.99780 | 2 | 0.515601377 |
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| ## 14219 | 40.72980 | -73.99838 | 2 | 1.867702984 |
| ## 14221 | 40.81863 | -73.95771 | 2 | 0.468571756 |
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| ## 14226 | 40.71826 | -73.99671 | 2 | 0.303968082 |
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| ## 14231 | 40.79750 | -73.97099 | 1 | -0.660139151 |
| ## 14232 | 40.79838 | -73.97076 | 1 | 1.291590125 |
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| ## 14237 | 40.74419 | -73.97186 | 2 | 0.668447645 |
| ## 14239 | 40.76451 | -73.96744 | 2 | 1.397406773 |
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| ## 14249 | 40.75418 | -73.99644 | 1 | 0.233423650 |
| ## 14251 | 40.70747 | -74.00663 | 2 | 2.102851090 |
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| ## 14254 | 40.75973 | -73.98815 | 3 | -0.765955799 |
| ## 14256 | 40.77055 | -73.95509 | 2 | 0.233423650 |
| ## 14257 | 40.75016 | -73.96925 | 2 | 0.527358782 |
| ## 14259 | 40.71778 | -73.99801 | 1 | -0.460263262 |
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| ## 14266 | 40.86347 | -73.92287 | 1 | -0.942316878 |
| ## 14267 | 40.74953 | -73.98010 | 1 | -0.119298508 |
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| ## 14271 | 40.73886 | -74.00413 | 2 | 0.821293914 |
| ## 14272 | 40.70494 | -74.00806 | 1 | 0.233423650 |
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| ## 14277 | 40.76570 | -73.98075 | 2 | 3.172774970 |
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| ## 14286 | 40.74431 | -73.98196 | 2 | 2.584904706 |
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| ## 14289 | 40.75505 | -73.99531 | 1 | -0.119298508 |
| ## 14291 | 40.75030 | -73.97605 | 2 | 0.821293914 |
| ## 14292 | 40.78610 | -73.95434 | 1 | -0.589594720 |
| ## 14294 | 40.72292 | -74.00456 | 2 | 1.997034442 |
| ## 14296 | 40.72119 | -73.98339 | 2 | -0.601352125 |
| ## 14297 | 40.777860 | -73.97578 | 2 | 2.584904706 |
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| ## 14301 | 40.74843 | -73.98259 | 2 | 0.233423650 |
| ## 14302 | 40.78978 | -73.94138 | 2 | -0.472020667 |

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| ## 14304 | 40.71452 | -73.98201 | 2 | 1.115229046 |
| ## 14306 | 40.75577 | -73.99687 | 1 | -0.119298508 |
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| ## 14311 | 40.78023 | -73.95069 | 3 | -0.236872561 |
| ## 14312 | 40.72777 | -73.98568 | 1 | -0.366204019 |
| ## 14314 | 40.75561 | -73.99543 | 1 | -0.883529852 |
| ## 14316 | 40.73557 | -73.98038 | 2 | 0.233423650 |
| ## 14317 | 40.79392 | -73.97288 | 2 | -0.131055914 |
| ## 14319 | 40.74444 | -73.97355 | 2 | 0.644932835 |
| ## 14321 | 40.78866 | -73.95070 | 2 | 1.409164178 |
| ## 14322 | 40.76322 | -73.99253 | 2 | 1.820673363 |
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| ## 14326 | 40.72521 | -73.98316 | 2 | -0.119298508 |
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| ## 14332 | 40.74154 | -73.99527 | 2 | 1.409164178 |
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| ## 14336 | 40.71737 | -73.99861 | 2 | 3.172774970 |
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| ## 14394 | 40.79972 | -73.96281 | 1 | -0.636624341 |
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| ## 14416 | 40.72307 | -73.98437 | 1 | -0.483778072 |
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| ## 14427 | 40.72382 | -73.97683 | 1 | -0.236872561 |
| ## 14429 | 40.83298 | -73.93938 | 1 | -0.707168773 |
| ## 14431 | 40.76663 | -73.96171 | 2 | -0.366204019 |
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| ## 14436 | 40.73611 | -74.00922 | 2 | 0.821293914 |
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| ## 14574 | 40.71694 | -73.99032 | 1 | -0.436748451 |
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| ## 14632 | 40.74312 | -73.99573 | 2 | 0.221666245 |
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| ## 14721 | 40.75632 | -73.96795 | 2 | 1.232803099 |
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| ## 14754 | 40.73768 | -73.99565 | 2 | 1.056442020 |
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| ## 14804 | 40.80907 | -73.94444 | 1 | -0.824742825 |
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| ## 14819 | 40.72951 | -73.98576 | 2 | -0.119298508 |
| ## 14821 | 40.78899 | -73.95204 | 1 | 0.233423650 |
| ## 14822 | 40.82789 | -73.93812 | 1 | -0.824742825 |
| ## 14824 | 40.74211 | -73.97887 | 2 | 0.139364408 |
| ## 14826 | 40.73762 | -74.00200 | 2 | 3.172774970 |
| ## 14827 | 40.74104 | -73.98134 | 2 | 0.233423650 |
| ## 14829 | 40.73995 | -73.98401 | 2 | 0.233423650 |
| ## 14831 | 40.75216 | -73.97351 | 2 | 2.455573248 |
| ## 14832 | 40.75255 | -74.00118 | 2 | 2.584904706 |
| ## 14834 | 40.76228 | -73.99026 | 2 | 0.762506888 |
| ## 14836 | 40.75906 | -73.99321 | 2 | 0.339240298 |
| ## 14837 | 40.79836 | -73.94272 | 1 | -0.954074283 |
| ## 14839 | 40.71815 | -73.98858 | 2 | 0.233423650 |
| ## 14841 | 40.81709 | -73.94217 | 2 | -0.354446614 |
| ## 14842 | 40.74912 | -73.99739 | 2 | -0.436748451 |

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| ## 14844 | 40.81756 | -73.94099 | 2 | -0.519050288 |
| ## 14846 | 40.71880 | -73.98554 | 2 | 0.644932835 |
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| ## 14849 | 40.79099 | -73.97293 | 1 | 1.174016072 |
| ## 14851 | 40.74673 | -73.98499 | 2 | 1.409164178 |
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| ## 14854 | 40.82923 | -73.93764 | 1 | -0.119298508 |
| ## 14856 | 40.777979 | -73.98513 | 2 | 0.057062571 |
| ## 14857 | 40.72159 | -73.98959 | 2 | 0.786021698 |
| ## 14859 | 40.73028 | -73.98165 | 2 | 0.115849597 |
| ## 14861 | 40.82424 | -73.95540 | 1 | -0.707168773 |
| ## 14862 | 40.73639 | -73.99318 | 1 | 0.821293914 |
| ## 14864 | 40.80116 | -73.96088 | 1 | -0.718926178 |
| ## 14866 | 40.70761 | -74.00513 | 2 | 1.926490010 |
| ## 14867 | 40.73215 | -73.98660 | 2 | 1.115229046 |
| ## 14869 | 40.76164 | -73.99804 | 2 | 1.279832720 |
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| ## 14886 | 40.80722 | -73.94910 | 2 | 0.339240298 |
| ## 14887 | 40.71586 | -73.98908 | 2 | 0.821293914 |
| ## 14889 | 40.79560 | -73.97219 | 1 | -0.472020667 |
| ## 14891 | 40.75355 | -73.97352 | 1 | 3.172774970 |
| ## 14892 | 40.78954 | -73.95076 | 1 | -0.236872561 |
| ## 14894 | 40.85711 | -73.93004 | 1 | -0.648381746 |
| ## 14896 | 40.79884 | -73.94240 | 3 | -0.954074283 |
| ## 14897 | 40.76209 | -73.99875 | 2 | 1.997034442 |
| ## 14899 | 40.80033 | -73.94100 | 3 | -0.824742825 |
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| ## 14909 | 40.74863 | -73.98291 | 1 | 0.233423650 |
| ## 14911 | 40.74906 | -73.98454 | 1 | 0.057062571 |
| ## 14912 | 40.74858 | -73.98341 | 3 | -0.801228015 |
| ## 14914 | 40.79689 | -73.96289 | 2 | 0.221666245 |
| ## 14916 | 40.72725 | -74.00128 | 2 | 2.584904706 |
| ## 14917 | 40.76398 | -73.99087 | 2 | 1.409164178 |
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| ## 14934 | 40.76537 | -73.96380 | 2 | 1.997034442 |
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| ## 14939 | 40.75734 | -73.96727 | 2 | 0.233423650 |
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| ## 14942 | 40.73213 | -74.00865 | 1 | -0.354446614 |
| ## 14944 | 40.75498 | -73.96426 | 2 | 0.962382777 |
| ## 14946 | 40.71815 | -73.98213 | 1 | 3.172774970 |
| ## 14947 | 40.70788 | -74.00459 | 2 | 0.633175430 |
| ## 14949 | 40.71810 | -74.00999 | 1 | 0.786021698 |
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| ## 14961 | 40.74813 | -74.00478 | 1 | 1.997034442 |
| ## 14962 | 40.76043 | -73.97075 | 1 | 0.233423650 |
| ## 14964 | 40.78057 | -73.95186 | 2 | 1.385649368 |
| ## 14966 | 40.75142 | -73.97049 | 2 | 0.938867967 |
| ## 14967 | 40.76399 | -73.98077 | 1 | 0.104092192 |
| ## 14969 | 40.73947 | -73.98470 | 2 | 3.172774970 |
| ## 14971 | 40.84660 | -73.93432 | 1 | -0.824742825 |
| ## 14972 | 40.79372 | -73.97431 | 2 | 0.115849597 |
| ## 14974 | 40.80672 | -73.94993 | 1 | -0.707168773 |
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| ## 14979 | 40.81094 | -73.94273 | 1 | -1.106920552 |
| ## 14981 | 40.81758 | -73.94188 | 1 | -0.765955799 |
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| ## 14984 | 40.79329 | -73.94725 | 1 | -0.671896557 |
| ## 14986 | 40.79300 | -73.94125 | 1 | -0.119298508 |
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| ## 14989 | 40.74775 | -73.98226 | 1 | -0.483778072 |
| ## 14991 | 40.78870 | -73.94140 | 1 | -0.472020667 |
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| ## 14994 | 40.72882 | -73.97807 | 1 | -0.589594720 |
| ## 14996 | 40.76543 | -73.98871 | 2 | 4.336758093 |
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| ## 15006 | 40.82867 | -73.94561 | 1 | -0.589594720 |
| ## 15007 | 40.72795 | -73.97768 | 2 | 1.115229046 |
| ## 15009 | 40.72490 | -73.98026 | 2 | 1.409164178 |
| ## 15011 | 40.76708 | -73.98295 | 1 | 1.644312284 |
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| ## 15024 40.72744 -73.98310 | 2 | 0.927110562 |
| ## 15026 40.73861 -74.00467 | 2 | 0.997654993 |
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| ## 15034 40.74365 -73.97928 | 2 | 1.056442020 |
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| ## 15037 40.74517 -73.98924 | 1 | -0.765955799 |
| ## 15039 40.78162 -73.97530 | 2 | 0.527358782 |
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| ## 15044 40.78786 -73.96837 | 2 | 0.527358782 |
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| ## 15059 40.74657 -73.97539 | 2 | 1.761886337 |
| ## 15061 40.73449 -73.98473 | 2 | 1.409164178 |
| ## 15062 40.79726 -73.93164 | 1 | -0.754198394 |
| ## 15064 40.75819 -73.99347 | 2 | 0.233423650 |
| ## 15066 40.79610 -73.94366 | 1 | -0.354446614 |
| ## 15067 40.72244 -73.98194 | 2 | -0.119298508 |
| ## 15069 40.78333 -73.98089 | 2 | 0.809536509 |
| ## 15071 40.74433 -73.97416 | 2 | 0.233423650 |
| ## 15072 40.81084 -73.94482 | 2 | 1.115229046 |
| ## 15074 40.78517 -73.97672 | 2 | 0.233423650 |
| ## 15076 40.82162 -73.94902 | 3 | -1.001103905 |
| ## 15077 40.80281 -73.94748 | 2 | 0.350997703 |
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| ## 15082 40.78932 -73.95343 | 1 | 0.233423650 |
| ## 15084 40.74747 -73.98668 | 2 | 1.526738231 |
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| ## 15089 40.72249 -74.00385 | 1 | 0.762506888 |
| ## 15091 40.82266 -73.95481 | 1 | -0.707168773 |
| ## 15092 40.75534 -73.99668 | 1 | -0.648381746 |
| ## 15094 40.78380 -73.97858 | 2 | 1.409164178 |
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| ## 15097 40.78315 -73.94693 | 2 | 0.809536509 |
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| ## 15102 40.72177 -73.98898 | 2 | 1.997034442 |
| ## 15104 40.86319 -73.92672 | 1 | -0.824742825 |
| ## 15106 40.81835 -73.93925 | 1 | -0.519050288 |
| ## 15107 40.79706 -73.93473 | 2 | 1.409164178 |
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| ## 15111 40.71789 -73.99581 | 1 | -0.648381746 |
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| ## 15114 | 40.79916 | -73.93959 | 2 | -0.060511482 |
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| ## 15119 | 40.71167 | -74.00749 | 2 | 0.115849597 |
| ## 15121 | 40.72936 | -73.98093 | 2 | 2.526117680 |
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| ## 15124 | 40.76438 | -73.98955 | 1 | -0.530807693 |
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| ## 15127 | 40.71768 | -73.99068 | 2 | 0.821293914 |
| ## 15129 | 40.78132 | -73.95148 | 2 | -0.836500231 |
| ## 15131 | 40.82240 | -73.94241 | 1 | -0.707168773 |
| ## 15132 | 40.75545 | -73.99652 | 1 | -0.119298508 |
| ## 15134 | 40.85035 | -73.93250 | 2 | -0.589594720 |
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| ## 15137 | 40.70438 | -74.01708 | 2 | 1.562010447 |
| ## 15139 | 40.72778 | -73.98747 | 2 | 1.409164178 |
| ## 15141 | 40.73917 | -73.99412 | 2 | 0.280453271 |
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| ## 15144 | 40.76054 | -73.96425 | 1 | -0.648381746 |
| ## 15146 | 40.73389 | -73.98016 | 1 | -0.119298508 |
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| ## 15154 | 40.75928 | -73.98634 | 1 | -0.236872561 |
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| ## 15161 | 40.74420 | -73.97355 | 2 | 0.515601377 |
| ## 15162 | 40.80737 | -73.95055 | 1 | -0.707168773 |
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| ## 15167 | 40.75224 | -73.96526 | 2 | 3.748887829 |
| ## 15169 | 40.70498 | -74.00992 | 2 | 0.821293914 |
| ## 15171 | 40.79876 | -73.96053 | 1 | -0.248629967 |
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| ## 15174 | 40.73117 | -74.00232 | 1 | -0.048754077 |
| ## 15176 | 40.72617 | -73.98869 | 2 | 1.115229046 |
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| ## 15184 | 40.75570 | -73.99337 | 2 | 1.174016072 |
| ## 15186 | 40.81465 | -73.94265 | 1 | 0.233423650 |
| ## 15187 | 40.74197 | -73.98012 | 2 | 0.174636624 |
| ## 15189 | 40.76976 | -73.94956 | 2 | -0.060511482 |
| ## 15191 | 40.76102 | -73.98677 | 1 | -0.354446614 |
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| ## 15194 | 40.75510 | -73.96507 | 2 | 2.996413891 |
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| ## 15201 | 40.76825 | -73.98743 | 1 | 0.821293914 |
| ## 15202 | 40.76088 | -73.98971 | 2 | 2.584904706 |

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| ## 15204 40.82778 -73.94995 | 2 | 0.233423650 |
| ## 15206 40.73826 -73.98028 | 2 | 1.409164178 |
| ## 15207 40.76485 -73.98525 | 2 | 4.007550745 |
| ## 15209 40.75306 -73.96662 | 2 | 3.161017565 |
| ## 15211 40.71908 -73.99766 | 2 | 0.233423650 |
| ## 15212 40.74299 -73.99436 | 2 | 2.902354649 |
| ## 15214 40.80256 -73.95581 | 1 | -0.354446614 |
| ## 15216 40.76538 -73.98779 | 3 | -0.472020667 |
| ## 15217 40.82306 -73.94046 | 1 | -0.707168773 |
| ## 15219 40.73954 -73.98185 | 1 | 0.233423650 |
| ## 15221 40.74844 -73.97344 | 1 | -0.119298508 |
| ## 15222 40.82195 -73.93680 | 2 | 1.409164178 |
| ## 15224 40.77399 -73.97861 | 1 | 0.115849597 |
| ## 15226 40.77481 -73.95558 | 1 | -0.824742825 |
| ## 15227 40.72977 -73.98529 | 1 | -0.613109530 |
| ## 15229 40.73245 -73.98535 | 2 | 1.997034442 |
| ## 15231 40.74653 -73.98481 | 2 | 0.927110562 |
| ## 15232 40.74536 -73.97506 | 1 | 2.643691733 |
| ## 15234 40.74712 -73.98461 | 2 | 1.456193799 |
| ## 15236 40.82253 -73.95525 | 1 | -0.907044662 |
| ## 15237 40.72707 -73.98530 | 2 | 1.291590125 |
| ## 15239 40.82714 -73.93888 | 1 | -0.483778072 |
| ## 15241 40.72296 -73.98184 | 1 | 0.233423650 |
| ## 15242 40.74704 -73.97356 | 2 | 1.409164178 |
| ## 15244 40.73480 -73.99785 | 2 | 3.172774970 |
| ## 15246 40.80731 -73.94516 | 1 | -0.907044662 |
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| ## 15252 40.79517 -73.97392 | 2 | 1.997034442 |
| ## 15254 40.79933 -73.94283 | 1 | -0.836500231 |
| ## 15256 40.74256 -73.97912 | 1 | 0.057062571 |
| ## 15257 40.74894 -73.98673 | 2 | 0.468571756 |
| ## 15259 40.71618 -74.00608 | 2 | 1.785401147 |
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| ## 15262 40.77601 -73.95114 | 1 | -0.472020667 |
| ## 15264 40.80655 -73.93872 | 2 | 0.527358782 |
| ## 15266 40.76382 -73.98902 | 1 | -0.389718830 |
| ## 15267 40.74040 -74.00497 | 1 | -0.601352125 |
| ## 15269 40.72939 -73.98007 | 1 | -0.530807693 |
| ## 15271 40.75064 -73.99536 | 2 | 0.233423650 |
| ## 15272 40.72615 -73.98905 | 1 | 0.115849597 |
| ## 15274 40.79912 -73.94202 | 3 | -0.765955799 |
| ## 15276 40.71720 -74.00675 | 2 | 1.938247416 |
| ## 15277 40.78781 -73.94549 | 1 | -0.648381746 |
| ## 15279 40.76464 -73.98737 | 2 | 1.409164178 |
| ## 15281 40.83256 -73.94440 | 2 | -0.401476235 |
| ## 15282 40.81148 -73.95140 | 2 | 1.997034442 |
| ## 15284 40.79145 -73.93962 | 1 | -0.354446614 |
| ## 15286 40.79983 -73.94116 | 3 | -0.765955799 |
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| ## 15289 40.76591 -73.99493 | 2 | 1.997034442 |
| ## 15291 40.74580 -73.99570 | 2 | 0.115849597 |
| ## 15292 40.70815 -74.00438 | 2 | 0.809536509 |

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| ## 15296 | 40.72301 | -74.00490 | 2 | 0.233423650 |
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| ## 15301 | 40.80046 | -73.93677 | 2 | -0.836500231 |
| ## 15302 | 40.71862 | -73.99677 | 1 | -0.178085535 |
| ## 15304 | 40.75283 | -73.96736 | 2 | 2.820052812 |
| ## 15306 | 40.73046 | -73.98589 | 1 | -0.601352125 |
| ## 15307 | 40.73106 | -74.00301 | 1 | -0.060511482 |
| ## 15309 | 40.76021 | -73.99197 | 1 | -0.718926178 |
| ## 15311 | 40.72458 | -74.00312 | 1 | -0.354446614 |
| ## 15312 | 40.72443 | -73.98406 | 2 | 2.690721354 |
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| ## 15782 | 40.73176 | -74.00428 | 2 | 0.574388403 |
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| ## 15817 | 40.78179 | -73.94693 | 2 | -0.366204019 |
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| ## 15924 40.76356 -73.98772 | 2 | 1.303347531 |
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| ## 15954 40.83901 -73.93802 | 2 | 0.809536509 |
| ## 15956 40.77064 -73.95124 | 2 | 0.233423650 |
| ## 15957 40.75638 -73.96750 | 1 | -0.354446614 |
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| ## 15961 40.72943 -74.00243 | 2 | 1.632554878 |
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| ## 16014 | 40.75665 | -73.99838 | 1 | -0.013481861 |
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| ## 16026 | 40.78318 | -73.97372 | 2 | -0.001724456 |
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| ## 16052 | 40.74337 | -73.99423 | 1 | -0.530807693 |
| ## 16054 | 40.74430 | -73.99056 | 2 | 1.115229046 |
| ## 16056 | 40.80289 | -73.95813 | 1 | -0.789470609 |
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| ## 16061 | 40.73313 | -73.99692 | 2 | 1.985277037 |
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| ## 16079 | 40.75491 | -73.99644 | 1 | 0.809536509 |
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| ## 16144 | 40.73949 | -73.98552 | 2 | 0.938867967 |
| ## 16146 | 40.74277 | -74.00204 | 2 | 2.173395521 |
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| ## 16156 | 40.76052 | -73.99241 | 1 | -0.248629967 |
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| ## 16176 | 40.71478 | -74.01161 | 2 | 1.761886337 |
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| ## 16241 | 40.82932 | -73.94696 | 2 | -0.131055914 |
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| ## 16607 | 40.70822 | -74.00885 | 1 | 0.586145808 |
| ## 16609 | 40.75634 | -73.96519 | 2 | 1.115229046 |
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| ## 16622 | 40.77221 | -73.95528 | 1 | -0.601352125 |
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| ## 16626 | 40.84658 | -73.93979 | 2 | 0.821293914 |
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| ## 16632 | 40.72213 | -73.98122 | 2 | 2.584904706 |
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| ## 16816 40.74098 -73.98331 | 2 -0.001724456 |
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| ## 16824 40.76850 -73.99128 | 2 3.172774970 |
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| ## 16829 40.79022 -73.94710 | 1 -0.354446614 |
| ## 16831 40.82179 -73.95283 | 1 -0.883529852 |
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| ## 16837 40.85257 -73.94161 | 2 0.350997703 |
| ## 16839 40.76769 -73.98649 | 1 0.115849597 |
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| ## 16842 40.82219 -73.95381 | 1 -0.483778072 |
| ## 16844 40.72956 -73.99860 | 2 0.139364408 |
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| ## 16847 40.75589 -73.99642 | 1 1.397406773 |
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| ## 16881 40.72373 -73.97534 | 1 -0.354446614 |
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| ## 16931 | 40.72293 | -73.98777 | 2 | 0.151121813 |
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| ## 16987 | 40.74412 | -73.99684 | 2 | 1.703099310 |
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| ## 16999 | 40.76325 | -73.99012 | 2 | 0.809536509 |
| ## 17001 | 40.76425 | -73.98020 | 1 | 1.997034442 |
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| ## 17004 40.76358 -73.99361 | 1 0.115849597 |
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| ## 17012 40.79430 -73.95003 | 1 -0.166328130 |
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| ## 17016 40.75580 -73.99376 | 2 -0.178085535 |
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| ## 17021 40.79737 -73.93499 | 1 -0.354446614 |
| ## 17022 40.75660 -73.99725 | 2 0.104092192 |
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| ## 17027 40.71509 -74.00779 | 2 3.172774970 |
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| ## 17036 40.74618 -74.00569 | 1 -0.354446614 |
| ## 17037 40.78754 -73.94186 | 1 -0.648381746 |
| ## 17039 40.71805 -73.98675 | 2 1.115229046 |
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| ## 17044 40.73065 -73.98523 | 2 -0.495535477 |
| ## 17046 40.75225 -73.97132 | 1 1.997034442 |
| ## 17047 40.82964 -73.94271 | 2 -0.589594720 |
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| ## 17061 40.70744 -74.00819 | 2 1.044684614 |
| ## 17062 40.81859 -73.93997 | 1 -0.824742825 |
| ## 17064 40.77572 -73.95672 | 2 1.209288288 |
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| ## 17074 40.76666 -73.98358 | 2 1.115229046 |
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| ## 17079 40.83397 -73.94541 | 1 -1.118677957 |
| ## 17081 40.76473 -73.98131 | 2 1.115229046 |
| ## 17082 40.76263 -73.97664 | 2 1.985277037 |
| ## 17084 40.79660 -73.93345 | 1 -0.824742825 |
| ## 17086 40.81944 -73.93974 | 1 -0.707168773 |
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| ## 17131 | 40.71923 | -73.98935 | 2 | 0.821293914 |
| ## 17132 | 40.75636 | -73.99675 | 1 | 0.809536509 |
| ## 17134 | 40.78590 | -73.97230 | 2 | 1.997034442 |
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| ## 17137 | 40.72939 | -74.00064 | 1 | -0.589594720 |
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| ## 17142 | 40.77330 | -73.98913 | 1 | -0.942316878 |
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| ## 17146 | 40.71889 | -73.99231 | 2 | 1.467951205 |
| ## 17147 | 40.72963 | -74.00330 | 2 | 1.409164178 |
| ## 17149 | 40.75412 | -73.98601 | 2 | -0.131055914 |
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| ## 17156 | 40.74826 | -73.98887 | 1 | 1.056442020 |
| ## 17157 | 40.79385 | -73.96351 | 2 | -0.119298508 |
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| ## 17179 | 40.71494 | -74.00676 | 2 | 2.573147301 |
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| ## 17184 | 40.75124 | -73.99523 | 2 | -0.354446614 |
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| ## 17206 | 40.80492 | -73.95817 | 1 | -0.836500231 |
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| ## 17302 | 40.70760 | -74.000740 | 2 | 2.102851090 |
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| ## 17317 | 40.72026 | -73.98787 | 1 | -0.589594720 |
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| ## 17327 | 40.72813 | -73.99258 | 2 | 3.172774970 |
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| ## 17389 | 40.75951 | -73.99455 | 2 | 1.174016072 |
| ## 17391 | 40.76638 | -73.98311 | 1 | -0.354446614 |
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| ## 17426 | 40.73847 | -74.00620 | 2 | 0.527358782 |
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| ## 17434 | 40.70649 | -74.01227 | 2 | 2.902354649 |
| ## 17436 | 40.70789 | -74.01229 | 2 | 1.221045694 |
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| ## 17451 | 40.70584 | -74.01045 | 2 | 0.644932835 |
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| ## 17471 40.70702 -74.01087 | 2 | 1.244560504 |
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| ## 17519 40.79795 -73.93448 | 1 | -0.624866936 |
| ## 17521 40.76299 -73.98994 | 2 | 0.468571756 |
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| ## 17534 40.73674 -74.00556 | 2 | -0.001724456 |
| ## 17536 40.85197 -73.92853 | 2 | -0.660139151 |
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| ## 17544 | 40.76099 | -73.99554 | 2 | 0.350997703 |
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| ## 17561 | 40.74271 | -73.97533 | 2 | 0.927110562 |
| ## 17562 | 40.70399 | -74.00908 | 2 | 2.067578874 |
| ## 17564 | 40.72847 | -74.00094 | 2 | 0.821293914 |
| ## 17566 | 40.82760 | -73.94457 | 1 | -0.848257636 |
| ## 17567 | 40.76188 | -73.99925 | 2 | 1.409164178 |
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| ## 17572 | 40.83591 | -73.94033 | 1 | -0.648381746 |
| ## 17574 | 40.80419 | -73.96603 | 2 | 0.586145808 |
| ## 17576 | 40.79876 | -73.93802 | 1 | -0.624866936 |
| ## 17577 | 40.81213 | -73.93752 | 2 | -0.413233640 |
| ## 17579 | 40.76142 | -73.98987 | 2 | 0.586145808 |
| ## 17581 | 40.74458 | -74.00644 | 3 | 0.586145808 |
| ## 17582 | 40.85326 | -73.93813 | 2 | -0.589594720 |
| ## 17584 | 40.77914 | -73.95049 | 2 | -0.354446614 |
| ## 17586 | 40.72704 | -73.98916 | 1 | -0.883529852 |
| ## 17587 | 40.72586 | -73.98874 | 1 | -0.883529852 |
| ## 17589 | 40.74697 | -73.97537 | 2 | 1.785401147 |
| ## 17591 | 40.74898 | -73.97534 | 2 | 0.844808725 |
| ## 17592 | 40.74927 | -73.97390 | 2 | 0.456814350 |
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| ## 17597 | 40.74781 | -73.97601 | 2 | 0.844808725 |
| ## 17599 | 40.74918 | -73.97379 | 2 | 0.868323535 |
| ## 17601 | 40.79080 | -73.94491 | 1 | -0.366204019 |
| ## 17602 | 40.86470 | -73.92353 | 1 | -1.189222389 |
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| ## 17606 | 40.72774 | -73.98857 | 2 | 1.291590125 |
| ## 17607 | 40.80134 | -73.96897 | 2 | -0.119298508 |
| ## 17609 | 40.77903 | -73.95071 | 2 | 0.938867967 |
| ## 17611 | 40.79840 | -73.94267 | 2 | -0.354446614 |
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| ## 17614 | 40.76965 | -73.95326 | 1 | -0.613109530 |
| ## 17616 | 40.75449 | -73.96770 | 1 | 1.409164178 |
| ## 17617 | 40.72088 | -73.99312 | 1 | -0.519050288 |
| ## 17619 | 40.73572 | -73.98736 | 1 | 0.233423650 |
| ## 17621 | 40.78028 | -73.95528 | 2 | 0.221666245 |
| ## 17622 | 40.71358 | -73.99091 | 2 | 0.233423650 |
| ## 17624 | 40.75480 | -73.99480 | 2 | 0.527358782 |
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| ## 17627 | 40.75480 | -73.99818 | 1 | -0.472020667 |
| ## 17629 | 40.72835 | -74.00159 | 2 | 0.527358782 |
| ## 17631 | 40.76211 | -73.99873 | 2 | 1.938247416 |
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| ## 17634 40.72824 -74.00259 | 2 | 0.997654993 |
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| ## 17639 40.73512 -73.98614 | 2 | 1.232803099 |
| ## 17641 40.72033 -73.99527 | 1 | -0.754198394 |
| ## 17642 40.72621 -73.99028 | 1 | -0.836500231 |
| ## 17644 40.76226 -73.95808 | 2 | 1.997034442 |
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| ## 17656 40.76711 -73.98732 | 2 | 0.821293914 |
| ## 17657 40.73251 -73.99602 | 2 | -0.001724456 |
| ## 17659 40.77761 -73.95516 | 2 | 1.761886337 |
| ## 17661 40.74868 -73.97563 | 2 | 1.491466015 |
| ## 17662 40.74862 -73.97531 | 2 | 1.326862341 |
| ## 17664 40.81134 -73.94097 | 1 | -0.836500231 |
| ## 17666 40.76160 -73.99042 | 1 | -0.295659588 |
| ## 17667 40.74921 -73.97395 | 2 | 2.091093684 |
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| ## 17671 40.74766 -73.98680 | 2 | 1.526738231 |
| ## 17672 40.82899 -73.94185 | 1 | -0.566079909 |
| ## 17674 40.74892 -73.97571 | 2 | 1.997034442 |
| ## 17676 40.74734 -73.97438 | 2 | 1.150501262 |
| ## 17677 40.80193 -73.93866 | 1 | -0.601352125 |
| ## 17679 40.78609 -73.95341 | 2 | 1.115229046 |
| ## 17681 40.72467 -73.98836 | 1 | -0.472020667 |
| ## 17682 40.74493 -73.97860 | 2 | 2.573147301 |
| ## 17684 40.79887 -73.96343 | 1 | -0.589594720 |
| ## 17686 40.80782 -73.94132 | 2 | 1.738371526 |
| ## 17687 40.76746 -73.95861 | 2 | 0.809536509 |
| ## 17689 40.79877 -73.96313 | 1 | -0.589594720 |
| ## 17691 40.70659 -74.01020 | 2 | 4.160397014 |
| ## 17692 40.70598 -74.01193 | 2 | 0.950625372 |
| ## 17694 40.70575 -74.01231 | 2 | 3.255076807 |
| ## 17696 40.70728 -74.01073 | 2 | 3.549011939 |
| ## 17697 40.70778 -74.01074 | 2 | 0.880080940 |
| ## 17699 40.70652 -74.01048 | 2 | 3.125745349 |
| ## 17701 40.70570 -74.01221 | 2 | 1.174016072 |
| ## 17702 40.70608 -74.01112 | 2 | 3.360893455 |
| ## 17704 40.80556 -73.95497 | 2 | 0.045305165 |
| ## 17706 40.84389 -73.93688 | 1 | -0.930559473 |
| ## 17707 40.76651 -73.98752 | 2 | 0.844808725 |
| ## 17709 40.76237 -73.99202 | 2 | 0.350997703 |
| ## 17711 40.72712 -73.97763 | 1 | 1.056442020 |
| ## 17712 40.79872 -73.96069 | 1 | -0.742440988 |
| ## 17714 40.76086 -73.98927 | 1 | 0.233423650 |
| ## 17716 40.77961 -73.98474 | 2 | 0.233423650 |
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| ## 17719 40.79519 -73.94115 | 2 | 2.584904706 |
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| ## 17724 | 40.74436 | -73.97223 | 2 | 0.727234672 |
| ## 17726 | 40.79191 | -73.93982 | 2 | 0.421542134 |
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| ## 17729 | 40.85156 | -73.93035 | 1 | -1.095163147 |
| ## 17731 | 40.74467 | -73.97188 | 2 | 0.350997703 |
| ## 17732 | 40.74214 | -73.99912 | 2 | 0.821293914 |
| ## 17734 | 40.80081 | -73.96414 | 2 | 0.233423650 |
| ## 17736 | 40.71463 | -73.99054 | 1 | -0.025239266 |
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| ## 17739 | 40.74921 | -73.99273 | 1 | -0.354446614 |
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| ## 17754 | 40.75976 | -73.98761 | 1 | 1.397406773 |
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| ## 17757 | 40.78111 | -73.97923 | 1 | 0.927110562 |
| ## 17759 | 40.78133 | -73.98132 | 1 | 2.055821469 |
| ## 17761 | 40.78281 | -73.98124 | 1 | 2.290969574 |
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| ## 17764 | 40.78241 | -73.98077 | 1 | 1.056442020 |
| ## 17766 | 40.78136 | -73.97988 | 1 | 2.584904706 |
| ## 17767 | 40.76033 | -73.98636 | 1 | 2.279212169 |
| ## 17769 | 40.75976 | -73.98727 | 1 | 1.985277037 |
| ## 17771 | 40.75987 | -73.98758 | 1 | 2.044064063 |
| ## 17772 | 40.75106 | -73.99792 | 2 | 0.221666245 |
| ## 17774 | 40.75169 | -73.97335 | 2 | 2.173395521 |
| ## 17776 | 40.75166 | -73.97323 | 2 | 2.173395521 |
| ## 17777 | 40.72412 | -73.98891 | 1 | -0.354446614 |
| ## 17779 | 40.77817 | -73.94743 | 2 | -0.295659588 |
| ## 17781 | 40.80305 | -73.94163 | 2 | 0.644932835 |
| ## 17782 | 40.75700 | -73.96906 | 2 | 0.809536509 |
| ## 17784 | 40.74433 | -73.97868 | 3 | -1.071648336 |
| ## 17786 | 40.80007 | -73.95981 | 2 | 1.221045694 |
| ## 17787 | 40.74389 | -73.98537 | 2 | 0.233423650 |
| ## 17789 | 40.76168 | -73.99960 | 2 | 2.584904706 |
| ## 17791 | 40.78334 | -73.97927 | 2 | -0.119298508 |
| ## 17792 | 40.72202 | -73.98858 | 2 | 0.468571756 |
| ## 17794 | 40.75333 | -73.97266 | 1 | 3.760645234 |
| ## 17796 | 40.82335 | -73.94902 | 1 | -0.060511482 |
| ## 17797 | 40.80252 | -73.95470 | 1 | -0.589594720 |
| ## 17799 | 40.72675 | -73.98651 | 2 | 0.233423650 |
| ## 17801 | 40.80102 | -73.96528 | 1 | -0.589594720 |
| ## 17802 | 40.77313 | -73.94824 | 2 | -0.225115156 |
| ## 17804 | 40.74928 | -73.97453 | 2 | 1.550253041 |
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| ## 17814 | 40.82391 | -73.94710 | 1 | -1.095163147 |
| ## 17816 | 40.73948 | -73.99555 | 1 | 0.233423650 |
| ## 17817 | 40.83588 | -73.94095 | 2 | 0.809536509 |
| ## 17819 | 40.74968 | -73.98722 | 2 | 0.174636624 |
| ## 17821 | 40.84332 | -73.93829 | 1 | -1.001103905 |
| ## 17822 | 40.76160 | -73.99368 | 2 | 3.172774970 |
| ## 17824 | 40.74929 | -73.97790 | 2 | 1.997034442 |
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| ## 17829 | 40.77526 | -73.95333 | 2 | 0.115849597 |
| ## 17831 | 40.86423 | -73.92348 | 1 | -1.142192768 |
| ## 17832 | 40.71899 | -73.98968 | 1 | -0.648381746 |
| ## 17834 | 40.78890 | -73.94925 | 2 | -0.001724456 |
| ## 17836 | 40.73535 | -73.99525 | 1 | -0.354446614 |
| ## 17837 | 40.74655 | -74.00134 | 2 | 0.104092192 |
| ## 17839 | 40.76057 | -73.98583 | 1 | 2.455573248 |
| ## 17841 | 40.73283 | -74.00734 | 2 | 1.997034442 |
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| ## 17844 | 40.74596 | -73.99234 | 2 | 1.879460389 |
| ## 17846 | 40.76017 | -73.99638 | 2 | 1.409164178 |
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| ## 17851 | 40.72848 | -74.00269 | 2 | 1.997034442 |
| ## 17852 | 40.76649 | -73.98727 | 2 | 4.219184040 |
| ## 17854 | 40.74434 | -73.97758 | 3 | -0.907044662 |
| ## 17856 | 40.74138 | -73.98168 | 1 | -0.178085535 |
| ## 17857 | 40.77041 | -73.99242 | 1 | 0.233423650 |
| ## 17859 | 40.75378 | -73.99550 | 1 | -0.366204019 |
| ## 17861 | 40.75150 | -73.97206 | 2 | 4.207426635 |
| ## 17862 | 40.73379 | -73.97754 | 1 | -0.883529852 |
| ## 17864 | 40.77085 | -73.94933 | 2 | 1.409164178 |
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| ## 17867 | 40.76035 | -73.98587 | 1 | 2.279212169 |
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| ## 17871 | 40.80220 | -73.96483 | 1 | -0.389718830 |
| ## 17872 | 40.73040 | -74.00301 | 2 | 2.243939953 |
| ## 17874 | 40.75658 | -73.99734 | 2 | 0.233423650 |
| ## 17876 | 40.74068 | -73.97848 | 1 | -1.059890931 |
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| ## 17881 | 40.76575 | -73.98938 | 1 | -0.236872561 |
| ## 17882 | 40.73341 | -74.00444 | 2 | 0.786021698 |
| ## 17884 | 40.76174 | -73.96625 | 1 | -0.472020667 |
| ## 17886 | 40.75544 | -73.98290 | 2 | 0.550873593 |
| ## 17887 | 40.82757 | -73.94915 | 1 | -0.777713204 |
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| ## 17897 | 40.82791 | -73.94752 | 1 | -0.765955799 |
| ## 17899 | 40.78812 | -73.97091 | 1 | 0.527358782 |
| ## 17901 | 40.76135 | -73.98698 | 1 | 0.115849597 |
| ## 17902 | 40.78331 | -73.94646 | 2 | -0.366204019 |

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| ## 17904 | 40.79153 | -73.94138 | 2 | 0.586145808 |
| ## 17906 | 40.72085 | -73.98253 | 2 | 0.527358782 |
| ## 17907 | 40.80598 | -73.94792 | 2 | 2.290969574 |
| ## 17909 | 40.79361 | -73.97047 | 1 | -0.354446614 |
| ## 17911 | 40.77348 | -73.97994 | 2 | 2.820052812 |
| ## 17912 | 40.77912 | -73.98029 | 2 | 1.056442020 |
| ## 17914 | 40.73216 | -73.98937 | 3 | -0.765955799 |
| ## 17916 | 40.80838 | -73.94093 | 1 | -0.472020667 |
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| ## 17919 | 40.73478 | -74.00015 | 2 | 0.468571756 |
| ## 17921 | 40.72542 | -74.00156 | 1 | 1.174016072 |
| ## 17922 | 40.83713 | -73.94827 | 1 | -0.765955799 |
| ## 17924 | 40.71358 | -73.99062 | 2 | 0.809536509 |
| ## 17926 | 40.71661 | -73.99784 | 2 | 0.821293914 |
| ## 17927 | 40.82943 | -73.94690 | 1 | -0.942316878 |
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| ## 17931 | 40.72141 | -73.98866 | 2 | 0.821293914 |
| ## 17932 | 40.72697 | -74.00409 | 2 | 0.233423650 |
| ## 17934 | 40.79931 | -73.96072 | 1 | -0.648381746 |
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| ## 17994 | 40.80319 | -73.96676 | 1 | -0.707168773 |
| ## 17996 | 40.78475 | -73.95339 | 2 | -0.366204019 |
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| ## 18036 | 40.81826 | -73.93882 | 1 | -0.707168773 |
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| ## 18041 | 40.77385 | -73.94733 | 1 | -0.848257636 |
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| ## 18061 | 40.86324 | -73.92682 | 1 | -0.354446614 |
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| ## 18076 | 40.82312 | -73.93885 | 2 | 1.703099310 |
| ## 18077 | 40.72894 | -74.00102 | 2 | 0.586145808 |
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| ## 18081 | 40.84232 | -73.93772 | 1 | -0.824742825 |
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| ## 18084 | 40.77399 | -73.94610 | 1 | 1.021169804 |
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| ## 18121 | 40.74760 | -73.97632 | 2 | 2.232182548 |
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| ## 18129 | 40.76207 | -73.99098 | 2 | 0.821293914 |
| ## 18131 | 40.71953 | -74.00064 | 2 | 3.760645234 |
| ## 18132 | 40.85476 | -73.93094 | 1 | 0.774264293 |
| ## 18134 | 40.78378 | -73.95606 | 2 | -0.295659588 |
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| ## 18137 | 40.76303 | -73.99225 | 2 | 1.350377152 |
| ## 18139 | 40.75310 | -73.96986 | 2 | -0.001724456 |
| ## 18141 | 40.77757 | -73.98579 | 2 | 1.244560504 |
| ## 18142 | 40.76616 | -73.98611 | 1 | -0.389718830 |
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| ## 18147 | 40.70613 | -74.01583 | 2 | 0.057062571 |
| ## 18149 | 40.74526 | -73.98163 | 1 | -0.965831689 |
| ## 18151 | 40.80564 | -73.94198 | 1 | -0.765955799 |
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| ## 18154 | 40.70650 | -74.00503 | 1 | 0.456814350 |
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| ## 18157 | 40.79595 | -73.97485 | 2 | 2.937626865 |
| ## 18159 | 40.76325 | -73.98592 | 2 | 1.820673363 |
| ## 18161 | 40.71086 | -74.00746 | 1 | 0.456814350 |
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| ## 18166 | 40.86259 | -73.92728 | 1 | -0.472020667 |
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| ## 18171 | 40.75577 | -73.96727 | 2 | 0.139364408 |
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| ## 18174 | 40.79889 | -73.93930 | 2 | 0.350997703 |
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| ## 18189 | 40.79966 | -73.94191 | 3 | -0.883529852 |
| ## 18191 | 40.86069 | -73.92513 | 1 | -0.836500231 |
| ## 18192 | 40.80485 | -73.96319 | 1 | -0.507292883 |
| ## 18194 | 40.73392 | -73.98085 | 3 | -0.707168773 |
| ## 18196 | 40.72394 | -73.99583 | 2 | 1.291590125 |
| ## 18197 | 40.72044 | -73.98335 | 2 | 1.291590125 |
| ## 18199 | 40.71626 | -74.00257 | 1 | 0.821293914 |
| ## 18201 | 40.76670 | -73.98692 | 3 | -0.413233640 |
| ## 18202 | 40.71099 | -73.99442 | 1 | 0.233423650 |
| ## 18204 | 40.72283 | -73.98382 | 2 | 3.760645234 |
| ## 18206 | 40.81141 | -73.94051 | 1 | 0.057062571 |
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| ## 18211 | 40.82254 | -73.95010 | 2 | -0.236872561 |
| ## 18212 | 40.86774 | -73.92401 | 2 | -0.366204019 |
| ## 18214 | 40.71404 | -73.99085 | 1 | -0.589594720 |
| ## 18216 | 40.78232 | -73.97575 | 2 | 0.115849597 |
| ## 18217 | 40.78974 | -73.94933 | 2 | 0.409784729 |
| ## 18219 | 40.70997 | -74.00816 | 1 | 0.233423650 |
| ## 18221 | 40.79908 | -73.96465 | 1 | -0.942316878 |
| ## 18222 | 40.74567 | -73.98478 | 1 | -0.765955799 |
| ## 18224 | 40.72713 | -73.98402 | 1 | -0.589594720 |
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| ## 18227 | 40.82802 | -73.94481 | 2 | -0.660139151 |
| ## 18229 | 40.72207 | -73.99751 | 2 | 0.503843971 |
| ## 18231 | 40.78045 | -73.94688 | 1 | -0.295659588 |
| ## 18232 | 40.80119 | -73.95749 | 2 | 0.115849597 |
| ## 18234 | 40.76468 | -73.98785 | 1 | 0.350997703 |
| ## 18236 | 40.77289 | -73.94689 | 1 | -0.119298508 |
| ## 18237 | 40.75450 | -73.97067 | 2 | 1.526738231 |
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| ## 18242 | 40.72493 | -73.99318 | 2 | -0.283902182 |
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| ## 18246 | 40.72735 | -73.98917 | 1 | -0.801228015 |
| ## 18247 | 40.72029 | -74.00033 | 1 | -0.742440988 |
| ## 18249 | 40.80260 | -73.95829 | 2 | 0.609660619 |
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| ## 18252 | 40.75383 | -73.97207 | 1 | 2.584904706 |
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| ## 18262 | 40.71629 | -73.98862 | 1 | -0.366204019 |

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| ## 18264 | 40.76370 | -73.99037 | 1 | 0.057062571 |
| ## 18266 | 40.71917 | -73.98343 | 2 | 3.666585992 |
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| ## 18274 | 40.73361 | -73.98995 | 1 | 0.057062571 |
| ## 18276 | 40.72745 | -74.00250 | 2 | 1.820673363 |
| ## 18277 | 40.82011 | -73.94040 | 2 | -0.236872561 |
| ## 18279 | 40.74038 | -74.00139 | 2 | 0.468571756 |
| ## 18281 | 40.74394 | -73.99094 | 2 | 3.631313776 |
| ## 18282 | 40.73823 | -73.98343 | 2 | 2.561389896 |
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| ## 18286 | 40.73571 | -73.99694 | 1 | 3.466710102 |
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| ## 18289 | 40.79321 | -73.96823 | 1 | 2.937626865 |
| ## 18291 | 40.72028 | -73.98794 | 2 | -0.084026293 |
| ## 18292 | 40.72175 | -73.99544 | 2 | 0.174636624 |
| ## 18294 | 40.76386 | -73.98901 | 2 | 0.762506888 |
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| ## 18354 | 40.71565 | -73.99211 | 2 | 1.409164178 |
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| ## 18534 | 40.73264 | -74.00422 | 2 | 3.760645234 |
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| ## 18591 | 40.75034 | -73.99059 | 2 | 1.409164178 |
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| ## 18624 | 40.74100 | -73.98056 | 2 | 0.221666245 |
| ## 18626 | 40.80536 | -73.95469 | 1 | 0.115849597 |
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| ## 18714 | 40.78893 | -73.97591 | 2 | 2.584904706 |
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| ## 19289 | 40.79630 | -73.93087 | 1 | -0.765955799 |
| ## 19291 | 40.82802 | -73.94482 | 1 | -0.765955799 |
| ## 19292 | 40.78592 | -73.94837 | 1 | -0.566079909 |
| ## 19294 | 40.79270 | -73.94033 | 2 | 1.997034442 |
| ## 19296 | 40.73526 | -74.00020 | 2 | 0.527358782 |
| ## 19297 | 40.79614 | -73.94838 | 2 | -0.084026293 |
| ## 19299 | 40.71716 | -73.99716 | 1 | -0.472020667 |
| ## 19301 | 40.80015 | -73.95387 | 1 | -0.942316878 |
| ## 19302 | 40.76066 | -73.96639 | 2 | 4.101609988 |
| ## 19304 | 40.81737 | -73.93781 | 1 | 0.233423650 |
| ## 19306 | 40.74713 | -73.98489 | 1 | -0.236872561 |
| ## 19307 | 40.71482 | -73.98911 | 2 | 0.527358782 |
| ## 19309 | 40.74580 | -73.97744 | 2 | 4.230941446 |
| ## 19311 | 40.77932 | -73.95343 | 2 | -0.248629967 |
| ## 19312 | 40.76403 | -73.98913 | 3 | -0.648381746 |
| ## 19314 | 40.72387 | -73.97845 | 2 | 0.421542134 |
| ## 19316 | 40.71255 | -73.99147 | 2 | 0.821293914 |
| ## 19317 | 40.75435 | -73.99801 | 2 | 4.336758093 |
| ## 19319 | 40.74305 | -73.98368 | 2 | 1.409164178 |
| ## 19321 | 40.72609 | -73.98354 | 2 | -0.483778072 |
| ## 19322 | 40.77388 | -73.95680 | 2 | 1.021169804 |
| ## 19324 | 40.76586 | -73.98721 | 3 | -0.636624341 |
| ## 19326 | 40.76579 | -73.98932 | 3 | -0.648381746 |
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| ## 19331 | 40.76391 | -73.98892 | 3 | -0.648381746 |
| ## 19332 | 40.72611 | -73.98208 | 2 | -0.530807693 |
| ## 19334 | 40.71409 | -73.99180 | 2 | 3.760645234 |
| ## 19336 | 40.80526 | -73.95522 | 2 | 0.762506888 |
| ## 19337 | 40.75316 | -73.97099 | 2 | 1.997034442 |
| ## 19339 | 40.71850 | -73.99824 | 2 | 0.527358782 |
| ## 19341 | 40.75406 | -73.96436 | 2 | 1.115229046 |
| ## 19342 | 40.75540 | -73.96474 | 2 | 0.821293914 |

