

# Statistical Learning Project - Supervised Learning

```
#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)

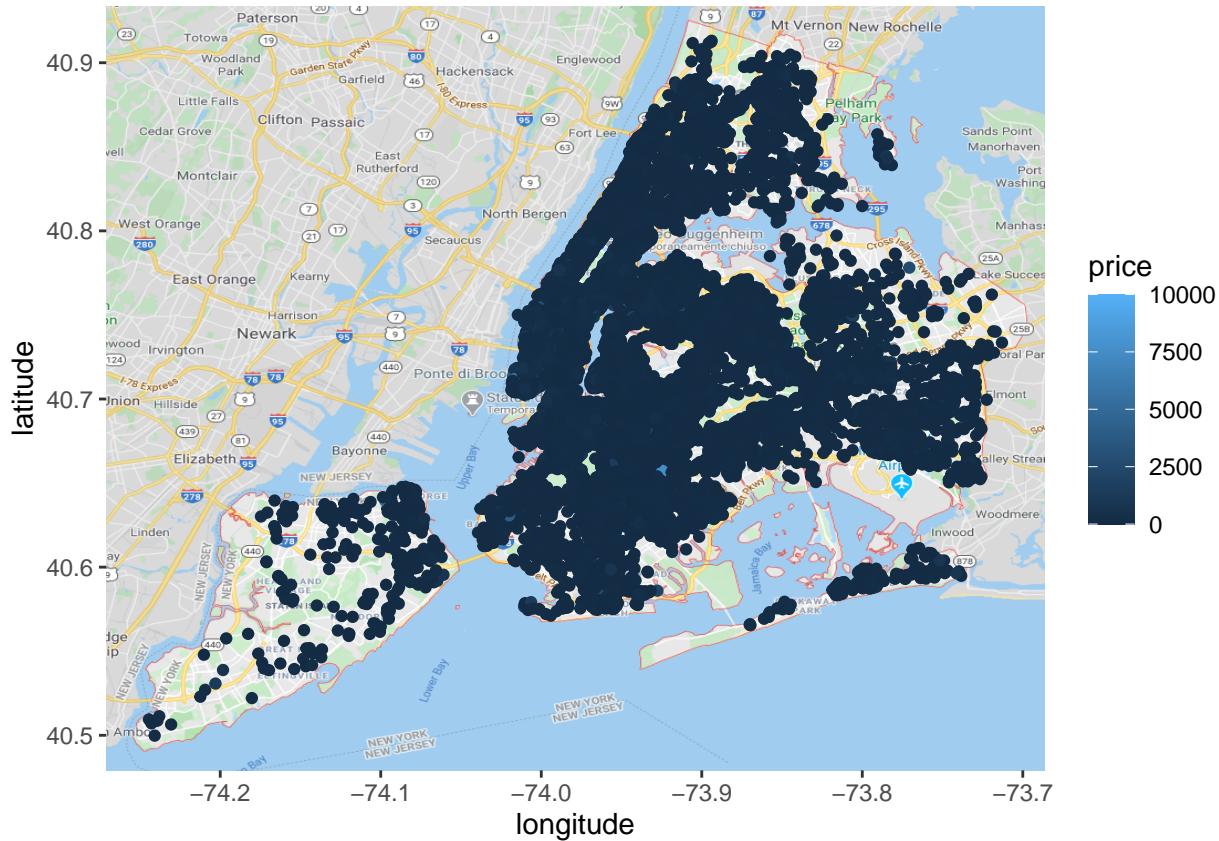
##      id                         name
## Min. : 2539  Hillside Hotel       : 18
## 1st Qu.: 9471945 Home away from home : 17
## Median :19677284                  : 16
## Mean   :19017143 New york Multi-unit building : 16
## 3rd Qu.:29152178 Brooklyn Apartment       : 12
## Max.  :36487245 Loft Suite @ 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 =
```



## 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 1.3.0 --
## v tibble  2.1.3     v stringr 1.4.0
## v readr   1.3.1     vforcats 0.5.0
## v purrr   0.3.3

## -- Conflicts ----- tidyverse_conflicts() --
## 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)

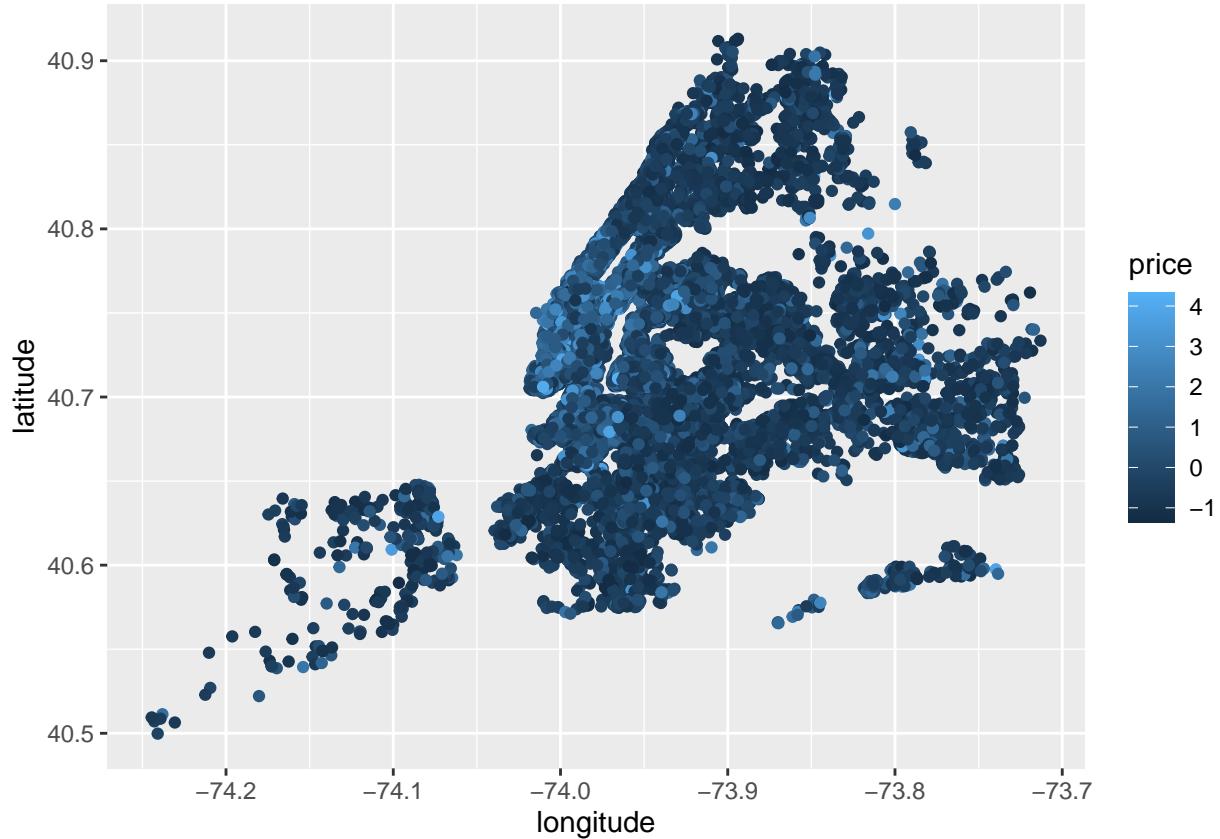
##   neighbourhood_group      latitude      longitude      room_type
## 1:19808                  Min.   :40.50   Min.   :-74.24   1:22136
## 2:20745                  1st Qu.:40.69   1st Qu.:-73.98   2:24346
## 3: 5625                  Median :40.72   Median :-73.96   3: 1142
## 4:  366                  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] 28574      5
head(train)

##   neighbourhood_group latitude longitude room_type      price
## 2                      2 40.75362 -73.98377      2  1.1152290
## 3                      2 40.80902 -73.94190      1  0.2334236
## 5                      2 40.79851 -73.94399      2 -0.5895947
## 7                      1 40.68688 -73.95596      1 -0.8247428
## 8                      2 40.76489 -73.98493      1 -0.6013521
## 10                     2 40.71344 -73.99037      2  0.2334236

print("Test shape")

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

## [1] 19050      5
head(test)

##   neighbourhood_group latitude longitude room_type      price
## 1                      1 40.64749 -73.97237      1  0.22166624
## 4                      1 40.68514 -73.95976      2 -0.48377807
## 6                      2 40.74767 -73.97500      2  0.82129391
## 9                      2 40.80178 -73.96723      1 -0.60135212
## 11                     2 40.80316 -73.96545      2  0.05706257
## 14                     2 40.79826 -73.96113      1 -0.53080769

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

```

## 2	40.80902	-73.94190	1	0.233423650
## 3	40.79851	-73.94399	2	-0.589594720
## 5	40.76489	-73.98493	1	-0.601352125
## 7	40.71344	-73.99037	2	0.233423650
## 8	40.80316	-73.96545	2	0.057062571
## 10	40.79826	-73.96113	1	-0.530807693
## 12	40.74192	-73.99501	1	0.115849597
## 13	40.79685	-73.94872	2	0.703719861
## 15	40.76715	-73.98533	2	0.233423650
## 17	40.72920	-73.98542	2	0.586145808
## 18	40.82245	-73.95104	1	-0.942316878
## 20	40.82130	-73.95318	1	-0.942316878
## 22	40.72290	-73.98199	1	-0.730683583
## 23	40.79009	-73.97927	1	0.057062571
## 25	40.78635	-73.97008	2	0.245181055
## 27	40.72004	-73.99104	1	-0.236872561
## 28	40.75531	-73.99293	1	-0.718926178
## 30	40.74623	-73.99530	2	2.878839838
## 32	40.75979	-73.99119	1	-0.918802068
## 33	40.72649	-73.97904	1	-0.589594720
## 35	40.80164	-73.93922	2	1.115229046
## 37	40.76342	-73.98865	1	-0.930559473
## 38	40.83139	-73.94095	1	-0.765955799
## 40	40.76865	-73.95058	1	0.821293914
## 42	40.82915	-73.95136	2	-0.236872561
## 43	40.71851	-73.98892	2	1.820673363
## 45	40.72334	-73.98440	1	-0.824742825
## 47	40.79764	-73.96177	2	0.115849597
## 48	40.82803	-73.94731	1	-0.483778072
## 50	40.82279	-73.95139	1	-0.824742825
## 52	40.80920	-73.94421	1	-0.354446614
## 53	40.75527	-73.99291	1	-0.836500231
## 55	40.72540	-73.98157	2	2.584904706
## 57	40.77823	-73.97637	2	1.232803099
## 58	40.72555	-73.97965	2	1.115229046
## 60	40.77842	-73.97556	2	0.468571756
## 62	40.77800	-73.94822	2	0.233423650
## 63	40.85879	-73.93128	1	-0.530807693
## 65	40.72392	-73.99143	2	0.644932835
## 67	40.76754	-73.98399	1	-0.001724456
## 68	40.73442	-74.00303	2	-0.178085535
## 70	40.73474	-74.00101	1	0.303968082
## 72	40.73226	-74.00401	2	1.115229046
## 73	40.77711	-73.95270	2	1.044684614
## 75	40.76123	-73.96420	2	1.409164178
## 77	40.72518	-73.98034	1	-0.060511482
## 78	40.70666	-74.01374	2	0.774264293
## 80	40.81526	-73.94791	2	0.409784729
## 82	40.82374	-73.93730	2	-0.354446614
## 83	40.80549	-73.95924	1	-0.366204019
## 85	40.74031	-73.99999	2	-0.060511482
## 87	40.71882	-73.98852	2	1.985277037
## 88	40.77333	-73.95199	1	-0.001724456
## 90	40.74859	-73.99671	1	-0.084026293

## 92	40.76548	-73.98474	3	-0.295659588
## 93	40.80234	-73.95603	1	0.821293914
## 95	40.79958	-73.94275	1	-0.354446614
## 97	40.72861	-74.00490	2	0.809536509
## 98	40.72752	-73.98432	2	-0.001724456
## 100	40.72821	-73.98701	2	0.691962456
## 102	40.73012	-73.99053	2	1.279832720
## 103	40.74030	-73.98498	2	2.055821469
## 105	40.82510	-73.94287	1	-0.824742825
## 107	40.72052	-73.98589	2	0.233423650
## 108	40.71756	-73.99503	2	1.409164178
## 110	40.73194	-73.99474	2	1.115229046
## 112	40.81180	-73.94434	1	-0.448505856
## 113	40.81583	-73.94707	1	0.527358782
## 115	40.80021	-73.96071	2	0.762506888
## 117	40.71961	-73.99540	2	0.057062571
## 118	40.80335	-73.95750	1	-0.589594720
## 120	40.75749	-73.96897	2	-0.236872561
## 122	40.72477	-73.98161	2	0.527358782
## 123	40.74238	-73.99567	2	0.880080940
## 125	40.86648	-73.92630	1	-0.648381746
## 127	40.71702	-73.99811	2	-0.472020667
## 128	40.72321	-73.98157	1	-0.730683583
## 130	40.72956	-73.98158	2	-0.013481861
## 132	40.72681	-73.98534	2	0.962382777
## 133	40.71904	-73.99392	1	-0.413233640
## 135	40.79603	-73.94903	2	-0.072268887
## 137	40.80082	-73.96520	1	-0.248629967
## 138	40.82976	-73.94867	1	-0.530807693
## 140	40.78000	-73.98249	2	0.233423650
## 142	40.73198	-73.98881	1	-0.765955799
## 143	40.83494	-73.93869	2	1.409164178
## 145	40.72966	-74.00243	2	0.821293914
## 147	40.80892	-73.93985	2	-0.201600345
## 148	40.80276	-73.95670	2	1.409164178
## 150	40.76248	-73.99130	1	0.233423650
## 152	40.72399	-73.98374	2	0.456814350
## 153	40.72451	-73.98094	2	1.115229046
## 155	40.71271	-73.99776	1	-0.413233640
## 157	40.73877	-73.97707	2	-0.060511482
## 158	40.74893	-73.99544	2	-0.001724456
## 160	40.85295	-73.93361	1	-0.742440988
## 162	40.72577	-73.98745	2	1.397406773
## 163	40.82773	-73.95231	1	-0.824742825
## 165	40.74503	-73.98876	2	0.456814350
## 167	40.78491	-73.95080	2	1.115229046
## 168	40.75835	-73.99193	1	-0.530807693
## 170	40.75579	-73.96699	2	0.174636624
## 172	40.81822	-73.94095	2	-0.366204019
## 173	40.74412	-74.00208	1	1.879460389
## 175	40.80481	-73.94794	2	-0.236872561
## 177	40.72939	-73.98857	2	0.691962456
## 178	40.79918	-73.96607	1	-0.530807693
## 180	40.73215	-74.00922	2	0.468571756

## 182	40.74488	-74.00100	2	0.021790355
## 183	40.72274	-73.97581	2	0.644932835
## 185	40.72094	-73.99706	2	0.527358782
## 187	40.80473	-73.95320	2	1.514980826
## 188	40.72217	-73.98419	1	-0.401476235
## 190	40.79264	-73.97294	2	-0.413233640
## 192	40.72831	-74.00177	2	0.527358782
## 193	40.79765	-73.96245	2	0.409784729
## 195	40.72008	-73.98404	