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| ## 19344 | 40.75494 | -73.96522 | 2 | 1.056442020 |
| ## 19346 | 40.75379 | -73.96433 | 2 | 0.703719861 |
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| ## 19354 | 40.73559 | -73.99959 | 2 | 1.985277037 |
| ## 19356 | 40.72183 | -73.98803 | 2 | -0.060511482 |
| ## 19357 | 40.77621 | -73.96160 | 2 | 0.586145808 |
| ## 19359 | 40.75295 | -73.99550 | 2 | 1.409164178 |
| ## 19361 | 40.82509 | -73.95220 | 1 | -0.648381746 |
| ## 19362 | 40.77629 | -73.98017 | 2 | 1.397406773 |
| ## 19364 | 40.74830 | -74.00080 | 2 | -0.436748451 |
| ## 19366 | 40.70750 | -74.00853 | 2 | 0.774264293 |
| ## 19367 | 40.78932 | -73.97359 | 2 | 1.409164178 |
| ## 19369 | 40.75216 | -73.96912 | 2 | 0.339240298 |
| ## 19371 | 40.74409 | -73.97605 | 2 | 2.114608495 |
| ## 19372 | 40.71292 | -73.99819 | 1 | 0.409784729 |
| ## 19374 | 40.72128 | -73.97899 | 2 | 0.821293914 |
| ## 19376 | 40.81103 | -73.94813 | 2 | 1.867702984 |
| ## 19377 | 40.76885 | -73.98611 | 2 | 1.867702984 |
| ## 19379 | 40.79328 | -73.96817 | 2 | 1.409164178 |
| ## 19381 | 40.77738 | -73.94792 | 1 | -0.060511482 |
| ## 19382 | 40.76957 | -73.99292 | 2 | 1.162258667 |
| ## 19384 | 40.79482 | -73.96639 | 2 | 0.821293914 |
| ## 19386 | 40.76234 | -73.98605 | 2 | 0.821293914 |
| ## 19387 | 40.76189 | -73.98765 | 2 | 0.821293914 |
| ## 19389 | 40.75671 | -73.96228 | 3 | 0.233423650 |
| ## 19391 | 40.81982 | -73.94481 | 2 | -0.436748451 |
| ## 19392 | 40.76233 | -73.96193 | 2 | 0.527358782 |
| ## 19394 | 40.74156 | -73.99677 | 3 | 3.760645234 |
| ## 19396 | 40.83903 | -73.94588 | 2 | -0.060511482 |
| ## 19397 | 40.75951 | -73.98898 | 2 | 0.809536509 |
| ## 19399 | 40.72599 | -74.00249 | 2 | 1.620797473 |
| ## 19401 | 40.76359 | -73.98608 | 2 | 0.821293914 |
| ## 19402 | 40.84721 | -73.93321 | 1 | -0.883529852 |
| ## 19404 | 40.76022 | -74.00117 | 2 | 0.750749482 |
| ## 19406 | 40.74125 | -73.99926 | 1 | -0.483778072 |
| ## 19407 | 40.72605 | -73.98269 | 2 | 0.527358782 |
| ## 19409 | 40.75583 | -73.96836 | 2 | -0.119298508 |
| ## 19411 | 40.70644 | -74.000515 | 2 | 0.080577381 |
| ## 19412 | 40.70782 | -74.00616 | 2 | 0.080577381 |
| ## 19414 | 40.76460 | -73.99045 | 1 | 0.233423650 |
| ## 19416 | 40.76233 | -73.98707 | 2 | 1.409164178 |
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| ## 19419 | 40.73190 | -73.98658 | 2 | 0.586145808 |
| ## 19421 | 40.72810 | -73.97807 | 2 | 0.256938461 |
| ## 19422 | 40.74312 | -73.98977 | 2 | 3.866461882 |
| ## 19424 | 40.72276 | -73.98741 | 1 | -0.613109530 |
| ## 19426 | 40.85911 | -73.93087 | 1 | -0.942316878 |
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| ## 19431 | 40.76383 | -73.96870 | 2 | 0.456814350 |
| ## 19432 | 40.72627 | -74.00104 | 1 | -0.530807693 |

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| ## 19434 | 40.72830 | -73.98589 | 2 | -0.001724456 |
| ## 19436 | 40.75840 | -73.97075 | 2 | 1.350377152 |
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| ## 19447 | 40.76805 | -73.94929 | 2 | 0.233423650 |
| ## 19449 | 40.77821 | -73.95504 | 2 | 0.233423650 |
| ## 19451 | 40.76040 | -73.96451 | 2 | 0.233423650 |
| ## 19452 | 40.71801 | -73.99430 | 2 | 4.336758093 |
| ## 19454 | 40.72564 | -73.98030 | 2 | 1.997034442 |
| ## 19456 | 40.74577 | -73.97587 | 2 | 2.114608495 |
| ## 19457 | 40.72376 | -73.98623 | 2 | 1.409164178 |
| ## 19459 | 40.74536 | -73.97799 | 2 | 0.586145808 |
| ## 19461 | 40.71693 | -73.99075 | 2 | 0.821293914 |
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| ## 19466 | 40.74812 | -73.98046 | 2 | 1.997034442 |
| ## 19467 | 40.77927 | -73.97649 | 1 | -0.354446614 |
| ## 19469 | 40.76129 | -73.96178 | 1 | -0.530807693 |
| ## 19471 | 40.81582 | -73.94267 | 2 | -0.142813319 |
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| ## 19474 | 40.76139 | -73.96048 | 2 | -0.001724456 |
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| ## 19481 | 40.79058 | -73.97435 | 2 | 0.468571756 |
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| ## 19484 | 40.74436 | -74.00729 | 2 | 3.725373019 |
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| ## 19492 | 40.74616 | -73.97522 | 1 | -0.131055914 |
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| ## 19496 | 40.74430 | -73.97277 | 2 | 1.997034442 |
| ## 19497 | 40.74457 | -73.97168 | 2 | 0.938867967 |
| ## 19499 | 40.81508 | -73.93742 | 2 | -0.119298508 |
| ## 19501 | 40.74425 | -73.97137 | 2 | 1.056442020 |
| ## 19502 | 40.79830 | -73.96115 | 2 | 3.760645234 |
| ## 19504 | 40.74420 | -73.97176 | 2 | 0.821293914 |
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| ## 19512 | 40.82578 | -73.95397 | 2 | -0.354446614 |
| ## 19514 | 40.71549 | -73.97951 | 1 | -0.060511482 |
| ## 19516 | 40.70673 | -74.00565 | 2 | -0.354446614 |
| ## 19517 | 40.70811 | -74.00616 | 2 | -0.354446614 |
| ## 19519 | 40.79837 | -73.96061 | 2 | 3.172774970 |
| ## 19521 | 40.76220 | -73.99673 | 2 | 0.691962456 |
| ## 19522 | 40.70745 | -74.00613 | 2 | 0.527358782 |

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| ## 19524 | 40.74892 | -73.98155 | 2 | 2.584904706 |
| ## 19526 | 40.75708 | -73.98283 | 2 | 0.550873593 |
| ## 19527 | 40.75600 | -73.98195 | 2 | 1.174016072 |
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| ## 19532 | 40.74899 | -73.97541 | 2 | 0.821293914 |
| ## 19534 | 40.74288 | -73.99438 | 2 | 1.703099310 |
| ## 19536 | 40.74451 | -73.97270 | 2 | 0.374512513 |
| ## 19537 | 40.75954 | -73.98604 | 2 | 1.021169804 |
| ## 19539 | 40.76383 | -73.98368 | 2 | 0.221666245 |
| ## 19541 | 40.75949 | -73.99567 | 1 | 0.597903214 |
| ## 19542 | 40.76275 | -73.99271 | 2 | 3.501982318 |
| ## 19544 | 40.71089 | -73.99671 | 2 | -0.248629967 |
| ## 19546 | 40.77081 | -73.99036 | 2 | 2.702478759 |
| ## 19547 | 40.76089 | -74.00030 | 2 | 0.821293914 |
| ## 19549 | 40.72657 | -73.98757 | 1 | -0.354446614 |
| ## 19551 | 40.78908 | -73.97231 | 2 | 0.233423650 |
| ## 19552 | 40.76010 | -73.97042 | 2 | 0.574388403 |
| ## 19554 | 40.79880 | -73.94339 | 2 | 0.821293914 |
| ## 19556 | 40.74820 | -73.98599 | 2 | 0.586145808 |
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| ## 19559 | 40.74848 | -73.98631 | 2 | 0.586145808 |
| ## 19561 | 40.74646 | -73.98630 | 2 | 0.586145808 |
| ## 19562 | 40.74669 | -73.98749 | 2 | 0.586145808 |
| ## 19564 | 40.71949 | -73.98607 | 2 | 3.172774970 |
| ## 19566 | 40.75476 | -73.97118 | 1 | 0.057062571 |
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| ## 19571 | 40.72764 | -73.98712 | 1 | -0.354446614 |
| ## 19572 | 40.76424 | -73.98916 | 3 | -0.718926178 |
| ## 19574 | 40.76487 | -73.98912 | 1 | -0.119298508 |
| ## 19576 | 40.82172 | -73.95618 | 1 | -0.824742825 |
| ## 19577 | 40.73891 | -73.98657 | 2 | 0.068819976 |
| ## 19579 | 40.75455 | -73.96950 | 1 | -0.060511482 |
| ## 19581 | 40.75911 | -73.97011 | 2 | 4.101609988 |
| ## 19582 | 40.75624 | -73.97171 | 3 | -0.366204019 |
| ## 19584 | 40.75974 | -73.97067 | 2 | 1.232803099 |
| ## 19586 | 40.78766 | -73.94230 | 2 | 0.045305165 |
| ## 19587 | 40.76044 | -73.97012 | 2 | 0.809536509 |
| ## 19589 | 40.71055 | -74.00623 | 2 | 3.113987944 |
| ## 19591 | 40.76394 | -73.99466 | 3 | 3.172774970 |
| ## 19592 | 40.72604 | -73.98843 | 2 | 1.467951205 |
| ## 19594 | 40.70659 | -74.00501 | 2 | 1.985277037 |
| ## 19596 | 40.71837 | -73.99768 | 2 | 0.703719861 |
| ## 19597 | 40.81149 | -73.94024 | 2 | 0.233423650 |
| ## 19599 | 40.85638 | -73.92921 | 2 | -0.589594720 |
| ## 19601 | 40.76506 | -73.98507 | 2 | 1.820673363 |
| ## 19602 | 40.76256 | -73.99040 | 2 | 3.055200917 |
| ## 19604 | 40.71345 | -73.98678 | 2 | 0.821293914 |
| ## 19606 | 40.72905 | -74.00294 | 2 | 0.409784729 |
| ## 19607 | 40.71752 | -73.99387 | 2 | 1.938247416 |
| ## 19609 | 40.76831 | -73.98515 | 2 | 0.809536509 |
| ## 19611 | 40.82622 | -73.93489 | 1 | -0.942316878 |
| ## 19612 | 40.77166 | -73.94665 | 2 | 0.233423650 |

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| ## 19614 | 40.76568 | -73.98636 | 2 | 1.115229046 |
| ## 19616 | 40.73232 | -73.97784 | 1 | -0.730683583 |
| ## 19617 | 40.76077 | -73.99427 | 2 | 3.466710102 |
| ## 19619 | 40.70624 | -74.01006 | 2 | 1.115229046 |
| ## 19621 | 40.74506 | -73.99935 | 2 | 0.280453271 |
| ## 19622 | 40.80190 | -73.95924 | 1 | 0.938867967 |
| ## 19624 | 40.75526 | -73.99876 | 2 | 1.938247416 |
| ## 19626 | 40.86353 | -73.92349 | 2 | -0.507292883 |
| ## 19627 | 40.84709 | -73.93525 | 1 | -0.765955799 |
| ## 19629 | 40.76142 | -73.99431 | 2 | 3.055200917 |
| ## 19631 | 40.75048 | -74.00281 | 2 | 1.867702984 |
| ## 19632 | 40.72059 | -73.98500 | 2 | 0.527358782 |
| ## 19634 | 40.76449 | -73.98445 | 2 | 3.172774970 |
| ## 19636 | 40.77367 | -73.98879 | 2 | 0.715477267 |
| ## 19637 | 40.75871 | -73.96948 | 2 | 1.232803099 |
| ## 19639 | 40.76127 | -73.99234 | 2 | 0.480329161 |
| ## 19641 | 40.82693 | -73.95142 | 2 | -0.589594720 |
| ## 19642 | 40.70751 | -74.01025 | 2 | 0.821293914 |
| ## 19644 | 40.77585 | -73.95881 | 2 | 0.574388403 |
| ## 19646 | 40.78834 | -73.94781 | 2 | -0.366204019 |
| ## 19647 | 40.72612 | -73.98946 | 1 | -0.236872561 |
| ## 19649 | 40.76220 | -73.99625 | 2 | 3.466710102 |
| ## 19651 | 40.76386 | -73.98222 | 1 | 3.161017565 |
| ## 19652 | 40.76550 | -73.98237 | 1 | 3.161017565 |
| ## 19654 | 40.73128 | -74.00475 | 2 | 0.574388403 |
| ## 19656 | 40.70790 | -74.00491 | 2 | -0.072268887 |
| ## 19657 | 40.70797 | -74.00534 | 2 | -0.072268887 |
| ## 19659 | 40.71720 | -73.98890 | 2 | -0.248629967 |
| ## 19661 | 40.81557 | -73.95702 | 1 | -0.824742825 |
| ## 19662 | 40.78373 | -73.97321 | 2 | 0.233423650 |
| ## 19664 | 40.79496 | -73.94838 | 2 | 0.115849597 |
| ## 19666 | 40.72291 | -73.98447 | 1 | -0.060511482 |
| ## 19667 | 40.76401 | -73.98051 | 1 | 2.761265785 |
| ## 19669 | 40.82187 | -73.95562 | 1 | -0.860015041 |
| ## 19671 | 40.72725 | -73.98549 | 2 | -0.119298508 |
| ## 19672 | 40.81024 | -73.94362 | 2 | -0.366204019 |
| ## 19674 | 40.74566 | -73.99092 | 1 | -0.119298508 |
| ## 19676 | 40.74421 | -73.99093 | 1 | -0.060511482 |
| ## 19677 | 40.80173 | -73.93347 | 1 | -0.354446614 |
| ## 19679 | 40.74221 | -73.97997 | 2 | -0.354446614 |
| ## 19681 | 40.77134 | -73.94832 | 2 | 0.468571756 |
| ## 19682 | 40.70690 | -74.00920 | 2 | 1.138743857 |
| ## 19684 | 40.74042 | -73.99883 | 2 | 1.115229046 |
| ## 19686 | 40.76433 | -73.98932 | 2 | 0.386269919 |
| ## 19687 | 40.72608 | -73.98161 | 2 | 2.561389896 |
| ## 19689 | 40.76738 | -73.95556 | 2 | -0.060511482 |
| ## 19691 | 40.76157 | -73.99278 | 2 | 0.233423650 |
| ## 19692 | 40.77957 | -73.95475 | 2 | 0.139364408 |
| ## 19694 | 40.72702 | -73.97980 | 2 | 0.409784729 |
| ## 19696 | 40.79901 | -73.94334 | 2 | 2.220425143 |
| ## 19697 | 40.75550 | -73.99399 | 2 | 0.233423650 |
| ## 19699 | 40.81868 | -73.94417 | 2 | 1.938247416 |
| ## 19701 | 40.82200 | -73.95582 | 1 | -0.836500231 |
| ## 19702 | 40.71814 | -73.98357 | 1 | -0.660139151 |

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| ## 19704 | 40.74318 | -73.99987 | 2 | 3.690100803 |
| ## 19706 | 40.76312 | -73.99394 | 2 | 0.821293914 |
| ## 19707 | 40.79230 | -73.94613 | 2 | 1.409164178 |
| ## 19709 | 40.76097 | -73.99973 | 2 | 2.878839838 |
| ## 19711 | 40.72404 | -73.98219 | 2 | 0.233423650 |
| ## 19712 | 40.71083 | -74.00803 | 2 | 1.761886337 |
| ## 19714 | 40.82136 | -73.95606 | 1 | -0.836500231 |
| ## 19716 | 40.75258 | -73.99311 | 1 | -0.472020667 |
| ## 19717 | 40.82128 | -73.93909 | 2 | -0.189842940 |
| ## 19719 | 40.76187 | -73.98599 | 2 | 1.397406773 |
| ## 19721 | 40.74117 | -73.99951 | 2 | 1.997034442 |
| ## 19722 | 40.72670 | -73.97965 | 2 | 0.880080940 |
| ## 19724 | 40.77101 | -73.98941 | 2 | 2.702478759 |
| ## 19726 | 40.75393 | -73.99992 | 2 | 0.809536509 |
| ## 19727 | 40.76768 | -73.95455 | 2 | 2.232182548 |
| ## 19729 | 40.76272 | -73.99054 | 2 | 0.691962456 |
| ## 19731 | 40.74094 | -73.97990 | 2 | 3.172774970 |
| ## 19732 | 40.73258 | -73.98648 | 2 | 1.115229046 |
| ## 19734 | 40.75347 | -73.99883 | 2 | 0.938867967 |
| ## 19736 | 40.74814 | -73.97955 | 2 | 3.760645234 |
| ## 19737 | 40.70473 | -74.01582 | 1 | -0.472020667 |
| ## 19739 | 40.74614 | -74.00168 | 1 | 0.233423650 |
| ## 19741 | 40.81270 | -73.96163 | 1 | -0.354446614 |
| ## 19742 | 40.72685 | -73.98349 | 2 | -0.236872561 |
| ## 19744 | 40.76495 | -73.98784 | 2 | 2.349756601 |
| ## 19746 | 40.72757 | -74.00059 | 2 | 2.573147301 |
| ## 19747 | 40.79523 | -73.94956 | 1 | -0.942316878 |
| ## 19749 | 40.74832 | -73.98126 | 2 | 3.360893455 |
| ## 19751 | 40.76273 | -73.99028 | 2 | 1.467951205 |
| ## 19752 | 40.73129 | -74.00661 | 1 | -0.354446614 |
| ## 19754 | 40.76476 | -73.98871 | 2 | 0.174636624 |
| ## 19756 | 40.76671 | -73.95286 | 1 | -0.366204019 |
| ## 19757 | 40.85457 | -73.92778 | 1 | -0.754198394 |
| ## 19759 | 40.81489 | -73.95842 | 1 | -0.248629967 |
| ## 19761 | 40.76179 | -73.96427 | 2 | 0.938867967 |
| ## 19762 | 40.78481 | -73.95303 | 1 | -0.613109530 |
| ## 19764 | 40.70736 | -74.00965 | 2 | -0.001724456 |
| ## 19766 | 40.78085 | -73.97508 | 2 | 0.268695866 |
| ## 19767 | 40.70694 | -74.00700 | 2 | 1.409164178 |
| ## 19769 | 40.74469 | -74.00535 | 2 | 1.409164178 |
| ## 19771 | 40.76918 | -73.96670 | 2 | 1.115229046 |
| ## 19772 | 40.76615 | -73.95639 | 1 | -0.530807693 |
| ## 19774 | 40.70785 | -74.00645 | 3 | 0.233423650 |
| ## 19776 | 40.76479 | -73.98667 | 1 | -0.519050288 |
| ## 19777 | 40.76650 | -73.98673 | 2 | 0.174636624 |
| ## 19779 | 40.75949 | -73.98825 | 2 | -0.060511482 |
| ## 19781 | 40.77574 | -73.95331 | 2 | 1.162258667 |
| ## 19782 | 40.79798 | -73.93972 | 2 | -0.942316878 |
| ## 19784 | 40.75606 | -73.98871 | 2 | 4.113367393 |
| ## 19786 | 40.76457 | -73.98796 | 2 | 1.997034442 |
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| ## 19791 | 40.74625 | -74.00000 | 2 | 2.055821469 |
| ## 19792 | 40.74006 | -74.00071 | 2 | 0.762506888 |

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| ## 19794 | 40.81051 | -73.94800 | 2 | 1.409164178 |
| ## 19796 | 40.76786 | -73.95639 | 2 | 1.526738231 |
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| ## 19799 | 40.72247 | -73.98838 | 2 | 0.644932835 |
| ## 19801 | 40.82238 | -73.95476 | 1 | -0.519050288 |
| ## 19802 | 40.73207 | -74.01087 | 2 | 1.644312284 |
| ## 19804 | 40.75596 | -73.96581 | 2 | 0.586145808 |
| ## 19806 | 40.76243 | -73.98978 | 1 | -0.472020667 |
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| ## 19814 | 40.72671 | -73.97986 | 2 | 3.760645234 |
| ## 19816 | 40.75217 | -73.99828 | 2 | 1.232803099 |
| ## 19817 | 40.74800 | -73.98831 | 1 | -0.883529852 |
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| ## 19824 | 40.81433 | -73.94255 | 1 | -0.648381746 |
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| ## 19846 | 40.74114 | -74.00358 | 2 | 0.797779103 |
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| ## 19852 | 40.84274 | -73.94219 | 1 | -0.472020667 |
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| ## 19857 | 40.70678 | -74.00910 | 2 | 0.468571756 |
| ## 19859 | 40.70569 | -74.00974 | 2 | 0.527358782 |
| ## 19861 | 40.76329 | -73.97543 | 1 | -0.354446614 |
| ## 19862 | 40.71232 | -74.00689 | 2 | 0.644932835 |
| ## 19864 | 40.74122 | -73.98274 | 2 | 0.985897588 |
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| ## 19872 | 40.81658 | -73.93800 | 2 | -0.613109530 |
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| ## 19881 | 40.72358 | -74.00397 | 2 | 1.174016072 |
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| ## 19884 | 40.71035 | -74.00734 | 2 | 0.644932835 |
| ## 19886 | 40.72434 | -73.98047 | 2 | 2.467330653 |
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| ## 19974 | 40.77390 | -73.94803 | 2 | 1.409164178 |
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| ## 19987 | 40.81868 | -73.93937 | 1 | -0.742440988 |
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| ## 19991 | 40.83329 | -73.94056 | 2 | 0.350997703 |
| ## 19992 | 40.76209 | -73.96181 | 2 | -0.060511482 |
| ## 19994 | 40.81290 | -73.94391 | 1 | -0.472020667 |
| ## 19996 | 40.77065 | -73.96675 | 2 | 0.586145808 |
| ## 19997 | 40.78986 | -73.94783 | 1 | -0.765955799 |
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| ## 20001 | 40.72683 | -74.00222 | 2 | 1.703099310 |
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| ## 20012 | 40.76135 | -73.99343 | 2 | 3.172774970 |
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| ## 20019 | 40.72056 | -73.98894 | 2 | 0.938867967 |
| ## 20021 | 40.75612 | -73.99263 | 2 | 0.927110562 |
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| ## 20026 | 40.70611 | -74.00773 | 2 | 0.880080940 |
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| ## 20056 | 40.73894 | -74.00087 | 1 | -0.366204019 |
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| ## 20064 | 40.80144 | -73.94463 | 1 | 0.586145808 |
| ## 20066 | 40.80386 | -73.95065 | 1 | -0.765955799 |
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| ## 20074 | 40.84330 | -73.93616 | 1 | -1.118677957 |
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| ## 20079 | 40.76073 | -73.99032 | 1 | 0.115849597 |
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| ## 20082 | 40.76553 | -73.98148 | 1 | 2.678963948 |
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| ## 20099 | 40.75625 | -73.99357 | 1 | -0.789470609 |
| ## 20101 | 40.81668 | -73.95690 | 1 | -0.765955799 |
| ## 20102 | 40.72098 | -73.99720 | 2 | 1.115229046 |
| ## 20104 | 40.76569 | -73.95829 | 2 | -0.001724456 |
| ## 20106 | 40.76374 | -73.98844 | 2 | 3.760645234 |
| ## 20107 | 40.79833 | -73.93781 | 3 | -0.824742825 |
| ## 20109 | 40.72488 | -73.98317 | 2 | -0.119298508 |
| ## 20111 | 40.72352 | -73.97493 | 1 | -0.530807693 |
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| ## 20114 | 40.76814 | -73.96088 | 1 | -0.060511482 |
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| ## 20121 | 40.75959 | -73.96473 | 2 | 1.750128931 |
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| ## 20132 | 40.72226 | -73.99351 | 2 | 3.172774970 |
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| ## 20146 | 40.76523 | -73.98049 | 1 | 1.409164178 |
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| ## 20149 | 40.80760 | -73.94886 | 1 | -0.589594720 |
| ## 20151 | 40.80935 | -73.93812 | 1 | 1.644312284 |
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| ## 20154 | 40.77219 | -73.98991 | 2 | 3.172774970 |
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| ## 20164 | 40.75823 | -73.96509 | 2 | 1.879460389 |
| ## 20166 | 40.73286 | -74.00244 | 2 | 0.527358782 |
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| ## 20199 | 40.70833 | -74.00497 | 2 | 1.644312284 |
| ## 20201 | 40.75508 | -73.96379 | 2 | 1.056442020 |
| ## 20202 | 40.75518 | -73.96306 | 2 | 0.703719861 |
| ## 20204 | 40.72206 | -73.99695 | 2 | 0.691962456 |
| ## 20206 | 40.75180 | -73.97158 | 2 | 0.174636624 |
| ## 20207 | 40.75726 | -73.96671 | 2 | 0.586145808 |
| ## 20209 | 40.76783 | -73.98847 | 2 | 0.703719861 |
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| ## 20212 | 40.76074 | -73.96015 | 2 | 2.467330653 |
| ## 20214 | 40.76364 | -73.98694 | 2 | 1.997034442 |
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| ## 20217 | 40.76139 | -73.96250 | 2 | 0.821293914 |
| ## 20219 | 40.81745 | -73.94441 | 2 | 1.115229046 |
| ## 20221 | 40.70964 | -74.01798 | 2 | 0.809536509 |
| ## 20222 | 40.77223 | -73.95082 | 2 | 2.584904706 |
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| ## 20234 | 40.75229 | -73.96953 | 2 | 0.292210676 |
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| ## 20239 | 40.73592 | -73.98993 | 2 | 1.938247416 |
| ## 20241 | 40.73559 | -73.99985 | 2 | 0.809536509 |
| ## 20242 | 40.73895 | -74.00393 | 2 | 0.245181055 |

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| ## 20244 | 40.79981 | -73.95436 | 2 | 1.409164178 |
| ## 20246 | 40.86471 | -73.92474 | 1 | -0.354446614 |
| ## 20247 | 40.75654 | -74.00012 | 2 | 0.550873593 |
| ## 20249 | 40.71133 | -74.00676 | 2 | 1.056442020 |
| ## 20251 | 40.77098 | -73.95240 | 2 | -0.178085535 |
| ## 20252 | 40.71658 | -73.99065 | 1 | -0.483778072 |
| ## 20254 | 40.75675 | -73.98514 | 1 | -0.707168773 |
| ## 20256 | 40.81226 | -73.94349 | 1 | -0.589594720 |
| ## 20257 | 40.81436 | -73.95399 | 1 | -0.131055914 |
| ## 20259 | 40.79829 | -73.97266 | 2 | 0.515601377 |
| ## 20261 | 40.78672 | -73.94880 | 2 | 0.586145808 |
| ## 20262 | 40.74801 | -73.98592 | 2 | 1.162258667 |
| ## 20264 | 40.70852 | -74.00510 | 2 | 0.797779103 |
| ## 20266 | 40.70818 | -74.00631 | 2 | 0.057062571 |
| ## 20267 | 40.70691 | -74.00682 | 2 | 0.409784729 |
| ## 20269 | 40.76097 | -74.00026 | 2 | 0.057062571 |
| ## 20271 | 40.78539 | -73.95062 | 2 | 0.303968082 |
| ## 20272 | 40.74526 | -74.00605 | 2 | 1.632554878 |
| ## 20274 | 40.72936 | -73.98298 | 2 | 3.172774970 |
| ## 20276 | 40.80245 | -73.95830 | 1 | -0.236872561 |
| ## 20277 | 40.78549 | -73.97188 | 2 | 0.445056945 |
| ## 20279 | 40.76868 | -73.95166 | 2 | -0.354446614 |
| ## 20281 | 40.76405 | -73.99004 | 2 | 1.985277037 |
| ## 20282 | 40.77122 | -73.99356 | 2 | 2.584904706 |
| ## 20284 | 40.80778 | -73.94762 | 2 | 0.821293914 |
| ## 20286 | 40.81561 | -73.94823 | 1 | -0.366204019 |
| ## 20287 | 40.72131 | -73.98902 | 2 | -0.013481861 |
| ## 20289 | 40.84191 | -73.93705 | 1 | -0.942316878 |
| ## 20291 | 40.76212 | -73.99771 | 2 | 1.761886337 |
| ## 20292 | 40.73085 | -73.98370 | 2 | 2.173395521 |
| ## 20294 | 40.72727 | -73.99322 | 2 | 0.586145808 |
| ## 20296 | 40.76123 | -73.99084 | 2 | 1.162258667 |
| ## 20297 | 40.73691 | -73.99715 | 1 | -0.601352125 |
| ## 20299 | 40.74315 | -73.99591 | 2 | 1.115229046 |
| ## 20301 | 40.74839 | -73.98087 | 2 | 0.809536509 |
| ## 20302 | 40.76090 | -73.96147 | 2 | 1.985277037 |
| ## 20304 | 40.80300 | -73.93913 | 1 | -0.589594720 |
| ## 20306 | 40.80494 | -73.95463 | 1 | 0.233423650 |
| ## 20307 | 40.72060 | -73.97913 | 2 | 2.878839838 |
| ## 20309 | 40.76274 | -73.99118 | 2 | 0.691962456 |
| ## 20311 | 40.76924 | -73.95323 | 1 | -0.354446614 |
| ## 20312 | 40.81908 | -73.95718 | 3 | -1.177464984 |
| ## 20314 | 40.71717 | -73.99817 | 2 | 2.584904706 |
| ## 20316 | 40.80701 | -73.96619 | 1 | -0.789470609 |
| ## 20317 | 40.73853 | -73.97982 | 2 | 0.574388403 |
| ## 20319 | 40.80498 | -73.96640 | 1 | 1.409164178 |
| ## 20321 | 40.777890 | -73.95554 | 2 | 0.809536509 |
| ## 20322 | 40.71807 | -73.99843 | 2 | -0.060511482 |
| ## 20324 | 40.81615 | -73.94359 | 2 | 1.115229046 |
| ## 20326 | 40.74316 | -73.98038 | 1 | 3.172774970 |
| ## 20327 | 40.80158 | -73.96182 | 1 | -0.354446614 |
| ## 20329 | 40.75827 | -73.97092 | 2 | 3.466710102 |
| ## 20331 | 40.83325 | -73.94034 | 1 | -0.542565099 |
| ## 20332 | 40.75836 | -73.96289 | 2 | 0.057062571 |

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|----------|----------|-----------|---|--------------|
| ## 20334 | 40.74864 | -73.97100 | 2 | 2.537875085 |
| ## 20336 | 40.81709 | -73.93866 | 2 | -0.060511482 |
| ## 20337 | 40.79752 | -73.93287 | 1 | -0.765955799 |
| ## 20339 | 40.77297 | -73.95530 | 1 | -0.095783698 |
| ## 20341 | 40.83029 | -73.94191 | 1 | -0.824742825 |
| ## 20342 | 40.75707 | -73.99764 | 1 | 1.115229046 |
| ## 20344 | 40.79906 | -73.96517 | 1 | -0.824742825 |
| ## 20346 | 40.82856 | -73.94021 | 1 | -0.824742825 |
| ## 20347 | 40.72715 | -73.98327 | 2 | 0.115849597 |
| ## 20349 | 40.72878 | -73.98478 | 2 | -0.013481861 |
| ## 20351 | 40.72902 | -74.00152 | 1 | -0.166328130 |
| ## 20352 | 40.76246 | -73.99193 | 2 | 1.409164178 |
| ## 20354 | 40.79900 | -73.97012 | 1 | -0.001724456 |
| ## 20356 | 40.72304 | -73.97910 | 2 | -0.131055914 |
| ## 20357 | 40.74476 | -73.97622 | 1 | 0.821293914 |
| ## 20359 | 40.84154 | -73.93766 | 2 | 1.526738231 |
| ## 20361 | 40.74686 | -73.97361 | 1 | 0.644932835 |
| ## 20362 | 40.79584 | -73.94747 | 1 | -0.648381746 |
| ## 20364 | 40.72037 | -73.98720 | 2 | 0.151121813 |
| ## 20366 | 40.84288 | -73.94201 | 1 | -0.895287257 |
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| ## 20369 | 40.74811 | -73.97718 | 2 | 0.445056945 |
| ## 20371 | 40.82806 | -73.94537 | 1 | -0.942316878 |
| ## 20372 | 40.76122 | -73.98655 | 1 | -0.707168773 |
| ## 20374 | 40.82297 | -73.94882 | 2 | 0.104092192 |
| ## 20376 | 40.72236 | -74.00255 | 2 | -0.060511482 |
| ## 20377 | 40.70815 | -74.00619 | 3 | -0.295659588 |
| ## 20379 | 40.75654 | -73.99173 | 2 | 2.232182548 |
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| ## 20382 | 40.74164 | -73.98200 | 2 | 2.584904706 |
| ## 20384 | 40.82165 | -73.95423 | 1 | -0.965831689 |
| ## 20386 | 40.81761 | -73.94434 | 1 | -0.589594720 |
| ## 20387 | 40.73708 | -73.98826 | 2 | 0.586145808 |
| ## 20389 | 40.76769 | -73.99129 | 1 | -0.236872561 |
| ## 20391 | 40.72088 | -74.00318 | 2 | 0.233423650 |
| ## 20392 | 40.75258 | -73.97111 | 1 | 0.045305165 |
| ## 20394 | 40.75747 | -73.96892 | 2 | -0.060511482 |
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| ## 20397 | 40.70534 | -74.00631 | 2 | 0.586145808 |
| ## 20399 | 40.74169 | -73.99723 | 2 | 1.291590125 |
| ## 20401 | 40.71467 | -73.98985 | 2 | 0.927110562 |
| ## 20402 | 40.75669 | -73.96848 | 1 | -0.354446614 |
| ## 20404 | 40.74438 | -73.99700 | 2 | 1.409164178 |
| ## 20406 | 40.78189 | -73.94550 | 1 | -0.718926178 |
| ## 20407 | 40.76557 | -73.99090 | 1 | 0.644932835 |
| ## 20409 | 40.71895 | -73.98813 | 2 | -0.366204019 |
| ## 20411 | 40.71276 | -73.98488 | 2 | 0.821293914 |
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| ## 20414 | 40.73669 | -74.00100 | 2 | 1.997034442 |
| ## 20416 | 40.71878 | -73.99808 | 2 | 0.844808725 |
| ## 20417 | 40.80199 | -73.95779 | 1 | -0.472020667 |
| ## 20419 | 40.82682 | -73.95157 | 1 | -0.707168773 |
| ## 20421 | 40.82330 | -73.95122 | 2 | -0.060511482 |
| ## 20422 | 40.79820 | -73.94422 | 3 | -0.765955799 |

| | |
|-----------------------------|----------------|
| ## 20424 40.80446 -73.94550 | 2 2.232182548 |
| ## 20426 40.84638 -73.93846 | 1 -0.989346499 |
| ## 20427 40.76725 -73.98669 | 3 -0.707168773 |
| ## 20429 40.77324 -73.95969 | 3 -0.718926178 |
| ## 20431 40.74605 -73.97730 | 1 -0.589594720 |
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| ## 20434 40.73034 -73.98725 | 2 0.786021698 |
| ## 20436 40.80629 -73.95001 | 2 1.079956830 |
| ## 20437 40.74413 -73.97993 | 1 -0.472020667 |
| ## 20439 40.74690 -73.99038 | 2 2.584904706 |
| ## 20441 40.80605 -73.94208 | 2 0.527358782 |
| ## 20442 40.76059 -73.96160 | 3 0.927110562 |
| ## 20444 40.72785 -74.00145 | 2 1.997034442 |
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| ## 20454 40.73635 -74.00223 | 2 -0.483778072 |
| ## 20456 40.79098 -73.97384 | 2 0.233423650 |
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| ## 20461 40.80624 -73.95020 | 1 -0.472020667 |
| ## 20462 40.80079 -73.95783 | 1 -0.530807693 |
| ## 20464 40.84773 -73.94015 | 1 -0.824742825 |
| ## 20466 40.72552 -74.00101 | 2 1.291590125 |
| ## 20467 40.73564 -74.00997 | 2 1.162258667 |
| ## 20469 40.81851 -73.95670 | 3 -0.648381746 |
| ## 20471 40.75584 -73.99304 | 2 0.527358782 |
| ## 20472 40.72968 -74.00195 | 2 0.315725487 |
| ## 20474 40.82601 -73.93795 | 1 -0.824742825 |
| ## 20476 40.76116 -73.99031 | 2 1.409164178 |
| ## 20477 40.73549 -73.97707 | 2 1.409164178 |
| ## 20479 40.78774 -73.94627 | 1 -0.671896557 |
| ## 20481 40.85453 -73.93562 | 2 1.997034442 |
| ## 20482 40.76802 -73.98721 | 3 -0.718926178 |
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| ## 20486 40.76759 -73.98697 | 3 -0.718926178 |
| ## 20487 40.77352 -73.94693 | 2 0.233423650 |
| ## 20489 40.81121 -73.94124 | 2 0.021790355 |
| ## 20491 40.76141 -73.99213 | 2 0.927110562 |
| ## 20492 40.72595 -73.98971 | 2 1.056442020 |
| ## 20494 40.70400 -74.00646 | 1 -0.472020667 |
| ## 20496 40.76062 -73.99349 | 2 0.927110562 |
| ## 20497 40.75402 -73.99318 | 2 -0.648381746 |
| ## 20499 40.80637 -73.94282 | 2 -0.354446614 |
| ## 20501 40.76066 -73.99011 | 2 0.045305165 |
| ## 20502 40.81922 -73.95287 | 1 -0.942316878 |
| ## 20504 40.78586 -73.94475 | 2 0.809536509 |
| ## 20506 40.85488 -73.93194 | 2 -0.060511482 |
| ## 20507 40.72007 -73.98873 | 2 0.574388403 |
| ## 20509 40.78331 -73.97470 | 2 -0.178085535 |
| ## 20511 40.73275 -73.98242 | 2 -0.060511482 |
| ## 20512 40.80739 -73.96068 | 2 0.233423650 |

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| ## 20514 | 40.76836 | -73.98419 | 2 | 1.350377152 |
| ## 20516 | 40.71387 | -73.99427 | 2 | 0.292210676 |
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| ## 20519 | 40.79880 | -73.97277 | 1 | 0.821293914 |
| ## 20521 | 40.71197 | -73.99019 | 1 | -0.707168773 |
| ## 20522 | 40.76358 | -73.97825 | 2 | 0.586145808 |
| ## 20524 | 40.77365 | -73.94961 | 1 | -0.589594720 |
| ## 20526 | 40.74422 | -73.98172 | 2 | 0.703719861 |
| ## 20527 | 40.80041 | -73.94615 | 1 | -0.836500231 |
| ## 20529 | 40.76163 | -73.96319 | 2 | 0.362755108 |
| ## 20531 | 40.79617 | -73.96228 | 2 | -0.060511482 |
| ## 20532 | 40.74995 | -73.99711 | 2 | 1.221045694 |
| ## 20534 | 40.83958 | -73.94323 | 1 | -0.707168773 |
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| ## 20542 | 40.74714 | -73.99117 | 3 | -0.742440988 |
| ## 20544 | 40.80396 | -73.94038 | 2 | -0.060511482 |
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| ## 20547 | 40.80658 | -73.95736 | 1 | 0.092334787 |
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| ## 20551 | 40.79993 | -73.96475 | 1 | 0.080577381 |
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| ## 20556 | 40.76996 | -73.95117 | 1 | 1.056442020 |
| ## 20557 | 40.77439 | -73.95047 | 2 | 1.315104936 |
| ## 20559 | 40.74506 | -73.97362 | 2 | 3.172774970 |
| ## 20561 | 40.72349 | -73.99322 | 2 | 0.586145808 |
| ## 20562 | 40.75987 | -73.99615 | 1 | -0.060511482 |
| ## 20564 | 40.84267 | -73.93816 | 2 | -0.530807693 |
| ## 20566 | 40.81374 | -73.94390 | 2 | -0.060511482 |
| ## 20567 | 40.73258 | -73.98039 | 1 | -0.366204019 |
| ## 20569 | 40.72262 | -74.00861 | 2 | 1.409164178 |
| ## 20571 | 40.77551 | -73.95404 | 1 | -0.119298508 |
| ## 20572 | 40.77574 | -73.95324 | 3 | -0.354446614 |
| ## 20574 | 40.76356 | -73.98823 | 2 | 2.349756601 |
| ## 20576 | 40.73477 | -74.00246 | 2 | 1.985277037 |
| ## 20577 | 40.76703 | -73.96979 | 2 | 1.115229046 |
| ## 20579 | 40.76294 | -73.99167 | 2 | 0.468571756 |
| ## 20581 | 40.73258 | -73.98190 | 2 | 1.997034442 |
| ## 20582 | 40.77488 | -73.94934 | 2 | 0.938867967 |
| ## 20584 | 40.74010 | -73.98256 | 1 | -0.707168773 |
| ## 20586 | 40.74218 | -73.99813 | 2 | 0.233423650 |
| ## 20587 | 40.75906 | -73.99049 | 2 | 1.997034442 |
| ## 20589 | 40.80707 | -73.95242 | 1 | -1.059890931 |
| ## 20591 | 40.84905 | -73.93951 | 1 | -0.601352125 |
| ## 20592 | 40.84817 | -73.93848 | 1 | -0.413233640 |
| ## 20594 | 40.73776 | -73.98418 | 2 | 1.409164178 |
| ## 20596 | 40.72349 | -73.99457 | 2 | 2.185152927 |
| ## 20597 | 40.86830 | -73.92161 | 2 | 2.573147301 |
| ## 20599 | 40.71918 | -74.00786 | 2 | 0.456814350 |
| ## 20601 | 40.74040 | -73.99853 | 2 | 1.985277037 |
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| | | | | |
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| ## 20604 | 40.78324 | -73.94734 | 2 | 1.703099310 |
| ## 20606 | 40.75167 | -73.98585 | 2 | 2.290969574 |
| ## 20607 | 40.81758 | -73.94008 | 1 | -0.648381746 |
| ## 20609 | 40.80750 | -73.96679 | 2 | -0.319174398 |
| ## 20611 | 40.82539 | -73.94880 | 1 | -0.707168773 |
| ## 20612 | 40.72654 | -74.00201 | 2 | 1.820673363 |
| ## 20614 | 40.74395 | -73.99109 | 2 | 2.243939953 |
| ## 20616 | 40.72229 | -73.99888 | 2 | 3.948763719 |
| ## 20617 | 40.74530 | -73.99063 | 2 | 2.443815843 |
| ## 20619 | 40.71300 | -74.00991 | 2 | 1.632554878 |
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| ## 20624 | 40.72327 | -73.98027 | 3 | -1.059890931 |
| ## 20626 | 40.84150 | -73.93661 | 2 | -0.272144777 |
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| ## 20629 | 40.76966 | -73.96688 | 2 | 1.279832720 |
| ## 20631 | 40.78439 | -73.95762 | 2 | 3.172774970 |
| ## 20632 | 40.79913 | -73.94226 | 1 | -0.472020667 |
| ## 20634 | 40.75941 | -73.99179 | 2 | 1.279832720 |
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| ## 20637 | 40.75896 | -73.99153 | 2 | 1.997034442 |
| ## 20639 | 40.75982 | -73.98662 | 2 | 3.172774970 |
| ## 20641 | 40.74480 | -74.00761 | 2 | 1.985277037 |
| ## 20642 | 40.83225 | -73.94496 | 1 | -0.824742825 |
| ## 20644 | 40.70485 | -74.00822 | 2 | 3.525497129 |
| ## 20646 | 40.71877 | -74.00260 | 2 | 2.573147301 |
| ## 20647 | 40.70664 | -74.01258 | 1 | -0.860015041 |
| ## 20649 | 40.72964 | -74.00310 | 2 | 0.821293914 |
| ## 20651 | 40.80243 | -73.96637 | 1 | -0.954074283 |
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| ## 20654 | 40.80656 | -73.95593 | 1 | -0.824742825 |
| ## 20656 | 40.70787 | -74.00780 | 2 | 0.327482892 |
| ## 20657 | 40.73896 | -73.99935 | 2 | 2.584904706 |
| ## 20659 | 40.72132 | -73.99586 | 2 | 0.539116187 |
| ## 20661 | 40.73380 | -73.97972 | 1 | -0.707168773 |
| ## 20662 | 40.76443 | -73.98516 | 1 | -0.495535477 |
| ## 20664 | 40.71958 | -73.98741 | 2 | 0.797779103 |
| ## 20666 | 40.71421 | -73.97853 | 2 | 2.584904706 |
| ## 20667 | 40.74271 | -73.99554 | 2 | 0.997654993 |
| ## 20669 | 40.76170 | -73.99815 | 1 | 0.586145808 |
| ## 20671 | 40.72013 | -73.98769 | 2 | 1.232803099 |
| ## 20672 | 40.80078 | -73.95079 | 2 | 0.080577381 |
| ## 20674 | 40.76142 | -73.99865 | 2 | 1.056442020 |
| ## 20676 | 40.72283 | -73.99472 | 2 | 2.185152927 |
| ## 20677 | 40.76082 | -73.99709 | 2 | 2.996413891 |
| ## 20679 | 40.73206 | -73.98776 | 2 | 2.761265785 |
| ## 20681 | 40.74643 | -73.99105 | 3 | -0.648381746 |
| ## 20682 | 40.71825 | -73.99019 | 2 | 0.233423650 |
| ## 20684 | 40.73713 | -73.99870 | 2 | 0.162879218 |
| ## 20686 | 40.72146 | -73.98279 | 1 | -0.354446614 |
| ## 20687 | 40.80505 | -73.94894 | 2 | -0.472020667 |
| ## 20689 | 40.75354 | -73.98377 | 2 | 1.350377152 |
| ## 20691 | 40.79339 | -73.93784 | 1 | 0.233423650 |
| ## 20692 | 40.79873 | -73.96938 | 2 | 0.233423650 |

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## 20694 40.74404 -73.97239      2 -0.013481861
## 20696 40.74604 -73.97228      2  1.409164178
## 20697 40.80268 -73.94244      1 -0.354446614
## 20699 40.78099 -73.95366      1 -0.013481861
## 20701 40.75579 -73.99094      3  1.526738231
## 20702 40.71466 -73.98676      1 -0.589594720
## 20704 40.78411 -73.94870      2  0.115849597
## 20706 40.76911 -73.99248      2  0.174636624
## 20707 40.70597 -74.01562      1 -0.366204019
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## 20711 40.79952 -73.96003      1 -0.648381746
## 20712 40.81951 -73.94161      1 -0.942316878
## 20714 40.80780 -73.93837      2 -0.236872561
## 20716 40.82179 -73.95522      2  0.468571756
## 20717 40.83734 -73.94326      2 -0.472020667
## 20719 40.70605 -74.01042      2  4.054580366
## 20721 40.82385 -73.93947      1 -0.589594720
## 20722 40.82126 -73.95458      1 -0.707168773
## 20724 40.73620 -74.00827      2  0.880080940
## 20726 40.73231 -73.98689      2  0.339240298
## 20727 40.73444 -74.00335      1  0.844808725
## 20729 40.73197 -73.98674      1 -0.436748451
## 20731 40.76628 -73.95795      2 -0.119298508
## 20732 40.77192 -73.95369      1 -0.413233640
## 20734 40.82233 -73.94687      1 -1.118677957
## 20736 40.79760 -73.93947      1 -0.942316878
## 20737 40.78749 -73.94749      1  0.115849597
## 20739 40.79755 -73.93614      1 -0.648381746
## 20741 40.75561 -73.96723      2  0.821293914
## 20742 40.76392 -73.99183      1 -0.060511482
## 20744 40.75751 -73.99112      3 -0.883529852

```

train_neig_room

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##      latitude longitude      price
## 1    40.80902 -73.94190  0.233423650
## 2    40.76489 -73.98493 -0.601352125
## 4    40.76076 -73.98867 -0.530807693
## 6    40.74192 -73.99501  0.115849597
## 7    40.86754 -73.92639 -0.589594720
## 9    40.82245 -73.95104 -0.942316878
## 11   40.82130 -73.95318 -0.942316878
## 12   40.72290 -73.98199 -0.730683583
## 14   40.72004 -73.99104 -0.236872561
## 16   40.75979 -73.99119 -0.918802068
## 17   40.72649 -73.97904 -0.589594720
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## 7667 40.76546 -73.98060  1.997034442
## 7669 40.80935 -73.93812  1.644312284
## 7671 40.80609 -73.94840 -0.472020667
## 7672 40.72247 -73.99473 -0.413233640
## 7674 40.78527 -73.97623  0.233423650
## 7676 40.85988 -73.92703 -0.942316878
## 7677 40.73243 -74.00333  0.350997703
## 7679 40.79846 -73.93359 -0.801228015
## 7681 40.79234 -73.94592 -0.648381746
## 7682 40.75061 -73.97233 -0.530807693