2	1.409164178
## 197	40.81156	-73.94571	1	-0.883529852
## 198	40.80497	-73.95016	2	1.997034442
## 200	40.82426	-73.94630	1	-0.648381746
## 202	40.77724	-73.98109	2	0.821293914
## 203	40.72972	-73.97995	2	0.821293914
## 205	40.80523	-73.95139	2	0.797779103
## 207	40.72351	-73.99683	1	0.115849597
## 208	40.80525	-73.95916	1	-0.648381746
## 210	40.84468	-73.94303	1	-0.648381746
## 212	40.77886	-73.98042	2	0.644932835
## 213	40.72578	-73.97879	2	0.703719861
## 215	40.78569	-73.97581	2	0.527358782
## 217	40.79320	-73.94007	2	-0.601352125
## 218	40.80224	-73.94558	1	0.468571756
## 220	40.80518	-73.95359	1	-0.483778072
## 222	40.73476	-73.98452	2	3.172774970
## 223	40.72974	-73.98201	1	-0.354446614
## 225	40.74112	-73.97686	2	0.691962456
## 227	40.72133	-73.99666	2	1.997034442
## 228	40.82960	-73.94651	2	0.809536509
## 230	40.73631	-73.99977	2	0.809536509
## 232	40.73862	-73.99758	2	1.409164178
## 233	40.73217	-73.98801	2	0.409784729
## 235	40.74695	-74.00454	1	1.467951205
## 237	40.72566	-73.97748	1	-0.236872561
## 238	40.77090	-73.99181	1	0.233423650
## 240	40.79690	-73.96128	1	-0.483778072
## 242	40.76415	-73.99067	2	0.221666245
## 243	40.83127	-73.94718	1	-0.730683583
## 245	40.76739	-73.95570	3	-0.472020667
## 247	40.76940	-73.95720	2	0.703719861
## 248	40.71300	-73.99752	1	-0.413233640
## 250	40.72956	-73.97903	2	1.409164178
## 252	40.75877	-73.98863	2	1.174016072
## 253	40.71712	-73.98898	1	0.821293914
## 255	40.80780	-73.95208	1	-0.589594720
## 257	40.71892	-73.98401	2	0.809536509
## 258	40.81600	-73.95545	1	-0.354446614
## 260	40.72229	-73.97901	2	0.186394029
## 262	40.71193	-74.00817	1	0.233423650
## 263	40.74233	-73.99865	2	0.809536509
## 265	40.80307	-73.95048	1	1.997034442
## 267	40.72416	-73.98530	2	1.855945579
## 268	40.73507	-74.00048	2	1.115229046
## 270	40.76189	-73.99000	1	-0.001724456

## 272	40.79239	-73.94535	2	0.057062571
## 273	40.72709	-73.98274	1	-0.472020667
## 275	40.79442	-73.93433	2	0.174636624
## 277	40.75575	-73.96842	1	-0.236872561
## 278	40.80903	-73.94197	2	2.290969574
## 280	40.75348	-73.97065	2	0.703719861
## 282	40.72264	-73.98370	2	0.350997703
## 283	40.73833	-73.98186	2	0.762506888
## 285	40.71892	-73.99628	2	1.997034442
## 287	40.73685	-73.98359	2	3.161017565
## 288	40.72969	-74.00635	2	0.821293914
## 290	40.75127	-73.99637	2	1.126986451
## 292	40.71876	-73.98851	2	0.280453271
## 293	40.73291	-74.00059	2	1.362134557
## 295	40.71582	-73.99902	2	-0.131055914
## 297	40.81122	-73.94279	2	3.172774970
## 298	40.78558	-73.97260	1	0.115849597
## 300	40.79493	-73.94462	2	0.821293914
## 302	40.81512	-73.94692	1	-0.577837314
## 303	40.72004	-73.99424	2	4.289728472
## 305	40.74618	-74.00392	2	0.762506888
## 307	40.76928	-73.95021	2	0.691962456
## 308	40.72953	-74.00462	2	0.174636624
## 310	40.74025	-74.00161	1	-0.413233640
## 312	40.72087	-73.99022	2	0.268695866
## 313	40.71930	-73.98966	1	-0.589594720
## 315	40.72534	-73.98591	1	-0.495535477
## 317	40.79433	-73.97650	2	1.115229046
## 318	40.81055	-73.95549	1	-0.530807693
## 320	40.76128	-73.96463	2	4.172154419
## 322	40.78448	-73.97289	2	-0.248629967
## 323	40.78304	-73.97447	2	0.433299540
## 325	40.71992	-73.98773	2	0.762506888
## 327	40.70741	-74.00102	1	-0.765955799
## 328	40.79111	-73.94466	1	-0.366204019
## 330	40.75114	-74.00195	2	2.584904706
## 332	40.75282	-73.97315	2	-0.060511482
## 333	40.76373	-73.96897	2	1.997034442
## 335	40.85774	-73.92901	2	-0.871772446
## 337	40.79793	-73.93612	1	0.821293914
## 338	40.80285	-73.95166	1	-0.366204019
## 340	40.81371	-73.95585	1	-0.530807693
## 342	40.79280	-73.93967	1	-0.942316878
## 343	40.73729	-74.00807	2	1.409164178
## 345	40.73879	-74.00425	2	0.821293914
## 347	40.71601	-73.99123	2	-0.472020667
## 348	40.72410	-73.97899	2	0.586145808
## 350	40.73362	-74.00923	2	1.291590125
## 352	40.74494	-73.99980	2	2.996413891
## 353	40.80748	-73.95589	1	-0.648381746
## 355	40.72948	-73.98694	2	0.574388403
## 357	40.72891	-74.00293	2	3.760645234
## 358	40.72530	-73.99916	2	1.397406773
## 360	40.77338	-73.98887	2	0.927110562

## 362	40.76250	-73.98690	2	0.809536509
## 363	40.80497	-73.95146	2	-0.236872561
## 365	40.79090	-73.96762	2	1.997034442
## 367	40.72509	-74.00304	2	1.409164178
## 368	40.80637	-73.95433	1	0.115849597
## 370	40.79596	-73.94463	2	-0.472020667
## 372	40.77508	-73.97990	2	0.233423650
## 373	40.79044	-73.97513	1	-0.366204019
## 375	40.82451	-73.94457	1	-0.648381746
## 377	40.79107	-73.94381	1	-0.519050288
## 378	40.72209	-73.99274	2	-0.366204019
## 380	40.73237	-74.00608	2	0.809536509
## 382	40.80760	-73.94433	2	0.057062571
## 383	40.73294	-73.98282	2	1.350377152
## 385	40.73887	-74.00342	1	-0.119298508
## 387	40.77688	-73.96177	1	-0.248629967
## 388	40.77610	-73.95265	2	1.044684614
## 390	40.72500	-73.98851	2	0.233423650
## 392	40.75023	-73.98293	2	1.985277037
## 393	40.78867	-73.96809	2	0.574388403
## 395	40.86658	-73.92558	1	-0.507292883
## 397	40.82772	-73.93877	1	-0.589594720
## 398	40.80300	-73.95278	1	-0.060511482
## 400	40.75763	-73.99482	1	-0.413233640
## 402	40.77631	-73.95289	2	-0.107541103
## 403	40.76774	-73.98920	2	2.584904706
## 405	40.75782	-73.99349	1	-0.413233640
## 407	40.73104	-74.00879	1	0.762506888
## 408	40.74253	-73.99160	1	0.350997703
## 410	40.71868	-73.99017	2	0.115849597
## 412	40.74964	-73.99158	2	1.585525257
## 413	40.78164	-73.94717	1	-0.824742825
## 415	40.72986	-73.97913	2	0.809536509
## 417	40.74553	-73.98943	1	0.057062571
## 418	40.77584	-73.95020	3	-0.178085535
## 420	40.78161	-73.97898	2	0.174636624
## 422	40.80491	-73.94866	1	0.350997703
## 423	40.80334	-73.94805	1	0.586145808
## 425	40.76850	-73.96034	1	-0.295659588
## 427	40.74238	-73.98122	1	-0.660139151
## 428	40.80151	-73.95220	2	0.409784729
## 430	40.73677	-73.98084	2	-0.060511482
## 432	40.70621	-74.01525	2	1.115229046
## 433	40.72172	-73.99689	1	-0.354446614
## 435	40.83091	-73.94223	2	0.057062571
## 437	40.72634	-73.98267	2	1.115229046
## 438	40.82703	-73.94311	1	-0.530807693
## 440	40.72123	-73.98996	1	-0.472020667
## 442	40.80192	-73.95827	1	-0.060511482
## 443	40.79314	-73.94853	1	-0.060511482
## 445	40.72812	-73.97966	2	0.198151434
## 447	40.72340	-73.99439	2	1.632554878
## 448	40.73448	-73.99797	2	0.174636624
## 450	40.72278	-73.99670	2	1.115229046

## 452	40.70537	-74.00992	2	0.350997703
## 453	40.73111	-73.98528	2	0.527358782
## 455	40.71804	-73.98565	2	0.821293914
## 457	40.75590	-73.99469	2	2.290969574
## 458	40.76291	-73.99202	1	-0.366204019
## 460	40.73041	-74.00498	2	-0.013481861
## 462	40.79234	-73.96482	2	1.409164178
## 463	40.83451	-73.93885	2	1.703099310
## 465	40.77548	-73.95183	1	0.174636624
## 467	40.70917	-74.01460	2	0.915353156
## 468	40.72507	-73.98861	1	-0.236872561
## 470	40.82669	-73.94281	1	-0.883529852
## 472	40.74572	-73.99965	2	-0.060511482
## 473	40.78911	-73.97396	2	3.113987944
## 475	40.73903	-73.97975	1	-0.354446614
## 477	40.77555	-73.97670	2	1.409164178
## 478	40.71986	-73.98690	2	1.115229046
## 480	40.86717	-73.91940	2	-0.366204019
## 482	40.86929	-73.92421	2	-0.942316878
## 