```

```

## 7684 40.74611 -73.97400 -0.295659588
## 7686 40.79618 -73.96312 -1.024618715
## 7687 40.73190 -73.98981  0.233423650
## 7689 40.82936 -73.94930 -0.589594720
## 7691 40.81216 -73.95036  0.233423650
## 7692 40.86471 -73.92474 -0.354446614
## 7694 40.75696 -73.98323 -0.765955799
## 7696 40.80143 -73.93916 -0.589594720
## 7697 40.81226 -73.94349 -0.589594720
## 7699 40.80413 -73.96556 -0.954074283
## 7701 40.80245 -73.95830 -0.236872561
## 7702 40.81561 -73.94823 -0.366204019
## 7704 40.73691 -73.99715 -0.601352125
## 7706 40.80300 -73.93913 -0.589594720
## 7707 40.80494 -73.95463  0.233423650
## 7709 40.72653 -73.97949 -0.354446614
## 7711 40.80498 -73.96640  1.409164178
## 7712 40.81524 -73.94168 -0.977589094
## 7714 40.80158 -73.96182 -0.354446614
## 7716 40.75205 -73.97076 -0.354446614
## 7717 40.79752 -73.93287 -0.765955799
## 7719 40.83029 -73.94191 -0.824742825
## 7721 40.80505 -73.93964 -0.413233640
## 7722 40.79906 -73.96517 -0.824742825
## 7724 40.74755 -74.00394 -0.295659588
## 7726 40.72902 -74.00152 -0.166328130
## 7727 40.79900 -73.97012 -0.001724456
## 7729 40.74686 -73.97361  0.644932835
## 7731 40.84251 -73.94105 -0.918802068
## 7732 40.84288 -73.94201 -0.895287257
## 7734 40.71409 -73.99427 -0.695411367
## 7736 40.76122 -73.98655 -0.707168773
## 7737 40.76384 -73.98248 -0.060511482
## 7739 40.81761 -73.94434 -0.589594720
## 7741 40.75258 -73.97111  0.045305165
## 7742 40.71688 -73.99040 -0.060511482
## 7744 40.73221 -73.97941 -0.624866936
## 7746 40.76557 -73.99090  0.644932835
## 7747 40.81842 -73.93910 -1.036376120
## 7749 40.71968 -73.98453 -0.119298508
## 7751 40.72285 -73.98895 -0.648381746
## 7752 40.82682 -73.95157 -0.707168773
## 7754 40.84638 -73.93846 -0.989346499
## 7756 40.74605 -73.97730 -0.589594720
## 7757 40.74413 -73.97993 -0.472020667
## 7759 40.72800 -74.00032 -0.366204019
## 7761 40.75073 -73.99549  1.997034442
## 7762 40.85269 -73.93616 -0.589594720
## 7764 40.80079 -73.95783 -0.530807693
## 7766 40.78269 -73.95452 -0.530807693
## 7767 40.72548 -74.00210  0.821293914
## 7769 40.78774 -73.94627 -0.671896557
## 7771 40.70400 -74.00646 -0.472020667
## 7772 40.81922 -73.95287 -0.942316878

```

```

## 7774 40.71368 -73.99635 -0.377961425
## 7776 40.81795 -73.94099 -0.354446614
## 7777 40.80128 -73.93991 -0.613109530
## 7779 40.77649 -73.98800  0.762506888
## 7781 40.77365 -73.94961 -0.589594720
## 7782 40.80041 -73.94615 -0.836500231
## 7784 40.83967 -73.94189 -0.707168773
## 7786 40.74991 -73.98854  0.233423650
## 7787 40.81458 -73.93696  0.233423650
## 7789 40.80658 -73.95736  0.092334787
## 7791 40.85044 -73.93042 -1.048133526
## 7792 40.79993 -73.96475  0.080577381
## 7794 40.76996 -73.95117  1.056442020
## 7796 40.75987 -73.99615 -0.060511482
## 7797 40.73258 -73.98039 -0.366204019
## 7799 40.77551 -73.95404 -0.119298508
## 7801 40.84467 -73.94289 -0.472020667
## 7802 40.74010 -73.98256 -0.707168773
## 7804 40.84905 -73.93951 -0.601352125
## 7806 40.84762 -73.93898 -1.001103905
## 7807 40.72797 -73.98155 -0.683653962
## 7809 40.81758 -73.94008 -0.648381746
## 7811 40.81488 -73.93458 -0.765955799
## 7812 40.82539 -73.94880 -0.707168773
## 7814 40.75286 -73.99297 -0.119298508
## 7816 40.79913 -73.94226 -0.472020667
## 7817 40.80995 -73.93801  0.997654993
## 7819 40.74049 -73.98184 -0.860015041
## 7821 40.80109 -73.94364  0.233423650
## 7822 40.70664 -74.01258 -0.860015041
## 7824 40.80243 -73.96637 -0.954074283
## 7826 40.83423 -73.94723 -0.660139151
## 7827 40.80656 -73.95593 -0.824742825
## 7829 40.76443 -73.98516 -0.495535477
## 7831 40.81274 -73.94357 -0.236872561
## 7832 40.83331 -73.94547 -0.942316878
## 7834 40.79339 -73.93784  0.233423650
## 7836 40.79266 -73.94740 -0.942316878
## 7837 40.80268 -73.94244 -0.354446614
## 7839 40.78099 -73.95366 -0.013481861
## 7841 40.70597 -74.01562 -0.366204019
## 7842 40.81697 -73.94225 -1.071648336
## 7844 40.81951 -73.94161 -0.942316878
## 7846 40.72626 -73.98729 -0.589594720
## 7847 40.82258 -73.95464 -0.824742825
## 7849 40.82126 -73.95458 -0.707168773
## 7851 40.73197 -73.98674 -0.436748451
## 7852 40.77192 -73.95369 -0.413233640
## 7854 40.82233 -73.94687 -1.118677957
## 7856 40.78749 -73.94749  0.115849597
## 7857 40.80953 -73.95410 -0.824742825
## 7859 40.79633 -73.93605 -0.648381746
## 7861 40.76404 -73.98933 -0.472020667

```

LINEAR REGRESSION

```
https://datascienceplus.com/fitting-neural-network-in-r/
```

```
cat("== Linear Regression without filters ==\n")
```

```
## == Linear Regression without filters ==
```

```
lm.fit <- lm(price~, data=train)
summary(lm.fit)
```

```
##
```

```
## Call:
```

```
## lm(formula = price ~ ., data = train)
```

```
##
```

```
## Residuals:
```

```
##    Min      1Q  Median      3Q     Max
## -1.8547 -0.4463 -0.1366  0.2344  4.8331
```

```
##
```

```
## Coefficients:
```

| | Estimate | Std. Error | t value | Pr(> t) |
|-------------------------|------------|------------|---------|--------------|
| ## (Intercept) | -1.942e+02 | 1.398e+01 | -13.892 | < 2e-16 *** |
| ## neighbourhood_group2 | 5.014e-01 | 1.597e-02 | 31.392 | < 2e-16 *** |
| ## neighbourhood_group3 | 2.405e-01 | 1.962e-02 | 12.260 | < 2e-16 *** |
| ## neighbourhood_group4 | -9.411e-01 | 5.926e-02 | -15.882 | < 2e-16 *** |
| ## neighbourhood_group5 | 2.710e-01 | 3.853e-02 | 7.033 | 2.07e-12 *** |
| ## latitude | -1.611e+00 | 1.372e-01 | -11.745 | < 2e-16 *** |
| ## longitude | -3.504e+00 | 1.573e-01 | -22.273 | < 2e-16 *** |
| ## room_type2 | 1.014e+00 | 9.507e-03 | 106.674 | < 2e-16 *** |
| ## room_type3 | -2.672e-01 | 2.997e-02 | -8.915 | < 2e-16 *** |
| ## --- | | | | |

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

```
## Residual standard error: 0.773 on 28566 degrees of freedom
```

```
## Multiple R-squared:  0.4027, Adjusted R-squared:  0.4026
```

```
## F-statistic:  2408 on 8 and 28566 DF,  p-value: < 2.2e-16
```

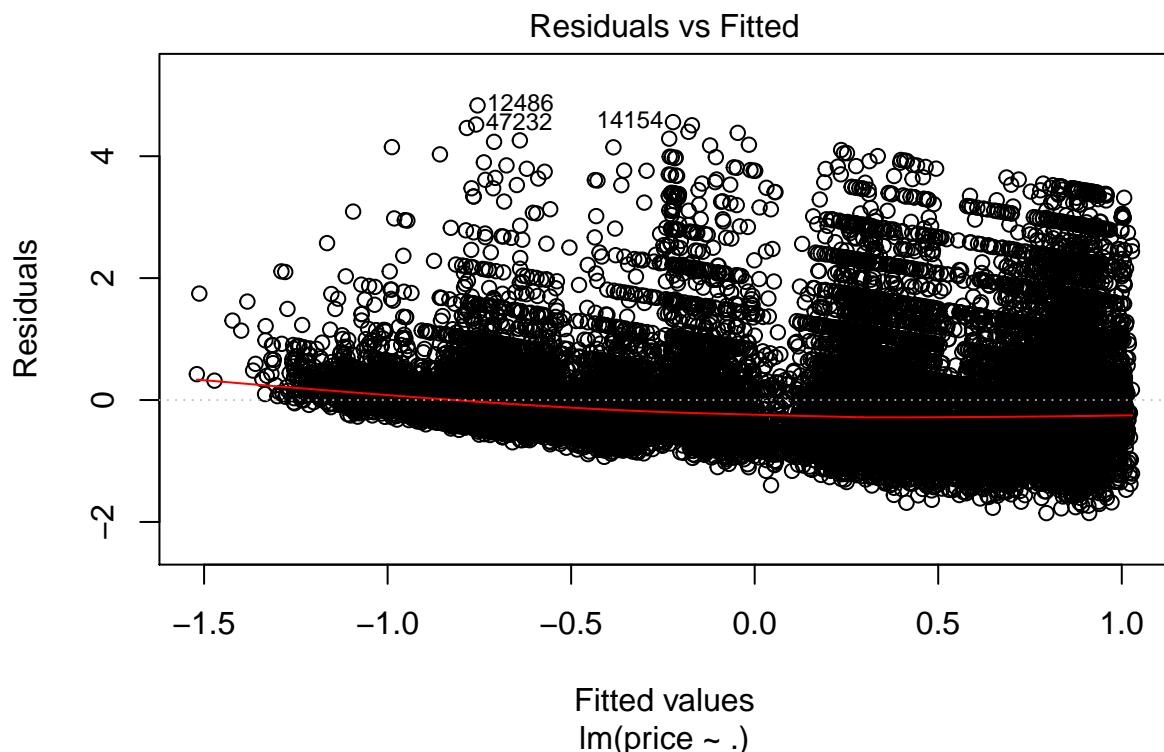
```
pr.lm <- predict(lm.fit,test)
```

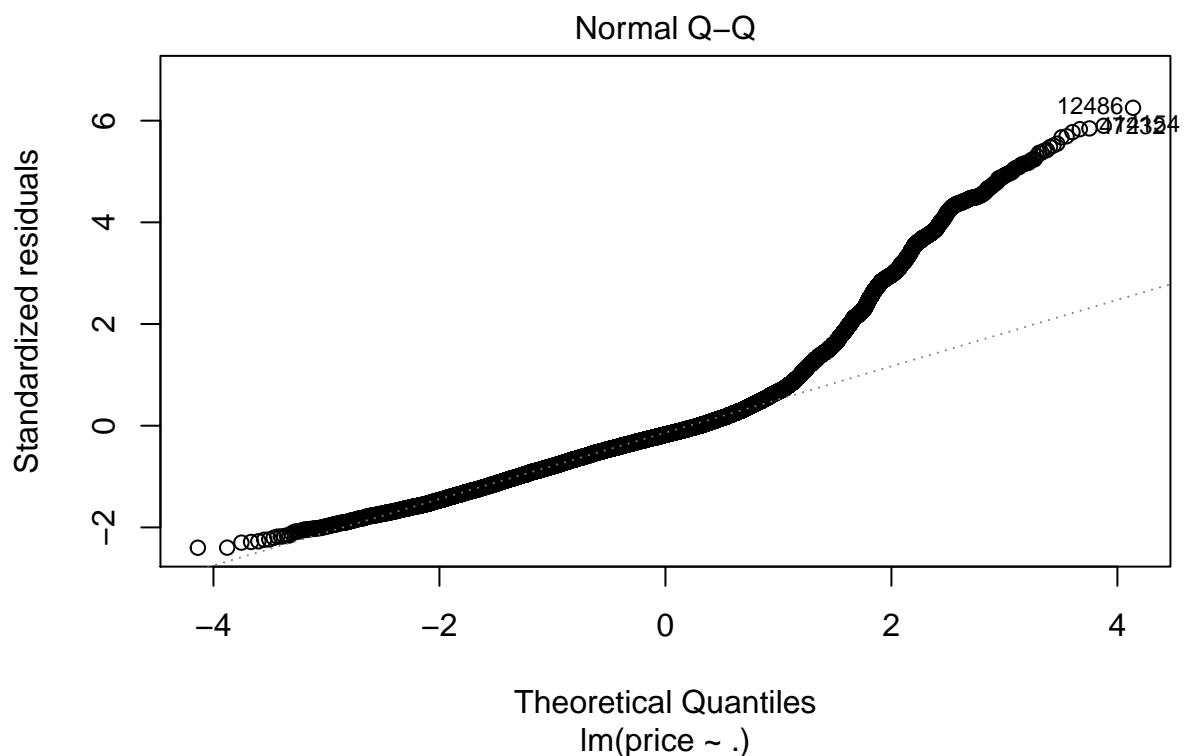
```
MSE.lm <- sum((pr.lm - test$price)^2)/nrow(test)
```

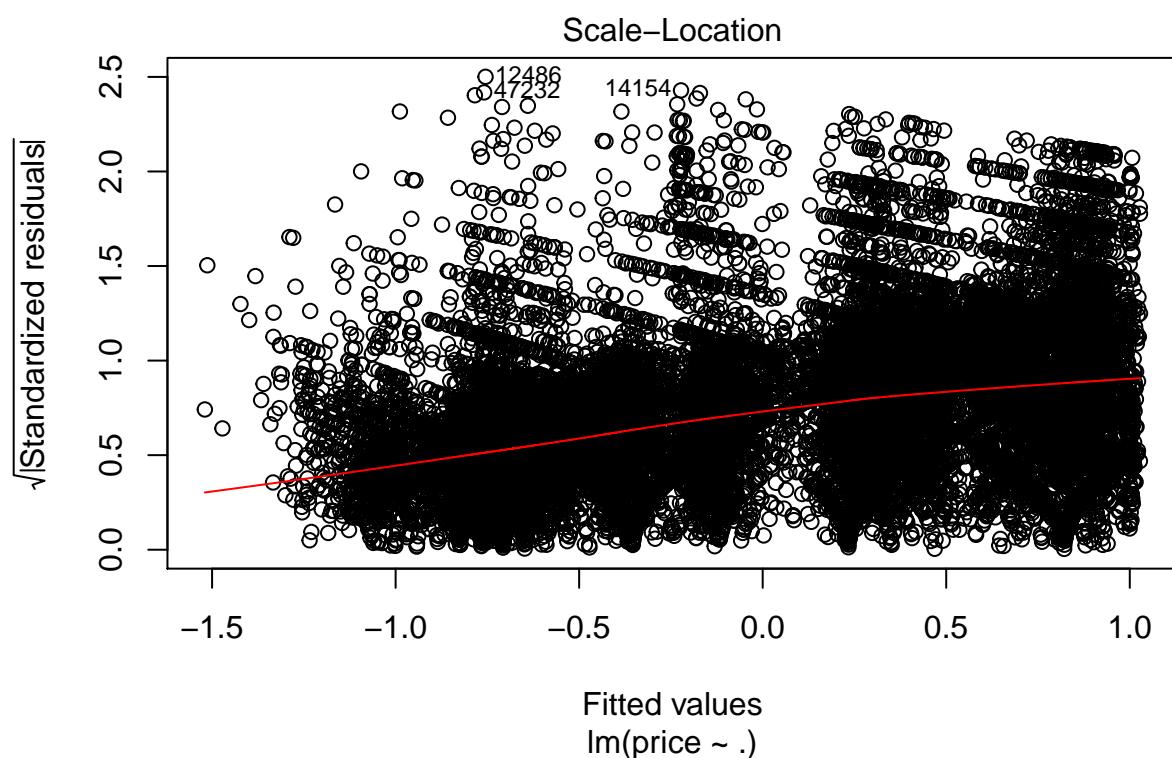
```
cat("MSE: ",MSE.lm)
```

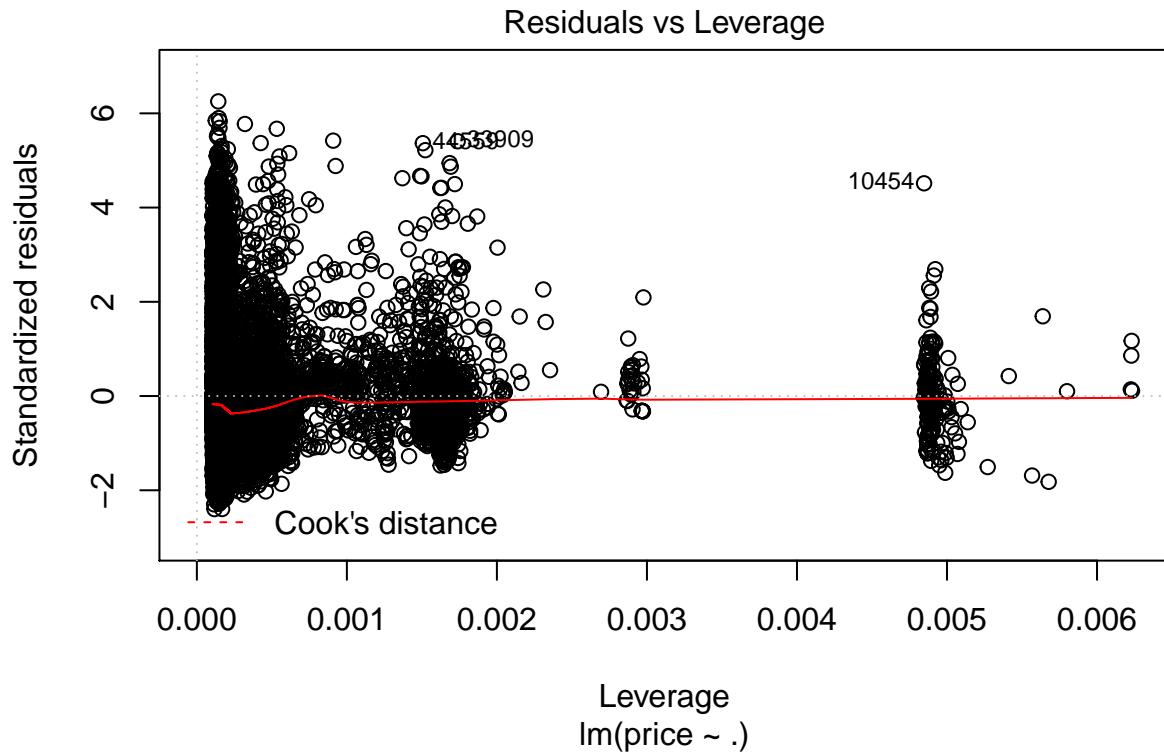
```
## MSE:  0.5936053
```

```
plot(lm.fit)
```









```

library(dplyr)

cat(" === Linear Regression selecting the Neighbourhood group === \n")

## === Linear Regression selecting the Neighbourhood group ===
cat("Neighbourhood group = Manhattan\n ")

## Neighbourhood group = Manhattan
##
lm2.fit <- lm(price~., data=train_neig)
summary(lm2.fit)

##
## Call:
## lm(formula = price ~ ., data = train_neig)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -2.4027 -0.5372 -0.1876  0.3005  4.6113 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) -912.49755   64.98719 -14.041 < 2e-16 ***
## longitude    -0.14947    0.39428  -0.379    0.705    
## room_type2     1.04113    0.01668   62.402 < 2e-16 ***
## 
```

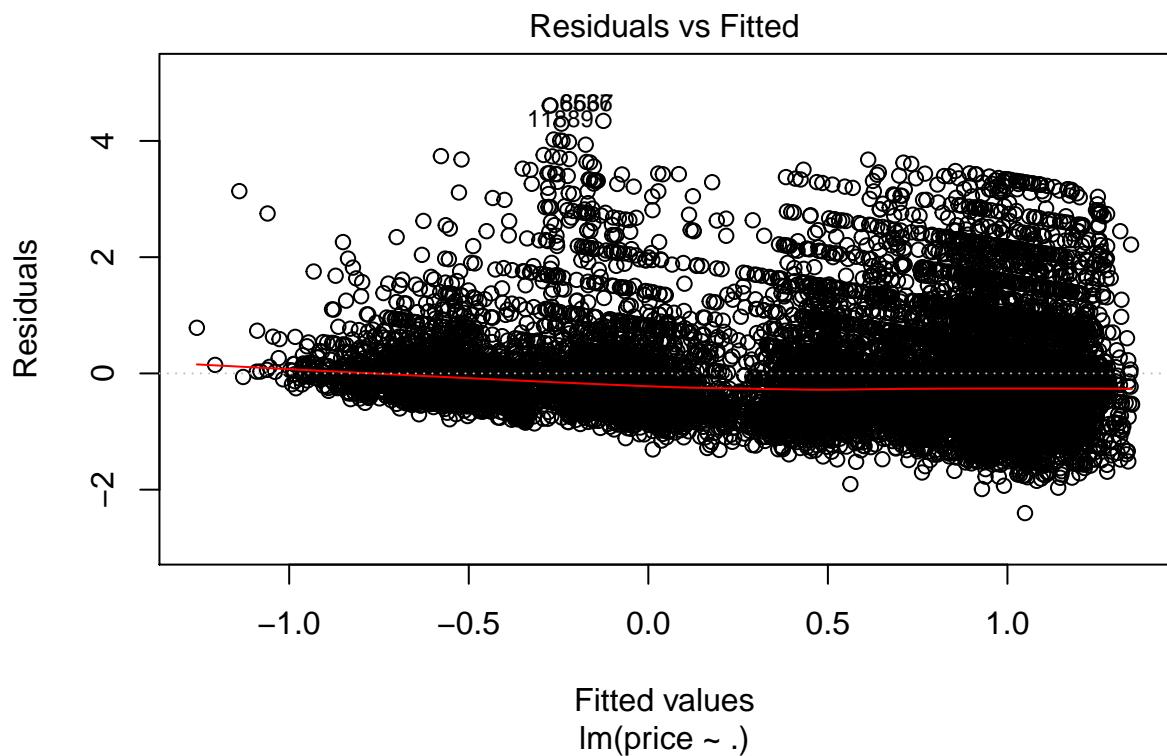
```

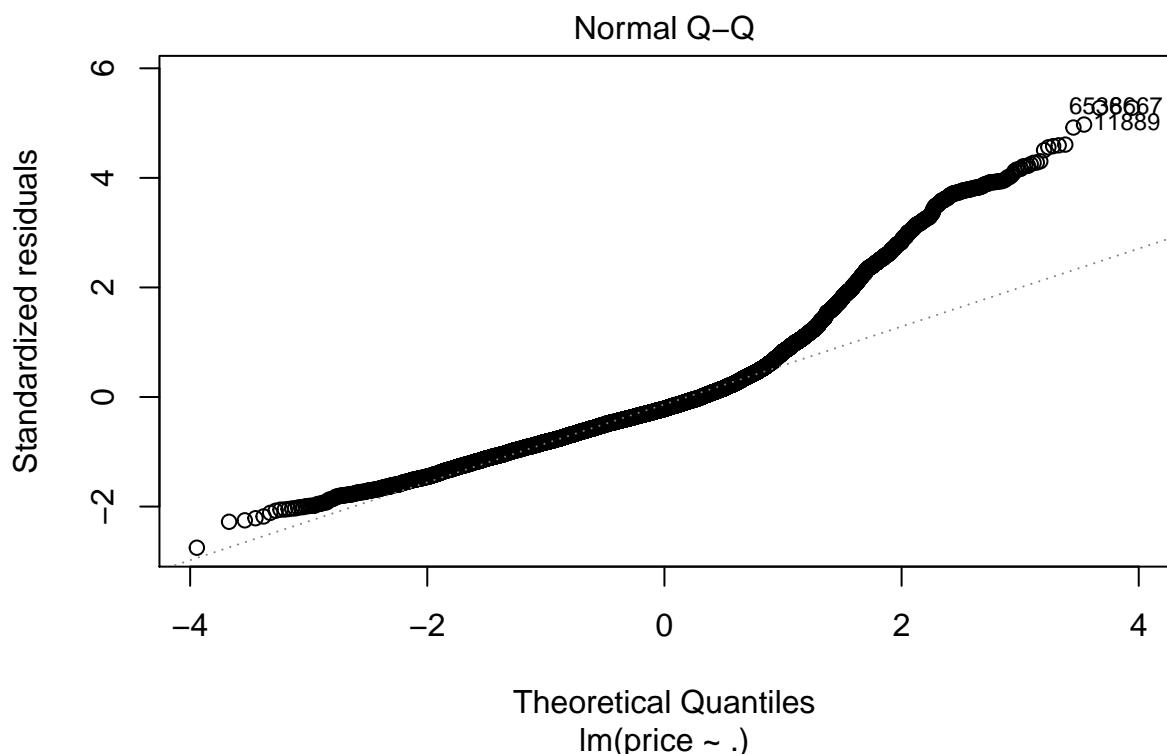
## room_type3    -0.28296     0.05306   -5.333 9.82e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8736 on 12442 degrees of freedom
## Multiple R-squared:  0.3487, Adjusted R-squared:  0.3485
## F-statistic:  1666 on 4 and 12442 DF,  p-value: < 2.2e-16
pr2.lm <- predict(lm2.fit,test_neig)
MSE2.lm <- sum((pr2.lm - test_neig$price)^2)/nrow(test_neig)

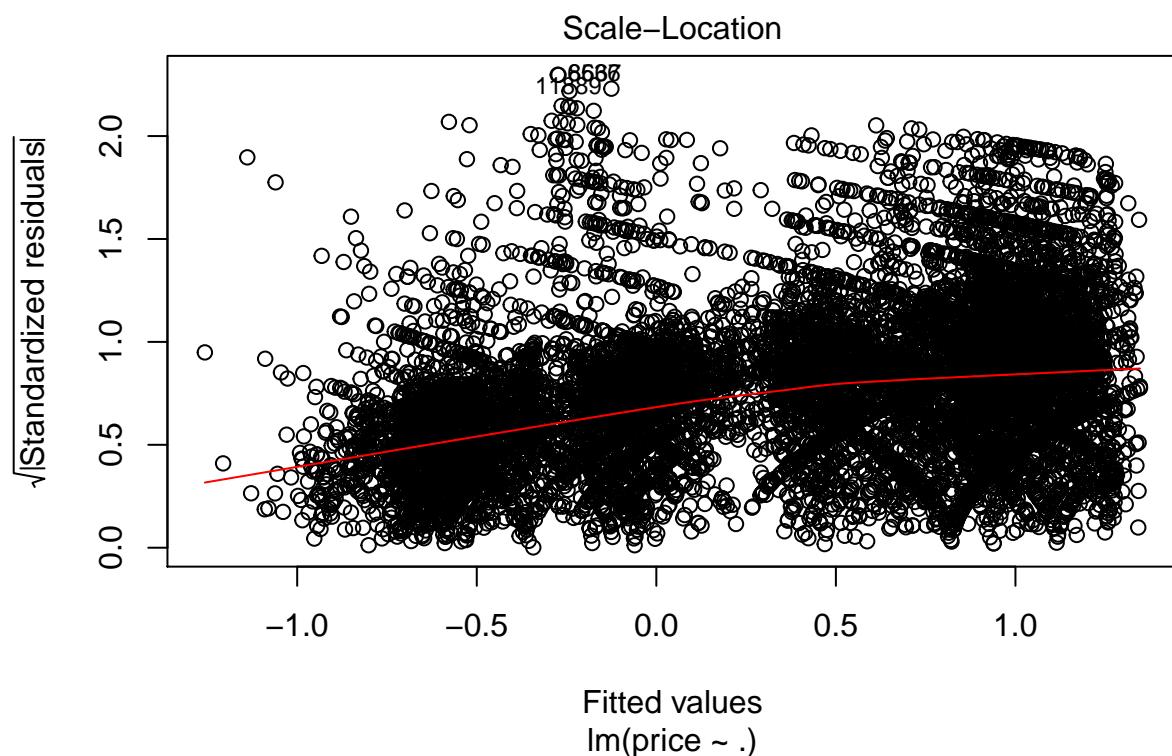
cat("MSE: ",MSE2.lm)

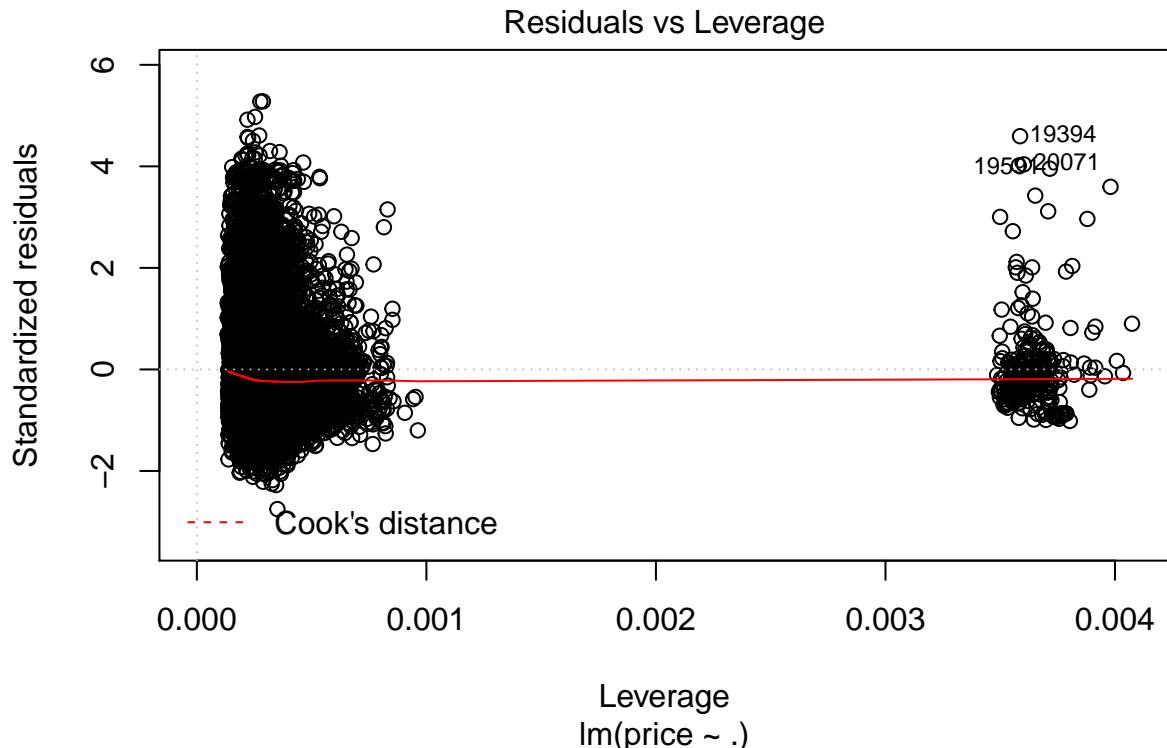
## MSE:  0.7348595
plot(lm2.fit)

```









```

library(dplyr)

cat("== Linear Regression selecting the Neighbourhood group and room_type ==\n")

## == Linear Regression selecting the Neighbourhood group and room_type ==
cat("Neighbourhood group = Manhattan and room_type = Entire home/apt\n ")

## Neighbourhood group = Manhattan and room_type = Entire home/apt
## 
lm3.fit <- lm(price ~ ., data=train_neig_room)
summary(lm3.fit)

##
## Call:
## lm(formula = price ~ ., data = train_neig_room)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.2507 -0.3790 -0.1659  0.1470  4.6028
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -559.5929    83.7668  -6.680 2.66e-11 ***
## latitude     -1.1575     0.4803  -2.410   0.016 *
## longitude    -8.1990     0.8923 -9.189  < 2e-16 ***
## ---

```

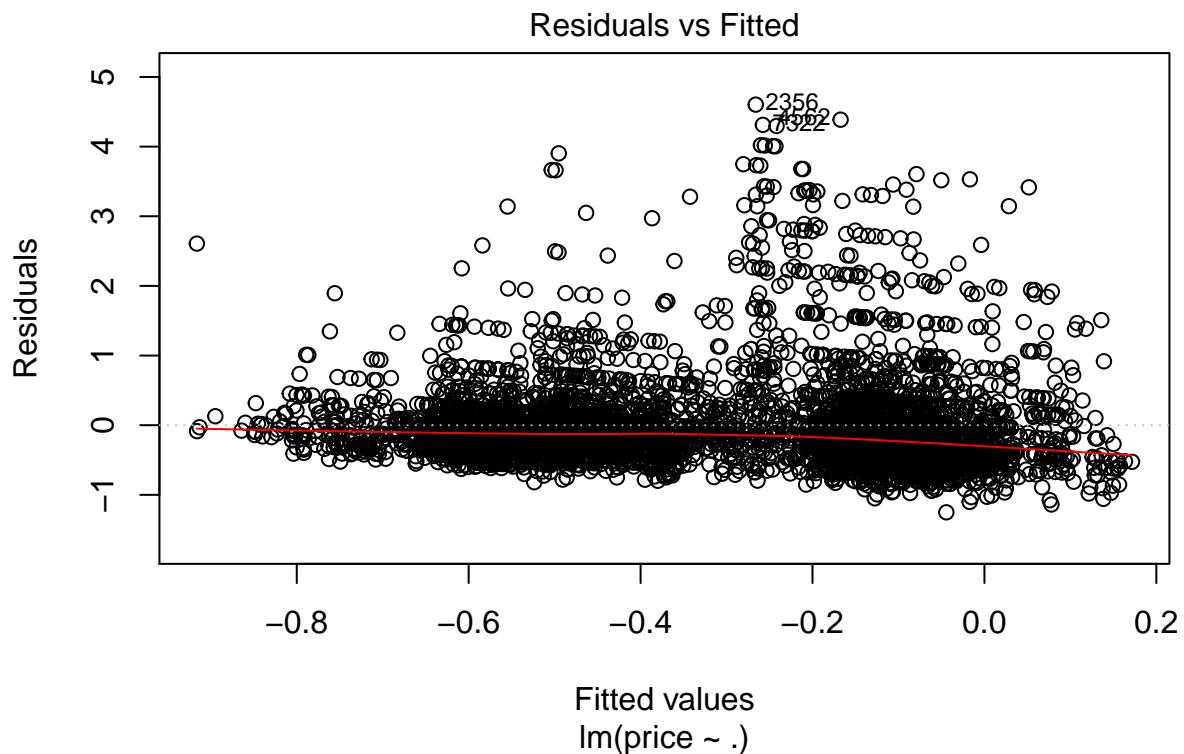
```

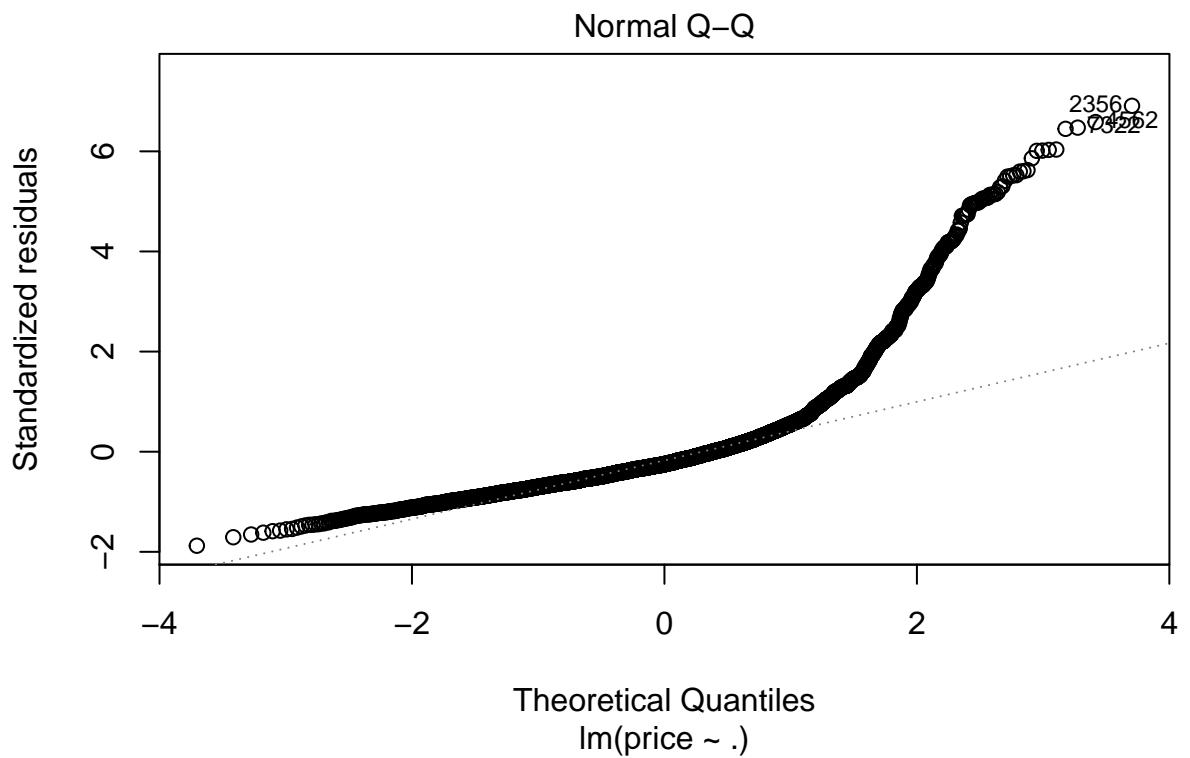
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6662 on 4714 degrees of freedom
## Multiple R-squared:  0.109, Adjusted R-squared:  0.1087
## F-statistic: 288.5 on 2 and 4714 DF, p-value: < 2.2e-16
pr3.lm <- predict(lm3.fit,test_neig_room)
MSE3.lm <- sum((pr3.lm - test_neig_room$price)^2)/nrow(test_neig_room)

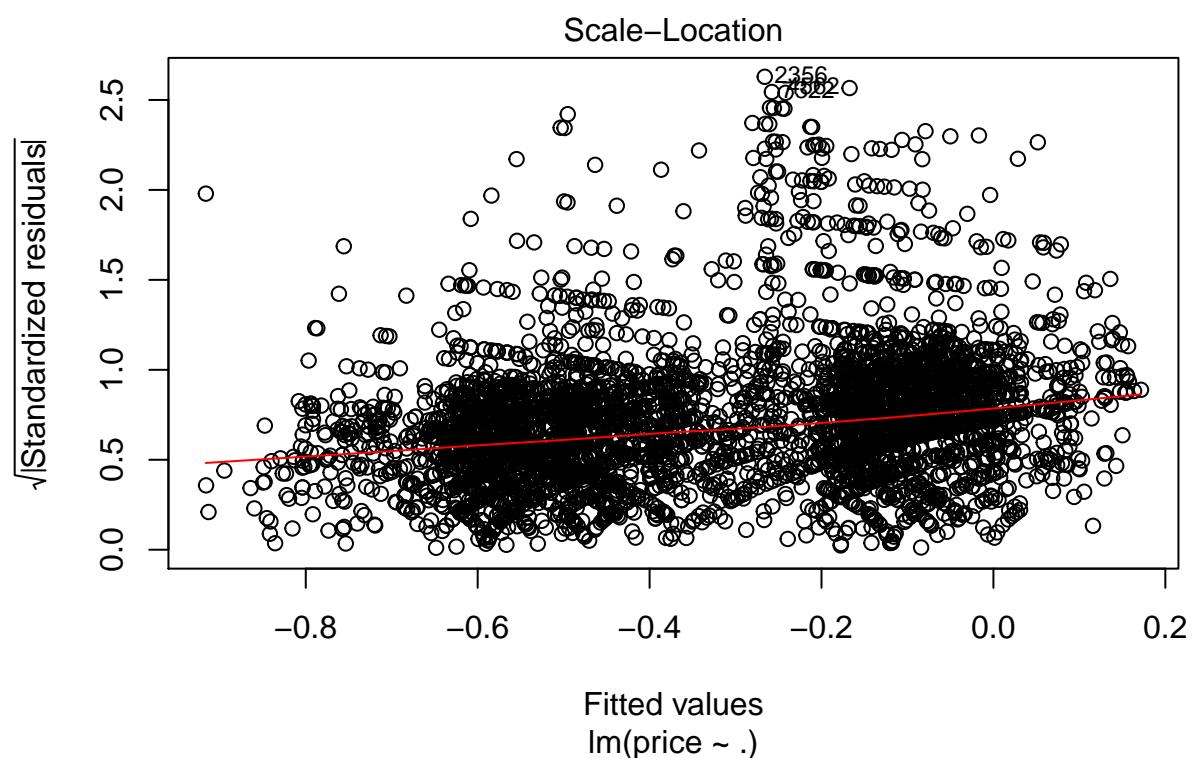
cat("MSE: ",MSE3.lm)

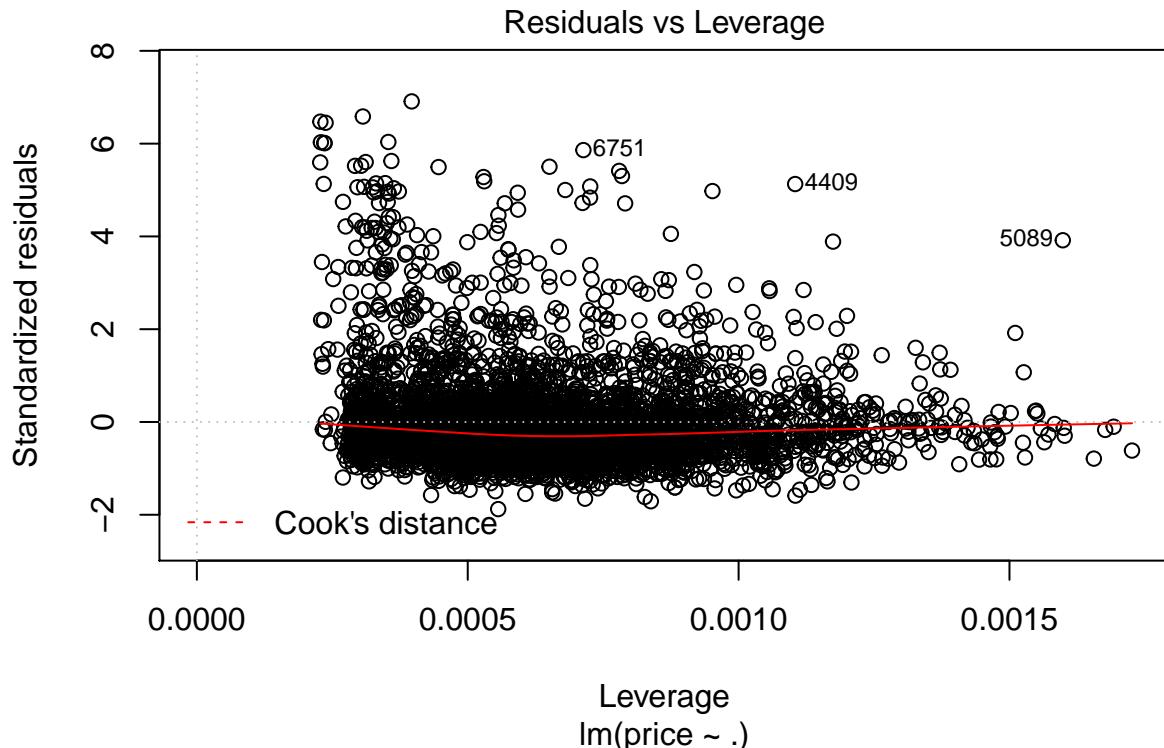
## MSE:  0.4260966
plot(lm3.fit)

```







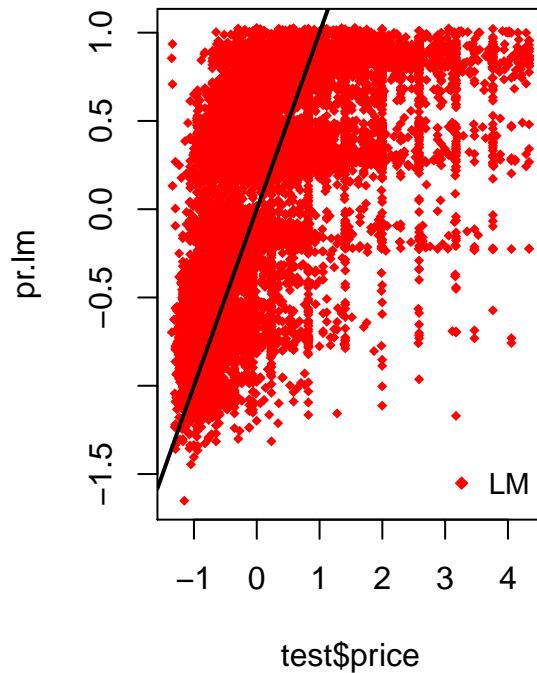


```

par(mfrow=c(1,2))
#plot(test$price,nn_pred$net.result,col='red',main='Real vs predicted NN',pch=18,cex=0.7)
#abline(0,1,lwd=2)
#legend('bottomright',legend='NN',pch=18,col='red', bty='n')
plot(test$price,pr.lm,col='red',main='Real vs predicted LN',pch=18, cex=0.7)
abline(0,1,lwd=2)
legend('bottomright',legend='LM',pch=18,col='red', bty='n', cex=.95)

```

Real vs predicted LN



DECISION TREE

```
library(rpart) library(caret) library(e1071)
dt = train( price~ ., data = train,method = "rpart") pred2 = predict(dt, data = testprice)table(pred2,testprice)
library(tree)

## Registered S3 method overwritten by 'tree':
##   method      from
##   print.tree  cli

library(MASS)

##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
## 
##   select
tree_reg =tree(price~., data = train)
cat(" === Decision Tree without filters === \n")

## === Decision Tree without filters ===
summary(tree_reg)

##
```

```

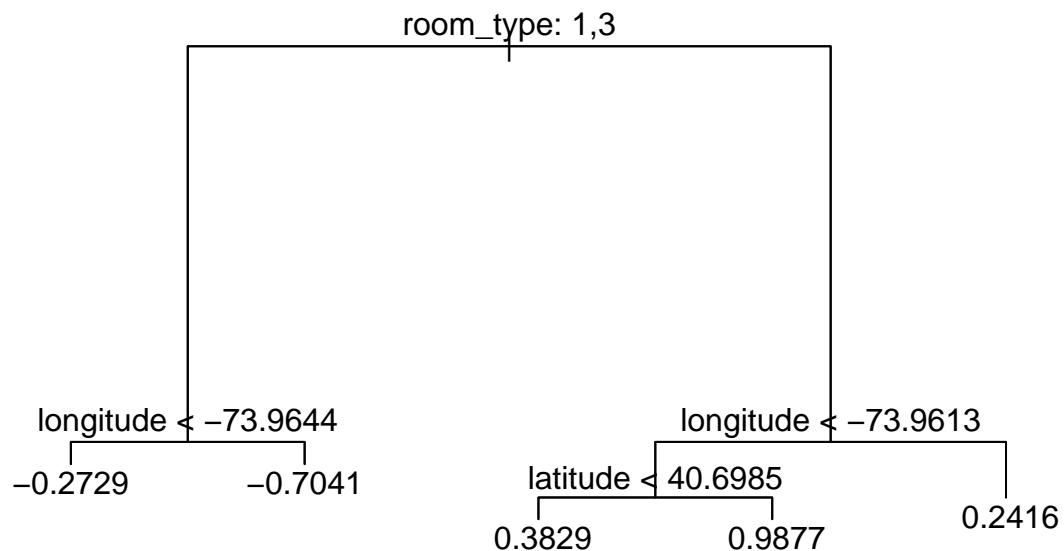
## Regression tree:
## tree(formula = price ~ ., data = train)
## Variables actually used in tree construction:
## [1] "room_type" "longitude" "latitude"
## Number of terminal nodes:  5
## Residual mean deviance:  0.591 = 16890 / 28570
## Distribution of residuals:
##    Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.0480 -0.4197 -0.1404 0.0000 0.2321 4.7820

yhat=predict(tree_reg,test)
tree_reg_mse = mean((yhat-test$price)^2)
tree_reg_mse

## [1] 0.5890307

plot(tree_reg)
text(tree_reg,pretty=0)