483	40.80533	-73.95204	1	-0.765955799
## 485	40.73357	-74.00723	2	0.515601377
## 487	40.81713	-73.94217	1	-0.648381746
## 488	40.72917	-73.98811	2	0.938867967
## 490	40.74134	-73.98113	2	-0.013481861
## 492	40.71746	-73.98782	1	-0.483778072
## 493	40.72106	-73.98384	2	2.126365900
## 495	40.72147	-73.99208	2	0.938867967
## 497	40.80661	-73.95760	1	-0.483778072
## 498	40.77137	-73.98943	2	0.586145808
## 500	40.72893	-73.98278	2	-0.483778072
## 502	40.72955	-73.98298	2	-0.366204019
## 503	40.72693	-73.98521	2	0.292210676
## 505	40.71137	-73.99403	1	-0.589594720
## 507	40.74087	-74.00226	2	2.937626865
## 508	40.77099	-73.98980	1	-0.366204019
## 510	40.75636	-73.99390	2	-0.589594720
## 512	40.72457	-73.98453	2	0.644932835
## 513	40.79313	-73.93493	1	-0.589594720
## 515	40.79183	-73.97172	2	0.809536509
## 517	40.71668	-73.99073	2	0.233423650
## 518	40.72162	-74.00414	2	4.336758093
## 520	40.78451	-73.97882	2	1.997034442
## 522	40.79520	-73.96240	1	-0.366204019
## 523	40.73942	-74.00009	3	-0.942316878
## 525	40.73214	-74.00188	2	-0.001724456
## 527	40.79842	-73.96903	2	0.233423650
## 528	40.72232	-73.98686	2	-0.307416993
## 530	40.77799	-73.95223	1	-0.589594720
## 532	40.72756	-73.97939	2	0.233423650
## 533	40.79218	-73.97926	2	0.644932835
## 535	40.73044	-73.98683	2	0.350997703
## 537	40.75086	-73.99776	2	-0.001724456
## 538	40.77108	-73.95967	1	-0.566079909
## 540	40.82749	-73.93820	1	-0.178085535

## 542	40.72915	-73.98019	2	-0.142813319
## 543	40.74767	-74.01061	2	0.057062571
## 545	40.80762	-73.94017	1	-0.942316878
## 547	40.74129	-73.98374	2	1.585525257
## 548	40.77761	-73.94606	1	-0.472020667
## 550	40.78339	-73.98003	2	1.409164178
## 552	40.78111	-73.97739	1	-0.436748451
## 553	40.73110	-73.99913	2	0.409784729
## 555	40.72184	-73.99440	2	1.997034442
## 557	40.74403	-73.99581	2	1.115229046
## 558	40.74552	-74.00060	2	1.174016072
## 560	40.72924	-73.98113	2	0.762506888
## 562	40.76184	-73.99334	2	1.021169804
## 563	40.82445	-73.95243	2	0.644932835
## 565	40.72855	-73.98265	2	-0.495535477
## 567	40.72987	-74.00082	1	-0.601352125
## 568	40.77424	-73.94839	2	-0.236872561
## 570	40.78024	-73.94813	2	0.350997703
## 572	40.74664	-73.99441	2	3.161017565
## 573	40.71788	-73.98975	2	1.997034442
## 575	40.86821	-73.92252	2	-0.119298508
## 577	40.72274	-73.97934	2	1.938247416
## 578	40.73514	-73.99954	2	0.786021698
## 580	40.80053	-73.96651	2	-0.472020667
## 582	40.75767	-73.99034	2	0.703719861
## 583	40.80165	-73.96287	3	-0.636624341
## 585	40.72603	-73.98751	2	0.245181055
## 587	40.78292	-73.97438	2	-0.119298508
## 588	40.76410	-73.98803	2	0.409784729
## 590	40.73047	-73.98229	2	-0.354446614
## 592	40.78837	-73.94628	1	-0.648381746
## 593	40.72304	-73.97923	2	-0.119298508
## 595	40.72692	-73.99948	2	0.997654993
## 597	40.72372	-74.00277	2	0.809536509
## 598	40.80797	-73.94890	1	-0.648381746
## 600	40.71552	-74.00749	1	1.162258667
## 602	40.75128	-73.97658	2	0.409784729
## 603	40.86345	-73.92039	1	-0.883529852
## 605	40.73413	-74.00465	2	1.997034442
## 607	40.73474	-73.99527	2	2.361514006
## 608	40.83470	-73.94857	1	-0.824742825
## 610	40.76985	-73.95815	2	0.821293914
## 612	40.79183	-73.94743	2	-0.119298508
## 613	40.77471	-73.98261	1	-0.119298508
## 615	40.79196	-73.97065	1	-0.060511482
## 617	40.71655	-74.01171	2	-0.001724456
## 618	40.76876	-73.99473	1	-0.472020667
## 620	40.74285	-73.97986	2	-0.942316878
## 622	40.73240	-73.98577	2	0.409784729
## 623	40.80338	-73.95594	2	-0.295659588
## 625	40.73326	-73.98245	2	-0.366204019
## 627	40.77975	-73.94977	1	-0.589594720
## 628	40.72625	-74.00180	3	0.762506888
## 630	40.73485	-74.00637	2	0.409784729

## 632	40.79913	-73.96057	1	-0.824742825
## 633	40.72389	-73.98934	2	0.821293914
## 635	40.76206	-73.99980	2	1.562010447
## 637	40.87114	-73.91791	1	-0.824742825
## 638	40.82312	-73.94971	2	3.560769345
## 640	40.76376	-73.99161	1	0.115849597
## 642	40.72294	-73.99388	2	1.409164178
## 643	40.82732	-73.95112	1	0.174636624
## 645	40.73045	-73.98541	2	0.233423650
## 647	40.75164	-73.99425	2	0.057062571
## 648	40.73337	-73.98400	1	-0.248629967
## 650	40.74190	-73.98160	2	-0.354446614
## 652	40.74189	-73.97833	2	-0.507292883
## 653	40.76934	-73.98464	2	-0.413233640
## 655	40.72171	-73.98334	2	-0.366204019
## 657	40.71695	-73.99031	2	0.221666245
## 658	40.75663	-73.96681	2	1.820673363
## 660	40.77790	-73.95246	1	-0.601352125
## 662	40.73354	-73.98593	2	-0.036996671
## 663	40.80140	-73.94361	1	-0.236872561
## 665	40.78754	-73.96989	1	-0.201600345
## 667	40.74027	-73.98061	2	1.938247416
## 668	40.75890	-73.99015	2	1.056442020
## 670	40.74272	-74.00309	2	0.821293914
## 672	40.79591	-73.94801	1	-0.260387372
## 673	40.77382	-73.95088	2	0.127607002
## 675	40.74166	-73.97811	1	-0.765955799
## 677	40.80829	-73.94260	2	-0.060511482
## 678	40.80114	-73.96378	1	-0.413233640
## 680	40.75286	-74.00162	2	0.809536509
## 682	40.80314	-73.95768	1	-0.883529852
## 683	40.74888	-73.97828	2	-0.013481861
## 685	40.78002	-73.95211	1	1.409164178
## 687	40.72912	-73.98355	2	-0.413233640
## 688	40.77563	-73.98065	2	0.409784729
## 690	40.72482	-73.98097	2	-0.671896557
## 692	40.76422	-73.99382	1	-0.648381746
## 693	40.76221	-73.97787	1	-0.119298508
## 695	40.72177	-73.99610	1	-0.413233640
## 697	40.73105	-74.00285	2	1.409164178
## 698	40.72756	-74.00239	2	1.174016072
## 700	40.72558	-73.97929	2	3.161017565
## 702	40.79854	-73.96089	1	-0.354446614
## 703	40.71819	-73.99136	2	0.527358782
## 705	40.73016	-73.98643	2	1.291590125
## 707	40.82655	-73.93943	1	-0.601352125
## 708	40.80155	-73.96569	1	-0.119298508
## 710	40.72576	-73.98582	2	0.162879218
## 712	40.79241	-73.97111	2	0.762506888
## 713	40.77042	-73.96145	2	0.821293914
## 715	40.80351	-73.95648	1	-0.413233640
## 717	40.81073	-73.94370	1	-0.707168773
## 718	40.80517	-73.95404	1	-0.589594720
## 720	40.73616	-74.00400	2	0.821293914

## 722	40.74092	-74.00037	2	0.115849597
## 723	40.81908	-73.94776	1	-0.765955799
## 725	40.78361	-73.97645	2	0.292210676
## 727	40.72369	-73.98940	2	-0.119298508
## 728	40.72320	-73.97927	1	-0.648381746
## 730	40.78747	-73.97238	2	0.644932835
## 732	40.71778	-74.00452	2	0.938867967
## 733	40.72960	-73.98479	2	0.033547760
## 735	40.71729	-74.00424	2	1.514980826
## 737	40.72290	-73.99574	2	0.809536509
## 738	40.80529	-73.96467	2	-0.060511482
## 740	40.80145	-73.95572	2	0.233423650
## 742	40.71955	-73.99706	2	0.809536509
## 743	40.81161	-73.94046	1	-0.589594720
## 745	40.73158	-73.98303	1	-0.119298508
## 747	40.77938	-73.98247	1	-0.366204019
## 748	40.72863	-74.00137	2	0.821293914
## 750	40.73233	-73.98695	1	-0.413233640
## 752	40.72714	-73.99581	2	0.668447645
## 753	40.75982	-73.96521	2	-0.060511482
## 755	40.77638	-73.95247	2	0.292210676
## 757	40.75900	-73.99530	2	-0.413233640
## 758	40.75039	-74.00287	2	-0.295659588
## 760	40.72439	-73.97767	1	-0.354446614
## 762	40.77734	-73.98770	2	-0.354446614
## 763	40.76078	-73.99076	2	0.409784729
## 765	40.77032	-73.95331	1	-0.530807693
## 767	40.72578	-73.98448	1	-0.836500231
## 768	40.81381	-73.94314	2	1.761886337
## 770	40.73652	-74.00876	2	0.115849597
## 772	40.71247	-73.99873	2	1.115229046
## 773	40.73364	-74.00539	2	0.691962456
## 775	40.71502	-73.98192	1	-0.718926178
## 777	40.71818	-73.98206	2	1.056442020
## 778	40.84448	-73.93978	1	-0.530807693
## 780	40.82294	-73.94999	2	1.115229046
## 782	40.73403	-74.00298	2	0.938867967
## 783	40.72232	-73.99343	1	-0.413233640
## 785	40.79863	-73.95292	1	-0.413233640
## 787	40.85082	-73.93780	1	-0.589594720
## 788	40.72877	-73.98794	2	1.409164178
## 790	40.71703	-73.98612	2	0.339240298
## 792	40.77445	-73.98496	2	0.938867967
## 793	40.73545	-73.99310	2	1.056442020
## 795	40.86780	-73.92619	1	-0.765955799
## 797	40.72381	-73.97896	1	-0.648381746
## 798	40.76660	-73.95903	2	-0.295659588
## 800	40.73493	-73.98655	2	-0.001724456
## 802	40.82536	-73.94923	2	-0.178085535
## 803	40.74490	-73.97656	2	-0.166328130
## 805	40.71956	-73.98574	2	0.327482892
## 807	40.78592	-73.97775	2	0.503843971
## 808	40.72591	-73.99452	2	3.937006314
## 810	40.83329	-73.93834	1	-1.106920552

## 812	40.83378	-73.94966	1	-0.530807693
## 813	40.76704	-73.98345	2	0.104092192
## 815	40.74117	-73.99517	2	2.573147301
## 817	40.73713	-74.00232	2	1.291590125
## 818	40.74082	-73.99581	2	-0.366204019
## 820	40.77171	-73.95042	1	-0.577837314
## 822	40.73227	-74.00949	2	2.467330653
## 823	40.80139	-73.95433	2	0.057062571
## 825	40.72825	-74.00225	2	1.879460389
## 827	40.74450	-73.97583	2	0.209908839
## 828	40.76883	-73.95353	2	0.233423650
## 830	40.82238	-73.95534	1	-0.824742825
## 832	40.82173	-73.95548	1	-0.824742825
## 833	40.82233	-73.95568	1	-0.824742825
## 835	40.75284	-74.00138	1	0.574388403
## 837	40.80997	-73.93992	1	-0.765955799
## 838	40.72125	-73.99272	1	-0.718926178
## 840	40.73336	-73.99836	1	-0.119298508
## 842	40.73588	-73.99224	1	-0.765955799
## 843	40.73490	-73.98549	2	-0.001724456
## 845	40.72632	-73.97907	1	-0.601352125
## 847	40.77613	-73.94872	2	1.409164178
## 848	40.77837	-73.97964	2	0.527358782
## 850	40.71921	-73.99116	1	-0.366204019
## 852	40.77389	-73.95100	2	1.761886337
## 853	40.71969	-74.00876	2	1.232803099
## 855	40.76188	-73.97193	2	1.632554878
## 857	40.73126	-74.00502	2	3.172774970
## 858	40.73075	-73.99265	2	2.573147301
## 860	40.74712	-73.99514	1	-0.248629967
## 862	40.71593	-73.99031	2	0.233423650
## 863	40.77886	-73.98444	2	0.233423650
## 865	40.84714	-73.94172	2	-0.589594720
## 867	40.73574	-74.00056	2	1.409164178
## 868	40.71312	-73.99033	2	1.526738231
## 870	40.71275	-73.98682	1	-0.413233640
## 872	40.78429	-73.97815	1	0.010032950
## 873	40.73031	-73.98426	2	0.703719861
## 875	40.80712	-73.95316	1	-0.765955799
## 877	40.73118	-74.00290	2	1.232803099
## 878	40.77815	-73.95902	2	0.762506888
## 880	40.84764	-73.93875	3	-0.354446614
## 882	40.85016	-73.93178	2	-0.366204019
## 883	40.72977	-74.00164	2	0.762506888
## 885	40.80925	-73.95541	1	-0.801228015
## 887	40.72034	-73.98585	1	-0.472020667
## 888	40.79279	-73.97131	1	-0.495535477
## 890	40.76616	-73.98411	2	0.539116187
## 892	40.73818	-73.99770	2	0.821293914
## 893	40.79541	-73.94465	1	-0.354446614
## 895	40.85081	-73.93118	1	0.233423650
## 897	40.82719	-73.94484	1	-0.472020667
## 898	40.82316	-73.94129	1	-0.765955799
## 900	40.80320	-73.94004	1	-0.354446614

## 902	40.73746	-74.00686	2	-0.201600345
## 903	40.81368	-73.95942	2	-0.260387372
## 905	40.76113	-73.98918	1	-0.236872561
## 907	40.78933	-73.94932	1	-0.824742825
## 908	40.82264	-73.94041	1	-0.954074283
## 910	40.74207	-73.99094	2	0.527358782
## 912	40.80706	-73.95403	2	0.468571756
## 913	40.73276	-74.00074	2	0.233423650
## 915	40.82085	-73.94025	1	-0.954074283
## 917	40.80776	-73.96540	1	-0.295659588
## 918	40.80100	-73.94009	1	-0.354446614
## 920	40.71078	-74.00995	1	0.350997703
## 922	40.72361	-73.97877	1	0.586145808
## 923	40.73356	-73.99876	2	1.115229046
## 925	40.74605	-73.99906	1	-0.060511482
## 927	40.84408	-73.93675	1	-0.648381746
## 928	40.78860	-73.97553	2	0.703719861
## 930	40.72615	-73.98781	2	0.809536509
## 932	40.74435	-74.00038	2	-0.072268887
## 933	40.73194	-73.98939	2	1.938247416
## 935	40.77543	-73.95499	2	1.174016072
## 937	40.76300	-73.98911	1	-0.530807693
## 938	40.81378	-73.95353	1	-0.883529852
## 940	40.76662	-73.99302	2	0.574388403
## 942	40.81177	-73.95139	2	0.821293914
## 943	40.72836	-73.98163	1	-0.354446614
## 945	40.72493	-74.00307	2	1.232803099
## 947	40.73377	-74.00259	2	1.409164178
## 948	40.79820	-73.96394	2	-0.354446614
## 950	40.72538	-74.00375	2	0.762506888
## 952	40.80667	-73.95562	1	-0.354446614
## 953	40.79368	-73.96487	2	0.703719861
## 955	40.73055	-73.98875	2	0.339240298
## 957	40.72820	-73.98893	2	0.821293914
## 958	40.80014	-73.96370	2	0.456814350
## 960	40.72658	-73.98907	2	0.809536509
## 962	40.73331	-74.00471	2	0.468571756
## 963	40.81062	-73.96015	2	-0.354446614
## 965	40.80626	-73.94009	2	0.409784729
## 967	40.75136	-73.97076	1	2.573147301
## 968	40.79218	-73.95076	1	-0.765955799
## 970	40.72131	-73.99487	2	-0.131055914
## 972	40.78729	-73.97439	2	0.715477267
## 973	40.78520	-73.97460	2	0.668447645
## 975	40.78954	-73.97222	2	-0.366204019
## 977	40.76896	-73.95898	1	-0.824742825
## 978	40.72602	-74.00318	2	-0.001724456
## 980	40.73303	-74.00237	2	1.997034442
## 982	40.76249	-73.96054	2	0.715477267
## 983	40.79962	-73.96523	1	0.057062571
## 985	40.81309	-73.95267	1	-0.366204019
## 987	40.82153	-73.95512	1	-0.918802068
## 988	40.77421	-73.95280	2	-0.295659588
## 990	40.72351	-73.98283	2	4.336758093

## 992	40.72346	-73.97907	1	-0.413233640
## 993	40.74583	-74.00363	2	1.703099310
## 995	40.77054	-73.95497	2	-0.354446614
## 997	40.74398	-73.99624	2	4.336758093
## 998	40.82943	-73.94728	1	-1.001103905
## 1000	40.80350	-73.94764	2	0.762506888
## 1002	40.80384	-73.95419	1	-0.413233640
## 1003	40.71886	-73.98497	2	2.584904706
## 1005	40.79535	-73.93274	2	-0.119298508
## 1007	40.77014	-73.96222	2	3.466710102
## 1008	40.72650	-73.99000	2	0.339240298
## 1010	40.77440	-73.95578	2	0.809536509
## 1012	40.72046	-73.98773	1	-0.119298508
## 1013	40.72390	-73.97869	2	3.113987944
## 1015	40.72086	-73.99999	1	-0.354446614
## 1017	40.74573	-73.99712	1	-0.707168773
## 1018	40.79794	-73.93223	1	-0.848257636
## 1020	40.73775	-73.98324	2	1.409164178
## 1022	40.75964	-73.98534	1	0.644932835
## 1023	40.73099	-73.98762	1	0.233423650
## 1025	40.74197	-73.99702	1	0.539116187
## 1027	40.78859	-73.94715	1	-0.648381746
## 1028	40.81102	-73.94562	2	-0.530807693
## 1030	40.78264	-73.97803	2	0.821293914
## 1032	40.74268	-73.97853	2	1.291590125
## 1033	40.74570	-73.99775	2	0.350997703
## 1035	40.80477	-73.95120	2	0.327482892
## 1037	40.72068	-73.99576	2	0.927110562
## 1038	40.72212	-73.99676	1	-0.483778072
## 1040	40.80815	-73.94325	1	-0.707168773
## 1042	40.71928	-73.98993	2	0.115849597
## 1043	40.82865	-73.94621	1	-0.977589094
## 1045	40.72271	-73.98478	2	0.809536509
## 1047	40.80745	-73.94279	2	0.033547760
## 1048	40.78898	-73.97589	2	-0.601352125
## 1050	40.74119	-74.00234	2	0.527358782
## 1052	40.78892	-73.97435	1	0.057062571
## 1053	40.77097	-73.98083	2	0.574388403
## 1055	