```



```

cat(" === Decision Tree selecting the Neighbourhood group === \n")

## === Decision Tree selecting the Neighbourhood group ===
cat("Neighbourhood group = Manhattan\n ")

## Neighbourhood group = Manhattan
##

```

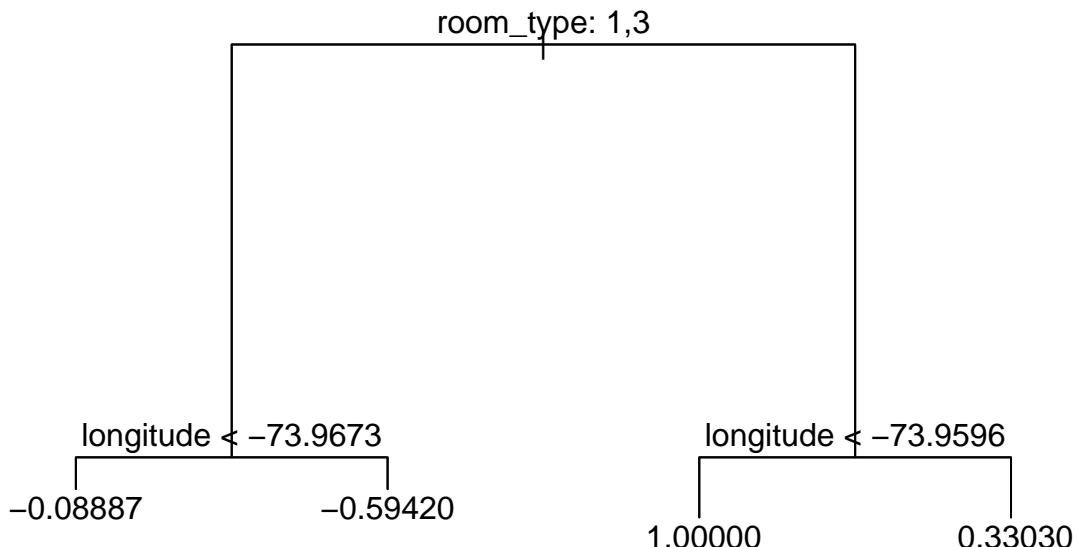
```

tree_reg =tree(price~, data = train_neig)
summary(tree_reg)

##
## Regression tree:
## tree(formula = price ~ ., data = train_neig)
## Variables actually used in tree construction:
## [1] "room_type" "longitude"
## Number of terminal nodes: 4
## Residual mean deviance: 0.7657 = 9528 / 12440
## Distribution of residuals:
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.3540 -0.5245 -0.1787 0.0000 0.3223 4.4260
tree_reg_mse = mean((predict(tree_reg,test_neig)-test_neig$price)^2)
tree_reg_mse

## [1] 0.7444724
plot(tree_reg)
text(tree_reg,pretty=1)

```



```

cat("== Decision Tree selecting the Neighbourhood group and room_type ===\n")

## == Decision Tree selecting the Neighbourhood group and room_type ==
cat("Neighbourhood group = Manhattan and room_type = Entire home/apt\n ")

```

```

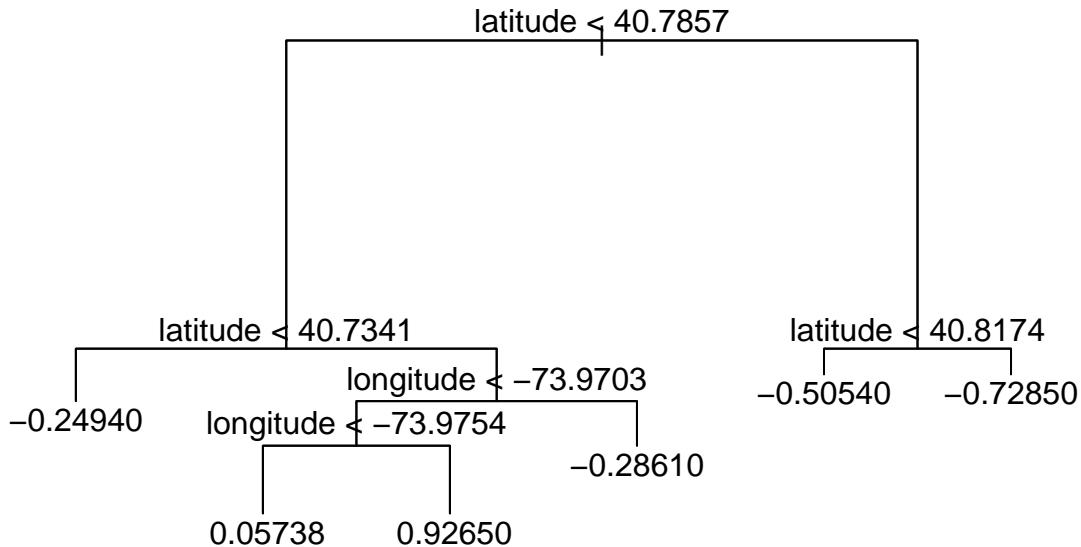
## Neighboorhood group = Manhattan and room_type = Entire home/apt
## 

tree_reg =tree(price~, data = train_neig_room)
summary(tree_reg)

## 
## Regression tree:
## tree(formula = price ~ ., data = train_neig_room)
## Number of terminal nodes:  6
## Residual mean deviance:  0.3909 = 1842 / 4711
## Distribution of residuals:
##      Min. 1st Qu. Median 3rd Qu. Max.
## -1.7510 -0.3402 -0.1168  0.0000  0.1510  4.1620
tree_reg_mse = mean((predict(tree_reg,test_neig_room)-test_neig_room$price)^2)
tree_reg_mse

## [1] 0.3889497
plot(tree_reg)
text(tree_reg,pretty=0)

```



```

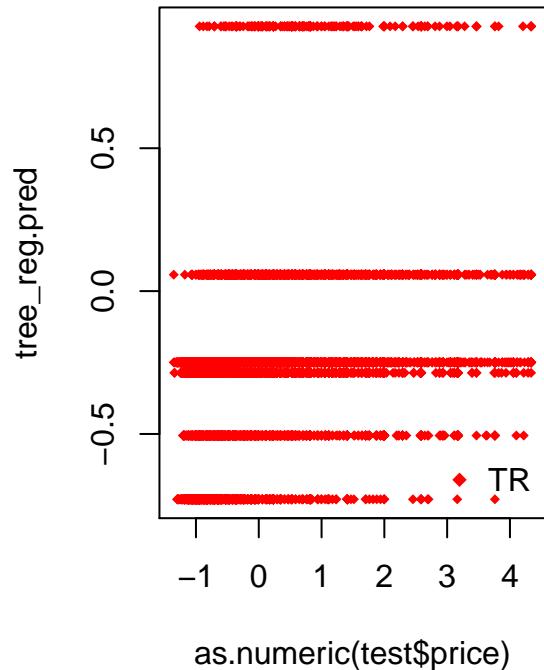
test$price = as.numeric(test$price)
tree_reg.pred=predict(tree_reg, test)
#table(tree_reg.pred,test$price)

par(mfrow=c(1,2))

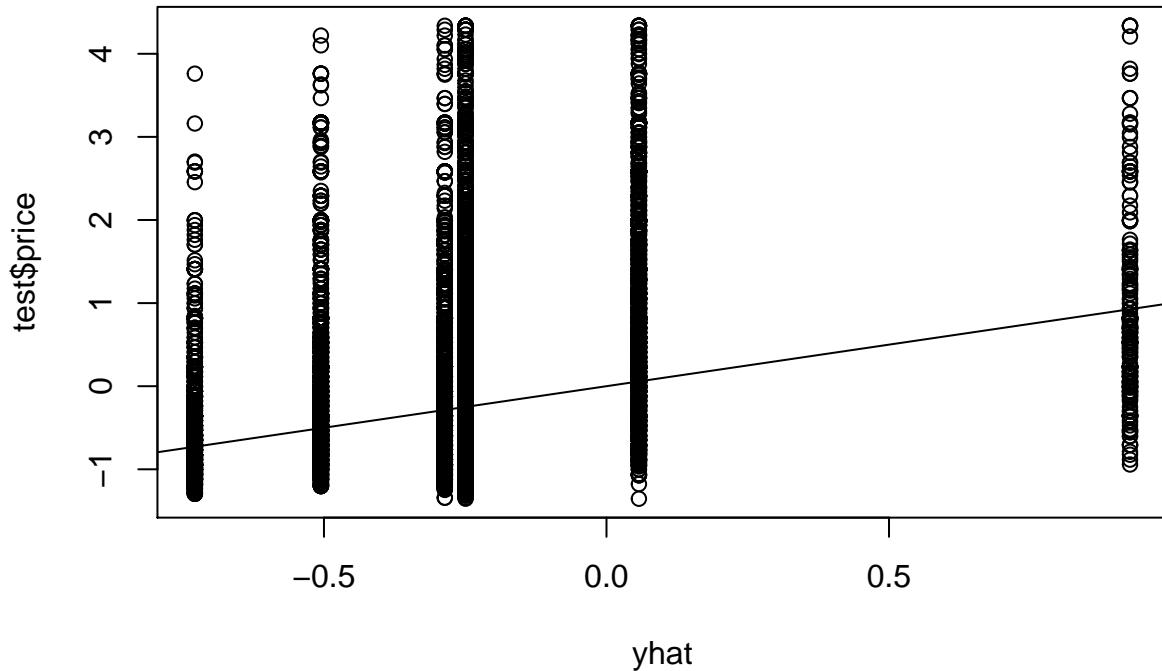
```

```
plot(as.numeric(test$price),tree_reg.pred,col='red',main='Real vs predicted Tree Regressor',pch=18,cex=1,legend('bottomright',legend='TR',pch=18,col='red', bty='n')
```

Real vs predicted Tree Regressor



```
yhat=predict(tree_reg,test)
plot(yhat,test$price)
abline(0,1)
```



```
tree_reg_mse = mean((yhat-test$price)^2)
tree_reg_mse
```

```
## [1] 0.9938988
```

RANDOM FOREST

<https://www.guru99.com/r-random-forest-tutorial.html>

GOOD VIDEO FOR PARAMETER OPTIMISATION <https://www.youtube.com/watch?v=6EXPYzbfLCE>

TUNING https://uc-r.github.io/random_forests

```
library(randomForest)
```

```
## randomForest 4.6-14
## Type rfNews() to see new features/changes/bug fixes.
##
## Attaching package: 'randomForest'
##
## The following object is masked from 'package:dplyr':
##   combine
##
## The following object is masked from 'package:ggplot2':
##   margin
```

```

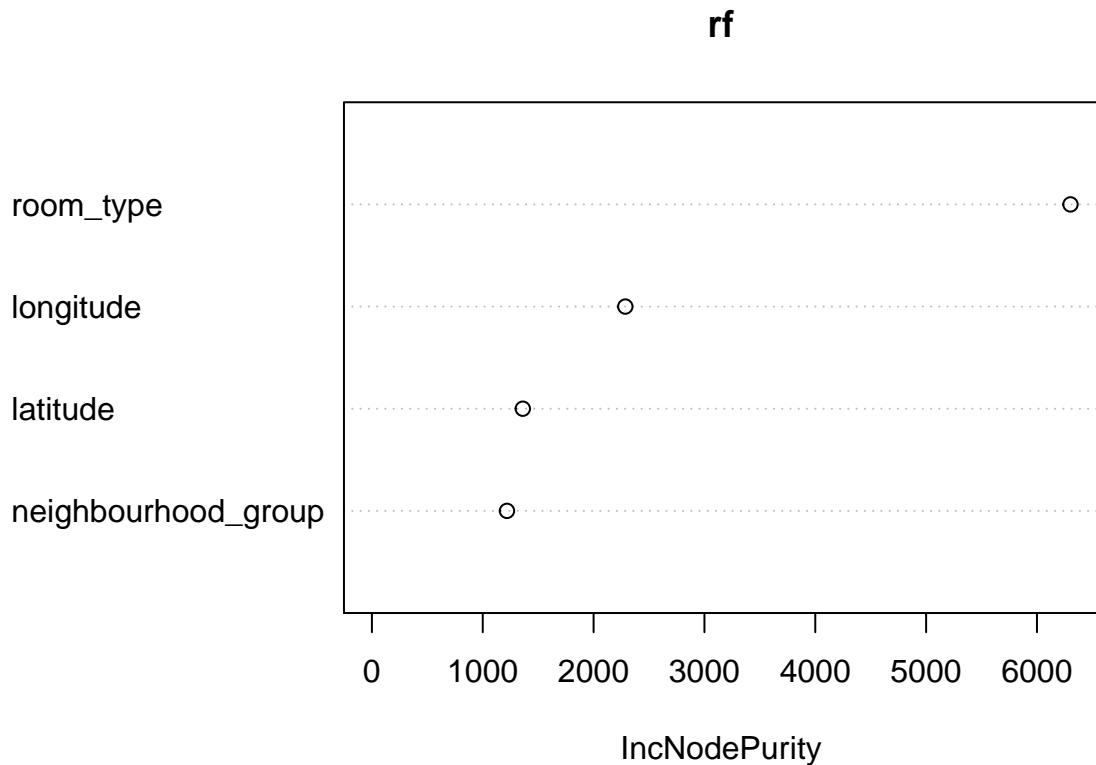
cat(" === Random Forest without filters === \n")

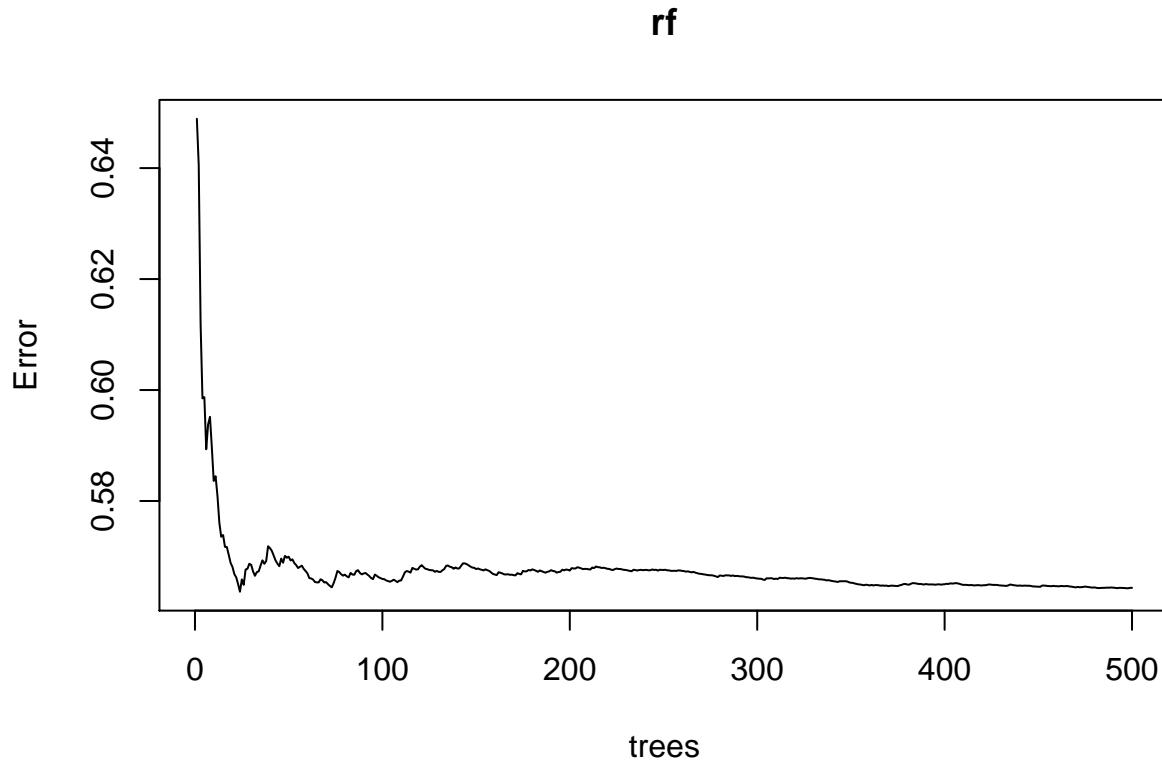
## === Random Forest without filters ===
rf <- randomForest(
  price ~ . ,
  data=train,
)
rf

##
## Call:
##   randomForest(formula = price ~ ., data = train, )
##   Type of random forest: regression
##   Number of trees: 500
##   No. of variables tried at each split: 1
##
##   Mean of squared residuals: 0.564359
##   % Var explained: 43.57

varImpPlot(rf)

```





```

cat("==> Random Forest selecting the Neighbourhood group and room_type ==>\n")

## ==> Random Forest selecting the Neighbourhood group and room_type ==
cat("Neighbourhood group = Manhattan and room_type = Entire home/apt\n ")

## Neighbourhood group = Manhattan and room_type = Entire home/apt
## 

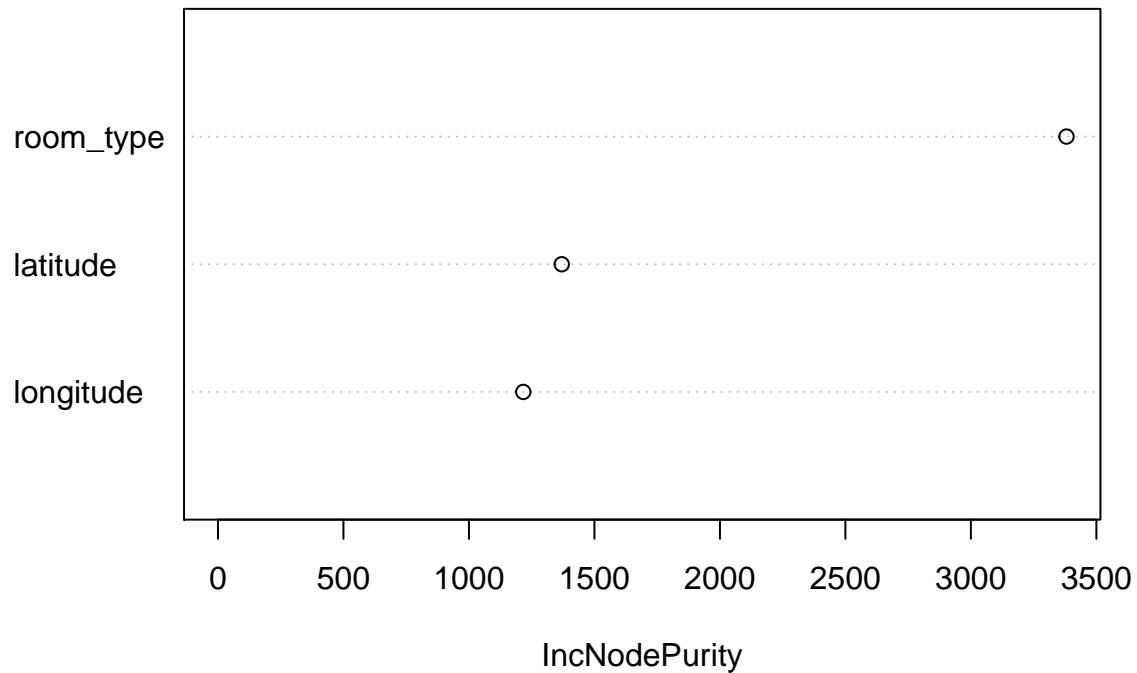
rf2 <- randomForest(
  price ~ .,
  data=train_neig,
  # importance = TRUE
)
rf2

##
## Call:
##   randomForest(formula = price ~ ., data = train_neig, )
##           Type of random forest: regression
##           Number of trees: 500
##   No. of variables tried at each split: 1
##
##           Mean of squared residuals: 0.7204133
##           % Var explained: 38.49

varImpPlot(rf2)

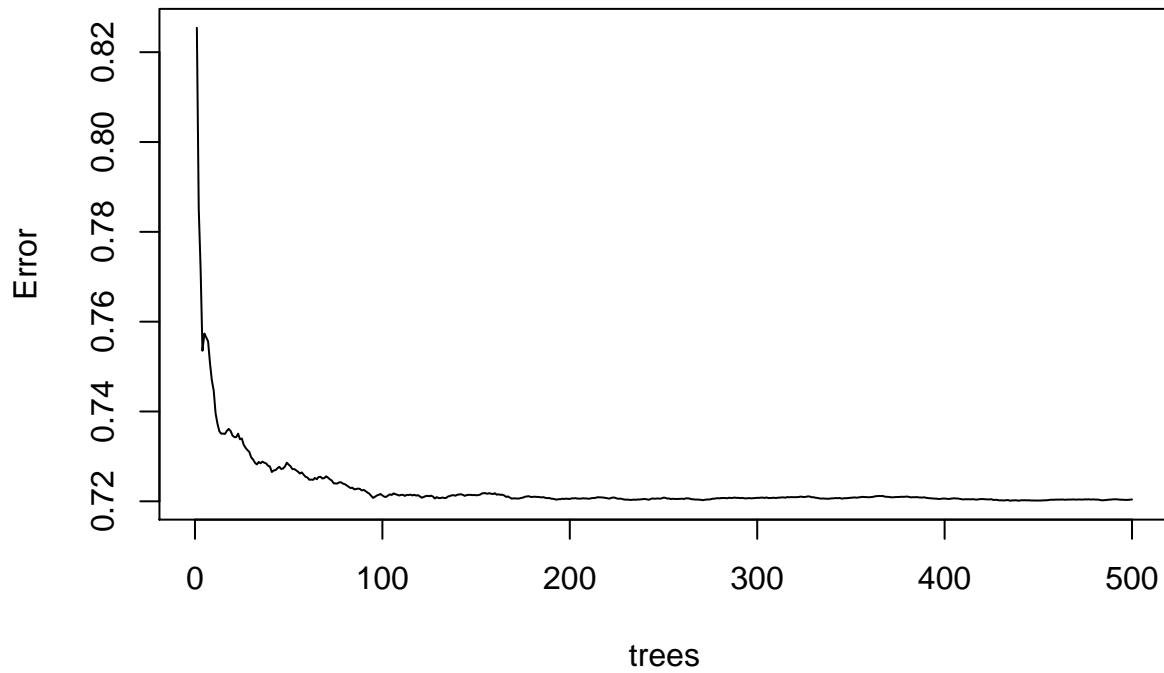
```

rf2



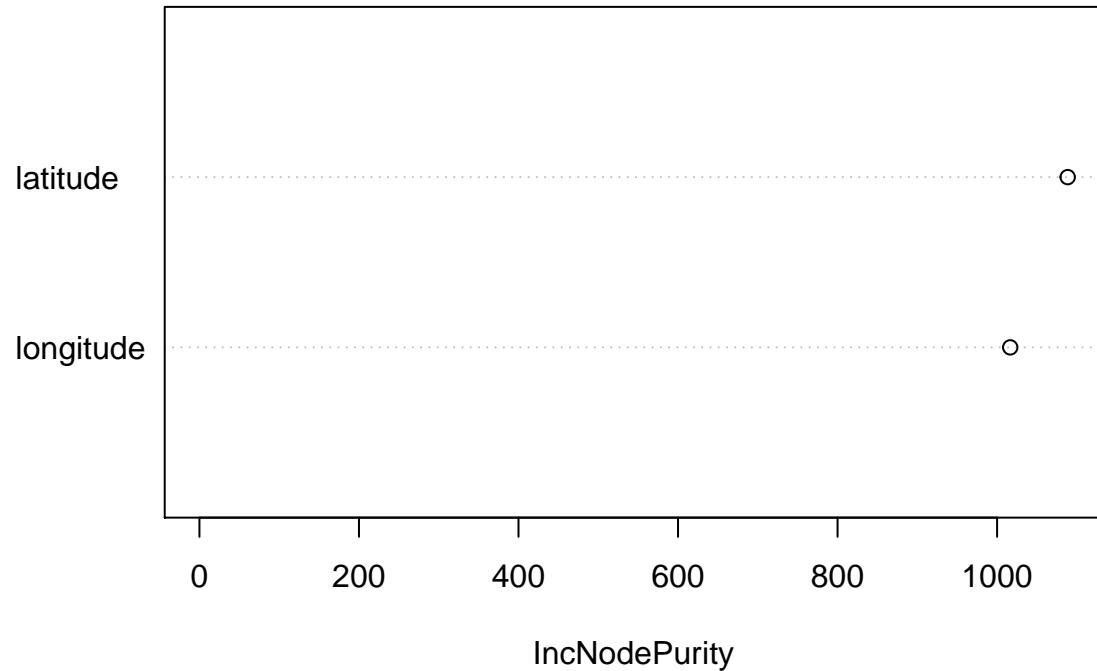
```
plot(rf2)
```

rf2



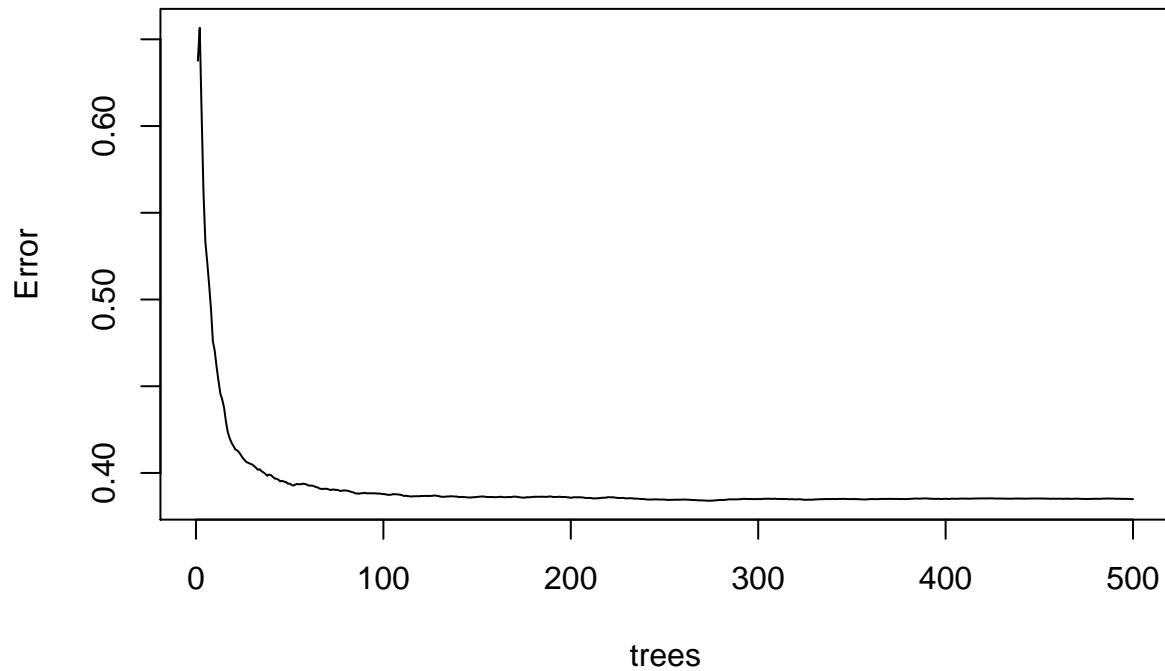
```
cat(" === Random Forest selecting the Neighboorhood group === \n")  
## === Random Forest selecting the Neighboorhood group ===  
cat("Neighboorhood group = Manhattan\n ")  
  
## Neighboorhood group = Manhattan  
##  
rf3 <- randomForest(  
  price ~ .,  
  data=train_neig_room,  
  # importance = TRUE  
)  
rf3  
  
##  
## Call:  
##   randomForest(formula = price ~ ., data = train_neig_room, )  
##           Type of random forest: regression  
##                   Number of trees: 500  
## No. of variables tried at each split: 1  
##  
##           Mean of squared residuals: 0.3849633  
##                           % Var explained: 22.68  
varImpPlot(rf3)
```

rf3



```
plot(rf3)
```

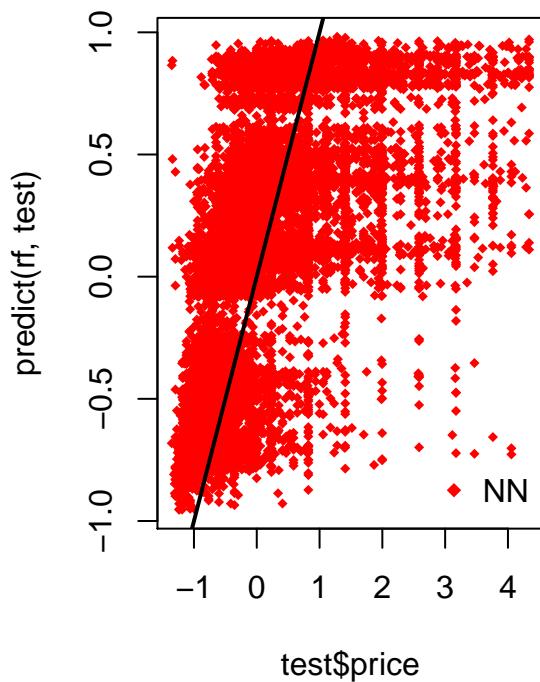
rf3



```
par(mfrow=c(1,2))
plot(test$price,predict(rf,test),col='red',main='Real vs predicted RF',pch=18,cex=0.7)
abline(0,1,lwd=2)
legend('bottomright',legend='NN',pch=18,col='red', bty='n')

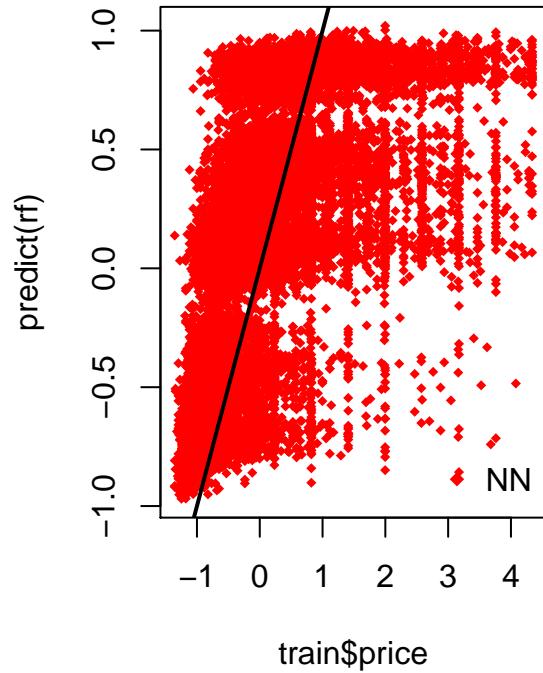
par(mfrow=c(1,2))
```

Real vs predicted RF



```
plot(train$price,predict(rf),col='red',main='OOB error',pch=18,cex=0.7)
abline(0,1,lwd=2)
legend('bottomright',legend='NN',pch=18,col='red', bty='n')
```

OOB error



```
pred <- predict(rf,test)
actuals_preds <- data.frame(cbind(actuals=test$price, predicteds=pred)) # make actuals_predicteds data frame

correlation_accuracy <- cor(actuals_preds) # 0.6043436
print(correlation_accuracy)

##           actuals predicteds
## actuals     1.0000000  0.6728383
## predicteds  0.6728383  1.0000000
head(actuals_preds)

##           actuals predicteds
## 3      0.2334236 -0.45790957
## 5     -0.5895947  0.38827591
## 8     -0.6013521  0.09123011
## 10    0.2334236  0.77411623
## 13   -0.4837781 -0.43699911
## 15   -0.1192985  0.90026667

min_max_accuracy <- mean(apply(actuals_preds, 1, min) / apply(actuals_preds, 1, max))
min_max_accuracy

## [1] 2.692878

mape <- mean(abs((actuals_preds$predicteds - actuals_preds$actuals))/actuals_preds$actuals)
mape

## [1] -3.189341
```

```

library(randomForest)
library(e1071)
library(caret)
trControl <- trainControl(method = "cv",
                           number = 10,
                           search = "grid",
                           allowParallel = TRUE
)
trControl$method

## [1] "cv"
trControl$number

## [1] 10
library(doParallel)

## Loading required package: foreach

##
## Attaching package: 'foreach'

## The following objects are masked from 'package:purrr':
##
##     accumulate, when

## Loading required package: iterators

## Loading required package: parallel

library(doFuture)

## Loading required package: globals

## Loading required package: future

##
## Attaching package: 'future'

## The following object is masked from 'package:caret':
##
##     cluster

start.time <- Sys.time()

rf_default <- caret::train(
  price ~ . ,
  data=train_neig_room,
  method = "rf",
  trControl = trControl,
  num.threads = availableCores() # <- This one
)

## note: only 1 unique complexity parameters in default grid. Truncating the grid to 1 .
end.time <- Sys.time()
time.taken <- end.time - start.time

```

```

print("-- Time: -- ")

## [1] "-- Time: -- "

time.taken

## Time difference of 2.270614 mins
print("")

## [1] ""

print("-- RANDOM FOREST -- ")

## [1] "-- RANDOM FOREST -- "
print(rf_default)

## Random Forest
##
## 4717 samples
##     2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4245, 4244, 4246, 4246, 4246, 4246, ...
## Resampling results:
##
##    RMSE      Rsquared   MAE
##    0.6254674  0.240288  0.4166184
##
## Tuning parameter 'mtry' was held constant at a value of 2
start.time <- Sys.time()

set.seed(1234)
tuneGrid <- expand.grid(.mtry = c(1: 10))
rf_mtry <- caret::train(
  price~.,
  data = train_neig_room,
  method = "rf",
  #metric = "Accuracy",
  tuneGrid = tuneGrid,
  trControl = trControl,
  importance = TRUE,
  nodesize = 14,
  ntree = 300,
  num.threads = availableCores()
)

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:

```

```
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range
```

```
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range
```

```
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
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## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range
```

```
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

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## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range
```

```

## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:
## reset to within valid range

end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 8.129862 mins
print("")

## [1] ""
print(rf_mtry)

## Random Forest
##
## 4717 samples
##     2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4247, 4245, 4244, 4246, 4243, 4245, ...
## Resampling results across tuning parameters:
##
##   mtry    RMSE      Rsquared      MAE
##   1       0.6098742  0.2588111  0.4068962
##   2       0.6149156  0.2545412  0.4104591
##   3       0.6147751  0.2542736  0.4102481
##   4       0.6150706  0.2539068  0.4104574
##   5       0.6149030  0.2540145  0.4104621
##   6       0.6150684  0.2538458  0.4109497
##   7       0.6150407  0.2543109  0.4105465
##   8       0.6137319  0.2561957  0.4103107
##   9       0.6148239  0.2541645  0.4107766
##  10      0.6150110  0.2542326  0.4104743
##
## RMSE was used to select the optimal model using the smallest value.

```

```

## The final value used for the model was mtry = 1.
best_mtry <- rf_mtry$bestTune$mtry
cat("Best mtry value:", best_mtry)

## Best mtry value: 1
cat("\nMax accuracy mtry:", max(rf_mtry$results$Accuracy))

## Warning in max(rf_mtry$results$Accuracy): no non-missing arguments to max;
## returning -Inf

##
## Max accuracy mtry: -Inf
start.time <- Sys.time()

store_maxnode <- list()
tuneGrid <- expand.grid(.mtry = best_mtry)
for (maxnodes in c(5: 15)) {
  set.seed(1234)
  rf_maxnode <- caret::train(price~.,
                            data = train_neig_room,
                            method = "rf",
                            #metric = "Accuracy",
                            tuneGrid = tuneGrid,
                            trControl = trControl,
                            importance = TRUE,
                            nodesize = 14,
                            maxnodes = maxnodes,
                            ntree = 300,
  )
  current_iteration <- toString(maxnodes)
  store_maxnode[[current_iteration]] <- rf_maxnode
}

end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 1.217048 mins
print("")

## [1] ""

results_mtry <- resamples(store_maxnode)
summary(results_mtry)

##
## Call:
## summary.resamples(object = results_mtry)
##
## Models: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

```

```

## Number of resamples: 10
##
## MAE
##      Min.    1st Qu.   Median    Mean    3rd Qu.   Max. NA's
## 5  0.3937570 0.3997468 0.4038956 0.4135900 0.4222704 0.4516128 0
## 6  0.3920868 0.3980498 0.4029226 0.4117886 0.4218481 0.4483821 0
## 7  0.3923597 0.3984009 0.4034470 0.4120557 0.4213362 0.4487277 0
## 8  0.3912733 0.3964442 0.4038292 0.4114871 0.4211299 0.4475979 0
## 9  0.3899309 0.3954199 0.4045863 0.4110754 0.4207346 0.4471572 0
## 10 0.3893807 0.3930457 0.4044490 0.4097492 0.4198427 0.4451839 0
## 11 0.3882136 0.3919673 0.4028832 0.4081219 0.4184738 0.4424826 0
## 12 0.3877130 0.3911776 0.4033901 0.4077126 0.4188737 0.4417659 0
## 13 0.3883290 0.3919761 0.4031180 0.4079752 0.4190849 0.4407641 0
## 14 0.3874000 0.3913875 0.4029547 0.4076146 0.4182812 0.4421037 0
## 15 0.3873820 0.3917525 0.4033899 0.4078162 0.4188589 0.4406594 0
##
## RMSE
##      Min.    1st Qu.   Median    Mean    3rd Qu.   Max. NA's
## 5  0.5845031 0.5996905 0.6292405 0.6344185 0.6489887 0.7121871 0
## 6  0.5796028 0.5966107 0.6248260 0.6301978 0.6472132 0.7046186 0
## 7  0.5811159 0.5956078 0.6244812 0.6300523 0.6464557 0.7048633 0
## 8  0.5804429 0.5959887 0.6250604 0.6302540 0.6464800 0.7055573 0
## 9  0.5786143 0.5951720 0.6244723 0.6295942 0.6456346 0.7045128 0
## 10 0.5769579 0.5934804 0.6206929 0.6271481 0.6444520 0.7014868 0
## 11 0.5734100 0.5900356 0.6181646 0.6234863 0.6426530 0.6943195 0
## 12 0.5714963 0.5896361 0.6157654 0.6218619 0.6425343 0.6919835 0
## 13 0.5721996 0.5889530 0.6160714 0.6221163 0.6428820 0.6921615 0
## 14 0.5719957 0.5887184 0.6168512 0.6220735 0.6422110 0.6917273 0
## 15 0.5722308 0.5890904 0.6171220 0.6221671 0.6424786 0.6921989 0
##
## Rsquared
##      Min.    1st Qu.   Median    Mean    3rd Qu.   Max. NA's
## 5  0.1548340 0.1901500 0.1988889 0.1935718 0.2036537 0.2104733 0
## 6  0.1571901 0.1993606 0.2124119 0.2044387 0.2165545 0.2238496 0
## 7  0.1596931 0.2000743 0.2116082 0.2038905 0.2150752 0.2192084 0
## 8  0.1613410 0.1989215 0.2095888 0.2027701 0.2120807 0.2200823 0
## 9  0.1644485 0.2002254 0.2114904 0.2042583 0.2132815 0.2248045 0
## 10 0.1679560 0.2091234 0.2145639 0.2106214 0.2216816 0.2291659 0
## 11 0.1714704 0.2147698 0.2250010 0.2203129 0.2360233 0.2394318 0
## 12 0.1713141 0.2204239 0.2267744 0.2242827 0.2407742 0.2443244 0
## 13 0.1709893 0.2178009 0.2278000 0.2234707 0.2407680 0.2471416 0
## 14 0.1735567 0.2167930 0.2281979 0.2234593 0.2399905 0.2431322 0
## 15 0.1721457 0.2153917 0.2278076 0.2230002 0.2395269 0.2438843 0

start.time <- Sys.time()

for (maxnodes in c(15 : 30)) {
  set.seed(1234)
  rf_maxnode <- caret::train(price~.,
                            data = train_neig_room,
                            method = "rf",
                            # metric = "Accuracy",
                            tuneGrid = tuneGrid,
                            trControl = trControl,

```

```

        importance = TRUE,
        nodesize = 14,
        maxnodes = maxnodes,
        ntree = 300)
current_iteration <- toString(maxnodes)
store_maxnode[[current_iteration]] <- rf_maxnode
}

end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "

time.taken

## Time difference of 2.291974 mins
print("")

## [1] ""

results_mtry <- resamples(store_maxnode)
summary(results_mtry)

##
## Call:
## summary.resamples(object = results_mtry)
##
## Models: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29
## Number of resamples: 10
##
## MAE
##      Min.   1st Qu.    Median     Mean   3rd Qu.    Max. NA's
## 5  0.3937570 0.3997468 0.4038956 0.4135900 0.4222704 0.4516128 0
## 6  0.3920868 0.3980498 0.4029226 0.4117886 0.4218481 0.4483821 0
## 7  0.3923597 0.3984009 0.4034470 0.4120557 0.4213362 0.4487277 0
## 8  0.3912733 0.3964442 0.4038292 0.4114871 0.4211299 0.4475979 0
## 9  0.3899309 0.3954199 0.4045863 0.4110754 0.4207346 0.4471572 0
## 10 0.3893807 0.3930457 0.4044490 0.4097492 0.4198427 0.4451839 0
## 11 0.3882136 0.3919673 0.4028832 0.4081219 0.4184738 0.4424826 0
## 12 0.3877130 0.3911776 0.4033901 0.4077126 0.4188737 0.4417659 0
## 13 0.3883290 0.3919761 0.4031180 0.4079752 0.4190849 0.4407641 0
## 14 0.3874000 0.3913875 0.4029547 0.4076146 0.4182812 0.4421037 0
## 15 0.3873820 0.3917525 0.4033899 0.4078162 0.4188589 0.4406594 0
## 16 0.3880190 0.3908184 0.4036378 0.4073857 0.4185416 0.4398176 0
## 17 0.3865958 0.3900274 0.4034161 0.4070776 0.4187650 0.4395700 0
## 18 0.3865596 0.3894891 0.4035878 0.4067003 0.4184333 0.4390285 0
## 19 0.3853343 0.3895227 0.4033438 0.4063051 0.4182690 0.4382508 0
## 20 0.3848923 0.3883277 0.4027121 0.4056343 0.4176128 0.4378440 0
## 21 0.3837932 0.3871713 0.4021085 0.4047477 0.4180629 0.4364622 0
## 22 0.3829332 0.3867581 0.4019262 0.4046135 0.4179359 0.4365564 0
## 23 0.3833500 0.3869459 0.4014596 0.4044403 0.4178847 0.4354574 0
## 24 0.3837163 0.3865941 0.4014317 0.4041326 0.4171276 0.4359341 0
## 25 0.3835777 0.3874614 0.4022970 0.4046177 0.4175508 0.4352763 0

```

```

## 26 0.3831039 0.3864946 0.4013853 0.4042975 0.4181863 0.4346799 0
## 27 0.3837727 0.3868600 0.4015577 0.4043854 0.4172422 0.4360208 0
## 28 0.3834093 0.3863583 0.4012037 0.4040400 0.4180948 0.4343721 0
## 29 0.3824960 0.3859506 0.4012836 0.4040620 0.4181106 0.4350559 0
## 30 0.3826372 0.3851898 0.4011629 0.4036482 0.4174530 0.4348617 0
##
## RMSE
##          Min.    1st Qu.   Median    Mean    3rd Qu.   Max. NA's
## 5  0.5845031 0.5996905 0.6292405 0.6344185 0.6489887 0.7121871 0
## 6  0.5796028 0.5966107 0.6248260 0.6301978 0.6472132 0.7046186 0
## 7  0.5811159 0.5956078 0.6244812 0.6300523 0.6464557 0.7048633 0
## 8  0.5804429 0.5959887 0.6250604 0.6302540 0.6464800 0.7055573 0
## 9  0.5786143 0.5951720 0.6244723 0.6295942 0.6456346 0.7045128 0
## 10 0.5769579 0.5934804 0.6206929 0.6271481 0.6444520 0.7014868 0
## 11 0.5734100 0.5900356 0.6181646 0.6234863 0.6426530 0.6943195 0
## 12 0.5714963 0.5896361 0.6157654 0.6218619 0.6425343 0.6919835 0
## 13 0.5721996 0.5889530 0.6160714 0.6221163 0.6428820 0.6921615 0
## 14 0.5719957 0.5887184 0.6168512 0.6220735 0.6422110 0.6917273 0
## 15 0.5722308 0.5890904 0.6171220 0.6221671 0.6424786 0.6921989 0
## 16 0.5727678 0.5887118 0.6160675 0.6217938 0.6422747 0.6924556 0
## 17 0.5702729 0.5881069 0.6151158 0.6209621 0.6419847 0.6908701 0
## 18 0.5703830 0.5882714 0.6141709 0.6202907 0.6414587 0.6884771 0
## 19 0.5689840 0.5876374 0.6136959 0.6194877 0.6411431 0.6875692 0
## 20 0.5666752 0.5854794 0.6119977 0.6180285 0.6406883 0.6870128 0
## 21 0.5647213 0.5830360 0.6099847 0.6159011 0.6413590 0.6809512 0
## 22 0.5631812 0.5836064 0.6087642 0.6153953 0.6407026 0.6822713 0
## 23 0.5635536 0.5814157 0.6097012 0.6149859 0.6413371 0.6825124 0
## 24 0.5623688 0.5818216 0.6087843 0.6144073 0.6400946 0.6805474 0
## 25 0.5633331 0.5837406 0.6084188 0.6149223 0.6400528 0.6807883 0
## 26 0.5629985 0.5825418 0.6093073 0.6150917 0.6412259 0.6805861 0
## 27 0.5641663 0.5839123 0.6076774 0.6152006 0.6404300 0.6797361 0
## 28 0.5625192 0.5817003 0.6081640 0.6141840 0.6409269 0.6773901 0
## 29 0.5623326 0.5821871 0.6089256 0.6148695 0.6401466 0.6801886 0
## 30 0.5631542 0.5830915 0.6069708 0.6142514 0.6408305 0.6772410 0
##
## Rsquared
##          Min.    1st Qu.   Median    Mean    3rd Qu.   Max. NA's
## 5  0.1548340 0.1901500 0.1988889 0.1935718 0.2036537 0.2104733 0
## 6  0.1571901 0.1993606 0.2124119 0.2044387 0.2165545 0.2238496 0
## 7  0.1596931 0.2000743 0.2116082 0.2038905 0.2150752 0.2192084 0
## 8  0.1613410 0.1989215 0.2095888 0.2027701 0.2120807 0.2200823 0
## 9  0.1644485 0.2002254 0.2114904 0.2042583 0.2132815 0.2248045 0
## 10 0.1679560 0.2091234 0.2145639 0.2106214 0.2216816 0.2291659 0
## 11 0.1714704 0.2147698 0.2250010 0.2203129 0.2360233 0.2394318 0
## 12 0.1713141 0.2204239 0.2267744 0.2242827 0.2407742 0.2443244 0
## 13 0.1709893 0.2178009 0.2278000 0.2234707 0.2407680 0.2471416 0
## 14 0.1735567 0.2167930 0.2281979 0.2234593 0.2399905 0.2431322 0
## 15 0.1721457 0.2153917 0.2278076 0.2230002 0.2395269 0.2438843 0
## 16 0.1739652 0.2152435 0.2281282 0.2238812 0.2394957 0.2460820 0
## 17 0.1738127 0.2183589 0.2300695 0.2260045 0.2428565 0.2494696 0
## 18 0.1758869 0.2192907 0.2301313 0.2274979 0.2449399 0.2508536 0
## 19 0.1765856 0.2189987 0.2318359 0.2295304 0.2492187 0.2572903 0
## 20 0.1781528 0.2216027 0.2375687 0.2333298 0.2509871 0.2570649 0
## 21 0.1756057 0.2247624 0.2431777 0.2386596 0.2595326 0.2686079 0

```

```

## 22 0.1782575 0.2267522 0.2441903 0.2400199 0.2616483 0.2699915 0
## 23 0.1754423 0.2275657 0.2478988 0.2410726 0.2601464 0.2783183 0
## 24 0.1782001 0.2301600 0.2457383 0.2424352 0.2645154 0.2707844 0
## 25 0.1797012 0.2284078 0.2438208 0.2410818 0.2629863 0.2726234 0
## 26 0.1775860 0.2295414 0.2457214 0.2405494 0.2624629 0.2722911 0
## 27 0.1791604 0.2273013 0.2458181 0.2401714 0.2618070 0.2673402 0
## 28 0.1775275 0.2280189 0.2476437 0.2427396 0.2644860 0.2750386 0
## 29 0.1801257 0.2286454 0.2464881 0.2408509 0.2627820 0.2673496 0
## 30 0.1772447 0.2281844 0.2467816 0.2424949 0.2639355 0.2729696 0

```

Result: 30

Step 4) Search the best ntrees

Now that you have the best value of mtry and maxnode, you can tune the number of trees. The method is exactly the same as maxnode.

```

start.time <- Sys.time()

store_maxtrees <- list()
for (ntree in c(250, 300, 350, 400, 450, 500, 550, 600, 800, 1000, 2000)) {
  set.seed(5678)
  rf_maxtrees <- caret::train(price~.,
                            data = train_neig_room,
                            method = "rf",
                            tuneGrid = tuneGrid,
                            trControl = trControl,
                            # importance = TRUE,
                            nodesize = 14,
                            maxnodes = 23,
                            ntree = ntree)
  key <- toString(ntree)
  store_maxtrees[[key]] <- rf_maxtrees
}

end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 2.76704 mins
print("")

## [1] ""

results_tree <- resamples(store_maxtrees)
summary(results_tree)

##
## Call:
## summary.resamples(object = results_tree)
##
## Models: 250, 300, 350, 400, 450, 500, 550, 600, 800, 1000, 2000

```

```

## Number of resamples: 10
##
## MAE
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 250  0.3683610 0.3985064 0.4016144 0.4043164 0.4150419 0.4313660 0
## 300  0.3684600 0.3979587 0.4016172 0.4042280 0.4152401 0.4312869 0
## 350  0.3680830 0.3982933 0.4013877 0.4041884 0.4152475 0.4309844 0
## 400  0.3681154 0.3983748 0.4014053 0.4042557 0.4153857 0.4310866 0
## 450  0.3680202 0.3983347 0.4013888 0.4042817 0.4154885 0.4311731 0
## 500  0.3679436 0.3985472 0.4015043 0.4043784 0.4157561 0.4311153 0
## 550  0.3677941 0.3986252 0.4015962 0.4043985 0.4157103 0.4311970 0
## 600  0.3676860 0.3983736 0.4014818 0.4043079 0.4158522 0.4312105 0
## 800  0.3678426 0.3982603 0.4014069 0.4043049 0.4157027 0.4312289 0
## 1000 0.3681006 0.3982157 0.4015919 0.4043306 0.4156936 0.4314205 0
## 2000 0.3677516 0.3984745 0.4016517 0.4044220 0.4160517 0.4317870 0
##
## RMSE
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 250  0.5341897 0.5918984 0.6066795 0.6144005 0.6554241 0.6593967 0
## 300  0.5346177 0.5909691 0.6067180 0.6143049 0.6551596 0.6592083 0
## 350  0.5341729 0.5912048 0.6065448 0.6141987 0.6551462 0.6588851 0
## 400  0.5341443 0.5912623 0.6066586 0.6143556 0.6559886 0.6588481 0
## 450  0.5341980 0.5911716 0.6066038 0.6143397 0.6562896 0.6589533 0
## 500  0.5339613 0.5913841 0.6066963 0.6145039 0.6568448 0.6590739 0
## 550  0.5338172 0.5915788 0.6064992 0.6145510 0.6573103 0.6590608 0
## 600  0.5337775 0.5911751 0.6062931 0.6143935 0.6569052 0.6588927 0
## 800  0.5338485 0.5908882 0.6063947 0.6143960 0.6570396 0.6588445 0
## 1000 0.5340688 0.5908949 0.6065433 0.6143722 0.6565236 0.6591299 0
## 2000 0.5339755 0.5913264 0.6067164 0.6146558 0.6569120 0.6595126 0
##
## Rsquared
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 250  0.1764012 0.2225231 0.2367311 0.2409021 0.2649668 0.2978553 0
## 300  0.1763535 0.2229657 0.2387875 0.2411194 0.2638484 0.2962966 0
## 350  0.1769645 0.2236420 0.2385180 0.2414305 0.2648206 0.2954499 0
## 400  0.1763524 0.2235892 0.2385948 0.2410895 0.2647677 0.2946878 0
## 450  0.1764724 0.2234981 0.2386764 0.2411317 0.2647635 0.2942218 0
## 500  0.1763311 0.2232140 0.2381548 0.2407423 0.2652252 0.2920285 0
## 550  0.1750634 0.2233197 0.2381554 0.2406309 0.2657077 0.2926675 0
## 600  0.1755314 0.2234905 0.2390177 0.2410224 0.2659452 0.2919613 0
## 800  0.1761695 0.2235617 0.2392267 0.2410409 0.2658235 0.2928026 0
## 1000 0.1760490 0.2231421 0.2395040 0.2410978 0.2650376 0.2927235 0
## 2000 0.1758988 0.2223441 0.2385682 0.2403354 0.2650788 0.2912098 0

```

Step 5) Evaluate the model

```

fit_rf <- caret::train(price~.,
                        train_neig_room,
                        method = "rf",
                        tuneGrid = tuneGrid,
                        trControl = trControl,
                        importance = TRUE,
                        nodesize = 14,

```

```

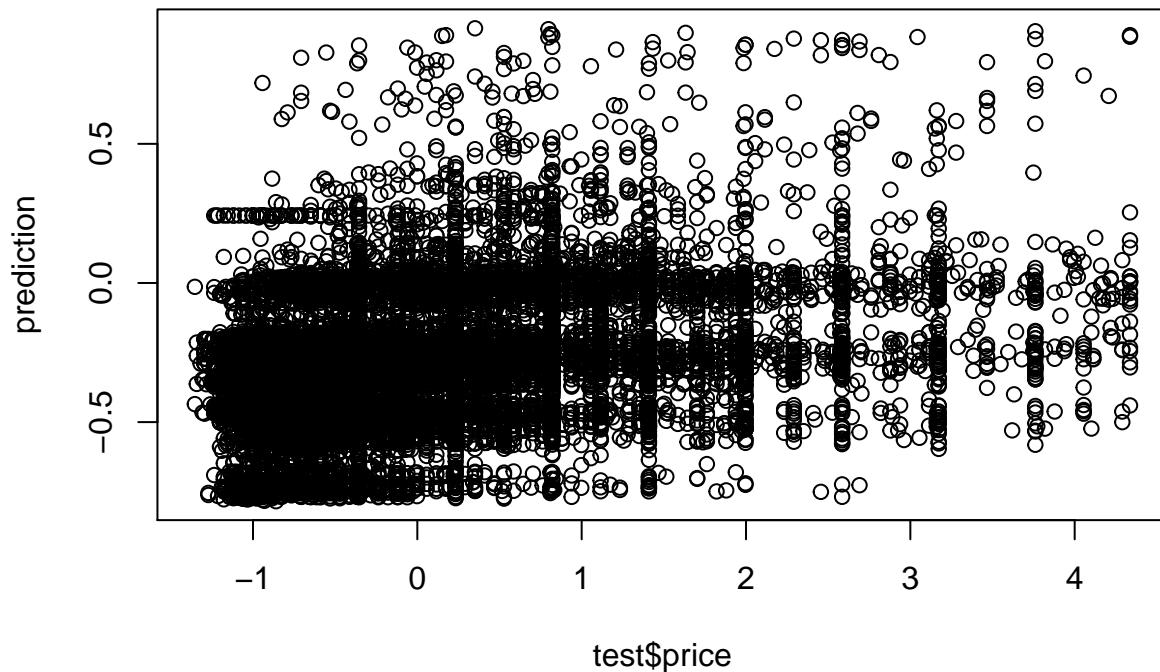
ntree = 800,
maxnodes = 30)

prediction <-predict(fit_rf, test)

#prediction_default <-caret::predict(rf, test)

plot(test$price,prediction)

```



```

print(fit_rf)

## Random Forest
##
## 4717 samples
##      2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4246, 4244, 4245, 4246, 4245, 4244, ...
## Resampling results:
##
##      RMSE      Rsquared     MAE
##      0.614399  0.2414817  0.4050242
##

```

```

## Tuning parameter 'mtry' was held constant at a value of 1
#varImpPlot(fit_rf)
#plot(prediction_default, test$price)

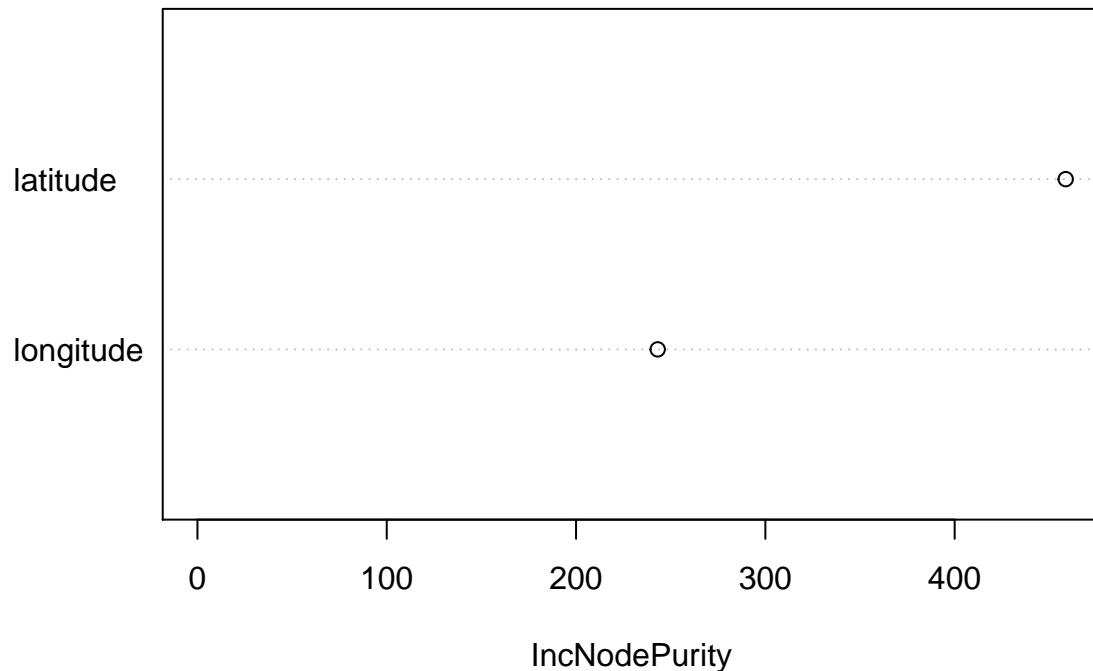
## Step 6) Visualize Result
ele = randomForest::randomForest(
  x = train_neig_room[-3],
  y = train_neig_room$price,
  xtest = test_neig_room[-3],
  ytest = test_neig_room$price,
  mtry = 5,
  maxnodes=30,
  ntree = 800
)

## Warning in randomForest.default(x = train_neig_room[-3], y =
## train_neig_room$price, : invalid mtry: reset to within valid range
print(ele)

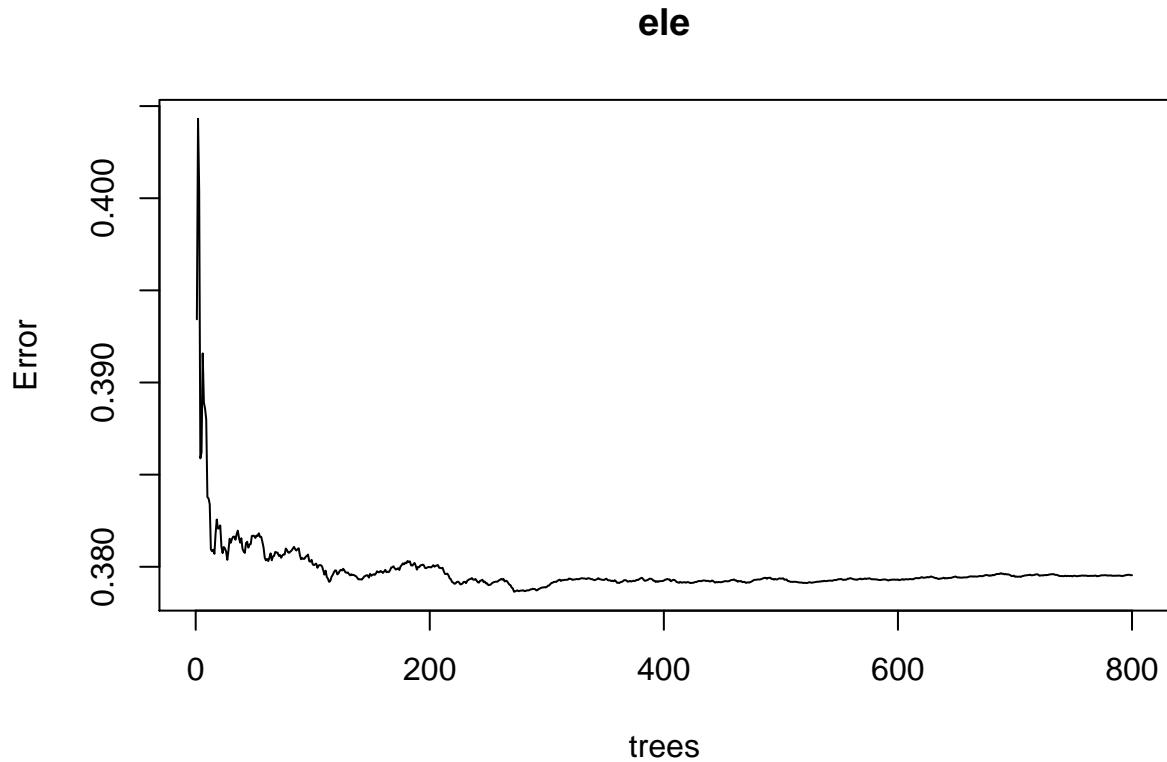
##
## Call:
##   randomForest(x = train_neig_room[-3], y = train_neig_room$price,
##                 Type of random forest: regression
##                           Number of trees: 800
## No. of variables tried at each split: 2
##
##               Mean of squared residuals: 0.3795437
##                         % Var explained: 23.77
##                         Test set MSE: 0.36
##                         % Var explained: 25.74
varImpPlot(ele)

```

ele



```
plot(ele)
```



RANGER RANDOM FOREST

```
library(ranger)

##
## Attaching package: 'ranger'
## The following object is masked from 'package:randomForest':
##   importance
library(tuneRanger)

## Loading required package: mlrMBO
## Loading required package: mlr
## Loading required package: ParamHelpers
## 'mlr' is in maintenance mode since July 2019. Future development
## efforts will go into its successor 'mlr3' (<https://mlr3.mlrr-org.com>).
##
## Attaching package: 'mlr'
## The following object is masked _by_ '.GlobalEnv':
##   mape
```

```

## The following object is masked from 'package:e1071':
##
##      impute

## The following object is masked from 'package:caret':
##
##      train

## Loading required package: smoof

## Loading required package: checkmate

## Loading required package: lubridate

##
## Attaching package: 'lubridate'

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

## Loading required package: lhs

rangerReg <- ranger( price~ ., data = train, write.forest = TRUE, classification = F)
rangerReg

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train, write.forest = TRUE, classification = F)
##
## Type:                      Regression
## Number of trees:            500
## Sample size:                28575
## Number of independent variables: 4
## Mtry:                       2
## Target node size:           5
## Variable importance mode:   none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.5340794
## R squared (OOB):             0.4659628

rangerReg_pred = predict(rangerReg, data = test)
rangerReg_pred

## Ranger prediction
##
## Type:                      Regression
## Sample size:                19049
## Number of independent variables: 4

library(plotly)

##
## Attaching package: 'plotly'

## The following object is masked from 'package:MASS':
##
##      select

## The following object is masked from 'package:ggplot2':

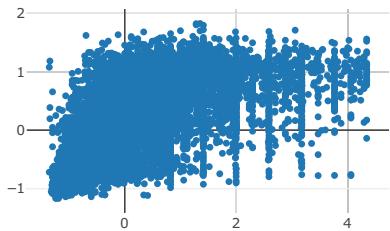
```

```

##      last_plot
## The following object is masked from 'package:stats':
##      filter
## The following object is masked from 'package:graphics':
##      layout
plot_ly(x = test$price, y = predictions(rangerReg_pred))

## No trace type specified:
##   Based on info supplied, a 'scatter' trace seems appropriate.
##   Read more about this trace type -> https://plot.ly/r/reference/#scatter
## No scatter mode specified:
##   Setting the mode to markers
##   Read more about this attribute -> https://plot.ly/r/reference/#scatter-mode
## Warning: `arrange_()` is deprecated as of dplyr 0.7.0.
## Please use `arrange()` instead.
## See vignette('programming') for more help
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_warnings()` to see where this warning was generated.

```



```

library(ranger)
library(tuneRanger)
rangerReg <- ranger( price~ ., data = train_neig, write.forest = TRUE, classification = F)
rangerReg

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train_neig, write.forest = TRUE, classification = F)
##
## Type:                      Regression
## Number of trees:           500
## Sample size:                12447
## Number of independent variables: 3
## Mtry:                      1
## Target node size:          5
## Variable importance mode: none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.7199094
## R squared (OOB):            0.3854085

rangerReg_pred = predict(rangerReg, data = test_neig)
rangerReg_pred

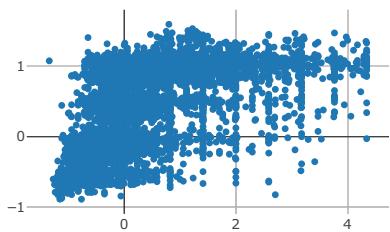
## Ranger prediction
##
## Type:                      Regression
## Sample size:                8298
## Number of independent variables: 3

library(plotly)
plot_ly(x = test_neig$price, y = predictions(rangerReg_pred))

## No trace type specified:
##   Based on info supplied, a 'scatter' trace seems appropriate.
##   Read more about this trace type -> https://plot.ly/r/reference/#scatter

## No scatter mode specified:
##   Setting the mode to markers
##   Read more about this attribute -> https://plot.ly/r/reference/#scatter-mode

```



```
rangerReg <- ranger( price~ ., data = train_neig_room, write.forest = TRUE, classification = F)
rangerReg

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train_neig_room, write.forest = TRUE,           classification = F)
## 
## Type:                      Regression
## Number of trees:            500
## Sample size:                4717
## Number of independent variables: 2
## Mtry:                       1
## Target node size:          5
## Variable importance mode:  none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.3845542
## R squared (OOB):            0.227751

rangerReg_pred = predict(rangerReg, data = test_neig_room)
rangerReg_pred

## Ranger prediction
##
## Type:                      Regression
```

```

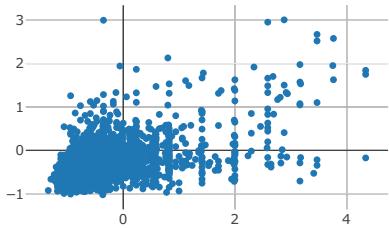
## Sample size: 3144
## Number of independent variables: 2

library(plotly)
plot_ly(x = test_neig_room$price, y = predictions(rangerReg_pred))

## No trace type specified:
##   Based on info supplied, a 'scatter' trace seems appropriate.
##   Read more about this trace type -> https://plot.ly/r/reference/#scatter

## No scatter mode specified:
##   Setting the mode to markers
##   Read more about this attribute -> https://plot.ly/r/reference/#scatter-mode

```



RANGER TUNING

```

library(tuneRanger)

# https://github.com/PhilippPro/tuneRanger
# https://mlr.mlr-org.com/articles/tutorial/measures.html
task = makeRegrTask(data = train, target = "price")
estimateTimeTuneRanger(task, iters = 20, num.threads = 8, num.trees = 1000)

## Approximated time for tuning: 3M 41S

```

```

start.time <- Sys.time()

res = tuneRanger(task, measure = list(mse),
                  num.trees = 1000,
                  num.threads = 8, iters = 20, show.info = getOption("mlrMBO.show.info", TRUE))

## Computing y column(s) for design. Not provided.

## [mbo] 0: mtry=3; min.node.size=3; sample.fraction=0.326 : y = 0.545 : 14.3 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=344; sample.fraction=0.356 : y = 0.569 : 2.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=154; sample.fraction=0.734 : y = 0.538 : 6.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=5; sample.fraction=0.654 : y = 0.566 : 2.8 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=15; sample.fraction=0.547 : y = 0.547 : 19.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=113; sample.fraction=0.364 : y = 0.568 : 2.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=12; sample.fraction=0.592 : y = 0.532 : 7.8 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=33; sample.fraction=0.28 : y = 0.53 : 9.8 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=213; sample.fraction=0.672 : y = 0.537 : 11.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=1.52e+03; sample.fraction=0.465 : y = 0.562 : 2.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=1.09e+03; sample.fraction=0.849 : y = 0.548 : 3.9 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=2; sample.fraction=0.599 : y = 0.589 : 32.0 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=55; sample.fraction=0.402 : y = 0.531 : 9.6 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=642; sample.fraction=0.691 : y = 0.542 : 5.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=4; sample.fraction=0.448 : y = 0.533 : 7.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=18; sample.fraction=0.816 : y = 0.565 : 2.8 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=3.1e+03; sample.fraction=0.419 : y = 0.588 : 2.1 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=7; sample.fraction=0.738 : y = 0.587 : 28.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=9; sample.fraction=0.56 : y = 0.565 : 2.6 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=436; sample.fraction=0.244 : y = 0.55 : 3.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=70; sample.fraction=0.786 : y = 0.536 : 15.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=279; sample.fraction=0.629 : y = 0.541 : 4.9 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=5e+03; sample.fraction=0.499 : y = 0.595 : 1.8 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=3.99e+03; sample.fraction=0.866 : y = 0.575 : 2.7 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2; sample.fraction=0.303 : y = 0.545 : 14.5 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=31; sample.fraction=0.255 : y = 0.535 : 4.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.76 : y = 0.535 : 10.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2.17e+03; sample.fraction=0.205 : y = 0.644 : 1.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=1.01e+03; sample.fraction=0.9 : y = 0.573 : 2.3 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=80; sample.fraction=0.524 : y = 0.533 : 13.3 secs : initdesign
## [mbo] 1: mtry=2; min.node.size=2; sample.fraction=0.234 : y = 0.532 : 5.7 secs : infill_cb

```

```

## [mbo] 2: mtry=3; min.node.size=22; sample.fraction=0.379 : y = 0.533 : 11.1 secs : infill_cb
## [mbo] 3: mtry=2; min.node.size=33; sample.fraction=0.511 : y = 0.533 : 6.7 secs : infill_cb
## [mbo] 4: mtry=2; min.node.size=14; sample.fraction=0.365 : y = 0.533 : 6.0 secs : infill_cb
## [mbo] 5: mtry=4; min.node.size=49; sample.fraction=0.211 : y = 0.532 : 7.3 secs : infill_cb
## [mbo] 6: mtry=2; min.node.size=2; sample.fraction=0.503 : y = 0.534 : 8.2 secs : infill_cb
## [mbo] 7: mtry=3; min.node.size=131; sample.fraction=0.551 : y = 0.534 : 9.6 secs : infill_cb
## [mbo] 8: mtry=4; min.node.size=46; sample.fraction=0.429 : y = 0.532 : 13.0 secs : infill_cb
## [mbo] 9: mtry=3; min.node.size=35; sample.fraction=0.252 : y = 0.53 : 7.4 secs : infill_cb
## [mbo] 10: mtry=2; min.node.size=3; sample.fraction=0.21 : y = 0.533 : 5.2 secs : infill_cb
## [mbo] 11: mtry=3; min.node.size=39; sample.fraction=0.504 : y = 0.533 : 12.2 secs : infill_cb
## [mbo] 12: mtry=3; min.node.size=30; sample.fraction=0.207 : y = 0.53 : 6.7 secs : infill_cb
## [mbo] 13: mtry=4; min.node.size=26; sample.fraction=0.237 : y = 0.53 : 9.0 secs : infill_cb
## [mbo] 14: mtry=3; min.node.size=42; sample.fraction=0.316 : y = 0.53 : 8.4 secs : infill_cb
## [mbo] 15: mtry=3; min.node.size=30; sample.fraction=0.273 : y = 0.53 : 8.3 secs : infill_cb
## [mbo] 16: mtry=3; min.node.size=63; sample.fraction=0.306 : y = 0.531 : 7.5 secs : infill_cb
## [mbo] 17: mtry=3; min.node.size=31; sample.fraction=0.327 : y = 0.53 : 9.2 secs : infill_cb
## [mbo] 18: mtry=3; min.node.size=17; sample.fraction=0.232 : y = 0.53 : 8.0 secs : infill_cb
## [mbo] 19: mtry=3; min.node.size=13; sample.fraction=0.21 : y = 0.53 : 7.8 secs : infill_cb
## [mbo] 20: mtry=2; min.node.size=55; sample.fraction=0.894 : y = 0.534 : 8.4 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print(" -- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 7.097285 mins
print("")

## [1] ""

library(tuneRanger)

cat(" === Random Forest selecting the Neighboorhood group === \n")

## === Random Forest selecting the Neighboorhood group ===
cat("Neighboorhood group = Manhattan\n ")

## Neighboorhood group = Manhattan
## 

task2 = makeRegrTask(data = train_neig, target = "price")
estimateTimeTuneRanger(task2, iters = 20, num.threads = 8, num.trees = 1000)

## Approximated time for tuning: 3M 12S

```

```

start.time <- Sys.time()

res2 = tuneRanger(task2, measure = list(mse), num.trees = 1000,
                  num.threads = 8, iters = 20, show.info = getOption("mlrMBO.show.info", TRUE))

## Computing y column(s) for design. Not provided.

## [mbo] 0: mtry=3; min.node.size=173; sample.fraction=0.766 : y = 0.706 : 3.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=12; sample.fraction=0.355 : y = 0.721 : 1.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=68; sample.fraction=0.403 : y = 0.697 : 2.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=97; sample.fraction=0.597 : y = 0.699 : 3.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=6; sample.fraction=0.594 : y = 0.74 : 6.6 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=296; sample.fraction=0.821 : y = 0.711 : 3.0 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=19; sample.fraction=0.506 : y = 0.72 : 1.4 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2; sample.fraction=0.55 : y = 0.764 : 10.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=526; sample.fraction=0.665 : y = 0.72 : 1.7 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=135; sample.fraction=0.32 : y = 0.731 : 1.0 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=447; sample.fraction=0.845 : y = 0.734 : 1.1 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=10; sample.fraction=0.759 : y = 0.748 : 7.0 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=15; sample.fraction=0.29 : y = 0.698 : 4.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=192; sample.fraction=0.295 : y = 0.716 : 1.8 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=846; sample.fraction=0.383 : y = 0.742 : 1.3 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=1.02e+03; sample.fraction=0.699 : y = 0.732 : 1.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=27; sample.fraction=0.263 : y = 0.724 : 1.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=4; sample.fraction=0.422 : y = 0.723 : 6.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=7; sample.fraction=0.669 : y = 0.759 : 10.0 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.733 : y = 0.794 : 9.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=40; sample.fraction=0.889 : y = 0.72 : 1.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=1.76e+03; sample.fraction=0.86 : y = 0.739 : 1.1 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=32; sample.fraction=0.494 : y = 0.7 : 5.1 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=360; sample.fraction=0.57 : y = 0.735 : 1.0 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2.45e+03; sample.fraction=0.463 : y = 0.786 : 0.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=5; sample.fraction=0.638 : y = 0.719 : 1.4 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2; sample.fraction=0.433 : y = 0.741 : 8.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=3; sample.fraction=0.209 : y = 0.722 : 1.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=1.21e+03; sample.fraction=0.23 : y = 0.799 : 0.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=62; sample.fraction=0.789 : y = 0.703 : 4.5 secs : initdesign
## [mbo] 1: mtry=3; min.node.size=55; sample.fraction=0.208 : y = 0.702 : 2.4 secs : infill_cb

```

```

## [mbo] 2: mtry=3; min.node.size=48; sample.fraction=0.341 : y = 0.696 : 3.4 secs : infill_cb
## [mbo] 3: mtry=3; min.node.size=27; sample.fraction=0.307 : y = 0.695 : 3.7 secs : infill_cb
## [mbo] 4: mtry=3; min.node.size=68; sample.fraction=0.426 : y = 0.697 : 3.6 secs : infill_cb
## [mbo] 5: mtry=3; min.node.size=37; sample.fraction=0.377 : y = 0.695 : 4.0 secs : infill_cb
## [mbo] 6: mtry=3; min.node.size=31; sample.fraction=0.279 : y = 0.695 : 3.3 secs : infill_cb
## [mbo] 7: mtry=3; min.node.size=22; sample.fraction=0.239 : y = 0.695 : 3.3 secs : infill_cb
## [mbo] 8: mtry=3; min.node.size=22; sample.fraction=0.293 : y = 0.695 : 3.7 secs : infill_cb
## [mbo] 9: mtry=3; min.node.size=20; sample.fraction=0.201 : y = 0.694 : 2.9 secs : infill_cb
## [mbo] 10: mtry=3; min.node.size=25; sample.fraction=0.203 : y = 0.695 : 2.8 secs : infill_cb
## [mbo] 11: mtry=3; min.node.size=11; sample.fraction=0.208 : y = 0.696 : 3.3 secs : infill_cb
## [mbo] 12: mtry=3; min.node.size=7; sample.fraction=0.202 : y = 0.698 : 3.6 secs : infill_cb
## [mbo] 13: mtry=2; min.node.size=53; sample.fraction=0.458 : y = 0.695 : 3.2 secs : infill_cb
## [mbo] 14: mtry=2; min.node.size=34; sample.fraction=0.324 : y = 0.694 : 2.9 secs : infill_cb
## [mbo] 15: mtry=2; min.node.size=21; sample.fraction=0.204 : y = 0.694 : 2.4 secs : infill_cb
## [mbo] 16: mtry=2; min.node.size=28; sample.fraction=0.234 : y = 0.694 : 2.4 secs : infill_cb
## [mbo] 17: mtry=2; min.node.size=10; sample.fraction=0.202 : y = 0.694 : 2.7 secs : infill_cb
## [mbo] 18: mtry=2; min.node.size=18; sample.fraction=0.216 : y = 0.694 : 2.6 secs : infill_cb
## [mbo] 19: mtry=2; min.node.size=13; sample.fraction=0.205 : y = 0.694 : 2.7 secs : infill_cb
## [mbo] 20: mtry=2; min.node.size=15; sample.fraction=0.201 : y = 0.694 : 2.5 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 2.8747 mins
print("")

## [1] ""

library(tuneRanger)

cat(" === Ranger Random Forest selecting the Neighboorhood group and room_type==="
## === Ranger Random Forest selecting the Neighboorhood group and room_type==="
cat("Neighboorhood group = Manhattan and room_type=Entire-home/Apt\n ")

## Neighboorhood group = Manhattan and room_type=Entire-home/Apt
## 

task3 = makeRegrTask(data = train_neig_room, target = "price")
estimateTimeTuneRanger(task3, iters = 20, num.threads = 8, num.trees = 1000)

## Approximated time for tuning: 1M 25S

```

```

start.time <- Sys.time()

res3 = tuneRanger(task3, measure = list(mse), num.trees = 1000,
                  num.threads = 8, iters = 20, show.info = getOption("mlrMBO.show.info", TRUE))

## Computing y column(s) for design. Not provided.

## [mbo] 0: mtry=2; min.node.size=7; sample.fraction=0.449 : y = 0.373 : 2.1 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=5; sample.fraction=0.464 : y = 0.372 : 1.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=388; sample.fraction=0.589 : y = 0.389 : 0.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=255; sample.fraction=0.627 : y = 0.384 : 0.6 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=50; sample.fraction=0.343 : y = 0.369 : 1.1 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=33; sample.fraction=0.754 : y = 0.369 : 1.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=6; sample.fraction=0.279 : y = 0.366 : 1.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=4; sample.fraction=0.722 : y = 0.392 : 2.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=83; sample.fraction=0.201 : y = 0.381 : 0.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=11; sample.fraction=0.562 : y = 0.375 : 2.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=358; sample.fraction=0.325 : y = 0.399 : 0.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=213; sample.fraction=0.769 : y = 0.388 : 0.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=14; sample.fraction=0.666 : y = 0.372 : 1.6 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.407 : y = 0.378 : 2.5 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=658; sample.fraction=0.424 : y = 0.41 : 0.4 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=122; sample.fraction=0.7 : y = 0.375 : 0.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=3; sample.fraction=0.797 : y = 0.429 : 3.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=19; sample.fraction=0.231 : y = 0.366 : 0.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=72; sample.fraction=0.496 : y = 0.371 : 1.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=26; sample.fraction=0.855 : y = 0.374 : 1.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=9; sample.fraction=0.598 : y = 0.374 : 1.6 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=180; sample.fraction=0.668 : y = 0.383 : 0.9 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=768; sample.fraction=0.251 : y = 0.429 : 0.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=3; sample.fraction=0.51 : y = 0.386 : 2.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=113; sample.fraction=0.536 : y = 0.376 : 0.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2; sample.fraction=0.365 : y = 0.371 : 1.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=48; sample.fraction=0.841 : y = 0.377 : 2.0 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2; sample.fraction=0.821 : y = 0.41 : 2.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=572; sample.fraction=0.877 : y = 0.39 : 0.5 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=23; sample.fraction=0.311 : y = 0.365 : 1.2 secs : initdesign
## [mbo] 1: mtry=1; min.node.size=3; sample.fraction=0.207 : y = 0.365 : 1.1 secs : infill_cb

```

```

## [mbo] 2: mtry=2; min.node.size=11; sample.fraction=0.201 : y = 0.364 : 1.1 secs : infill_cb
## [mbo] 3: mtry=2; min.node.size=3; sample.fraction=0.202 : y = 0.364 : 1.4 secs : infill_cb
## [mbo] 4: mtry=2; min.node.size=5; sample.fraction=0.21 : y = 0.364 : 1.3 secs : infill_cb
## [mbo] 5: mtry=2; min.node.size=2; sample.fraction=0.202 : y = 0.366 : 1.5 secs : infill_cb
## [mbo] 6: mtry=2; min.node.size=14; sample.fraction=0.235 : y = 0.364 : 1.1 secs : infill_cb
## [mbo] 7: mtry=2; min.node.size=9; sample.fraction=0.207 : y = 0.364 : 1.1 secs : infill_cb
## [mbo] 8: mtry=2; min.node.size=10; sample.fraction=0.217 : y = 0.365 : 1.2 secs : infill_cb
## [mbo] 9: mtry=2; min.node.size=15; sample.fraction=0.202 : y = 0.364 : 1.0 secs : infill_cb
## [mbo] 10: mtry=2; min.node.size=7; sample.fraction=0.204 : y = 0.364 : 1.2 secs : infill_cb
## [mbo] 11: mtry=2; min.node.size=13; sample.fraction=0.26 : y = 0.363 : 1.2 secs : infill_cb
## [mbo] 12: mtry=2; min.node.size=14; sample.fraction=0.273 : y = 0.363 : 1.3 secs : infill_cb
## [mbo] 13: mtry=2; min.node.size=14; sample.fraction=0.281 : y = 0.364 : 1.3 secs : infill_cb
## [mbo] 14: mtry=1; min.node.size=2; sample.fraction=0.201 : y = 0.365 : 1.2 secs : infill_cb
## [mbo] 15: mtry=2; min.node.size=13; sample.fraction=0.268 : y = 0.364 : 1.4 secs : infill_cb
## [mbo] 16: mtry=2; min.node.size=13; sample.fraction=0.257 : y = 0.363 : 1.2 secs : infill_cb
## [mbo] 17: mtry=2; min.node.size=13; sample.fraction=0.252 : y = 0.363 : 1.2 secs : infill_cb
## [mbo] 18: mtry=2; min.node.size=13; sample.fraction=0.25 : y = 0.363 : 1.2 secs : infill_cb
## [mbo] 19: mtry=2; min.node.size=13; sample.fraction=0.251 : y = 0.364 : 1.2 secs : infill_cb
## [mbo] 20: mtry=1; min.node.size=14; sample.fraction=0.324 : y = 0.364 : 1.1 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print("## Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 1.198854 mins
print("")

## [1] ""

Mean of best 5 % of the results
res$model

## Model for learner.id=regr.ranger; learner.class=regr.ranger
## Trained on: task.id = train; obs = 28575; features = 4
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=3,min.node.size=36

Recommended parameter settings: mtry min.node.size sample.fraction 1 2 55 0.2136541 Results: mse
exec.time 1 0.933998 2.756667

Model with the new tuned hyperparameters
res2$model

```

```

## Model for learner.id=regr.ranger; learner.class=regr.ranger
## Trained on: task.id = train_neig; obs = 12447; features = 3
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=2,min.node.size=15

Model with the new tuned hyperparameters

res3$model

## Model for learner.id=regr.ranger; learner.class=regr.ranger
## Trained on: task.id = train_neig_room; obs = 4717; features = 2
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=2,min.node.size=13

tuned_rangerReg <- ranger( price~ ., data = train, write.forest = TRUE, classification = F, mtry= 3,
                           min.node.size = 35 , sample.fraction = 0.326,num.trees = 1000, replace= FALSE)
tuned_rangerReg

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train, write.forest = TRUE, classification = F,      mtry = 3, min.node.size = 13, replace = FALSE)
## 
## Type:                      Regression
## Number of trees:           1000
## Sample size:                28575
## Number of independent variables: 4
## Mtry:                      3
## Target node size:          35
## Variable importance mode: none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.5302417
## R squared (OOB):            0.4698002

tuned_rangerReg_pred = predict(tuned_rangerReg, data = test)
tuned_rangerReg_pred

## Ranger prediction
##
## Type:                      Regression
## Sample size:                19049
## Number of independent variables: 4
## 
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,
## mtry=2,min.node.size=22,sample.fraction=0.231,num.trees=1e+03,replace=FALSE

tuned_rangerReg2 <- ranger( price~ ., data = train_neig, write.forest = TRUE, classification = F, mtry= 2,
                           min.node.size = 22 , sample.fraction = 0.231,num.trees = 1000, replace= FALSE)
tuned_rangerReg2

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train_neig, write.forest = TRUE, classification = F,      mtry = 2, min.node.size = 22, replace = FALSE)
## 
## Type:                      Regression
## Number of trees:           1000
## Sample size:                12447
## Number of independent variables: 3

```

```

## Mtry: 2
## Target node size: 22
## Variable importance mode: none
## Splitrule: variance
## OOB prediction error (MSE): 0.6936202
## R squared (OOB): 0.4078517
tuned_rangerReg_pred2 = predict(tuned_rangerReg2, data = test_neig)
tuned_rangerReg_pred2

## Ranger prediction
##
## Type: Regression
## Sample size: 8298
## Number of independent variables: 3
#Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=1,min.node.size=5,sam

tuned_rangerReg3 <- ranger( price~ ., data = train_neig_room, write.forest = TRUE, classification = F, n
                           min.node.size = 5      , sample.fraction = 0.21,num.trees = 1000, replace= FALSE)
tuned_rangerReg3

## Ranger result
##
## Call:
##   ranger(price ~ ., data = train_neig_room, write.forest = TRUE,           classification = F, mtry = 1, m
## 
## Type: Regression
## Number of trees: 1000
## Sample size: 4717
## Number of independent variables: 2
## Mtry: 1
## Target node size: 5
## Variable importance mode: none
## Splitrule: variance
## OOB prediction error (MSE): 0.3630765
## R squared (OOB): 0.2708818
tuned_rangerReg_pred3 = predict(tuned_rangerReg3, data = test_neig_room)
tuned_rangerReg_pred3

## Ranger prediction
##
## Type: Regression
## Sample size: 3144
## Number of independent variables: 2

```

NEURAL NETWORKS

<https://medium.com/@brscntyz/neural-network-in-r-e275302b6e44> <https://datascienceplus.com/fitting-neural-network-in-r/> <https://www.kdnuggets.com/2016/08/beginners-guide-neural-networks-r.html/2>

```

library(ISLR)
library(tidyverse)
library("keras")

```

```

## 
## Attaching package: 'keras'
## The following object is masked _by_ '.GlobalEnv':
## 
##     normalize

## The following object is masked from 'package:future':
## 
##     %<-%

library(neuralnet)

## 
## Attaching package: 'neuralnet'
## The following object is masked from 'package:dplyr':
## 
##     compute

library(Hmisc)

## Loading required package: survival

## 
## Attaching package: 'survival'
## The following object is masked from 'package:future':
## 
##     cluster

## The following object is masked from 'package:caret':
## 
##     cluster

## Loading required package: Formula

## 
## Attaching package: 'Hmisc'
## The following object is masked from 'package:plotly':
## 
##     subplot

## The following object is masked from 'package:mlr':
## 
##     impute

## The following object is masked from 'package:e1071':
## 
##     impute

## The following objects are masked from 'package:dplyr':
## 
##     src, summarize

## The following objects are masked from 'package:base':
## 
##     format.pval, units

m <- model.matrix(
  ~price+neighbourhood_group+room_type+longitude+latitude,

```

```

    data = train
)

m_test <- model.matrix(
  ~price+neighbourhood_group+room_type+longitude+latitude,
  data = test
)

head(m)

##   (Intercept)      price neighbourhood_group2 neighbourhood_group3
## 1           1  0.2216662                      0                      0
## 2           1  1.1152290                      1                      0
## 4           1 -0.4837781                      0                      0
## 6           1  0.8212939                      1                      0
## 7           1 -0.8247428                      0                      0
## 9           1 -0.6013521                      1                      0
##   neighbourhood_group4 neighbourhood_group5 room_type2 room_type3 longitude
## 1             0                     0          0          0 -73.97237
## 2             0                     0          1          0 -73.98377
## 4             0                     0          1          0 -73.95976
## 6             0                     0          1          0 -73.97500
## 7             0                     0          0          0 -73.95596
## 9             0                     0          0          0 -73.96723
##   latitude
## 1 40.64749
## 2 40.75362
## 4 40.68514
## 6 40.74767
## 7 40.68688
## 9 40.80178

#nn=neuralnet(price~ neighbourhood_group2+ neighbourhood_group3 +neighbourhood_group4+ neighbourhood_group5
#               linear.output = TRUE,stepmax=10^5,threshold = 0.01)

```

Also you can change your hidden layers by specifying with numbers in vector like this

```

#nn=neuralnet( price~ neighbourhood_group2+ neighbourhood_group3 +neighbourhood_group4+ neighbourhood_group5
#               linear.output = TRUE,stepmax=10^5,threshold = 0.01)

#hidden=c(7,6,5)

```

Then, prediction and calculation of error comes. I calculate the error with Root mean error method.

```

nn_pred=compute(nn,test[,1:13]) nn_prednet.resultRMSE <-function(actual,predicted) return(sqrt(sum(actual^2 - predicted^2)))
if(!is.numeric(nn_pred)) RMSE(testprice,nn_pred)
plot(testprice,nn_prednet.result)
pr.nn_ <- nn_prednet.result * (max(datasetprice)-min(datasetprice)) + min(datasetprice)

```

NEURAL NETWORKS WITH KERAS

! <https://www.datatechnotes.com/2019/01/regression-example-with-keras-in-r.html> https://tensorflow.rstudio.com/tutorials/basic-ml/tutorial_basic_regression/ !

For regression : https://keras.rstudio.com/articles/tutorial_basic_regression.html

For classification: <https://keras.rstudio.com/>

```
library("keras")
library(dplyr)

#needed:
# - tensorflow::install_tensorflow()
# - miniconda

nntrain = train
nntest = test
nntrain$room_type = keras::to_categorical(nntrain$room_type)
nntrain$neighbourhood_group = keras::to_categorical(nntrain$neighbourhood_group)
nntest$room_type = keras::to_categorical(nntest$room_type)
nntest$neighbourhood_group = keras::to_categorical(nntest$neighbourhood_group)

target = as.vector(nntrain$price)
feat = as.matrix(as_tibble(nntrain[-5]))
target_test = as.vector(nntest$price)
feat_test = as.matrix(as_tibble(nntest[-5]))

epochs <- 300

build_model <- function() {

  model <- keras::keras_model_sequential() %>%
    layer_dense(units = 64, activation = "relu",
                input_shape = 12) %>%
    layer_dense(units = 32, activation = "relu") %>%
    layer_dense(units = 1, activation = "linear")

  model %>% compile(
    loss = "mse",
    optimizer = optimizer_rmsprop(),
    metrics = list("mean_absolute_error")
  )

  model
}

model <- build_model()
model %>% summary()

## Model: "sequential"
## -----
## Layer (type)          Output Shape       Param #
## -----
## dense (Dense)         (None, 64)        832
## -----
## dense_1 (Dense)       (None, 32)        2080
## -----
## dense_2 (Dense)       (None, 1)         33
## -----
## Total params: 2,945
## Trainable params: 2,945
```

```

## Non-trainable params: 0
## -----
print_dot_callback <- callback_lambda(
  on_epoch_end = function(epoch, logs) {
    if (epoch %% 80 == 0) cat("\n")
    cat(".")
  }
)

model <- build_model()

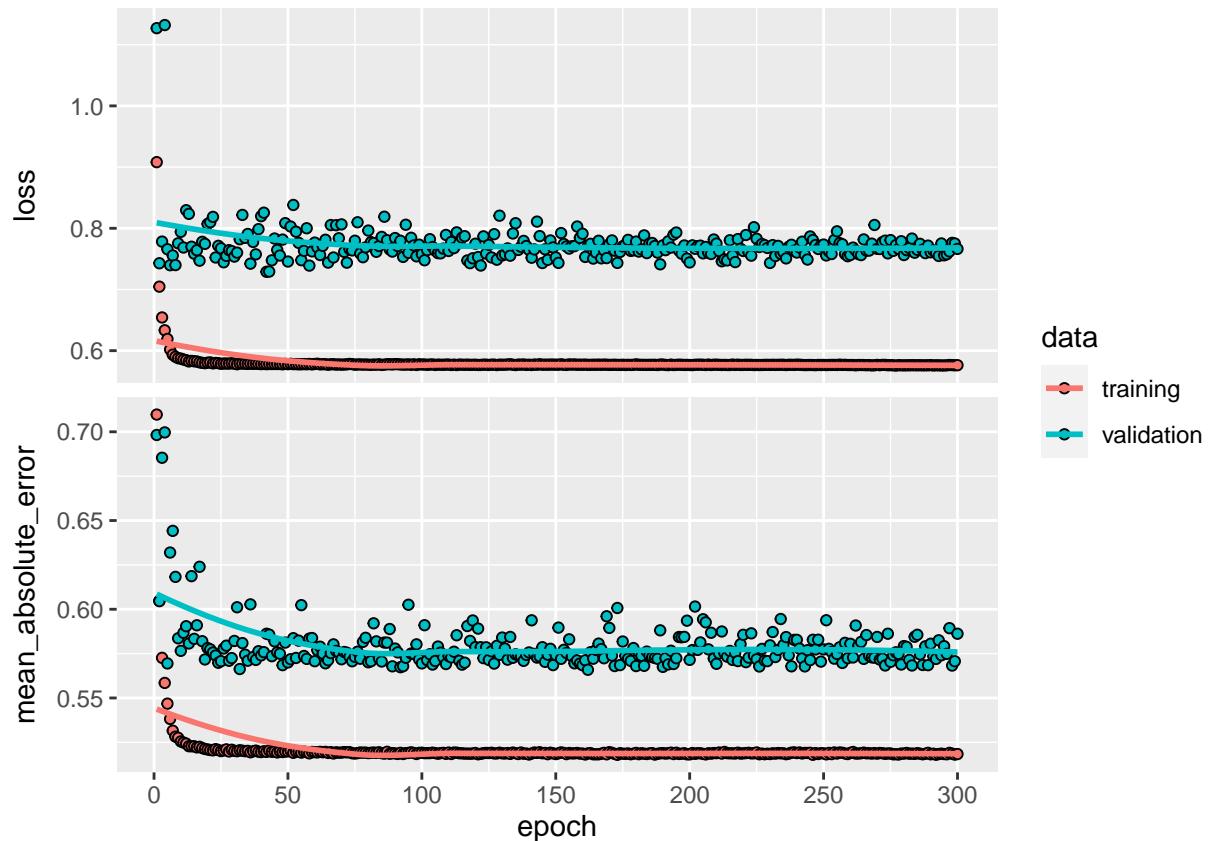
history <- model %>% fit(
  x = feat,
  y = target,
  epochs = epochs,
  validation_split = 0.2,
  verbose = 0,
  callbacks = list(print_dot_callback)
)

## -----
## .....
```