40.74658	-73.98847	2	-0.178085535
## 1057	40.73125	-73.98344	1	-0.248629967
## 1058	40.73614	-74.00634	1	-0.777713204
## 1060	40.83307	-73.93957	1	-0.965831689
## 1062	40.72520	-73.98261	2	-0.013481861
## 1063	40.80815	-73.96779	2	0.468571756
## 1065	40.77068	-73.95867	1	-0.178085535
## 1067	40.79480	-73.94835	1	-0.260387372
## 1068	40.73804	-74.00416	1	-0.483778072
## 1070	40.78571	-73.97149	2	1.279832720
## 1072	40.85320	-73.93225	1	-0.060511482
## 1073	40.72011	-73.99468	1	-0.354446614
## 1075	40.74568	-73.98321	2	1.703099310
## 1077	40.74542	-73.98205	3	-0.589594720
## 1078	40.85060	-73.94023	2	-0.707168773
## 1080	40.80040	-73.95645	1	-0.060511482

## 1082	40.76841	-73.95213	2	-0.001724456
## 1083	40.74652	-74.00089	1	-0.060511482
## 1085	40.73984	-74.00187	2	1.385649368
## 1087	40.79631	-73.96152	1	-0.530807693
## 1088	40.78943	-73.94726	1	-0.601352125
## 1090	40.71976	-74.00571	2	1.820673363
## 1092	40.71166	-73.99720	1	-0.589594720
## 1093	40.83448	-73.94476	1	-0.472020667
## 1095	40.72499	-73.98127	1	0.209908839
## 1097	40.75099	-73.96994	2	0.821293914
## 1098	40.85121	-73.93734	1	-0.883529852
## 1100	40.76247	-73.99294	1	1.291590125
## 1102	40.79293	-73.94048	2	-0.907044662
## 1103	40.80350	-73.94041	1	-1.048133526
## 1105	40.71908	-74.00546	2	1.879460389
## 1107	40.76168	-73.99490	2	0.821293914
## 1108	40.78104	-73.94916	2	0.057062571
## 1110	40.80545	-73.95563	2	-0.366204019
## 1112	40.77244	-73.95206	2	1.409164178
## 1113	40.78323	-73.98105	1	-0.413233640
## 1115	40.80707	-73.94884	2	1.997034442
## 1117	40.81388	-73.95105	1	-0.413233640
## 1118	40.78815	-73.97370	3	0.409784729
## 1120	40.78747	-73.95276	1	0.233423650
## 1122	40.70735	-74.00971	2	1.632554878
## 1123	40.70946	-74.01235	2	2.584904706
## 1125	40.71634	-73.99031	2	3.161017565
## 1127	40.72948	-73.99957	2	1.044684614
## 1128	40.74330	-73.99832	1	-0.131055914
## 1130	40.73532	-74.00448	2	0.162879218
## 1132	40.73384	-74.00462	2	0.115849597
## 1133	40.80777	-73.96703	2	-0.424991046
## 1135	40.72098	-73.99869	2	0.174636624
## 1137	40.72805	-73.99871	2	0.527358782
## 1138	40.73227	-73.98451	1	-0.248629967
## 1140	40.76248	-73.98597	2	3.161017565
## 1142	40.77444	-73.95908	2	1.232803099
## 1143	40.72188	-73.98160	2	1.997034442
## 1145	40.85677	-73.93727	1	-0.566079909
## 1147	40.71925	-73.99123	1	-0.413233640
## 1148	40.76417	-73.97704	2	2.584904706
## 1150	40.71833	-73.99826	2	1.409164178
## 1152	40.75032	-73.99676	2	-0.436748451
## 1153	40.73981	-74.00160	2	0.809536509
## 1155	40.76934	-73.98630	2	-0.060511482
## 1157	40.82343	-73.94507	1	-0.812985420
## 1158	40.80861	-73.94574	2	0.703719861
## 1160	40.80887	-73.94756	1	-0.530807693
## 1162	40.76178	-73.96713	2	1.761886337
## 1163	40.72685	-73.97874	2	0.938867967
## 1165	40.72758	-73.97762	1	0.809536509
## 1167	40.73432	-74.00306	1	1.056442020
## 1168	40.82660	-73.94443	1	-0.119298508
## 1170	40.72411	-73.99865	2	1.585525257

## 1172	40.83300	-73.93806	2	-0.366204019
## 1173	40.72383	-73.98290	1	-0.119298508
## 1175	40.74572	-73.99637	2	0.586145808
## 1177	40.72466	-74.00420	1	-0.472020667
## 1178	40.76977	-73.98638	1	-0.483778072
## 1180	40.72352	-73.99498	2	1.021169804
## 1182	40.80684	-73.96404	2	0.350997703
## 1183	40.72463	-73.98938	2	1.526738231
## 1185	40.72587	-74.00186	2	0.821293914
## 1187	40.72347	-74.00488	2	1.820673363
## 1188	40.79813	-73.93132	2	-0.119298508
## 1190	40.73078	-74.00282	2	0.938867967
## 1192	40.74036	-74.00138	1	-0.472020667
## 1193	40.72418	-73.98283	1	-0.413233640
## 1195	40.76800	-73.98695	1	-0.366204019
## 1197	40.78622	-73.97586	2	-0.366204019
## 1198	40.73556	-74.00903	2	1.644312284
## 1200	40.82407	-73.94434	1	-0.765955799
## 1202	40.76391	-73.99225	1	-0.213357751
## 1203	40.72620	-73.97913	2	1.197530883
## 1205	40.80570	-73.95826	2	0.527358782
## 1207	40.80028	-73.96180	2	0.562630998
## 1208	40.80759	-73.93839	1	-0.883529852
## 1210	40.80533	-73.94665	2	0.527358782
## 1212	40.81384	-73.93973	1	-0.824742825
## 1213	40.73695	-74.00572	2	0.233423650
## 1215	40.76035	-73.98026	3	-0.366204019
## 1217	40.71608	-73.98962	2	0.574388403
## 1218	40.76084	-73.96908	2	1.997034442
## 1220	40.75029	-73.99556	2	-0.377961425
## 1222	40.75028	-73.99533	2	-0.401476235
## 1223	40.71862	-73.99154	1	-0.060511482
## 1225	40.72040	-73.99042	2	-0.119298508
## 1227	40.72822	-74.00429	1	-0.589594720
## 1228	40.82124	-73.94973	2	-0.354446614
## 1230	40.77006	-73.95441	2	0.339240298
## 1232	40.74461	-74.00172	2	0.115849597
## 1233	40.85652	-73.92975	2	0.092334787
## 1235	40.73988	-74.00360	2	1.632554878
## 1237	40.78357	-73.97268	2	-0.107541103
## 1238	40.72307	-73.97911	1	-0.483778072
## 1240	40.72317	-73.99290	2	0.527358782
## 1242	40.80610	-73.96620	2	-0.601352125
## 1243	40.78981	-73.97518	2	-0.307416993
## 1245	40.72915	-73.98565	2	0.809536509
## 1247	40.78808	-73.97540	2	-0.060511482
## 1248	40.80355	-73.95227	1	-0.366204019
## 1250	40.73078	-74.01040	2	2.584904706
## 1252	40.82453	-73.94923	2	0.292210676
## 1253	40.73494	-73.98751	2	1.409164178
## 1255	40.76142	-73.96086	1	-0.119298508
## 1257	40.83399	-73.94474	2	-0.683653962
## 1258	40.73254	-74.00467	1	-0.354446614
## 1260	40.72694	-73.98304	2	0.821293914

## 1262	40.74611	-73.99209	2	1.938247416
## 1263	40.76476	-73.99011	2	-0.366204019
## 1265	40.71239	-74.01620	2	3.172774970
## 1267	40.82184	-73.95031	1	-0.718926178
## 1268	40.75130	-73.97239	1	1.397406773
## 1270	40.72391	-73.99879	1	0.750749482
## 1272	40.81307	-73.93854	1	-0.589594720
## 1273	40.78013	-73.95082	2	0.292210676
## 1275	40.76866	-73.95360	2	0.115849597
## 1277	40.72831	-73.99870	2	2.937626865
## 1278	40.81170	-73.95550	2	-0.060511482
## 1280	40.76364	-73.99465	2	-0.589594720
## 1282	40.73089	-74.00302	1	0.104092192
## 1283	40.72866	-74.00095	2	1.126986451
## 1285	40.72047	-74.00049	2	1.703099310
## 1287	40.72379	-73.98826	2	0.174636624
## 1288	40.76464	-73.98749	2	1.409164178
## 1290	40.73681	-73.98366	2	1.409164178
## 1292	40.76703	-73.98874	2	0.762506888
## 1293	40.76671	-73.98666	2	2.584904706
## 1295	40.79053	-73.94398	1	-0.472020667
## 1297	40.81740	-73.94629	2	-0.236872561
## 1298	40.71570	-73.99183	2	1.397406773
## 1300	40.80339	-73.95167	1	-0.695411367
## 1302	40.81976	-73.94029	1	-0.824742825
## 1303	40.74072	-74.00438	2	0.821293914
## 1305	40.71890	-73.99177	2	-0.119298508
## 1307	40.77532	-73.97952	1	0.527358782
## 1308	40.85287	-73.93794	1	-0.589594720
## 1310	40.81027	-73.94639	2	-0.648381746
## 1312	40.74035	-74.00615	2	3.643071182
## 1313	40.70758	-74.00799	1	-0.366204019
## 1315	40.79377	-73.93610	1	-0.836500231
## 1317	40.79086	-73.96683	2	3.631313776
## 1318	40.77084	-73.95811	1	-0.366204019
## 1320	40.72105	-73.98519	2	1.997034442
## 1322	40.79858	-73.93585	1	-0.413233640
## 1323	40.78031	-73.94653	2	-0.084026293
## 1325	40.74148	-73.98304	2	-0.354446614
## 1327	40.73236	-73.99920	2	1.526738231
## 1328	40.80012	-73.94087	1	-0.507292883
## 1330	40.80247	-73.94531	1	-0.472020667
## 1332	40.74314	-73.99570	2	0.821293914
## 1333	40.79692	-73.94434	1	-0.354446614