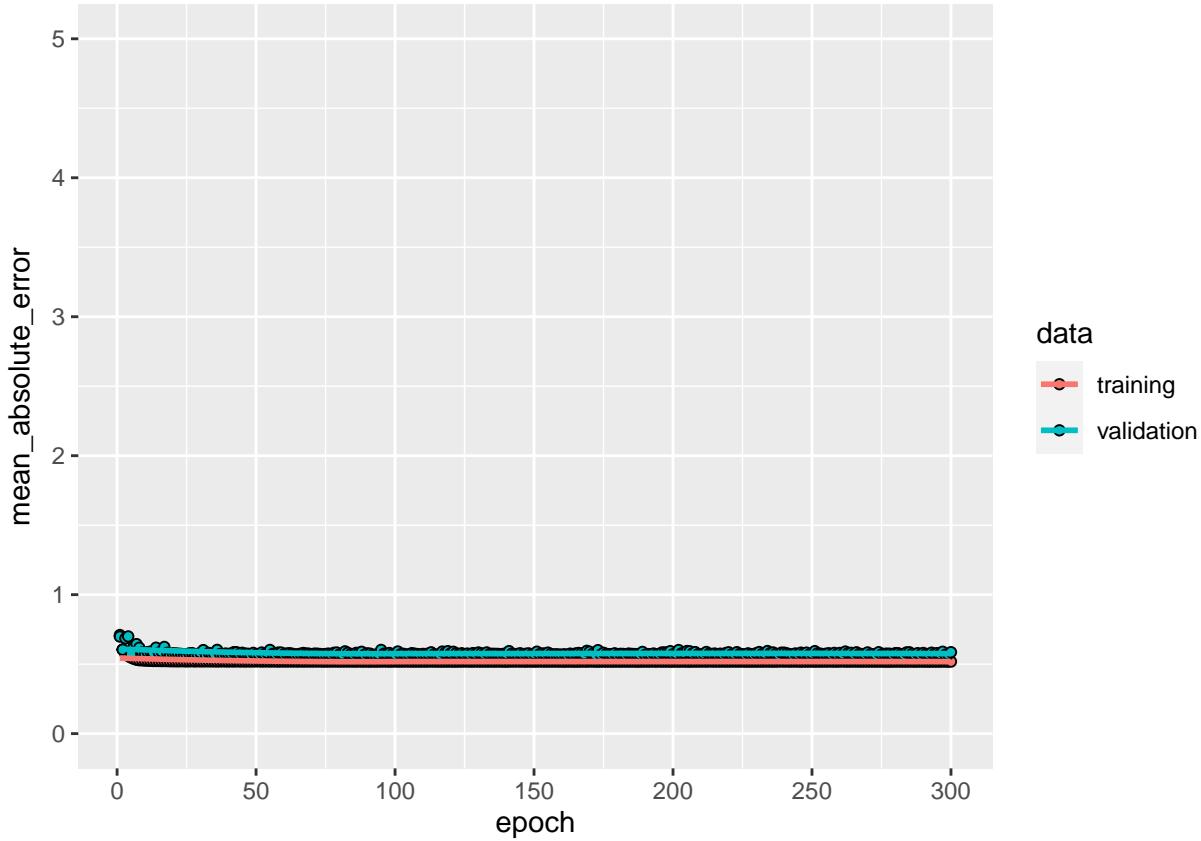
```

library(ggplot2)
plot(history)

## `geom_smooth()` using formula 'y ~ x'
```



```
plot(history, metrics = "mean_absolute_error", smooth = T) +  
  coord_cartesian(ylim = c(0, 5))  
  
## `geom_smooth()` using formula 'y ~ x'
```



```

eva = model %>% evaluate(feat_test,target_test, verbose = 0)

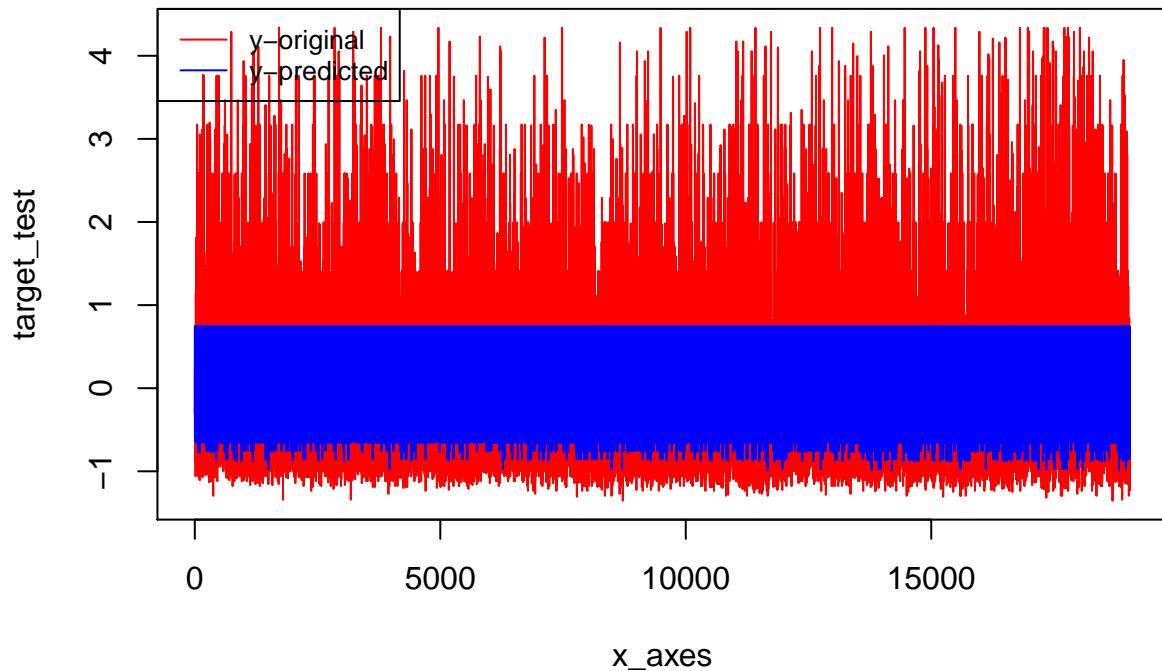
mae = eva[1]
loss = eva[2]
paste0("Mean absolute error on test set: ", mae)

## [1] "Mean absolute error on test set: 0.61139589548111"
paste0("Loss: ", loss)

## [1] "Loss: 0.540041744709015"
y_pred = model %>% predict(feat_test)

x_axes = seq(1:length(y_pred))
plot(x_axes, target_test, type="l", col="red")
lines(x_axes, y_pred, col="blue")
legend("topleft", legend=c("y-original", "y-predicted"),
       col=c("red", "blue"), lty=1,cex=0.8)

```



```

MSE.nn = mean((y_pred-target_test)^2)
MSE.nn

## [1] 0.6113957

build_model <- function() {

  model <- keras_model_sequential() %>%
    layer_dense(units = 64, activation = "relu",
                input_shape = 12) %>%
    layer_dense(units = 64, activation = "relu") %>%
    layer_dense(units = 1)

  model %>% compile(
    loss = "mse",
    optimizer = optimizer_rmsprop(),
    metrics = list("mean_absolute_error")
  )

  model
}

model <- build_model()
model %>% summary()

## Model: "sequential_2"
## -----

```

```

## Layer (type)          Output Shape         Param #
## -----
## dense_6 (Dense)      (None, 64)           832
##
## dense_7 (Dense)      (None, 64)           4160
##
## dense_8 (Dense)      (None, 1)            65
## -----
## Total params: 5,057
## Trainable params: 5,057
## Non-trainable params: 0
##
# -----
# Display training progress by printing a single dot for each completed epoch.

print_dot_callback <- callback_lambda(
  on_epoch_end = function(epoch, logs) {
    if (epoch %% 80 == 0) cat("\n")
    cat(".")
  }
)

start.time = Sys.time()

# Fit the model and store training stats
history <- model %>% fit(
  feat,
  target,
  epochs = epochs,
  validation_split = 0.2,
  verbose = 0,
  callbacks = list(print_dot_callback)
)

## -----
## -----
## -----
## -----
end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

## [1] "-- Time: -- "
time.taken

## Time difference of 5.767143 mins
print("")

## [1] ""

# The patience parameter is the amount of epochs to check for improvement.
early_stop <- callback_early_stopping(monitor = "val_loss", patience = 20)
epochs <- 500

```

```

start.time <- Sys.time()

model <- build_model()
history <- model %>% fit(
  feat,
  target,
  epochs = epochs,
  validation_split = 0.2,
  verbose = 0,
  callbacks = list(early_stop, print_dot_callback)
)

## .....
end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")
## [1] "-- Time: -- "
time.taken

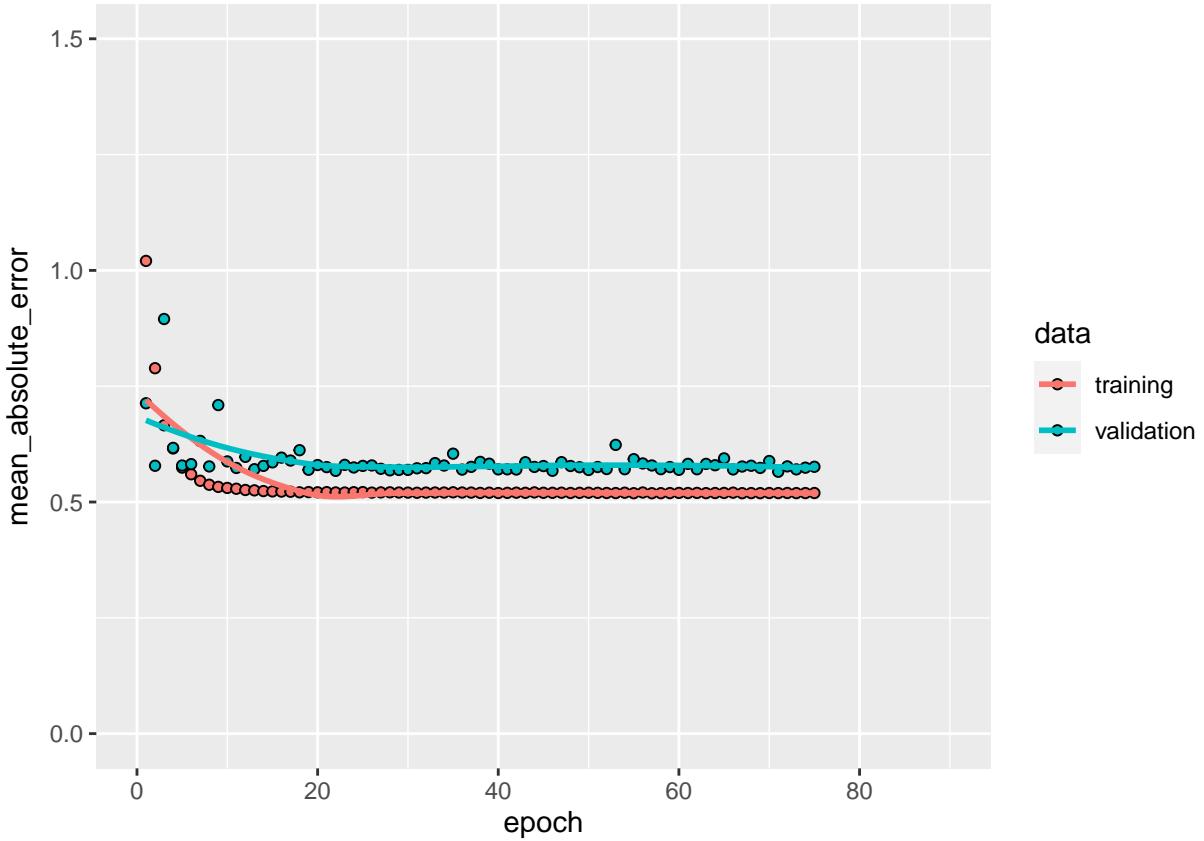
## Time difference of 1.443927 mins
print("")

## [1] ""
history$params$epochs = length(history$metrics$mean_absolute_error)

plot(history, metrics = "mean_absolute_error", smooth = T) +
  coord_cartesian(xlim = c(0, history$params$epochs*1.2), ylim = c(0, 1.5))

## `geom_smooth()` using formula 'y ~ x'

```



```

eva = model %>% evaluate(feat_test,target_test, verbose = 0)

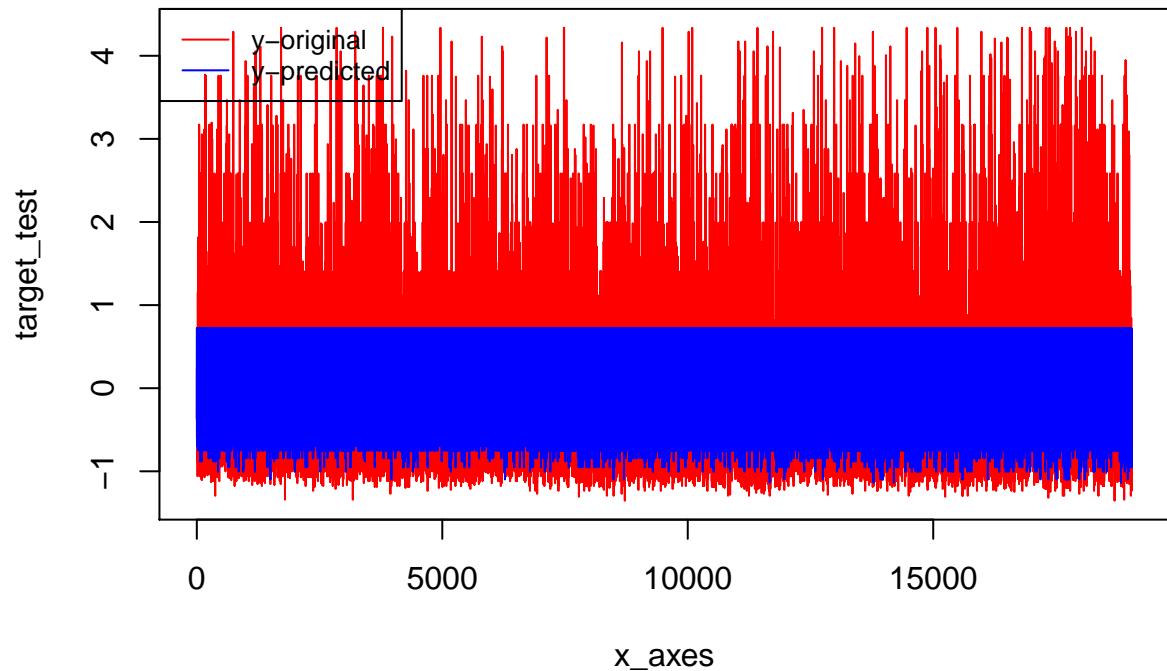
mae = eva[1]
loss = eva[2]
paste0("Mean absolute error on test set: ", mae)

## [1] "Mean absolute error on test set: 0.611967504024506"
paste0("Loss: ", loss)

## [1] "Loss: 0.530870854854584"
y_pred = model %>% predict(feat_test)

x_axes = seq(1:length(y_pred))
plot(x_axes, target_test, type="l", col="red")
lines(x_axes, y_pred, col="blue")
legend("topleft", legend=c("y-original", "y-predicted"),
       col=c("red", "blue"), lty=1,cex=0.8)

```

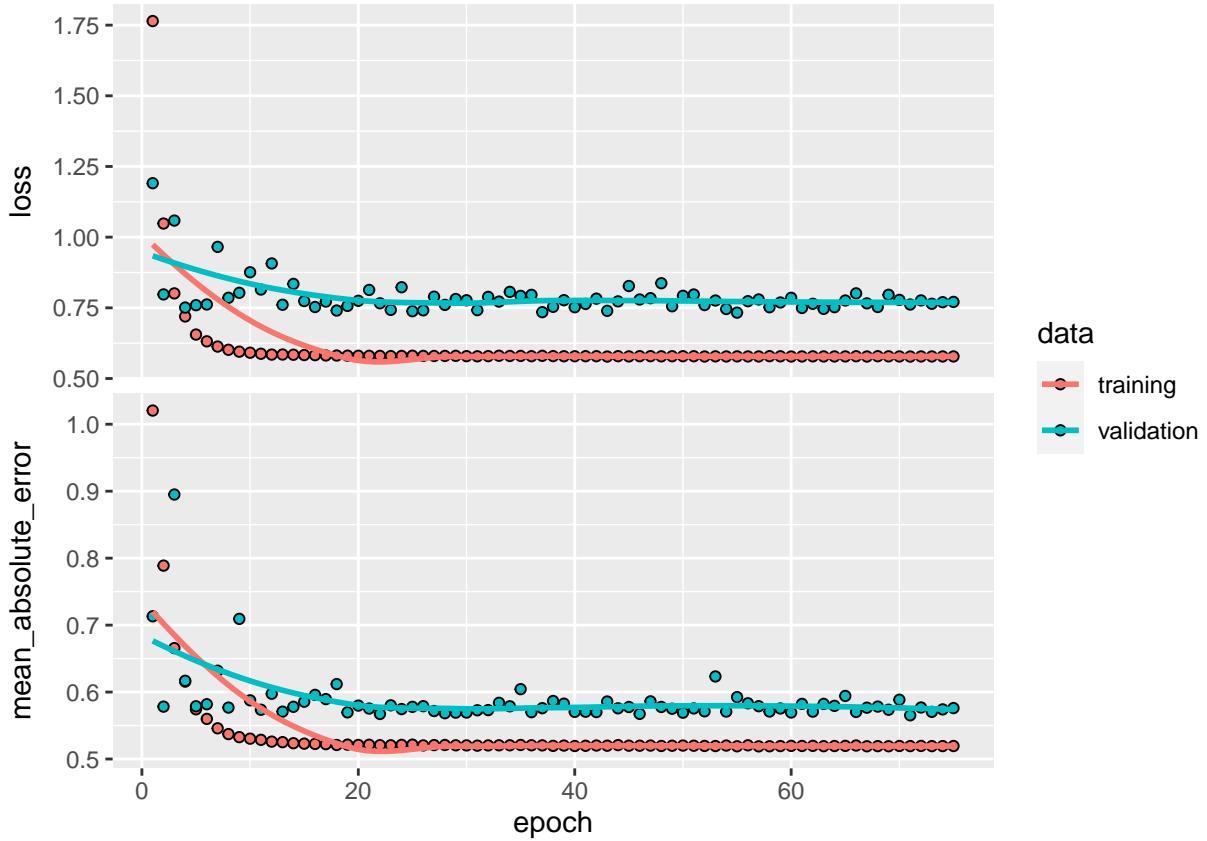


```
MSE.nn = mean((y_pred-target_test)^2)
MSE.nn

## [1] 0.6119675
library(ggplot2)

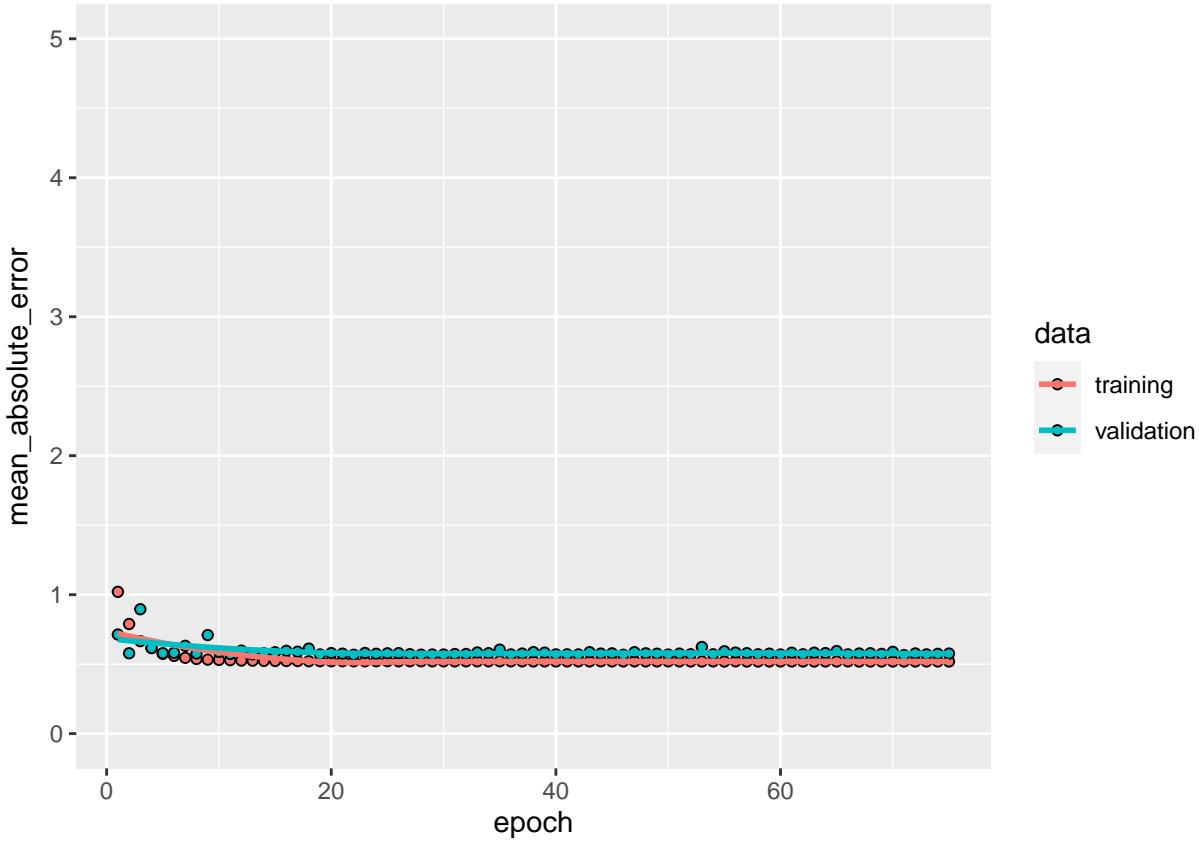
plot(history)

## `geom_smooth()` using formula 'y ~ x'
```



```
plot(history, metrics = "mean_absolute_error", smooth = T) +
  coord_cartesian(ylim = c(0, 5))

## `geom_smooth()` using formula 'y ~ x'
```



K-MEANS

x: numeric matrix, numeric data frame or a numeric vector **centers:** Possible values are the number of clusters (k) or a set of initial (distinct) cluster centers. If a number, a random set of (distinct) rows in x is chosen as the initial centers. **iter.max:** The maximum number of iterations allowed. Default value is 10. **nstart:** The number of random starting partitions when centers is a number. Trying nstart > 1 is often recommended.

Clust miX type

k-prototypes in RAn implementation of the k-prototypes algorithm is given by the function

```
kproto(x, k, lambda = NULL, iter.max = 100, nstart = 1, na.rm = TRUE)
```

where • x is a data frame with both numeric and factor variables. As opposed to other existing Rpackages, the factor variables do not need to be preprocessed in advance and the order of thevariables does not matter.
• k is the number of clusters which has to be pre-specified. Alternatively, it can also be a vectorof observation indices or a data frame of prototypes with the same columns asx. If ever atthe initialization or during the iteration process identical prototypes do occur, the number ofclusters will be reduced accordingly.

• lambda>0 is a real valued parameter that controls the trade off between Euclidean distancefor numeric variables and simple matching distance for factor variables for cluster assignment.If no is specified the parameter is set automatically based on the data and a heuristic usingthe functionlambdaest(). Alternatively, a vector of lengthncol(x)can be passed tolambda(cf.Section on Extensions to the original algorithm).

• iter.maxsets the maximum number of iterations, just as inkmeans(). The algorithm may stopprior toiter.maxif no observations swap clusters.

- nstart may be set to a value > 1 to run k-prototypes multiple times. Similar to k-means, the result of k-prototypes depends on its initialization. If nstart > 1, the best solution (i.e. the one that minimizes E) is returned.

- Generally, the algorithm can deal with missing data but as a default NAs are removed by na.rm = TRUE

```

library(clustMixType)
library(png)

library(ggpubr)

clust_num = 5

get_clusters = function(dts, num, factors=T)
{
  l = list()
  if(isFALSE(factors))
  {
    l$cl = kmeans(dts, num)
  }
  else
  {
    l$cl = kproto(dts, num)
  }

  clust = list()

  for (i in 1:num)
  {
    indexes = l$cl$cluster == i
    clust[[i]] = dts[indexes,]
  }

  myplot= ggplot() +background_image(img)+  xlab('data_date') +  ylab('percent.change')+ theme(plot.marg
count = 1
for(el in clust)
{
  myplot = myplot+geom_point(data = el, aes(y = latitude, x = longitude),color= count)
  plot(ggplot() +geom_point(data = el, aes(y = latitude, x = longitude),color= count) )
  print(paste0("== clust: ",count,"=="))
  print(summary(el))
  print("===== ")

  count= count+1
}
l$myplot = myplot
return(l)
}
lis = get_clusters(dataset, clust_num)

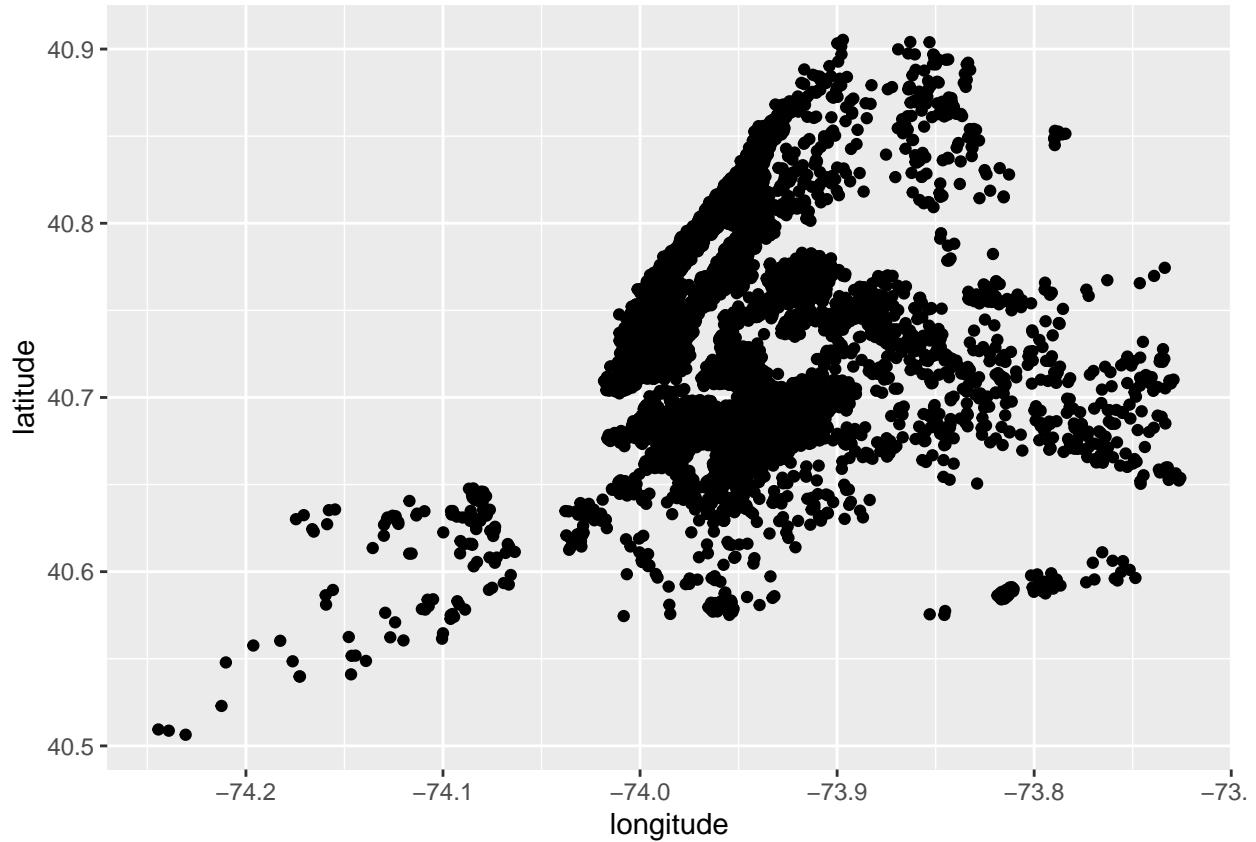
## # NAs in variables:
## neighbourhood_group          latitude           longitude        room_type
##                         0                  0                  0
##                     price

```

```

##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531

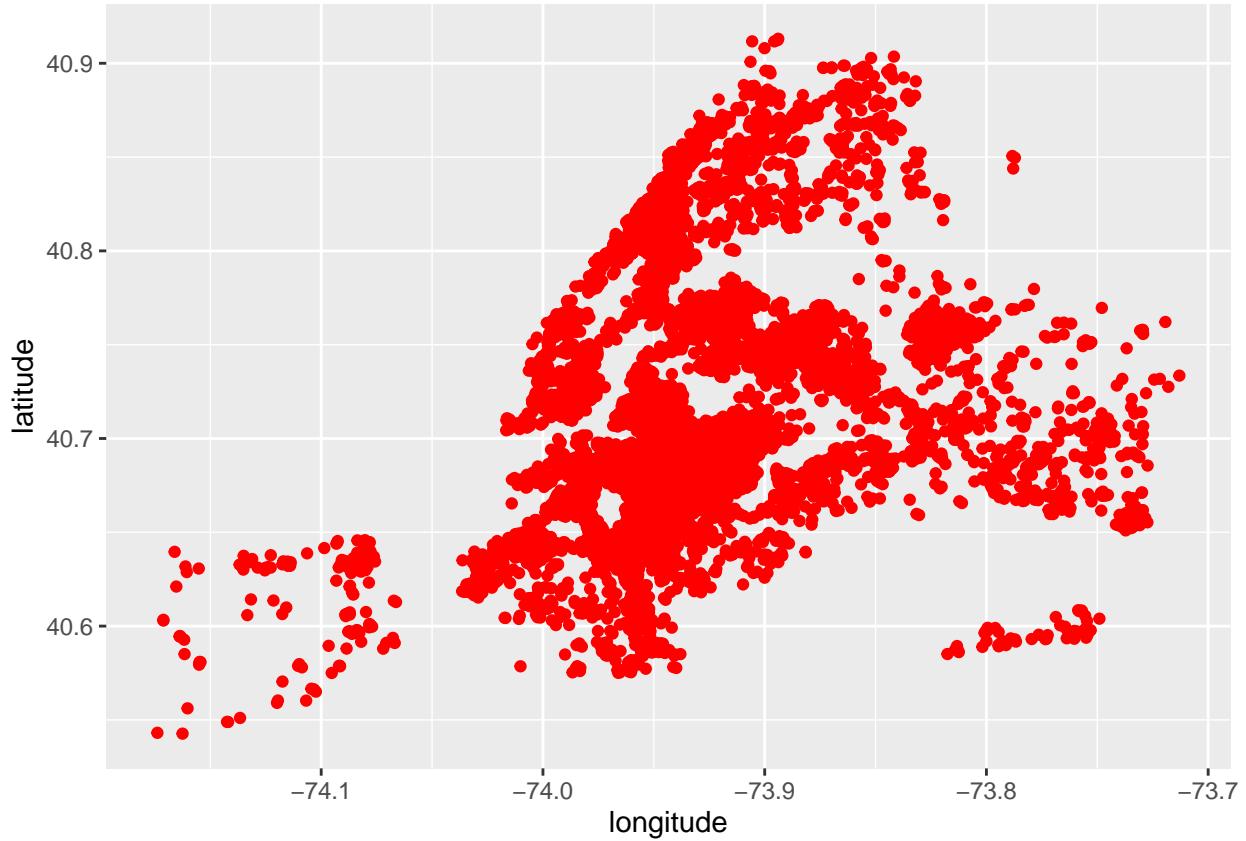
```



```

## [1] "==== clust: 1===="
##   neighbourhood_group      latitude      longitude      room_type
## 1:3405                  Min. :40.51    Min. :-74.24    1: 1396
## 2:6791                  1st Qu.:40.71   1st Qu.:-73.99  2:10440
## 3:1483                  Median :40.74   Median :-73.96  3:  260
## 4: 124                  Mean   :40.74   Mean   :-73.96
## 5: 293                  3rd Qu.:40.77   3rd Qu.:-73.94
##                         Max.  :40.91    Max.  :-73.73
##
##      price
##  Min.  :-1.118678
##  1st Qu.:-0.178086
##  Median :-0.001724
##  Mean   :-0.033367
##  3rd Qu.: 0.233424
##  Max.   : 0.456814
## [1] "====="

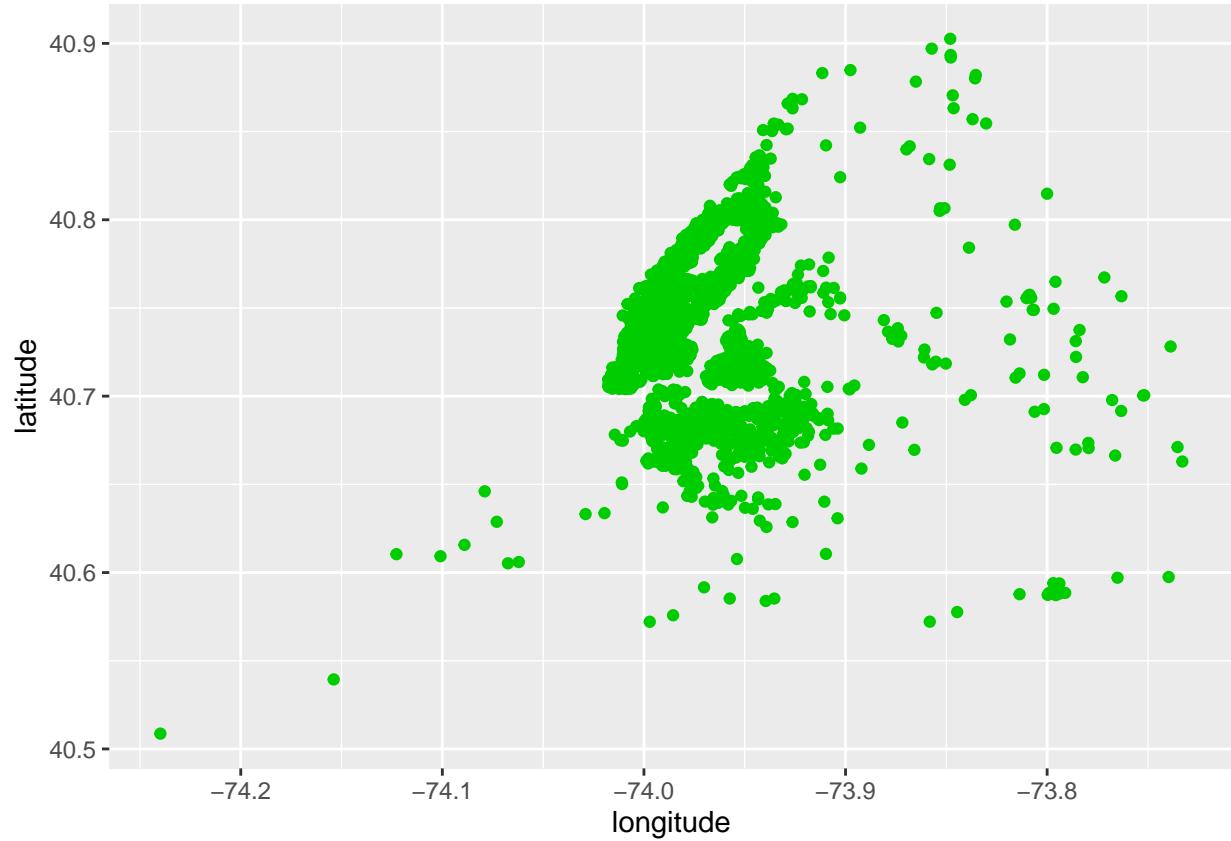
```



```

## [1] "==== clust: 2===="
##   neighbourhood_group      latitude      longitude      room_type
## 1:7285                  Min. :40.54    Min. :-74.17    1:12028
## 2:2699                  1st Qu.:40.68   1st Qu.:-73.96   2: 584
## 3:2660                  Median :40.70   Median :-73.94   3: 766
## 4: 155                  Mean   :40.72   Mean   :-73.93
## 5: 579                  3rd Qu.:40.76   3rd Qu.:-73.91
##                      Max.  :40.91   Max.  :-73.71
## 
##   price
##   Min.  :-1.3538
##   1st Qu.:-1.0011
##   Median :-0.9188
##   Mean   :-0.9132
##   3rd Qu.:-0.8012
##   Max.   :-0.6719
## [1] "====="

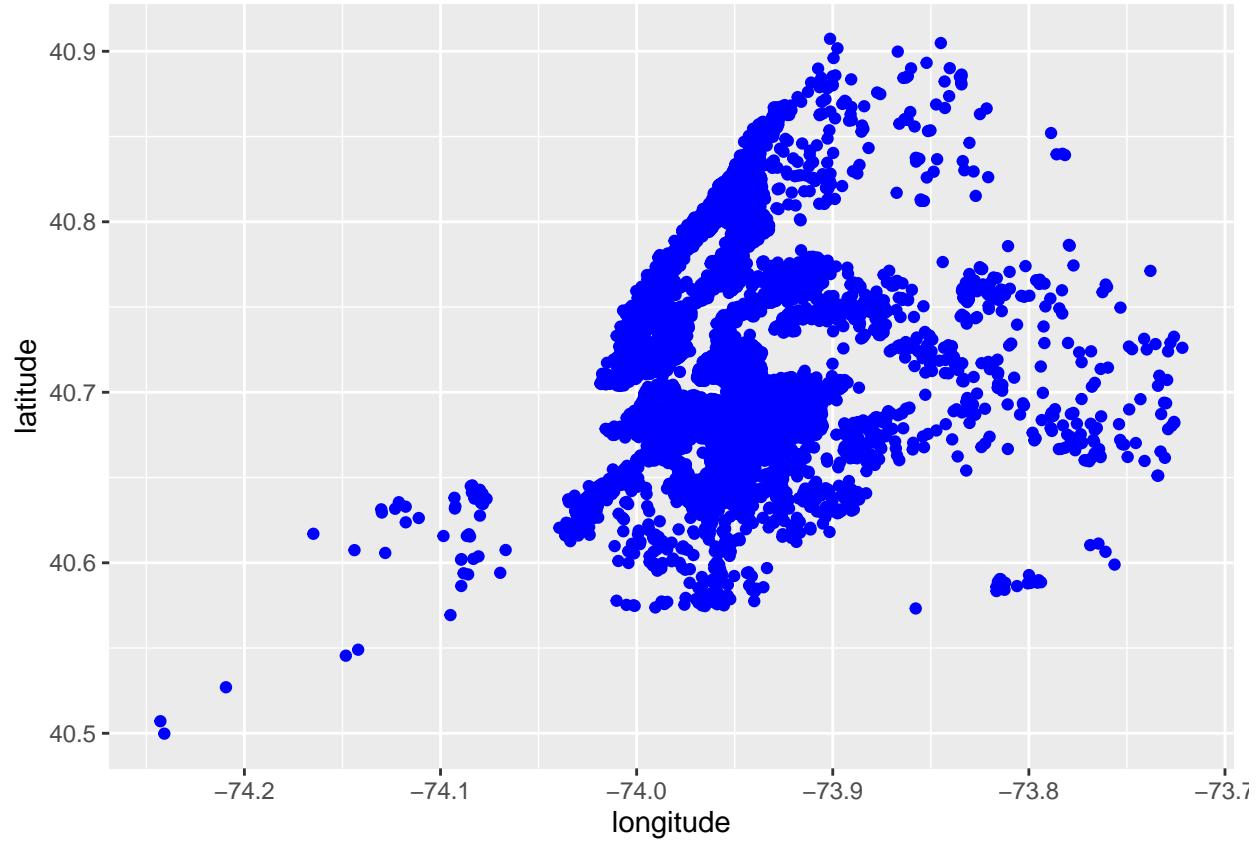
```



```

## [1] "==== clust: 3===="
##   neighbourhood_group      latitude      longitude      room_type      price
## 1: 737                  Min.    :40.51     Min.   :-74.24     1: 270      Min.   :1.809
## 2:2289                 1st Qu.:40.72    1st Qu.:-73.99    2:2889     1st Qu.:1.997
## 3: 118                 Median  :40.74    Median  :-73.98     3:  18      Median :2.585
## 4:    9                  Mean    :40.74    Mean    :-73.97      Mean   :2.634
## 5:  24                  3rd Qu.:40.76    3rd Qu.:-73.96     3rd Qu.:3.161
##                               Max.    :40.90     Max.   :-73.73      Max.   :4.337
## [1] "====="

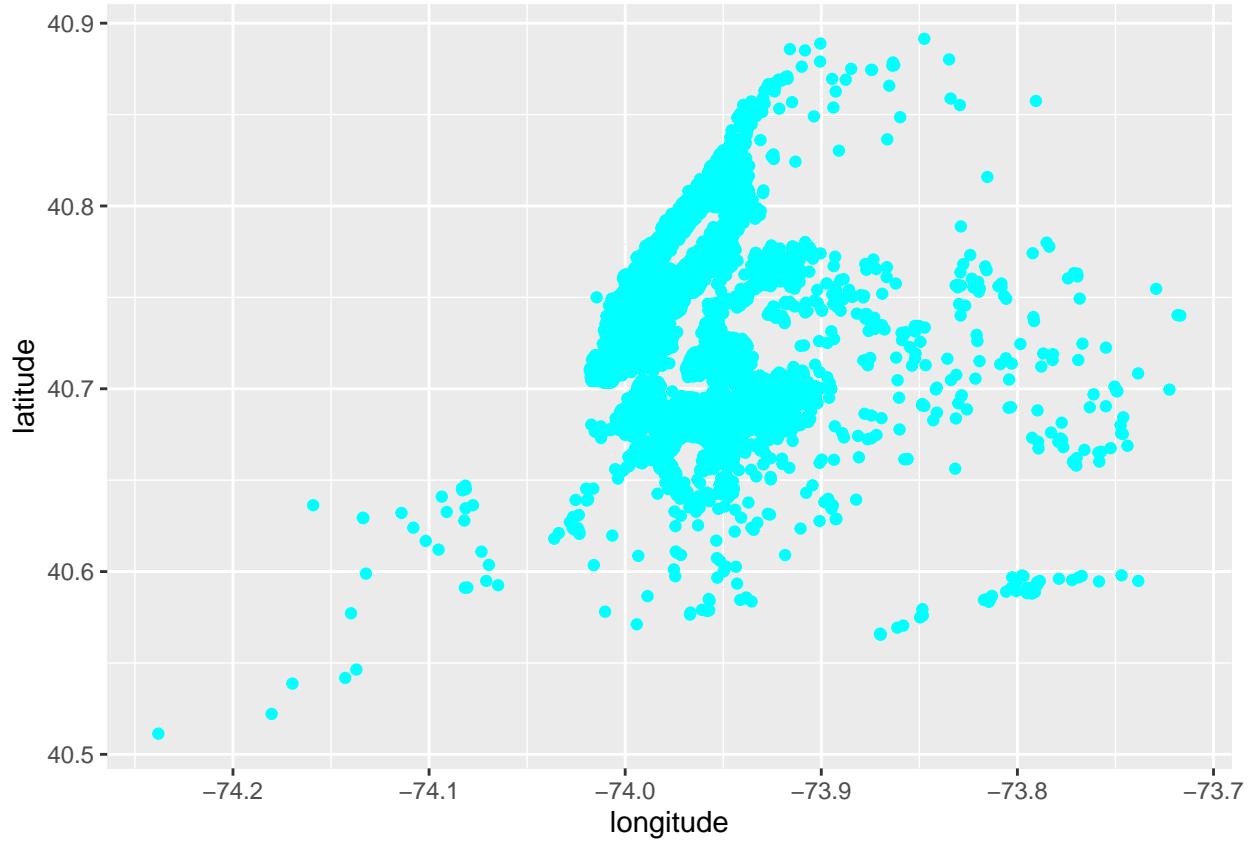
```



```

## [1] "==== clust: 4===="
##   neighbourhood_group      latitude      longitude      room_type
## 1:5783                  Min. :40.50    Min. :-74.24    1:7720
## 2:3217                 1st Qu.:40.68   1st Qu.:-73.97   2:2331
## 3: 919                  Median :40.71   Median :-73.95   3:  66
## 4:  49                  Mean   :40.72   Mean   :-73.95
## 5: 149                 3rd Qu.:40.75   3rd Qu.:-73.94
##                    Max.   :40.91    Max.   :-73.72
## 
##       price
##  Min.   :-0.6601
##  1st Qu.:-0.5896
##  Median :-0.4720
##  Mean   :-0.4225
##  3rd Qu.:-0.3544
##  Max.   : 0.6920
## [1] "====="

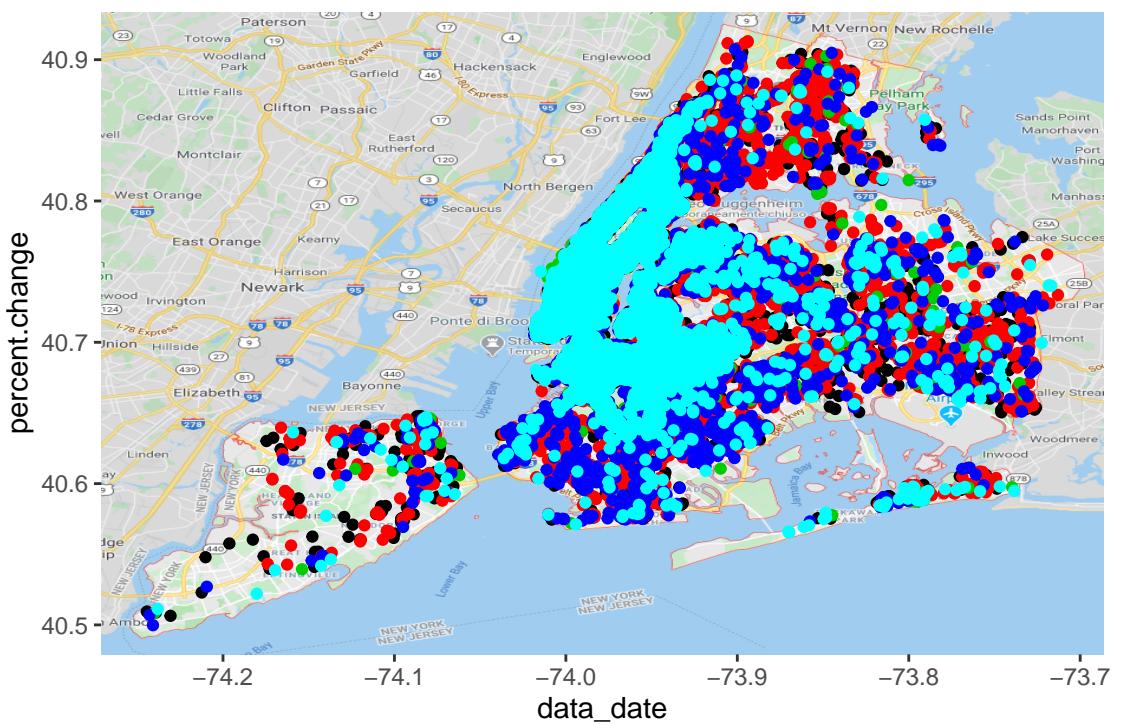
```



```

## [1] "==== clust: 5===="
##   neighbourhood_group      latitude      longitude      room_type
## 1:2598                  Min.    :40.51    Min.   :-74.24    1: 722
## 2:5749                 1st Qu.:40.71    1st Qu.:-73.99    2:8102
## 3: 445                  Median :40.73    Median :-73.98    3:  32
## 4:   29                  Mean   :40.73    Mean   :-73.97
## 5:   35                 3rd Qu.:40.76    3rd Qu.:-73.95
##                      Max.   :40.89    Max.   :-73.72
## 
##       price
##   Min.   :0.4686
##   1st Qu.:0.6920
##   Median :0.8213
##   Mean   :0.9628
##   3rd Qu.:1.2916
##   Max.   :1.7972
## [1] "====="
lis$myplot