## 1335	40.72714	-73.98397	2	0.574388403
## 1337	40.78448	-73.97386	1	-0.166328130
## 1338	40.76421	-73.99115	1	-0.589594720
## 1340	40.80266	-73.94728	2	0.821293914
## 1342	40.71078	-74.01623	3	-0.883529852
## 1343	40.74881	-73.97234	1	0.151121813
## 1345	40.80395	-73.95519	2	0.233423650
## 1347	40.72131	-73.98527	1	-0.354446614
## 1348	40.72311	-73.99476	2	1.115229046
## 1350	40.81157	-73.95335	1	-0.824742825

## 1352	40.73120	-73.98857	2	0.809536509
## 1353	40.72878	-73.97854	2	0.233423650
## 1355	40.74107	-73.98487	2	4.054580366
## 1357	40.80126	-73.94540	1	-0.648381746
## 1358	40.81748	-73.94539	1	0.115849597
## 1360	40.81450	-73.94962	1	-0.589594720
## 1362	40.72644	-73.99230	2	0.527358782
## 1363	40.73689	-73.98451	2	0.644932835
## 1365	40.74386	-73.99541	2	0.362755108
## 1367	40.72210	-73.98356	2	3.407923076
## 1368	40.72018	-73.98839	2	-0.448505856
## 1370	40.82557	-73.95514	1	-0.765955799
## 1372	40.72982	-73.98532	2	0.527358782
## 1373	40.80964	-73.94098	2	0.221666245
## 1375	40.75000	-73.99721	2	-0.448505856
## 1377	40.73196	-73.97932	2	0.104092192
## 1378	40.74392	-73.98110	1	-0.472020667
## 1380	40.76547	-73.97729	2	1.938247416
## 1382	40.75250	-73.96492	2	0.997654993
## 1383	40.82097	-73.93765	1	-0.001724456
## 1385	40.72969	-73.98151	2	0.456814350
## 1387	40.80738	-73.95855	2	-0.119298508
## 1388	40.82597	-73.95102	2	0.233423650
## 1390	40.76254	-73.98712	1	-0.472020667
## 1392	40.76906	-73.95170	2	1.291590125
## 1393	40.72394	-73.98941	2	0.233423650
## 1395	40.78618	-73.97339	2	1.985277037
## 1397	40.74386	-74.00106	2	0.821293914
## 1398	40.75820	-73.96692	2	-0.354446614
## 1400	40.74599	-73.99775	1	-0.472020667
## 1402	40.71845	-73.99326	2	0.174636624
## 1403	40.73660	-73.98703	2	0.809536509
## 1405	40.74855	-73.97700	2	0.762506888
## 1407	40.75669	-73.96660	2	1.115229046
## 1408	40.75375	-73.96556	1	-0.001724456
## 1410	40.76296	-73.98641	1	-0.060511482
## 1412	40.75406	-73.99376	2	0.350997703
## 1413	40.75066	-74.00377	2	0.821293914
## 1415	40.76981	-73.95812	2	-0.366204019
## 1417	40.73892	-73.98922	2	1.397406773
## 1418	40.74676	-74.00234	1	-0.648381746
## 1420	40.72147	-73.98806	1	1.150501262
## 1422	40.77060	-73.98919	2	0.691962456
## 1423	40.77785	-73.94540	2	2.584904706
## 1425	40.81056	-73.94300	2	0.115849597
## 1427	40.80029	-73.94294	1	-0.472020667
## 1428	40.74276	-74.00016	2	1.115229046
## 1430	40.82438	-73.94332	1	-0.824742825
## 1432	40.71930	-73.98986	1	-0.589594720
## 1433	40.76143	-73.99223	2	0.115849597
## 1435	40.73772	-73.98025	2	0.527358782
## 1437	40.76135	-73.97785	1	-0.530807693
## 1438	40.72373	-73.99118	1	0.527358782
## 1440	40.71972	-73.99299	2	1.397406773

## 1442	40.80874	-73.94756	2	0.515601377
## 1443	40.76247	-73.99225	2	0.233423650
## 1445	40.72997	-73.98497	2	0.492086566
## 1447	40.80447	-73.94034	1	-0.942316878
## 1448	40.79629	-73.94769	1	-0.530807693
## 1450	40.74328	-73.99742	2	0.821293914
## 1452	40.71930	-73.99781	2	0.821293914
## 1453	40.80009	-73.97009	2	-0.001724456
## 1455	40.72187	-73.98083	2	0.233423650
## 1457	40.74423	-73.97614	2	0.762506888
## 1458	40.73925	-73.99359	2	1.420921583
## 1460	40.77924	-73.95405	2	4.336758093
## 1462	40.71286	-73.98437	1	-0.330931804
## 1463	40.82330	-73.95591	2	-0.119298508
## 1465	40.78122	-73.98473	2	1.232803099
## 1467	40.76636	-73.98634	1	-0.366204019
## 1468	40.77021	-73.98721	1	0.233423650
## 1470	40.81381	-73.94166	2	1.409164178
## 1472	40.74163	-73.99857	2	0.691962456
## 1473	40.72679	-73.98598	2	-0.119298508
## 1475	40.76838	-73.95481	1	-0.354446614
## 1477	40.72862	-73.98885	2	0.139364408
## 1478	40.79859	-73.96078	1	-0.589594720
## 1480	40.72754	-73.98555	2	3.760645234
## 1482	40.78918	-73.97927	2	-0.119298508
## 1483	40.84082	-73.93896	2	0.174636624
## 1485	40.72886	-73.98036	2	0.080577381
## 1487	40.76663	-73.98069	2	2.526117680
## 1488	40.77000	-73.94285	2	0.233423650
## 1490	40.78380	-73.94820	1	-0.472020667
## 1492	40.76273	-73.95866	1	-0.119298508
## 1493	40.80830	-73.94390	2	0.233423650
## 1495	40.80446	-73.96366	1	-0.413233640
## 1497	40.71695	-73.99178	2	-0.154570724
## 1498	40.76542	-73.98081	2	0.527358782
## 1500	40.78021	-73.98050	2	0.233423650
## 1502	40.86317	-73.92873	2	-0.178085535
## 1503	40.73003	-73.98576	2	1.997034442
## 1505	40.82475	-73.94842	1	-1.071648336
## 1507	40.76709	-73.98577	2	1.409164178
## 1508	40.78605	-73.95087	2	-0.119298508
## 1510	40.72977	-73.98713	2	0.527358782
## 1512	40.73985	-74.00138	2	2.232182548
## 1513	40.72329	-73.99810	2	3.172774970
## 1515	40.81639	-73.94085	2	-0.178085535
## 1517	40.81858	-73.95590	2	0.233423650
## 1518	40.81728	-73.94583	2	-0.413233640
## 1520	40.72782	-73.98095	2	0.115849597
## 1522	40.76326	-73.98165	2	3.113987944
## 1523	40.76473	-73.98937	2	-0.354446614
## 1525	40.72148	-73.98823	1	-0.377961425
## 1527	40.75520	-73.97240	2	1.409164178
## 1528	40.72717	-73.99270	2	2.584904706
## 1530	40.80163	-73.95413	2	0.174636624

## 1532	40.80121	-73.95063	1	-0.178085535
## 1533	40.73075	-74.00238	2	-0.236872561
## 1535	40.72577	-74.00279	2	1.667827094
## 1537	40.72829	-73.98907	1	-0.718926178
## 1538	40.80797	-73.93686	1	0.574388403
## 1540	40.77895	-73.97837	1	-0.354446614
## 1542	40.74282	-73.98030	1	-0.648381746
## 1543	40.82078	-73.93771	1	-1.001103905
## 1545	40.74221	-73.98121	1	-0.601352125
## 1547	40.75053	-73.97747	2	0.527358782
## 1548	40.73033	-73.98742	1	-0.354446614
## 1550	40.81233	-73.96101	2	-0.589594720
## 1552	40.71864	-73.98496	2	0.703719861
## 1553	40.81286	-73.94385	2	0.233423650
## 1555	40.71044	-73.98756	1	-0.025239266
## 1557	40.71651	-73.99053	2	0.456814350
## 1558	40.72864	-73.98216	1	-0.248629967
## 1560	40.75774	-73.99371	2	-0.131055914
## 1562	40.77519	-73.95688	2	0.233423650
## 1563	40.74978	-73.99686	2	0.104092192
## 1565	40.72287	-73.98462	2	0.574388403
## 1567	40.77452	-73.94951	2	0.233423650
## 1568	40.72045	-73.99598	2	2.878839838
## 1570	40.76204	-73.99143	2	0.527358782
## 1572	40.78835	-73.96810	2	0.821293914
## 1573	40.76263	-73.98271	2	1.291590125
## 1575	40.74961	-73.97865	1	-0.483778072
## 1577	40.72859	-73.98957	1	-0.119298508
## 1578	40.79994	-73.97094	2	3.172774970
## 1580	40.82532	-73.94992	1	-0.883529852
## 1582	40.83454	-73.94224	2	-0.354446614
## 1583	40.71973	-73.99338	2	0.174636624
## 1585	40.82029	-73.93861	2	-0.589594720
## 1587	40.72975	-74.00414	2	2.290969574
## 1588	40.76466	-73.99325	1	0.586145808
## 1590	40.77924	-73.95092	2	0.233423650
## 1592	40.72476	-73.97643	2	1.409164178
## 1593	40.74193	-74.00170	2	-0.472020667
## 1595	40.71000	-74.01540	1	-0.236872561
## 1597	40.78689	-73.96985	2	1.115229046
## 1598	40.83191	-73.94110	1	-0.801228015
## 1600	40.72356	-74.00305	1	-0.283902182
## 1602	40.77459	-73.95149	1	-0.530807693
## 1603	40.85098	-73.93664	1	1.997034442
## 1605	40.76197	-73.99308	1	0.057062571
## 1607	40.76141	-73.96273	1	-0.718926178
## 1608	40.76213	-73.99376	2	0.997654993
## 1610	40.76337	-73.98576	1	-0.001724456
## 1612	40.77464	-73.95226	2	-0.366204019
## 1613	40.76040	-73.96029	2	-0.354446614