```

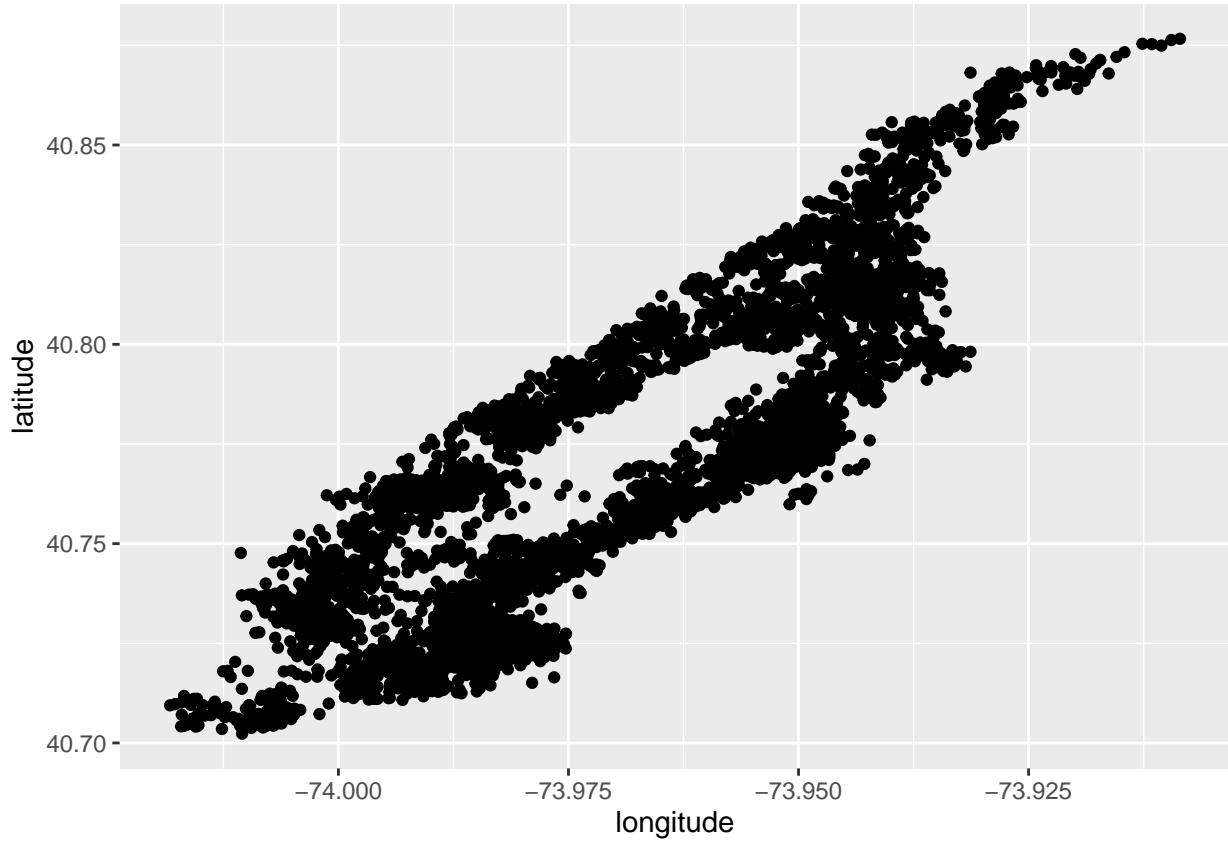


```

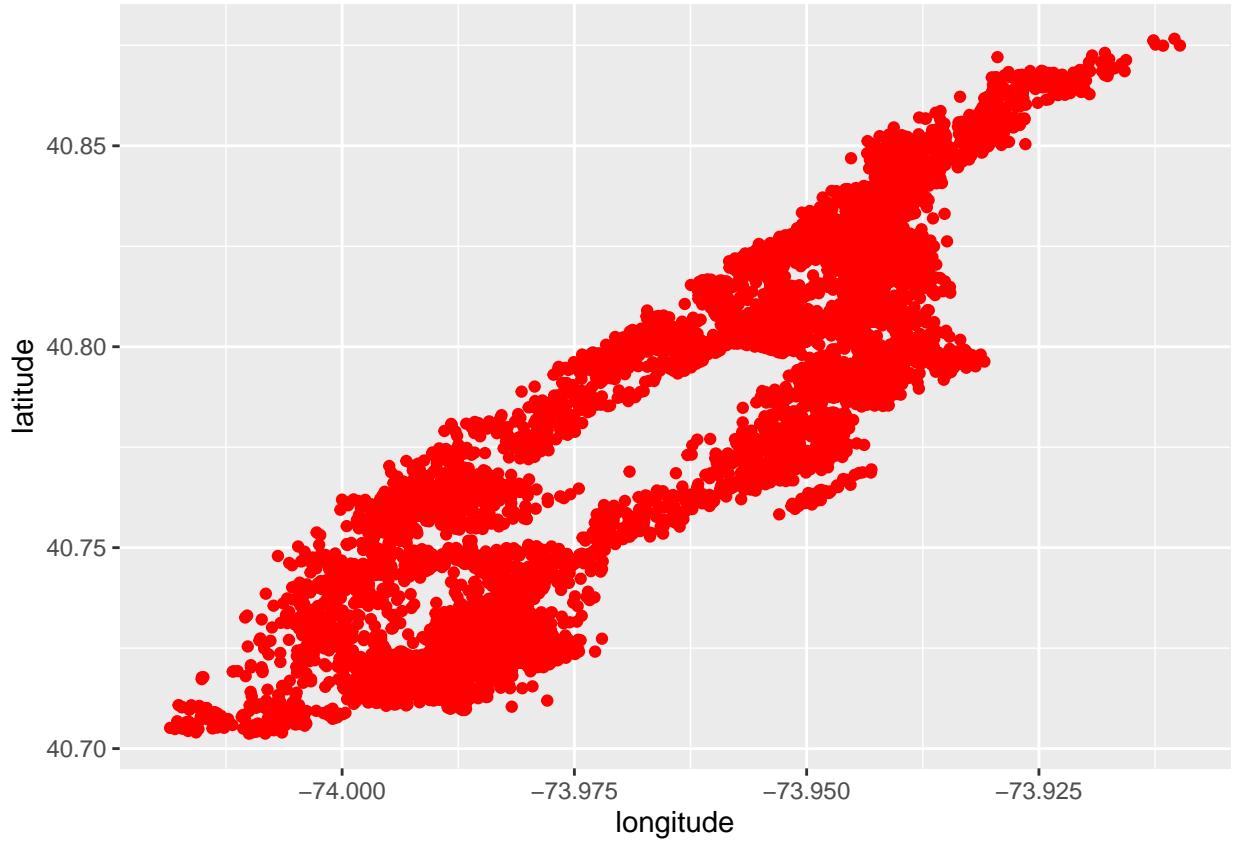
lis2 = get_clusters(ds_neig,5)

## # NAs in variables:
##   latitude longitude room_type      price
##          0         0         0         0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.7760002

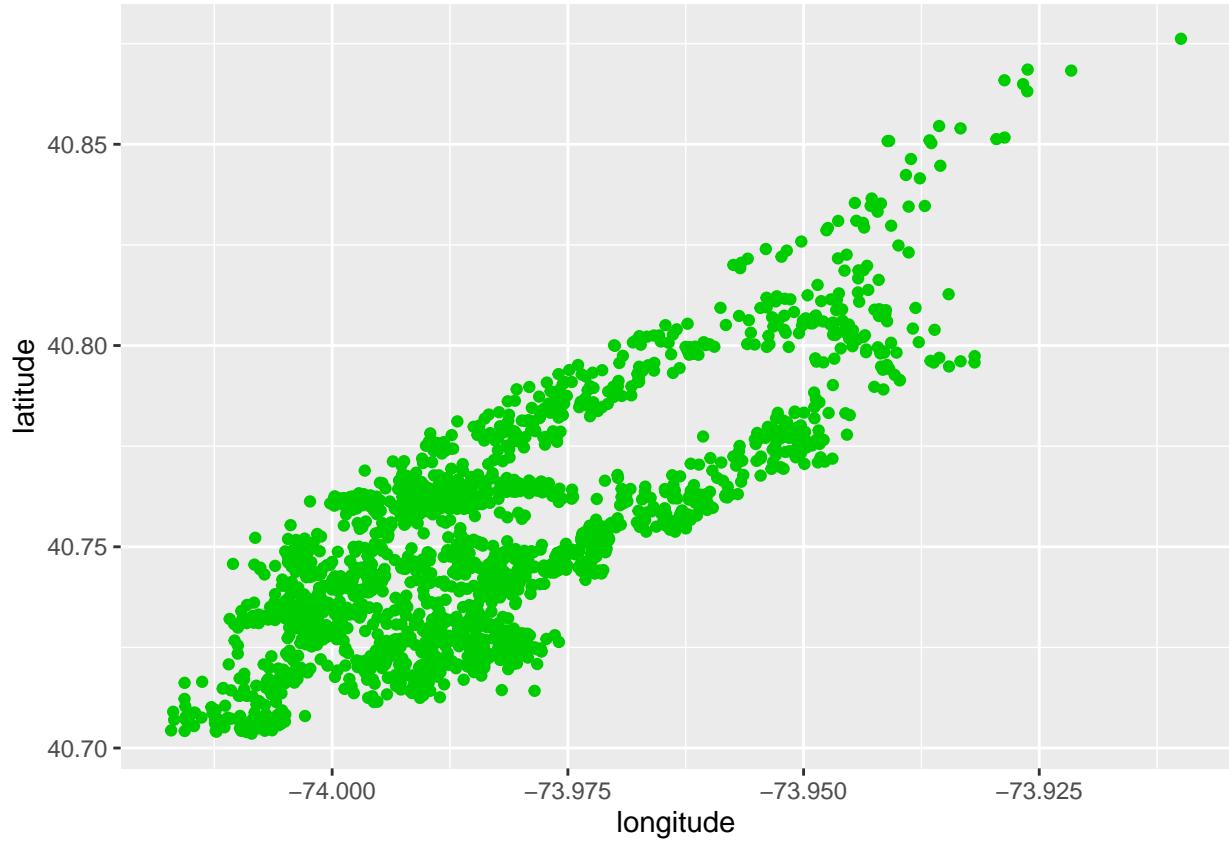
```



```
## [1] "==== clust: 1===="
##      latitude      longitude     room_type      price
##  Min.   :40.70   Min.   :-74.02   1:    0   Min.   :-1.059891
##  1st Qu.:40.74   1st Qu.:-73.99   2:5055   1st Qu.:-0.248630
##  Median :40.77   Median :-73.97   3:   34   Median :-0.001724
##  Mean   :40.77   Mean   :-73.97           Mean   :-0.043334
##  3rd Qu.:40.80   3rd Qu.:-73.95           3rd Qu.: 0.233424
##  Max.   :40.88   Max.   :-73.91           Max.   : 0.421542
## [1] "=====
```



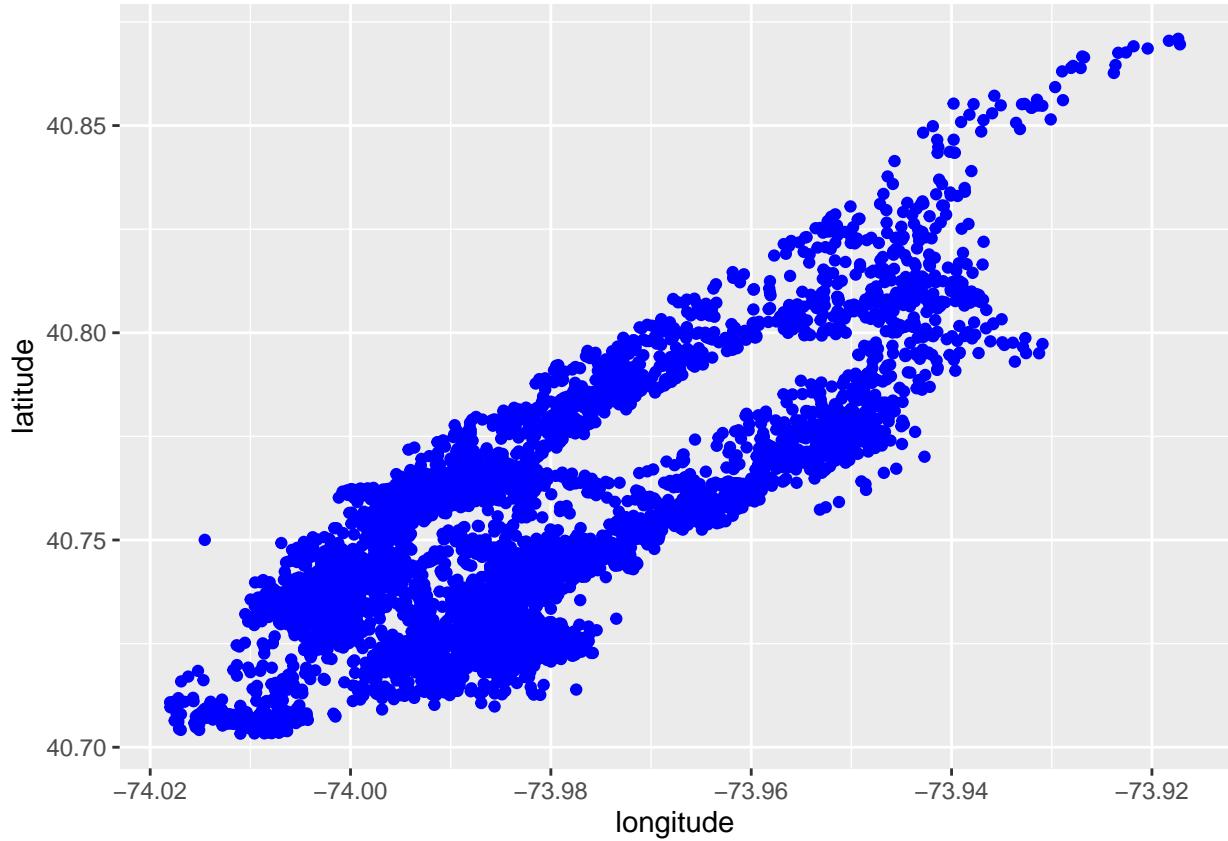
```
## [1] "==== clust: 2===="
##      latitude      longitude     room_type      price
##  Min.   :40.70   Min.   :-74.02   1:7121   Min.   :-1.3538
##  1st Qu.:40.74   1st Qu.:-73.99   2:    6   1st Qu.:-0.7660
##  Median :40.78   Median :-73.97   3: 405   Median :-0.5661
##  Mean   :40.78   Mean   :-73.97           Mean   :-0.5194
##  3rd Qu.:40.81   3rd Qu.:-73.95           3rd Qu.:-0.3544
##  Max.   :40.88   Max.   :-73.91           Max.   : 0.4568
## [1] "=====
```



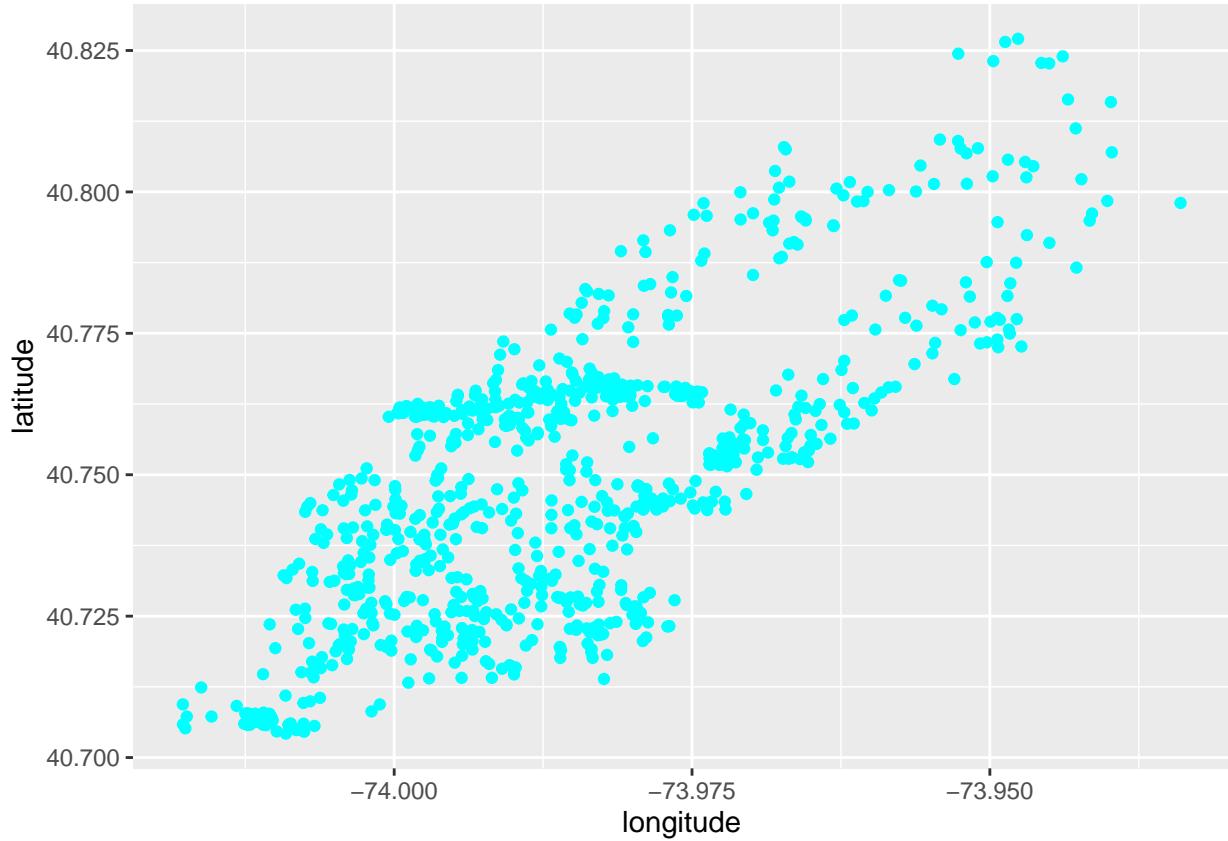
```

## [1] "==== clust: 3===="
##      latitude      longitude    room_type      price
##  Min.   :40.70   Min.   :-74.02   1: 163   Min.   :1.480
##  1st Qu.:40.73  1st Qu.:-74.00   2:1759  1st Qu.:1.762
##  Median :40.75  Median :-73.99   3:  11   Median :1.997
##  Mean   :40.75  Mean   :-73.98          Mean   :2.047
##  3rd Qu.:40.77  3rd Qu.:-73.97          3rd Qu.:2.291
##  Max.   :40.88  Max.   :-73.91          Max.   :2.726
## [1] "====="

```



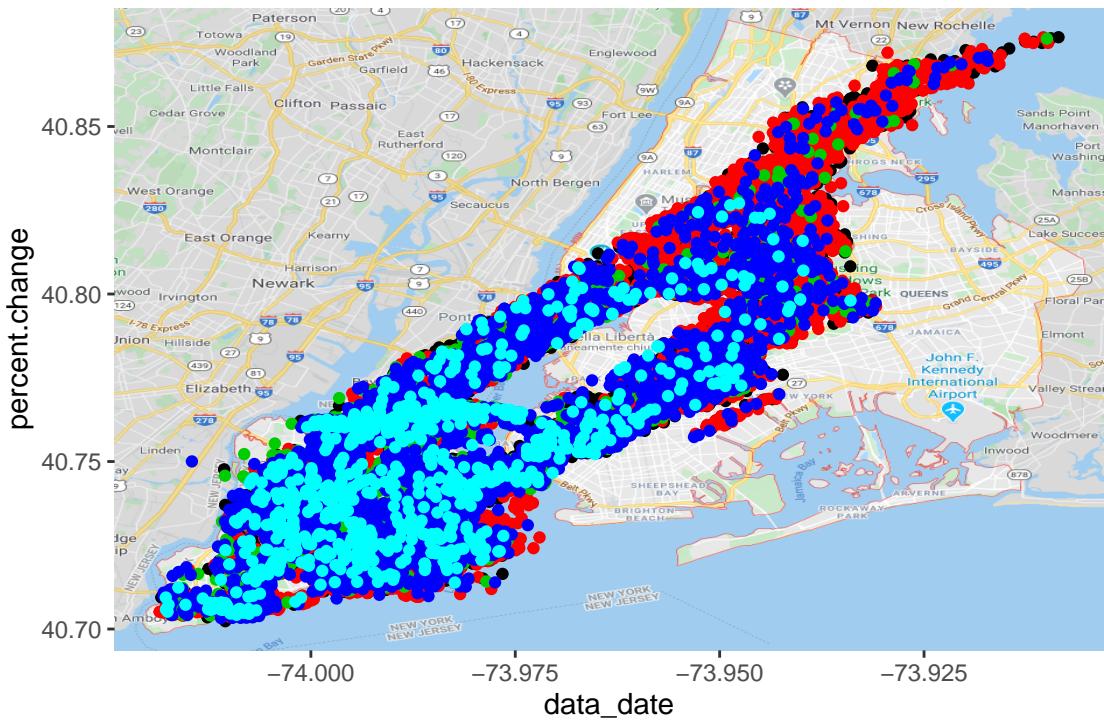
```
## [1] "==== clust: 4===="
##      latitude      longitude     room_type      price
##  Min.   :40.70   Min.   :-74.02   1: 503   Min.   :0.4333
##  1st Qu.:40.73  1st Qu.:-74.00   2:4816  1st Qu.:0.6449
##  Median :40.75  Median :-73.99   3: 18   Median :0.8213
##  Mean   :40.75  Mean   :-73.98   4: 11   Mean   :0.9061
##  3rd Qu.:40.77  3rd Qu.:-73.97   5: 10   3rd Qu.:1.1505
##  Max.   :40.87  Max.   :-73.92   6:  1   Max.   :1.4680
## [1] "=====
```



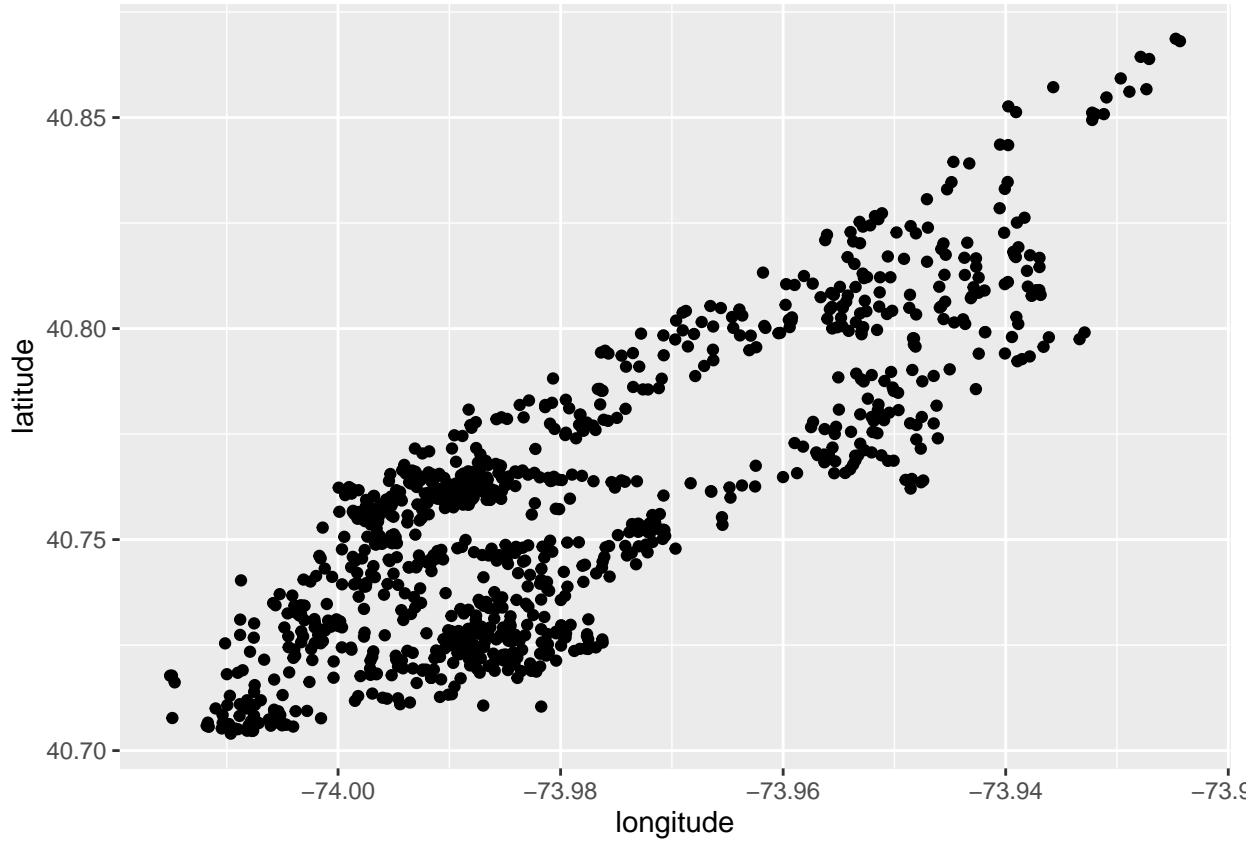
```

## [1] "==== clust: 5===="
##      latitude      longitude    room_type      price
##  Min.   :40.70   Min.   :-74.02   1: 74   Min.   :2.761
##  1st Qu.:40.73  1st Qu.:-74.00  2:775  1st Qu.:3.114
##  Median :40.75  Median :-73.99   3:  5   Median :3.173
##  Mean   :40.75  Mean   :-73.99   4: 10   Mean   :3.407
##  3rd Qu.:40.76  3rd Qu.:-73.98   5: 10   3rd Qu.:3.761
##  Max.   :40.83  Max.   :-73.93   6:  1   Max.   :4.337
## [1] "====="
lis2$myplot

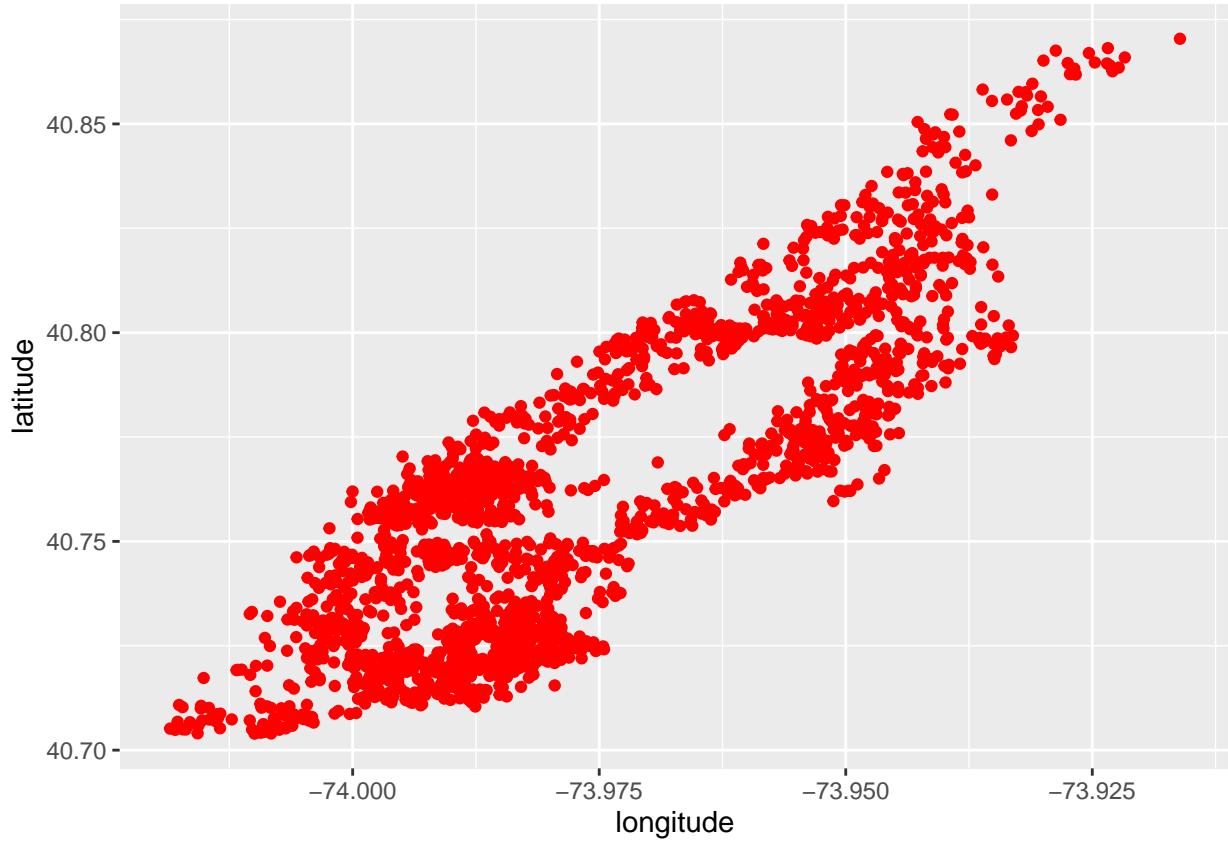
```



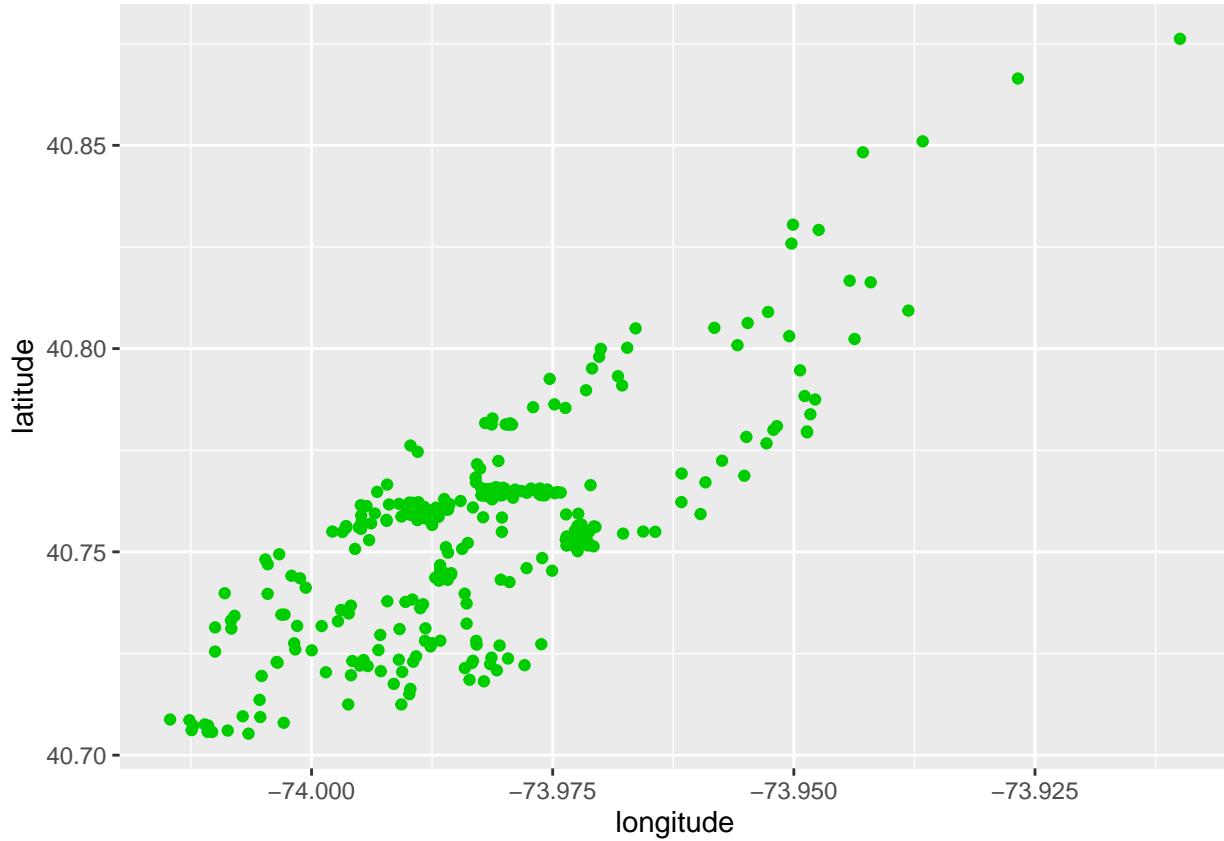
```
lis3 = get_clusters(ds_neig_room,5,F)
```



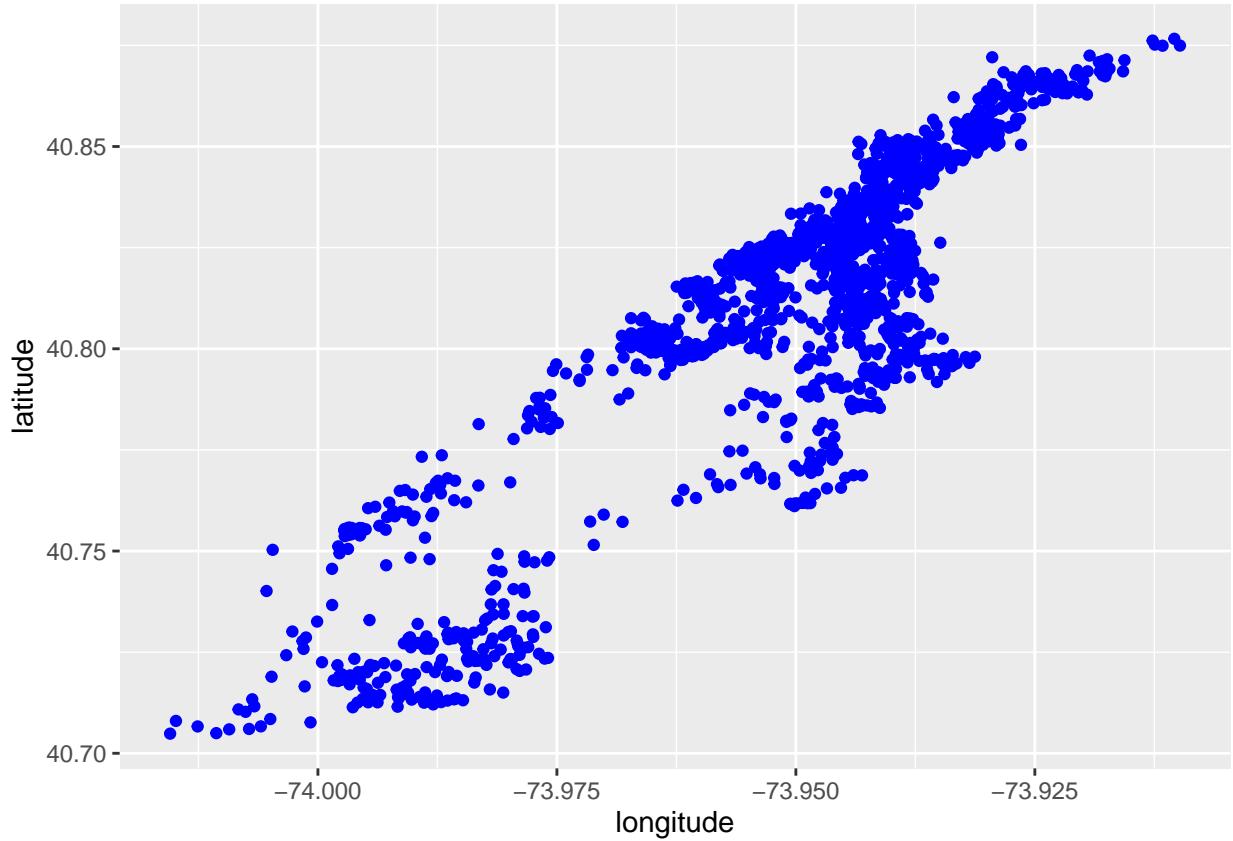
```
## [1] "==== clust: 1===="
##      latitude      longitude       price
##  Min.   :40.70   Min.   :-74.02   Min.   :0.1041
##  1st Qu.:40.73   1st Qu.:-73.99   1st Qu.:0.2334
##  Median :40.76   Median :-73.99   Median :0.3510
##  Mean    :40.76   Mean    :-73.98   Mean    :0.4565
##  3rd Qu.:40.78   3rd Qu.:-73.97   3rd Qu.:0.7037
##  Max.    :40.87   Max.    :-73.92   Max.    :1.2916
## [1] "=====
```



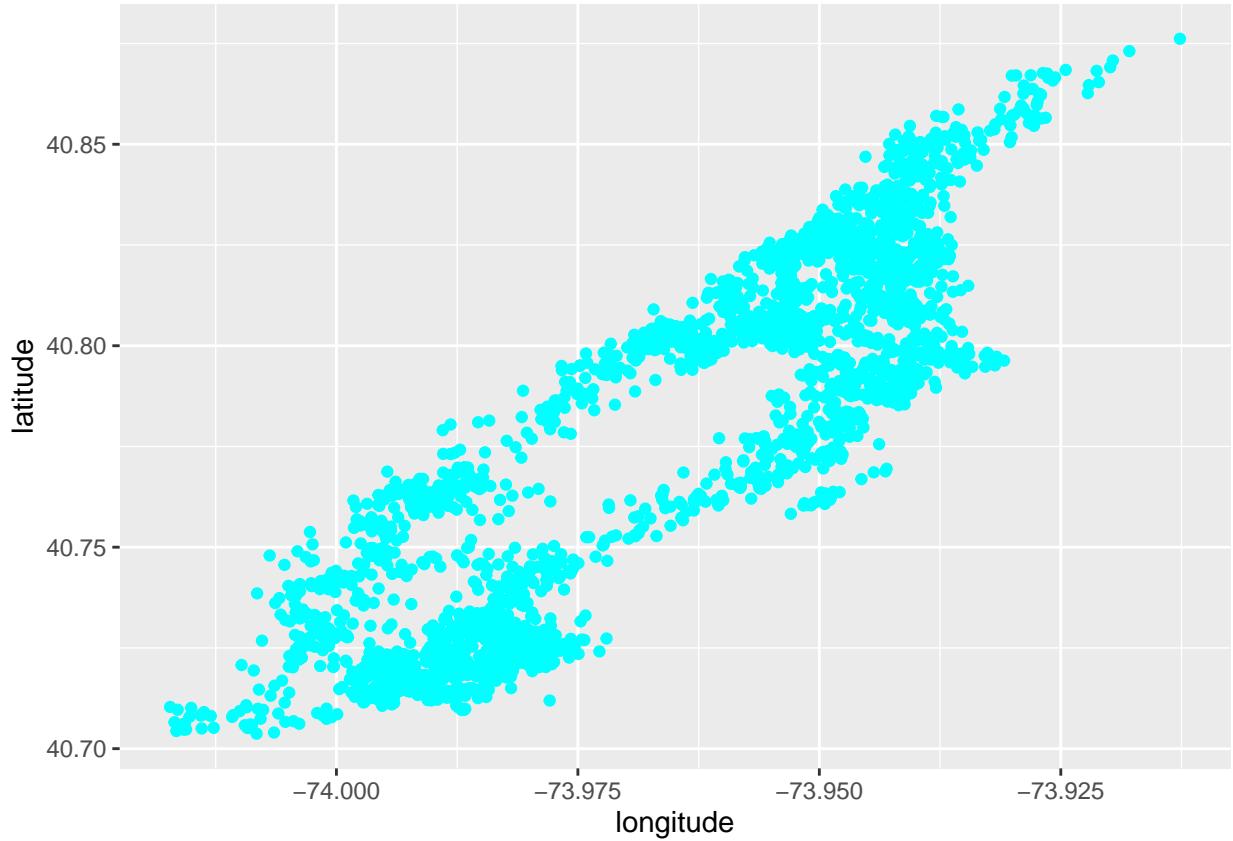
```
## [1] "==== clust: 2===="
##      latitude      longitude       price
##  Min.   :40.70   Min.   :-74.02   Min.   :-0.42499
##  1st Qu.:40.73   1st Qu.:-73.99   1st Qu.:-0.35445
##  Median :40.76   Median :-73.98   Median :-0.29566
##  Mean    :40.76   Mean    :-73.98   Mean    :-0.24938
##  3rd Qu.:40.79   3rd Qu.:-73.96   3rd Qu.:-0.11930
##  Max.    :40.87   Max.    :-73.92   Max.    : 0.09233
## [1] "=====
```



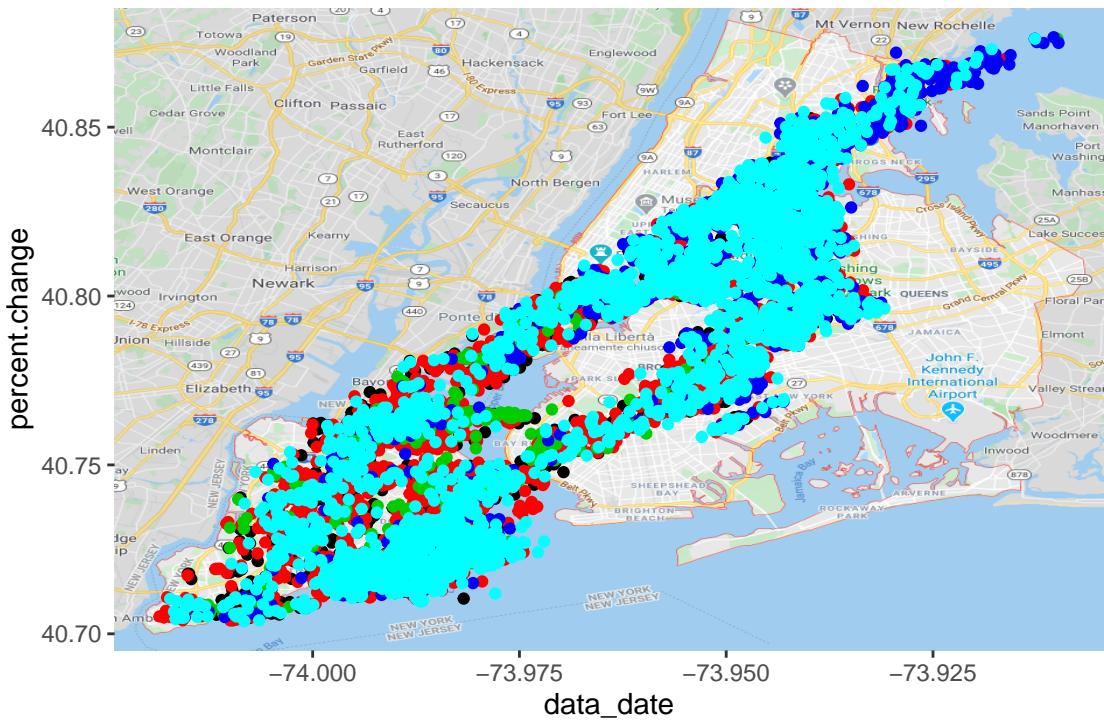
```
## [1] "==== clust: 3===="
##      latitude          longitude         price
##  Min.   :40.71   Min.   :-74.01   Min.   :1.339
##  1st Qu.:40.74   1st Qu.:-73.99   1st Qu.:1.450
##  Median :40.76   Median :-73.98   Median :1.997
##  Mean    :40.76   Mean    :-73.98   Mean    :2.219
##  3rd Qu.:40.76   3rd Qu.:-73.97   3rd Qu.:2.661
##  Max.    :40.88   Max.    :-73.91   Max.    :4.337
## [1] "=====
```



```
## [1] "==== clust: 4===="
##      latitude      longitude       price
##  Min.   :40.70   Min.   :-74.02   Min.   :-1.3421
##  1st Qu.:40.80   1st Qu.:-73.96   1st Qu.:-1.0011
##  Median :40.82   Median :-73.95   Median :-0.9423
##  Mean    :40.81   Mean    :-73.95   Mean    :-0.9325
##  3rd Qu.:40.83   3rd Qu.:-73.94   3rd Qu.:-0.8365
##  Max.    :40.88   Max.    :-73.91   Max.    :-0.7660
## [1] "=====
```



```
## [1] "==== clust: 5===="
##      latitude      longitude       price
##  Min.   :40.70   Min.   :-74.02   Min.   :-0.7777
##  1st Qu.:40.73   1st Qu.:-73.99   1st Qu.:-0.7072
##  Median :40.79   Median :-73.96   Median :-0.6014
##  Mean    :40.78   Mean    :-73.97   Mean    :-0.6122
##  3rd Qu.:40.81   3rd Qu.:-73.95   3rd Qu.:-0.5308
##  Max.    :40.88   Max.    :-73.91   Max.    :-0.4367
## [1] "====="
lis3$myplot
```



```
library(wesanderson) par(mfrow=c(2,2)) clprofiles(lis$cl, dataset, col = wes_palette("Royall",5, type = "continuous"))
```

```
Es = numeric(10)
for(i in 1:10)
{
  kpres <- kproto(dataset, k = i, nstart = 5)
  Es[i] <- kpres$tot.withinss
}

## # NAs in variables:
## neighbourhood_group          latitude          longitude          room_type
##                 0                  0                  0                  0
## price
##                 0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group          latitude          longitude          room_type
##                 0                  0                  0                  0
## price
##                 0
## 0 observation(s) with NAs.
##
## # NAs in variables:
```

```

## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                         0                  0                  0
## price
##                         0
## 0 observation(s) with NAs.

```

```

##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##          price
##          0

```

```

## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:

```

```

## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0
## price                      0
##                           0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group          latitude      longitude      room_type
##                           0              0                  0

```

```

##          0          0          0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##          0                  0                  0                  0
##      price
##          0
## 0 observation(s) with NAs.

```

```

## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group      latitude      longitude      room_type
##                      0                  0                  0
##          price
##          0
## 0 observation(s) with NAs.
##
## Estimated lambda: 0.5853531

```

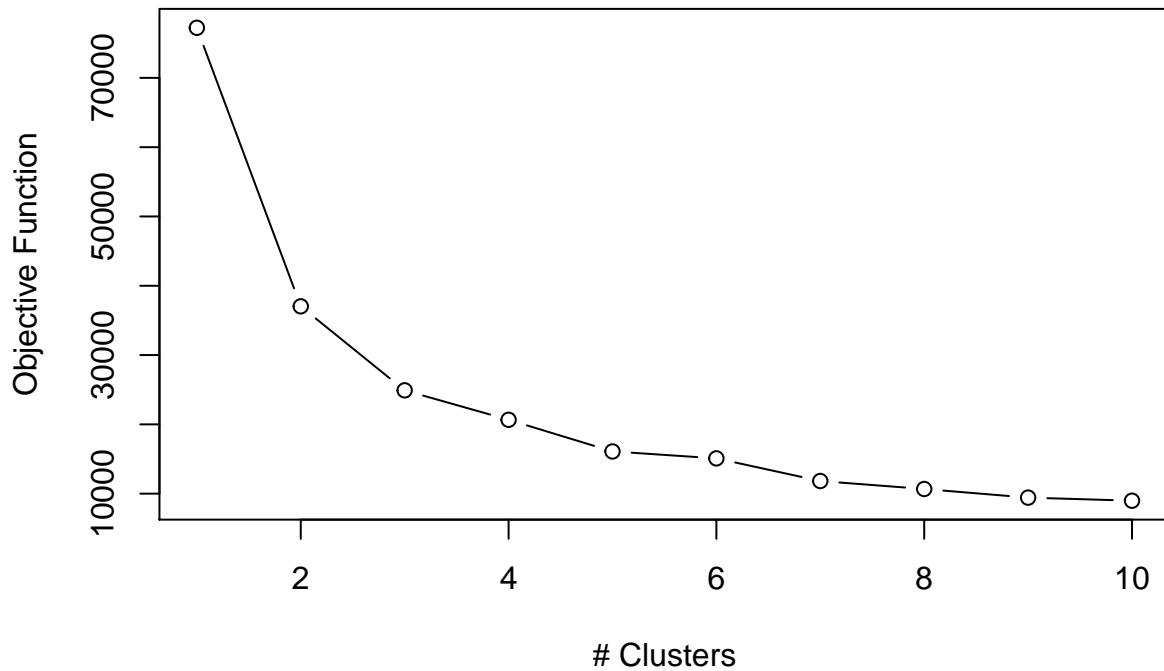
```

## 
## # NAs in variables:
## neighbourhood_group           latitude      longitude      room_type
##                         0             0              0                  0
##               price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group           latitude      longitude      room_type
##                         0             0              0                  0
##               price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group           latitude      longitude      room_type
##                         0             0              0                  0
##               price
##                         0
## 0 observation(s) with NAs.
##
## # NAs in variables:
## neighbourhood_group           latitude      longitude      room_type
##                         0             0              0                  0
##               price
##                         0
## 0 observation(s) with NAs.
##
## neighbourhood_group           latitude      longitude      room_type
##                         0             0              0                  0
##               price
##                         0
## 0 observation(s) with NAs.

plot(1:10, Es, type = "b", ylab = "Objective Function", xlab = "# Clusters",main = "Scree Plot")

```

Scree Plot



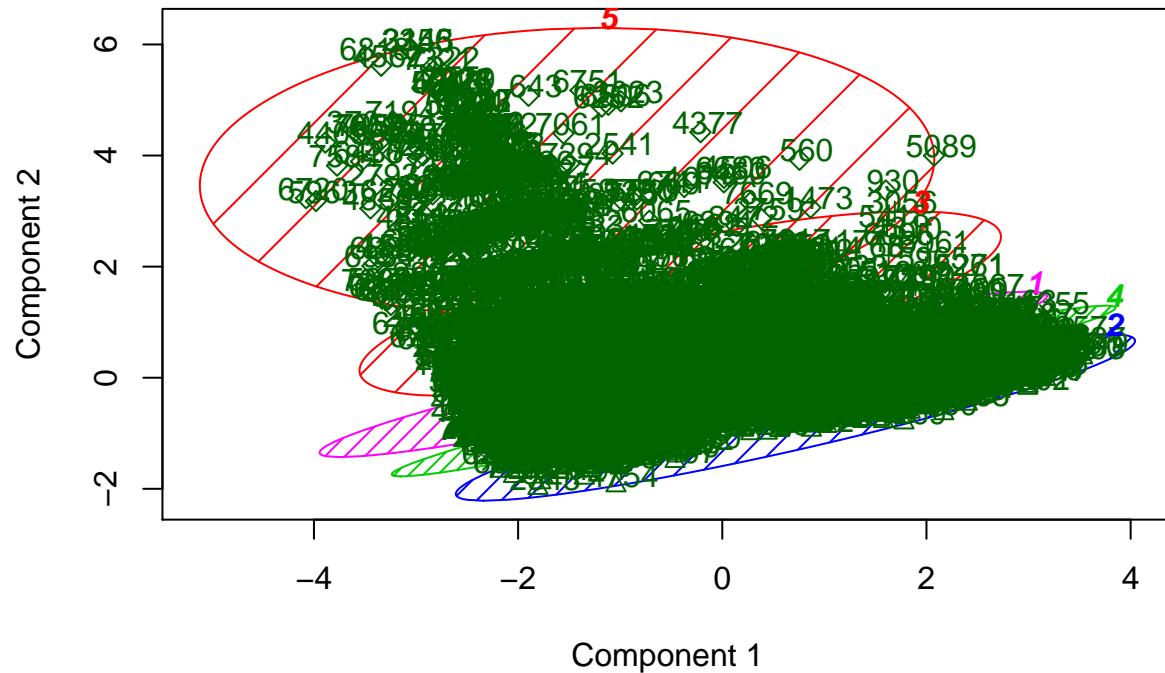
```
d <- dist(dataset, method = "euclidean") # distance matrix
fit <- hclust(d, method="complete")
plot(fit)
# display dendrogram
groups <- cutree(fit, k=5) # cut tree into 5 clusters
# draw dendrogram with red borders around the 5 clusters
rect.hclust(fit, k=5, border="red")

km.res <- kmeans(ds_neig_room, 5)

# Cluster Plot against 1st 2 principal components

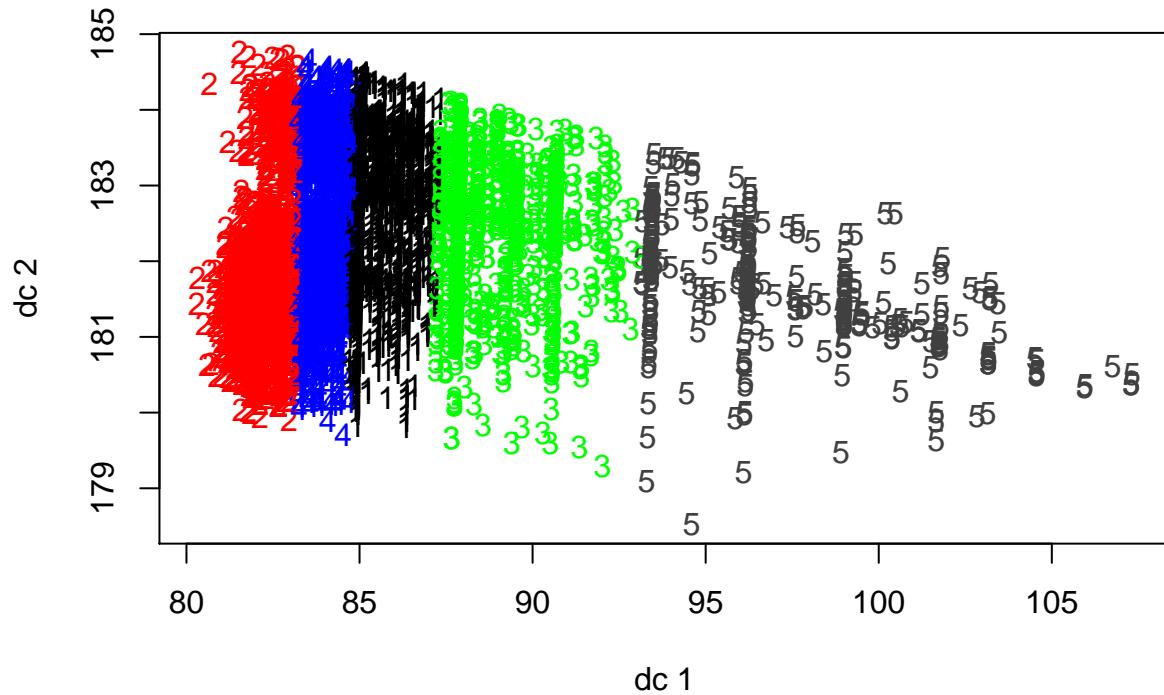
# vary parameters for most readable graph
library(cluster)
clusplot(ds_neig_room, km.res$cluster, color=TRUE, shade=TRUE,
        labels=2, lines=0)
```