## 1615	40.82252	-73.94462	1	-0.824742825
## 1617	40.77608	-73.97614	2	2.467330653
## 1618	40.81562	-73.94426	2	-0.213357751
## 1620	40.81333	-73.94194	2	0.409784729

## 1622	40.74259	-73.99708	2	0.350997703
## 1623	40.73818	-74.00433	2	1.997034442
## 1625	40.82811	-73.94372	1	-0.954074283
## 1627	40.78328	-73.95273	2	1.997034442
## 1628	40.71735	-73.99095	1	-0.601352125
## 1630	40.78731	-73.97805	2	1.997034442
## 1632	40.84119	-73.93900	1	-0.472020667
## 1633	40.77590	-73.94921	2	2.290969574
## 1635	40.72780	-73.99205	1	0.915353156
## 1637	40.73087	-73.98713	2	0.586145808
## 1638	40.75701	-73.96781	2	0.115849597
## 1640	40.72053	-73.98901	1	-0.001724456
## 1642	40.74361	-73.97677	2	0.233423650
## 1643	40.78616	-73.97348	1	0.221666245
## 1645	40.79558	-73.96969	2	0.292210676
## 1647	40.71969	-73.99287	2	1.409164178
## 1648	40.78605	-73.97354	2	-0.366204019
## 1650	40.73311	-74.00401	2	0.644932835
## 1652	40.83426	-73.94758	1	-0.883529852
## 1653	40.73823	-74.00233	2	0.409784729
## 1655	40.77266	-73.95257	2	1.056442020
## 1657	40.72926	-73.99890	1	-0.131055914
## 1658	40.73215	-73.98821	2	0.821293914
## 1660	40.74163	-73.97533	2	-0.295659588
## 1662	40.77331	-73.95067	2	1.409164178
## 1663	40.81085	-73.94768	2	-0.354446614
## 1665	40.77226	-73.95895	2	0.586145808
## 1667	40.72082	-73.99028	2	1.997034442
## 1668	40.79859	-73.96970	1	-0.060511482
## 1670	40.78531	-73.96988	2	2.878839838
## 1672	40.72847	-73.99029	1	-0.013481861
## 1673	40.71960	-74.00571	2	1.409164178
## 1675	40.78021	-73.95044	2	0.527358782
## 1677	40.76886	-73.95877	2	-0.001724456
## 1678	40.73876	-73.98108	2	-0.354446614
## 1680	40.78409	-73.97886	1	-0.742440988
## 1682	40.75361	-73.99501	2	2.584904706
## 1683	40.70517	-74.01753	2	3.466710102
## 1685	40.72959	-73.98112	2	-0.213357751
## 1687	40.79432	-73.97269	2	0.233423650
## 1688	40.74438	-73.97965	2	2.808295407
## 1690	40.74438	-73.97744	2	3.172774970
## 1692	40.73580	-73.99677	2	0.809536509
## 1693	40.76726	-73.98285	2	3.113987944
## 1695	40.73357	-73.99767	1	0.527358782
## 1697	40.78498	-73.97284	2	2.584904706
## 1698	40.76292	-73.98128	1	1.409164178
## 1700	40.73521	-74.00089	1	-0.354446614
## 1702	40.74576	-73.97821	1	-0.236872561
## 1703	40.77715	-73.94788	2	0.057062571
## 1705	40.76182	-73.99003	2	0.821293914
## 1707	40.76774	-73.98503	2	3.466710102
## 1708	40.72153	-73.99331	2	1.056442020
## 1710	40.73259	-73.98681	2	2.584904706

## 1712	40.71627	-73.99404	1	-0.648381746
## 1713	40.74935	-73.99723	2	0.233423650
## 1715	40.78030	-73.98347	2	0.821293914
## 1717	40.70583	-74.00612	1	-0.001724456
## 1718	40.79160	-73.94686	1	-0.178085535
## 1720	40.76225	-73.96165	1	1.997034442
## 1722	40.76054	-73.98508	2	0.821293914
## 1723	40.72171	-73.99053	2	0.586145808
## 1725	40.81128	-73.94117	2	-0.530807693
## 1727	40.72946	-74.00189	2	0.821293914
## 1728	40.76349	-73.98985	2	1.409164178
## 1730	40.73997	-73.98137	2	0.821293914
## 1732	40.72541	-74.01015	1	0.233423650
## 1733	40.76046	-73.99131	2	0.821293914
## 1735	40.80021	-73.94142	2	0.762506888
## 1737	40.71968	-73.98726	1	-0.648381746
## 1738	40.82039	-73.95514	1	-1.059890931
## 1740	40.81904	-73.94325	1	-0.377961425
## 1742	40.72916	-73.98022	1	-0.060511482
## 1743	40.71962	-73.99178	1	-0.178085535
## 1745	40.76589	-73.98536	1	-0.072268887
## 1747	40.72034	-74.01122	2	-0.236872561
## 1748	40.82301	-73.94907	1	-0.765955799
## 1750	40.78090	-73.98215	2	1.056442020
## 1752	40.71149	-73.99721	1	-0.765955799
## 1753	40.76453	-73.99515	2	-0.084026293
## 1755	40.79926	-73.94499	2	-0.060511482
## 1757	40.72908	-73.99650	2	1.750128931
## 1758	40.82349	-73.94193	1	-0.589594720
## 1760	40.70781	-74.00701	2	-0.001724456
## 1762	40.78474	-73.94974	2	0.586145808
## 1763	40.72007	-73.98946	2	0.033547760
## 1765	40.79841	-73.95257	1	-0.683653962
## 1767	40.78792	-73.97758	2	0.821293914
## 1768	40.79838	-73.96388	1	0.821293914
## 1770	40.80121	-73.95002	1	-0.448505856
## 1772	40.72337	-74.00175	2	3.172774970
## 1773	40.74400	-73.98054	2	0.256938461
## 1775	40.81510	-73.95147	1	-0.824742825
## 1777	40.77194	-73.94773	1	-0.542565099
## 1778	40.75066	-73.99720	1	-0.131055914
## 1780	40.73405	-73.99725	2	0.809536509
## 1782	40.81456	-73.94583	1	-0.354446614
## 1783	40.75879	-73.96413	2	3.161017565
## 1785	40.72276	-73.99499	2	0.174636624
## 1787	40.76152	-73.98793	1	0.221666245
## 1788	40.71934	-73.98196	1	-0.236872561
## 1790	40.70558	-74.01533	2	0.527358782
## 1792	40.81927	-73.94631	1	-0.366204019
## 1793	40.73905	-73.98161	2	0.938867967
## 1795	40.70657	-74.01676	1	-0.460263262
## 1797	40.82277	-73.94981	1	0.821293914
## 1798	40.72224	-73.99491	2	0.233423650
## 1800	40.73237	-73.98288	2	-0.001724456

## 1802	40.72939	-73.98319	1	-0.648381746
## 1803	40.76791	-73.98735	1	-0.413233640
## 1805	40.80290	-73.95694	1	-0.307416993
## 1807	40.73112	-73.98558	1	-0.472020667
## 1808	40.84309	-73.94127	1	-0.472020667
## 1810	40.74311	-74.00718	2	1.703099310
## 1812	40.79249	-73.94592	2	-0.119298508
## 1813	40.80546	-73.95221	1	-0.530807693
## 1815	40.80007	-73.95620	2	3.760645234
## 1817	40.77263	-73.95567	2	-0.154570724
## 1818	40.81503	-73.96029	2	0.233423650
## 1820	40.79733	-73.96104	2	-0.472020667
## 1822	40.77265	-73.95740	2	0.174636624
## 1823	40.77276	-73.95675	2	0.104092192
## 1825	40.79827	-73.96881	1	-0.589594720
## 1827	40.80029	-73.95362	2	1.879460389
## 1828	40.72839	-73.98613	1	-0.119298508
## 1830	40.72073	-73.98954	1	-0.295659588
## 1832	40.76503	-73.98827	1	-0.330931804
## 1833	40.80980	-73.95722	2	-0.554322504
## 1835	40.72816	-73.98035	2	0.350997703
## 1837	40.77645	-73.94865	2	-0.472020667
## 1838	40.71226	-73.99416	1	-0.354446614
## 1840	40.72100	-73.98169	1	-0.589594720
## 1842	40.71675	-73.99092	2	0.821293914
## 1843	40.73657	-73.98019	2	0.821293914
## 1845	40.83677	-73.94314	1	-0.765955799
## 1847	40.76419	-73.98018	1	0.115849597
## 1848	40.80494	-73.95638	2	-0.295659588
## 1850	40.82305	-73.93739	1	-0.707168773
## 1852	40.76711	-73.98371	2	1.115229046
## 1853	40.84203	-73.93985	1	-0.530807693
## 1855	40.76479	-73.98455	2	-0.366204019
## 1857	40.80697	-73.95203	1	-0.530807693
## 1858	40.82907	-73.94939	2	-0.472020667
## 1860	40.72173	-73.99383	1	-0.413233640
## 1862	40.77518	-73.95618	2	0.821293914
## 1863	40.77107	-73.95322	2	1.703099310
## 1865	40.73942	-73.99629	2	-0.236872561
## 1867	40.72210	-73.98259	1	-0.472020667
## 1868	40.79496	-73.97349	2	0.115849597
## 1870	40.75927	-73.99223	2	0.691962456
## 1872	40.76544	-73.98186	2	3.278591618
## 1873	40.81677	-73.94371	1	0.527358782
## 1875	40.73243	-73.98906	2	0.821293914
## 1877	40.77249	-73.95756	2	-0.154570724
## 1878	40.84915	-73.93848	1	-0.836500231
## 1880	40.75967	-73.96595	1	-0.613109530
## 1882	40.78694	-73.97384	2	0.233423650
## 1883	40.77024	-73.98746	3	-0.707168773
## 1885	40.83252	-73.94916	1	-0.730683583
## 1887	40.72105	-73.98140	1	-0.354446614
## 1888	40.81781	-73.94577	2	-0.236872561
## 1890	40.72106	-73.99417	2	3.525497129

## 1892	40.71418	-73.99295	1	-0.119298508
## 1893	40.72266	-73.98337	1	