CLUSPLOT(ds_neig_room)



These two components explain 95.98 % of the point variability.

```
# Centroid Plot against 1st 2 discriminant functions
library(fpc)
plotcluster(ds_neig_room, km.res$cluster)
```



To create a beautiful graph of the clusters generated with the kmeans() function, will use the factoextra package.

```
library(factoextra)

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

Cluster number for each of the observations
head(km.res$cluster)

## [1] 3 4 4 4 4 3

Cluster size
km.res$size

## [1] 2261 1954  980 2348  318

Cluster means
km.res$centers

##   latitude longitude      price
## 1 40.76025 -73.97699 -0.2440123
## 2 40.80663 -73.95290 -0.9092770
## 3 40.75907 -73.97978  0.4652605
## 4 40.77651 -73.96633 -0.5923889
## 5 40.75525 -73.98145  2.2216822

fviz_cluster(km.res, data = ds_neig_room, palette = c("#00AFBB", "#2E9FDF", "#0000FF", "#E7B800",
```

```

“#FC4E07”), ggtheme = theme_minimal(), main = “Partitioning Clustering Plot” )
res <- hcut(ds_neig_room, k = 5, stand = FALSE) fviz_dend(res, rect = TRUE, cex = 0.5, k_colors =
c(“#00AFBB”, “#2E9FDF”, “#0000FF”, “#E7B800”, “#FC4E07”))

```

Partitioning Around Medoids (PAM) ALGORITHM

<https://dpmartin42.github.io/posts/r/cluster-mixed-types>

<https://towardsdatascience.com/clustering-on-mixed-type-data-8bbd0a2569c3>

```

library(cluster)
library(readr)
library(Rtsne)

```

Compute Gower distance

```
reduced = ds_neig = dataset %>% filter(neighbourhood_group == 3)
```

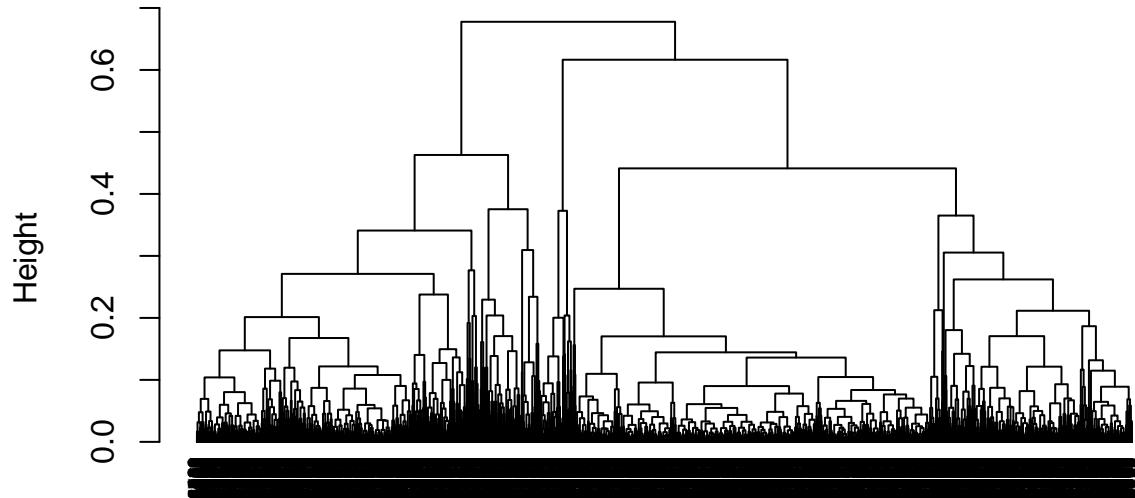
```
#reduced <- dataset[ sample(1:nrow(dataset), nrow(dataset)/5) , ]
```

```
#print(dim(reduced))
gower_dist <- daisy(reduced, metric = "gower")
#proxy::simil(reduced, method = "gower")
#dim(gower_dist)
```

```
hc1 <- hclust(gower_dist, method = "complete" )
hc1
```

```
##
## Call:
## hclust(d = gower_dist, method = "complete")
##
## Cluster method   : complete
## Number of objects: 5625
plot(hc1, cex = 0.6, hang = -1)
```

Cluster Dendrogram



```
gower_dist  
hclust (*, "complete")
```

```
start.time <- Sys.time() sil_width <- c(NA) for(i in 2:8){  
  pam_fit <- pam(gower_dist, diss = TRUE, k = i)  
  sil_width[i] <- pam.fitsilinfoavg.width  
}  
  
end.time <- Sys.time() time.taken <- end.time - start.time  
print(" - Time: -") time.taken print("")  
plot(1:8, sil_width, xlab = "Number of clusters", ylab = "Silhouette Width") lines(1:8, sil_width)
```

FAMD

<http://www.sthda.com/english/articles/31-principal-component-methods-in-r-practical-guide/115-famda-factor-analysis-of-mixed-data-in-r-essentials/> <https://nextjournal.com/pc-methods/calculate-pc-mixed-data> <https://cran.r-project.org/web/packages/FactoMineR/index.html> <https://stats.stackexchange.com/questions/5774/can-principal-component-analysis-be-applied-to-datasets-containing-a-mix-of-cont>

```
library("FactoMineR")  
library("factoextra")
```

FAMD (base, ncp = 5, sup.var = NULL, ind.sup = NULL, graph = TRUE) - base : a data frame with n rows (individuals) and p columns (variables). - ncp: the number of dimensions kept in the results (by default 5) - sup.var: a vector indicating the indexes of the supplementary variables. - ind.sup: a vector indicating the indexes of the supplementary individuals. - graph : a logical value. If TRUE a graph is displayed.

```
res.famd <- FAMD(dataset, graph = FALSE, ncp = 10)  
print(res.famd)
```

```

## *The results are available in the following objects:
##
##   name      description
## 1 "$eig"    "eigenvalues and inertia"
## 2 "$var"    "Results for the variables"
## 3 "$ind"    "results for the individuals"
## 4 "$quali.var" "Results for the qualitative variables"
## 5 "$quanti.var" "Results for the quantitative variables"

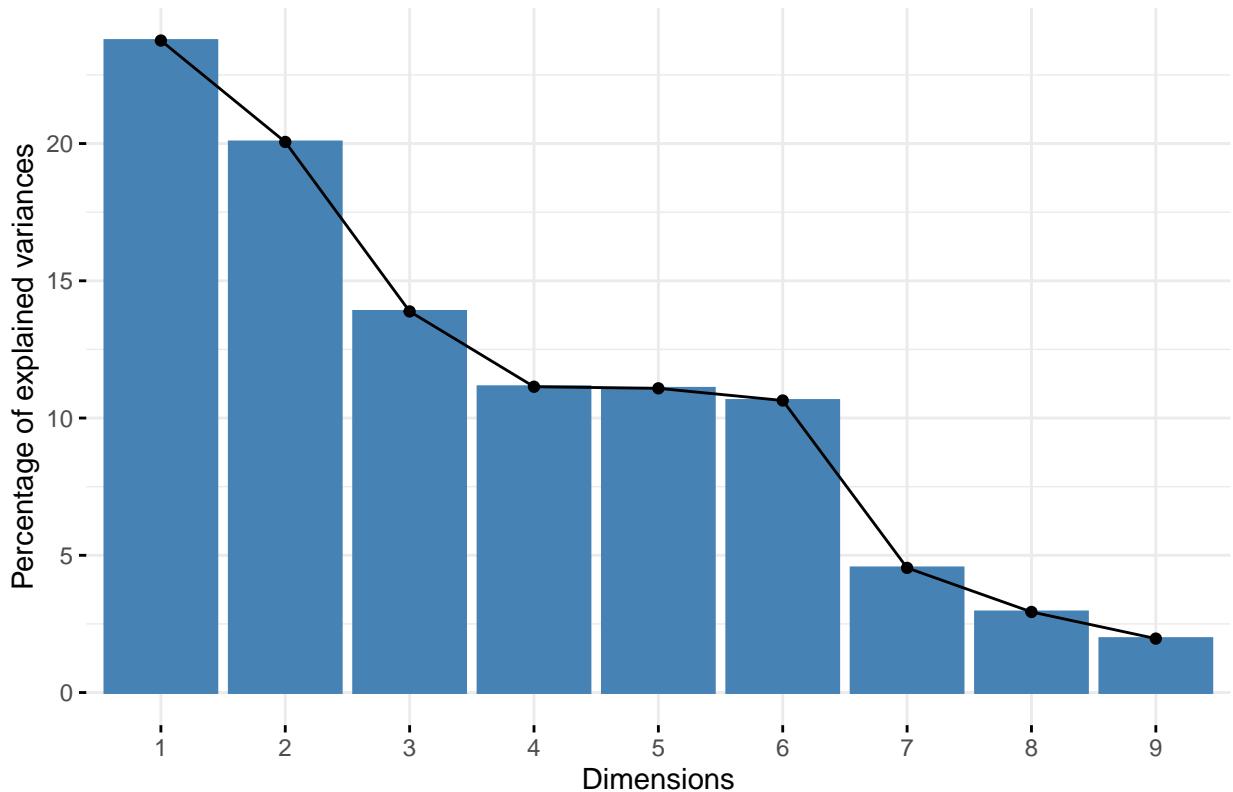
eig.val <- get_eigenvalue(res.famnd)
head(eig.val)

##          eigenvalue variance.percent cumulative.variance.percent
## Dim.1     2.137748        23.75276                  23.75276
## Dim.2     1.805218        20.05798                  43.81074
## Dim.3     1.249605        13.88450                  57.69523
## Dim.4     1.002652        11.14058                  68.83581
## Dim.5     0.997371        11.08190                  79.91771
## Dim.6     0.957535        10.63928                  90.55699

fviz_screepplot(res.famnd)

```

Scree plot



```

var <- get_famnd_var(res.famnd)
var

## FAMD results for variables
## =====
##   Name      Description

```

```

## 1 "$coord" "Coordinates"
## 2 "$cos2" "Cos2, quality of representation"
## 3 "$contrib" "Contributions"

# Coordinates of variables
head(var$coord)

##                               Dim.1      Dim.2      Dim.3      Dim.4      Dim.5
## latitude                  0.03817251 0.799942829 0.04979299 0.0016726106 0.0018443311
## longitude                 0.57648482 0.126449540 0.16901466 0.0001286546 0.0001808065
## price                      0.52646870 0.005289316 0.23304329 0.0004961812 0.0001797568
## neighbourhood_group        0.63434790 0.872021956 0.43570149 0.5311816705 0.4769063680
## room_type                  0.36227432 0.001514403 0.36205230 0.4691726517 0.5182597446
##                               Dim.6      Dim.7      Dim.8      Dim.9
## latitude                  0.003343990 0.0097573346 0.0382064302 5.726698e-02
## longitude                 0.007696492 0.0002012975 0.0862969271 3.354680e-02
## price                      0.017781932 0.2063906433 0.0098674271 4.827595e-04
## neighbourhood_group        0.821292614 0.0140794996 0.1289174174 8.555108e-02
## room_type                  0.107419933 0.1782744198 0.0009683695 6.385971e-05

# Cos2: quality of representation on the factor map
head(var$cos2)

##                               Dim.1      Dim.2      Dim.3      Dim.4
## latitude                  0.00145714 6.399085e-01 0.002479342 2.797626e-06
## longitude                 0.33233475 1.598949e-02 0.028565956 1.655201e-08
## price                      0.27716929 2.797686e-05 0.054309174 2.461957e-07
## neighbourhood_group        0.10059931 1.901056e-01 0.047458948 7.053849e-02
## room_type                  0.06562134 1.146708e-06 0.065540935 1.100615e-01
##                               Dim.5      Dim.6      Dim.7      Dim.8
## latitude                  3.401557e-06 1.118227e-05 9.520558e-05 1.459731e-03
## longitude                 3.269101e-08 5.923598e-05 4.052067e-08 7.447160e-03
## price                      3.231249e-08 3.161971e-04 4.259710e-02 9.736612e-05
## neighbourhood_group        5.685992e-02 1.686304e-01 4.955808e-05 4.154925e-03
## room_type                  1.342966e-01 5.769521e-03 1.589088e-02 4.688698e-07
##                               Dim.9
## latitude                  3.279507e-03
## longitude                 1.125388e-03
## price                      2.330567e-07
## neighbourhood_group        1.829747e-03
## room_type                  2.039031e-09

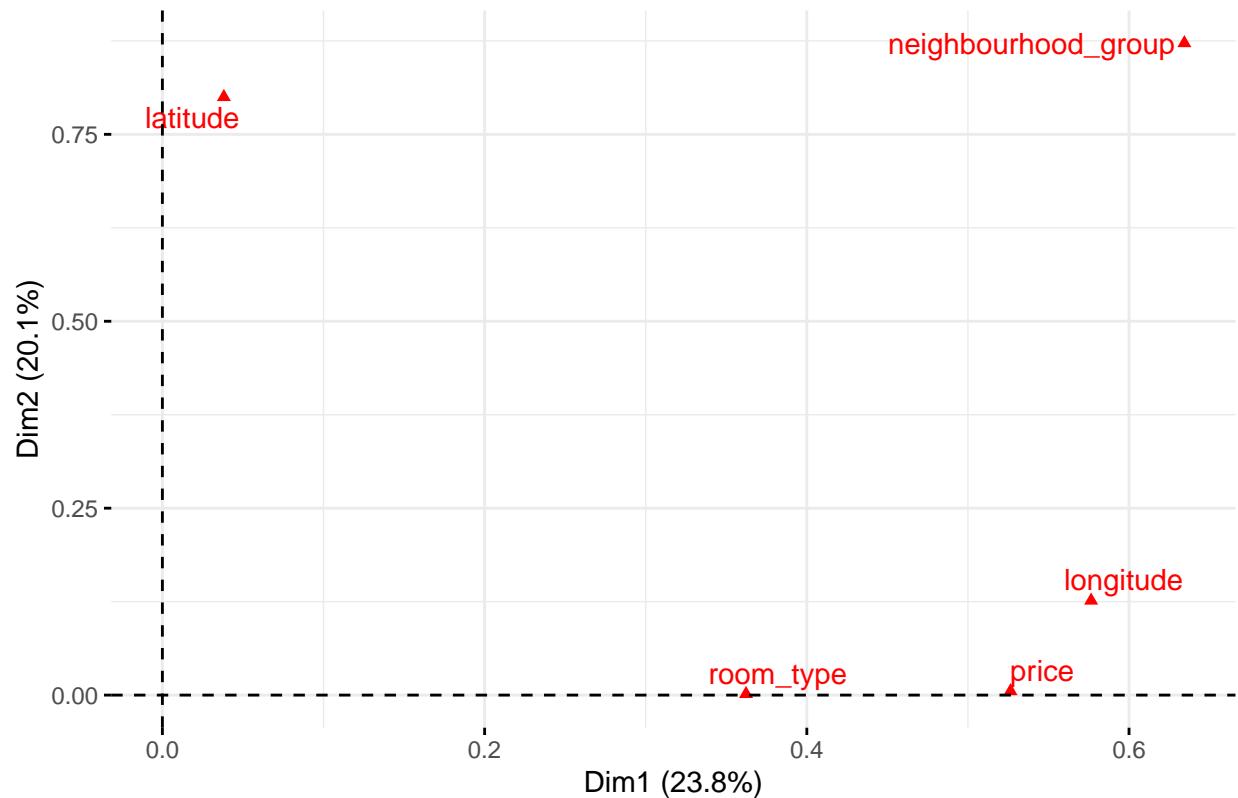
# Contributions to the dimensions
head(var$contrib)

##                               Dim.1      Dim.2      Dim.3      Dim.4      Dim.5
## latitude                  1.785641 44.3128093 3.984699 0.16681869 0.18491926
## longitude                 26.966918 7.0046685 13.525450 0.01283144 0.01812831
## price                      24.627254 0.2930015 18.649360 0.04948689 0.01802306
## neighbourhood_group        29.673648 48.3056304 34.867145 52.97768250 47.81634564
## room_type                  16.946538 0.0838903 28.973346 46.79318048 51.96258373
##                               Dim.6      Dim.7      Dim.8      Dim.9
## latitude                  0.3492291 2.38738888 14.4580814 32.37041334
## longitude                 0.8037818 0.04925273 32.6564924 18.96247665
## price                      1.8570530 50.49890627 3.7340328 0.27288195
## neighbourhood_group        85.7715538 3.44492037 48.7849429 48.35813107
## room_type                  11.2183823 43.61953175 0.3664505 0.03609699

```

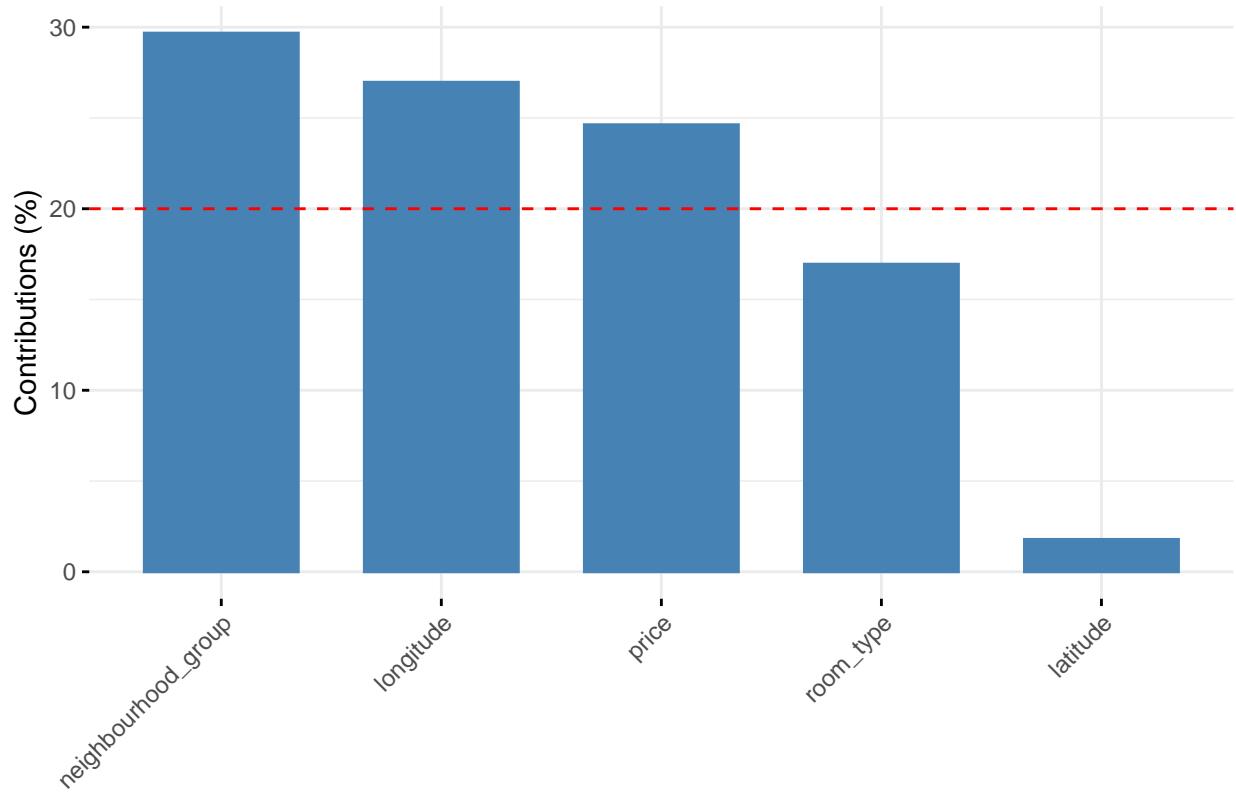
```
# Plot of variables  
fviz_famd_var(res.famd, repel = TRUE)
```

Variables – FAMD



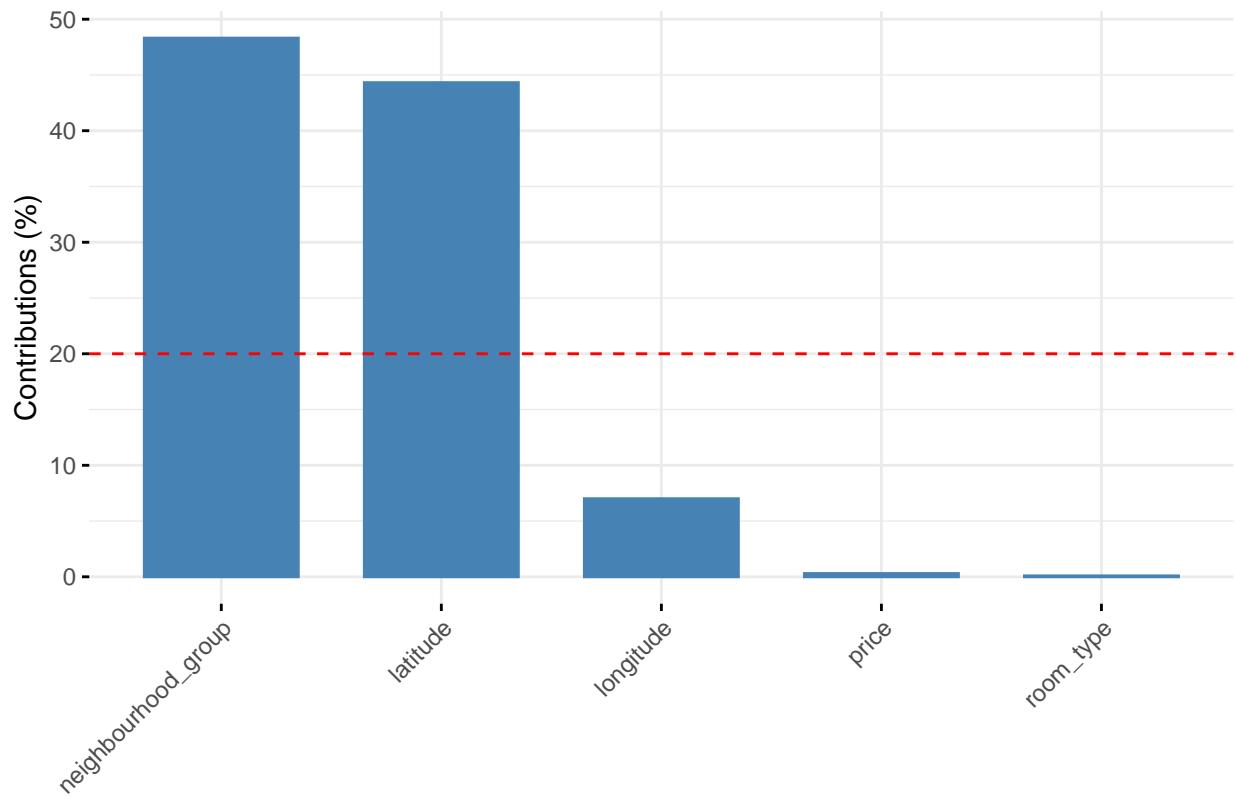
```
# Contribution to the first dimension  
fviz_contrib(res.famd, "var", axes = 1)
```

Contribution of variables to Dim-1



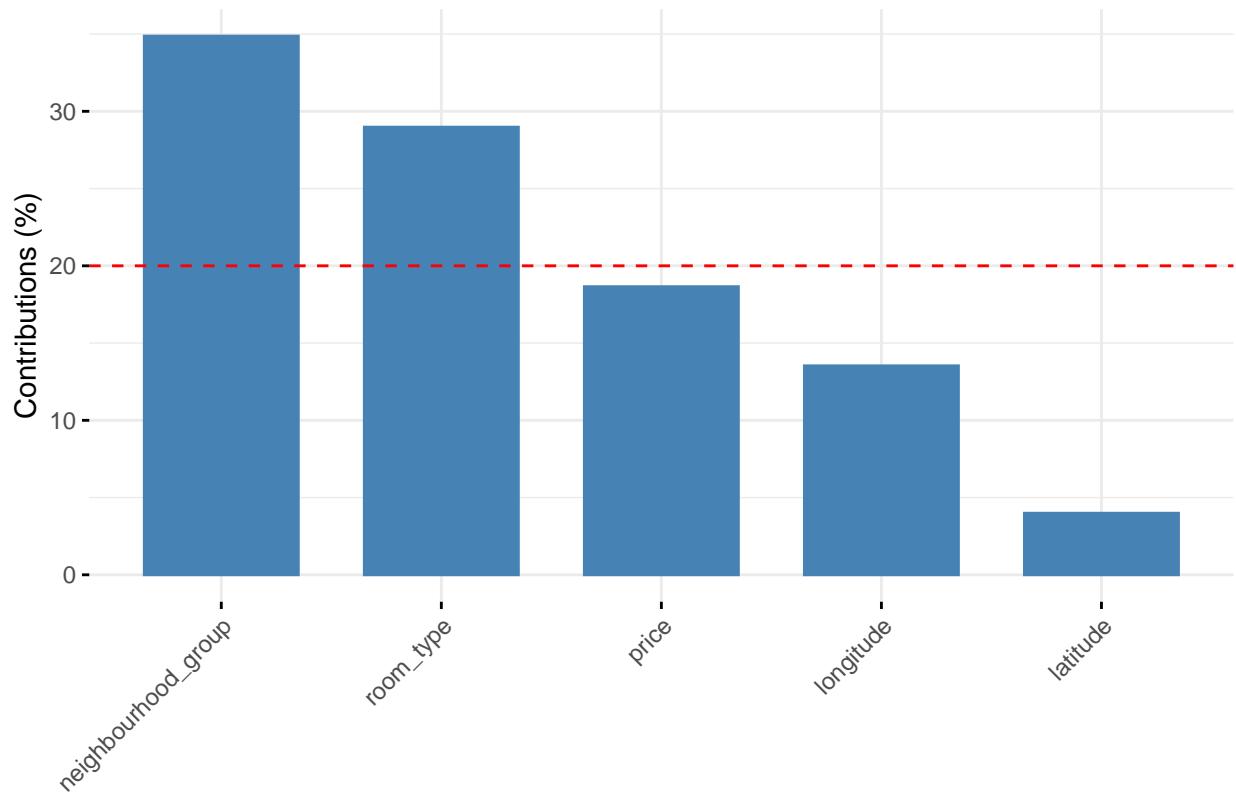
```
# Contribution to the second dimension  
fviz_contrib(res.famd, "var", axes = 2)
```

Contribution of variables to Dim-2



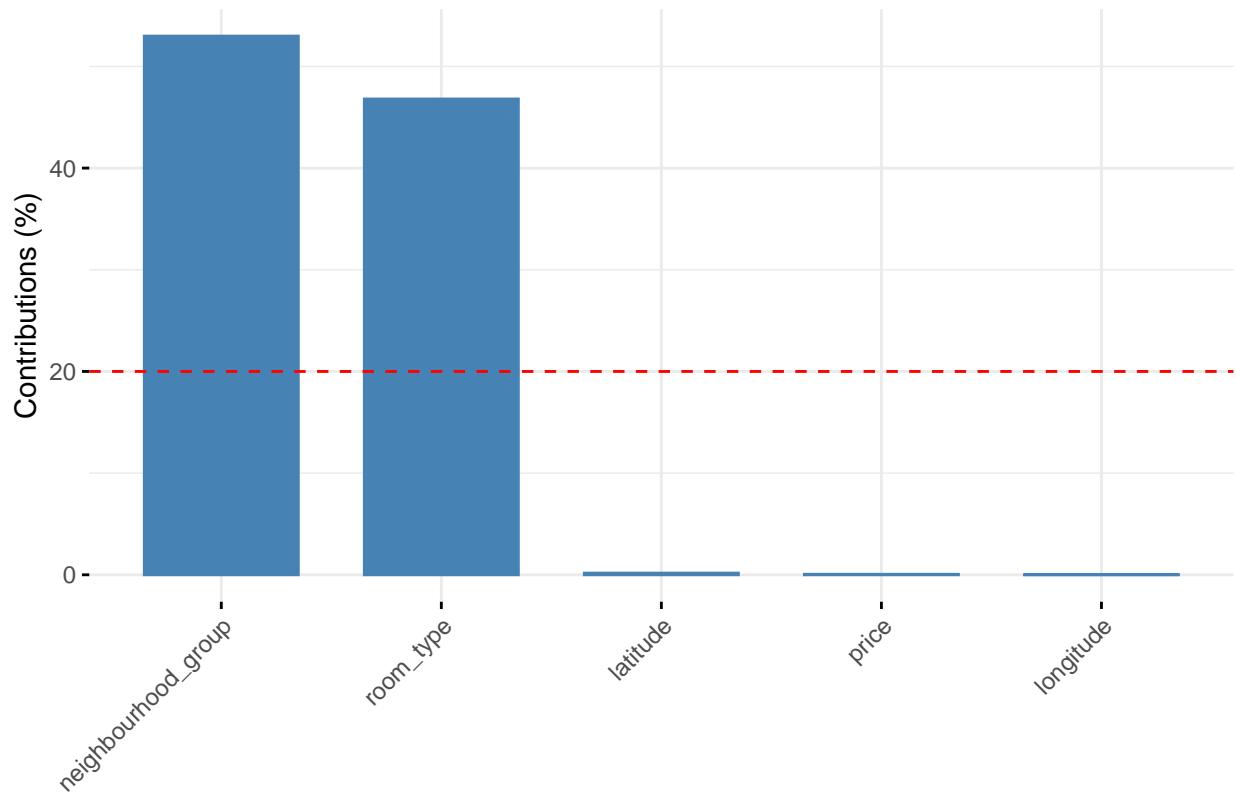
```
# Contribution to the third dimension  
fviz_contrib(res.famd, "var", axes = 3)
```

Contribution of variables to Dim-3



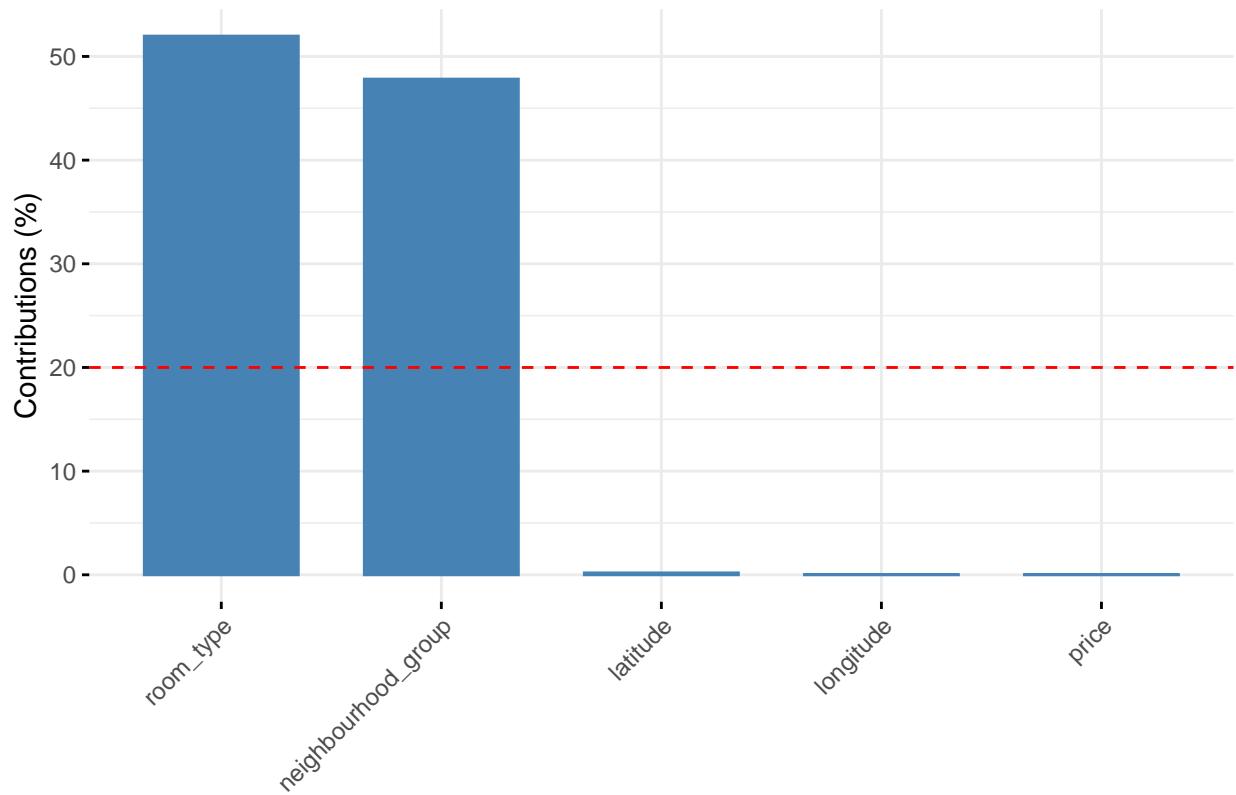
```
# Contribution to the forth dimension  
fviz_contrib(res.famd, "var", axes = 4)
```

Contribution of variables to Dim-4



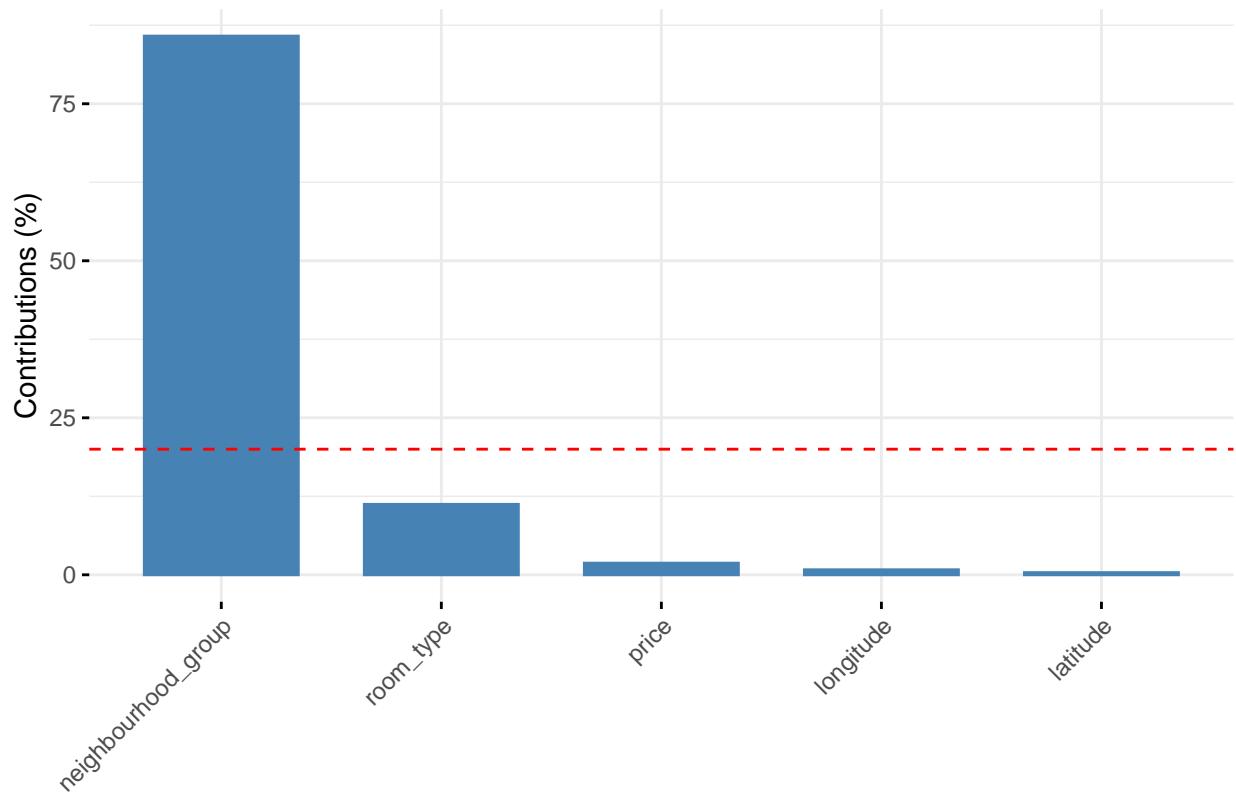
```
# Contribution to the fifth dimension  
fviz_contrib(res.famd, "var", axes = 5)
```

Contribution of variables to Dim-5



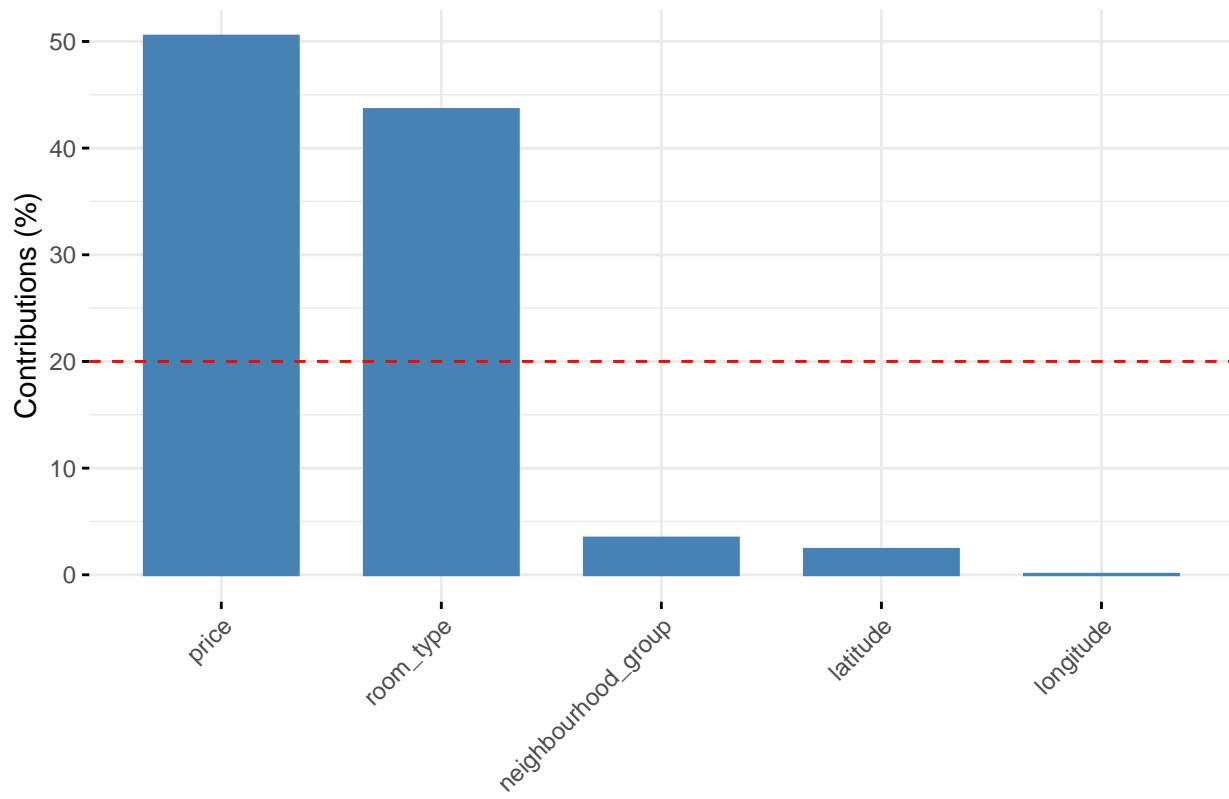
```
# Contribution to the sixth dimension  
fviz_contrib(res.famda, "var", axes = 6)
```

Contribution of variables to Dim–6



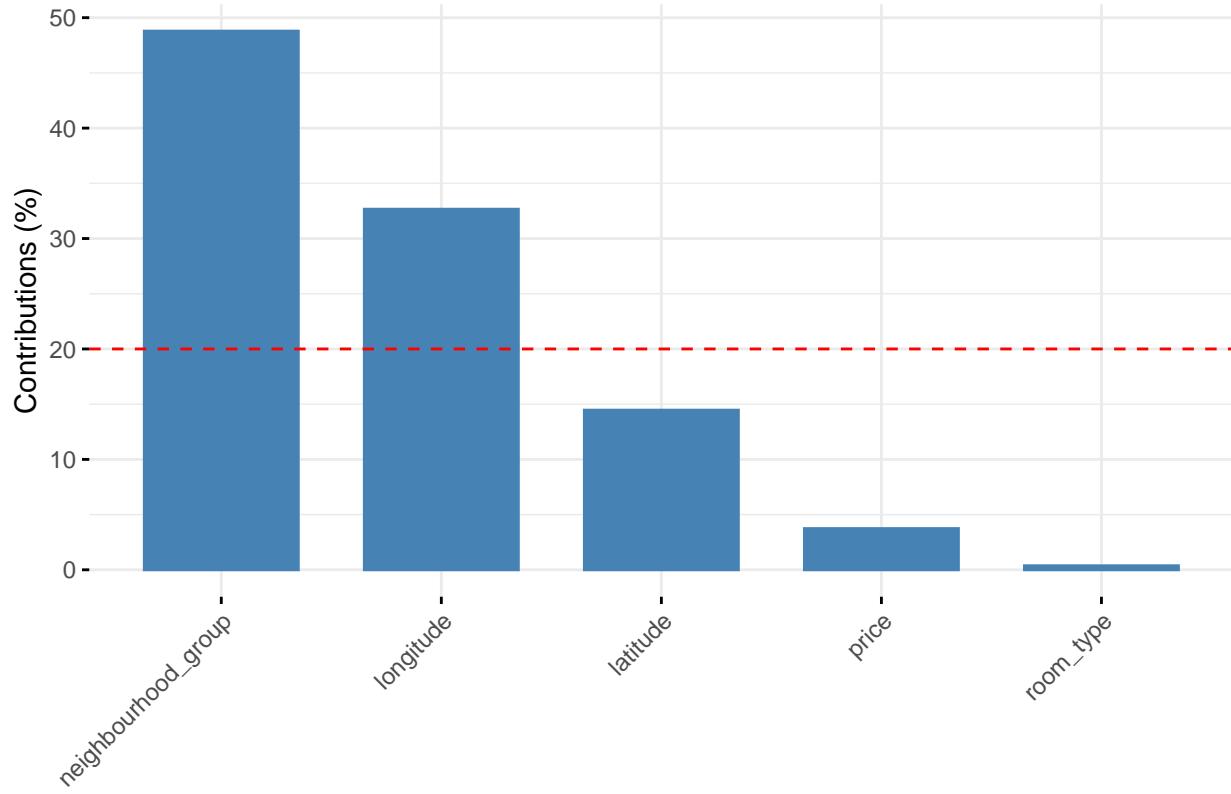
```
# Contribution to the seventh dimension  
fviz_contrib(res.famd, "var", axes = 7)
```

Contribution of variables to Dim-7



```
# Contribution to the eighth dimension  
fviz_contrib(res.famd, "var", axes = 8)
```

Contribution of variables to Dim–8



PCAmixdata

```
## Import library
library(PCAmixdata)

## Split mixed dataset into quantitative and qualitative variables
## For now excluding the target variable "Churn", which will be added later as a supplementary variable
#split <- splitmix(dataset[1:5])
split = splitmix(dataset)
## PCA
res.pcammix <- PCAmix(X.quant=split$X.quant,
                        X.qual=split$X.qual,
                        rename.level=TRUE,
                        graph=FALSE,
                        ndim=25)

res.pcammix

##
## Call:
## PCAmix(X.quant = split$X.quant, X.qual = split$X.qual, ndim = 25,      rename.level = TRUE, graph
## 
## Method = Principal Component of mixed data (PCAmix)
## 
```

```

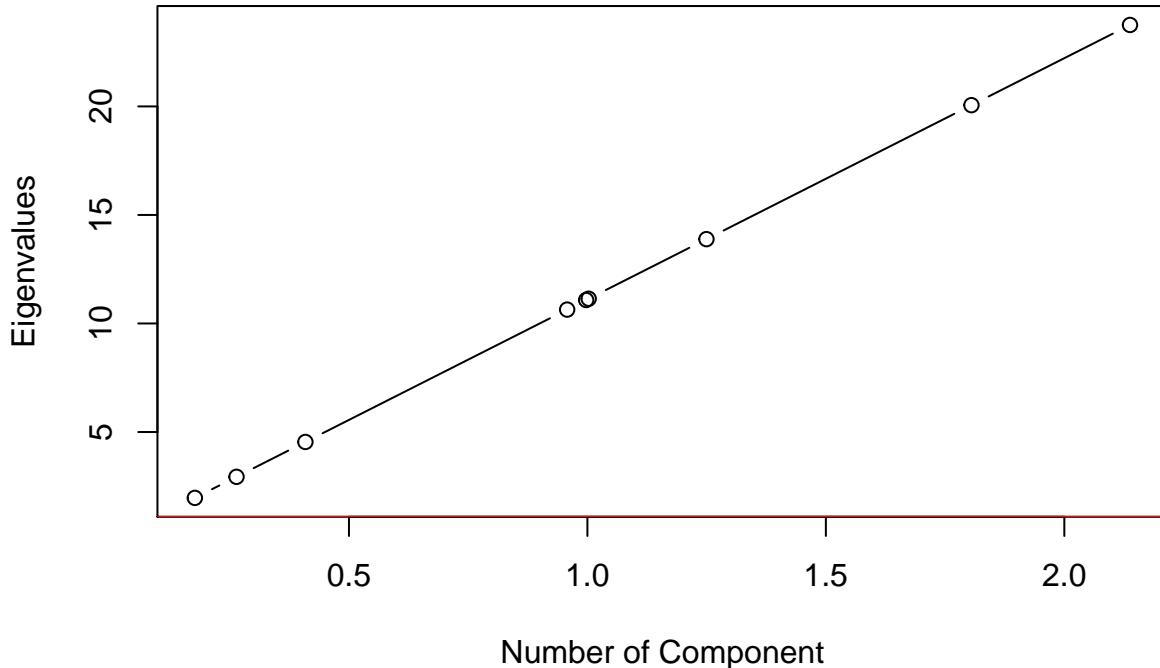
## "name" "description"
## "$eig" "eigenvalues of the principal components (PC) "
## "$ind" "results for the individuals (coord,contrib,cos2)"
## "$quanti" "results for the quantitative variables (coord,contrib,cos2)"
## "$levels" "results for the levels of the qualitative variables (coord,contrib,cos2)"
## "$quali" "results for the qualitative variables (contrib,relative contrib)"
## "$sqload" "squared loadings"
## "$coef" "coef of the linear combinations defining the PC"
## Inspect principal components
res.pcamix$eig

##          Eigenvalue Proportion Cumulative
## dim 1    2.1377482   23.752758   23.75276
## dim 2    1.8052180   20.057978   43.81074
## dim 3    1.2496047   13.884497   57.69523
## dim 4    1.0026518   11.140575   68.83581
## dim 5    0.9973710   11.081900   79.91771
## dim 6    0.9575350   10.639277   90.55699
## dim 7    0.4087032    4.541147   95.09813
## dim 8    0.2642566    2.936184   98.03432
## dim 9    0.1769115    1.965683   100.00000

# Use Scree Diagram to select the components:
plot(res.pcamix$eig, type="b", main="Scree Diagram", xlab="Number of Component", ylab="Eigenvalues")
abline(h=1, lwd=3, col="red")

```

Scree Diagram



Hierarchical Cluster Analysis

```
library(cluster)    # clustering algorithms
library(dendextend) # for comparing two dendograms

##
## -----
## Welcome to dendextend version 1.13.4
## Type citation('dendextend') for how to cite the package.
##
## Type browseVignettes(package = 'dendextend') for the package vignette.
## The github page is: https://github.com/talgalili/dendextend/
##
## Suggestions and bug-reports can be submitted at: https://github.com/talgalili/dendextend/issues
## Or contact: <tal.galili@gmail.com>
##
## To suppress this message use: suppressPackageStartupMessages(library(dendextend))
## -----
##
## Attaching package: 'dendextend'

## The following object is masked from 'package:ggnpubr':
##
##      rotate

## The following object is masked from 'package:stats':
##
##      cutree

#reduced <- dataset[ sample(1:nrow(dataset), nrow(dataset)/10) , ] #d <- dist(dataset, method = "euclidean")
```

Hierarchical clustering using Complete Linkage

```
hc1 <- hclust(gower_dist, method = "complete" )
```

Plot the obtained dendrogram

```
plot(hc1, cex = 0.6, hang = -1) plot(cut(hc1, h=75)$upper, main="Second branch of lower tree with cut at h=75")

# methods to assess
#m <- c( "average", "single", "complete", "ward")
#names(m) <- c( "average", "single", "complete", "ward")

# function to compute coefficient
#ac <- function(x) {
#  agnes(reduced, method = x)$ac
#}

#library(purrr)
#map_dbl(m, ac)
```

```
hc3 <- agnes(ds_neig_room, method = "ward") pltree(hc3, cex = 0.6, hang = -1, main = "Dendrogram of agnes")
```