1.409164178
## 1895	40.78414	-73.97830	2	-0.648381746
## 1897	40.80504	-73.96454	1	-0.354446614
## 1898	40.73390	-74.00177	2	1.997034442
## 1900	40.78882	-73.97945	2	0.574388403
## 1902	40.77589	-73.98188	2	0.821293914
## 1903	40.83418	-73.94274	1	-1.071648336
## 1905	40.76147	-73.97610	2	0.821293914
## 1907	40.80925	-73.94226	1	-0.883529852
## 1908	40.75546	-73.96762	2	1.291590125
## 1910	40.77397	-73.98242	2	1.985277037
## 1912	40.72842	-73.99903	1	-0.354446614
## 1913	40.83687	-73.94324	1	-1.001103905
## 1915	40.80005	-73.95212	1	-0.225115156
## 1917	40.77233	-73.95627	2	-0.319174398
## 1918	40.79193	-73.97443	2	-0.248629967
## 1920	40.77105	-73.95727	2	-0.131055914
## 1922	40.81153	-73.95856	2	-0.060511482
## 1923	40.79972	-73.96418	2	0.233423650
## 1925	40.74288	-73.98030	2	0.586145808
## 1927	40.73362	-73.98920	1	-0.201600345
## 1928	40.74923	-73.97849	2	1.409164178
## 1930	40.78352	-73.97482	2	0.821293914
## 1932	40.71782	-73.99422	1	-0.507292883
## 1933	40.75293	-73.97173	1	-0.236872561
## 1935	40.72410	-74.00420	2	1.409164178
## 1937	40.78880	-73.94844	2	1.291590125
## 1938	40.77435	-73.97889	2	0.762506888
## 1940	40.73034	-73.99992	1	-0.119298508
## 1942	40.80071	-73.95340	1	-0.354446614
## 1943	40.73936	-73.99965	2	1.115229046
## 1945	40.76375	-73.99240	2	1.409164178
## 1947	40.80879	-73.94127	2	1.879460389
## 1948	40.75969	-73.96644	2	0.115849597
## 1950	40.73279	-74.00322	2	0.350997703
## 1952	40.75971	-73.98979	1	-0.119298508
## 1953	40.76794	-73.98781	1	-0.730683583
## 1955	40.72603	-73.99746	2	0.362755108
## 1957	40.79285	-73.94482	1	-0.413233640
## 1958	40.71433	-73.99028	2	-0.060511482
## 1960	40.80095	-73.95410	1	-0.589594720
## 1962	40.78504	-73.97959	1	-0.236872561
## 1963	40.77126	-73.95671	2	-0.166328130
## 1965	40.71662	-74.00352	2	-0.001724456
## 1967	40.74227	-73.99362	2	0.586145808
## 1968	40.73893	-73.99464	2	2.584904706
## 1970	40.73722	-74.00043	2	0.703719861
## 1972	40.74318	-73.97193	2	0.233423650
## 1973	40.74873	-73.99557	2	-0.436748451
## 1975	40.76132	-73.96612	2	-0.178085535
## 1977	40.74475	-73.97201	2	0.233423650
## 1978	40.72232	-73.98987	1	-0.624866936
## 1980	40.74462	-73.97488	2	-0.354446614

## 1982	40.78576	-73.97594	2	1.997034442
## 1983	40.77401	-73.94570	1	-0.883529852
## 1985	40.83568	-73.94457	1	-1.059890931
## 1987	40.74897	-73.99680	2	-0.436748451
## 1988	40.79245	-73.94563	1	-1.095163147
## 1990	40.73057	-73.99034	2	0.821293914
## 1992	40.78145	-73.95588	2	1.409164178
## 1993	40.77209	-73.95630	2	-0.319174398
## 1995	40.80392	-73.94685	1	-0.648381746
## 1997	40.72293	-73.99413	2	2.232182548
## 1998	40.78087	-73.97812	2	-0.119298508
## 2000	40.75771	-73.99407	1	-0.354446614
## 2002	40.80399	-73.94665	1	-0.354446614
## 2003	40.77590	-73.94227	2	-0.119298508
## 2005	40.74765	-74.00420	2	2.290969574
## 2007	40.77573	-73.98264	2	0.997654993
## 2008	40.72488	-73.97996	1	1.291590125
## 2010	40.72165	-73.98573	2	0.350997703
## 2012	40.76745	-73.98489	2	-0.507292883
## 2013	40.81595	-73.94470	1	-0.060511482
## 2015	40.76282	-73.96370	1	0.198151434
## 2017	40.73666	-73.97960	1	0.809536509
## 2018	40.71973	-73.98993	1	-0.236872561
## 2020	40.71029	-74.01725	1	-0.354446614
## 2022	40.73509	-74.00323	2	0.821293914
## 2023	40.74449	-73.99445	2	1.703099310
## 2025	40.77737	-73.95032	2	0.527358782
## 2027	40.82165	-73.95491	1	-0.707168773
## 2028	40.80185	-73.95667	2	0.527358782
## 2030	40.76309	-73.99155	2	0.527358782
## 2032	40.77059	-73.94991	2	1.761886337
## 2033	40.77802	-73.98256	2	-0.119298508
## 2035	40.72150	-73.97747	1	-0.530807693
## 2037	40.76429	-73.98043	1	-0.060511482
## 2038	40.74814	-73.97277	2	0.691962456
## 2040	40.79794	-73.93876	3	-1.001103905
## 2042	40.76158	-73.96031	1	-0.589594720
## 2043	40.83650	-73.93688	3	-0.765955799
## 2045	40.72928	-74.00135	1	-0.472020667
## 2047	40.72652	-74.00266	2	0.221666245
## 2048	40.80118	-73.95451	2	0.233423650
## 2050	40.72780	-73.97997	2	0.527358782
## 2052	40.83686	-73.94393	1	-1.001103905
## 2053	40.80801	-73.93854	1	-0.483778072
## 2055	40.81198	-73.94370	1	-0.589594720
## 2057	40.74156	-73.99476	2	1.867702984
## 2058	40.79848	-73.93908	1	-0.942316878
## 2060	40.80131	-73.96750	1	-0.718926178
## 2062	40.76866	-73.95553	2	-1.342068658
## 2063	40.74436	-73.97977	2	1.409164178
## 2065	40.75182	-73.97052	2	0.527358782
## 2067	40.74956	-73.99671	1	-0.472020667
## 2068	40.73547	-74.00510	2	0.821293914
## 2070	40.73504	-74.00658	2	1.855945579

## 2072	40.73691	-74.00013	2	0.421542134
## 2073	40.78206	-73.97797	2	2.349756601
## 2075	40.75180	-73.99690	2	0.409784729
## 2077	40.77449	-73.96228	2	-0.131055914
## 2078	40.77787	-73.95104	2	-0.060511482
## 2080	40.72235	-73.99543	2	1.409164178
## 2082	40.73548	-73.98896	2	1.703099310
## 2083	40.73810	-74.00489	2	0.586145808
## 2085	40.82888	-73.94997	2	0.174636624
## 2087	40.73993	-74.00619	2	1.291590125
## 2088	40.76884	-73.95826	2	1.409164178
## 2090	40.79950	-73.96965	2	-0.001724456
## 2092	40.79893	-73.96249	1	-0.472020667
## 2093	40.78728	-73.94976	2	-0.354446614
## 2095	40.74259	-74.00128	2	0.350997703
## 2097	40.73316	-74.00632	2	1.997034442
## 2098	40.74934	-74.00274	2	2.820052812
## 2100	40.75958	-73.96231	1	-0.060511482
## 2102	40.83473	-73.93706	1	-0.589594720
## 2103	40.76649	-73.96453	2	0.821293914
## 2105	40.81742	-73.95358	1	-1.271524226
## 2107	40.77486	-73.94857	2	0.644932835
## 2108	40.75524	-73.99839	2	0.527358782
## 2110	40.71307	-73.99025	2	0.233423650
## 2112	40.85304	-73.93555	2	-0.495535477
## 2113	40.76125	-73.99642	2	1.997034442
## 2115	40.70885	-74.00200	1	-0.542565099
## 2117	40.82491	-73.94774	2	0.221666245
## 2118	40.73817	-74.00274	2	1.397406773
## 2120	40.80174	-73.93925	1	-0.718926178
## 2122	40.83132	-73.94101	1	-0.942316878
## 2123	40.83328	-73.94511	1	-0.930559473
## 2125	40.79390	-73.97485	2	1.879460389
## 2127	40.71062	-74.01537	1	-0.236872561
## 2128	40.70765	-74.00761	2	0.880080940
## 2130	40.85083	-73.92870	1	-1.071648336
## 2132	40.73165	-73.98715	2	1.879460389
## 2133	40.72012	-73.99092	2	0.186394029
## 2135	40.77565	-73.95086	2	0.233423650
## 2137	40.76349	-73.95969	2	3.172774970
## 2138	40.71663	-74.00231	2	-0.589594720
## 2140	40.79037	-73.97195	2	0.821293914
## 2142	40.82186	-73.95672	1	-0.824742825
## 2143	40.73232	-74.00020	2	1.115229046
## 2145	40.78284	-73.94825	2	1.467951205
## 2147	40.81525	-73.95279	2	0.821293914
## 2148	40.72120	-73.98893	2	-0.236872561
## 2150	40.80278	-73.94001	1	-0.648381746
## 2152	40.76717	-73.95532	1	-0.413233640
## 2153	40.71812	-73.98619	2	0.786021698
## 2155	40.78478	-73.97668	2	1.115229046
## 2157	40.79098	-73.96745	2	1.573767852
## 2158	40.79219	-73.96862	2	0.809536509
## 2160	40.71922	-73.98472	1	-0.718926178

## 2162	40.72044	-73.99645	2	0.527358782
## 2163	40.80790	-73.94887	2	0.233423650
## 2165	40.82639	-73.94186	2	0.057062571
## 2167	40.74593	-73.97915	2	0.633175430
## 2168	40.74977	-73.99647	1	-0.530807693
## 2170	40.72080	-73.99436	2	2.584904706
## 2172	40.73877	-73.98171	1	-0.589594720
## 2173	40.73331	-73.99410	2	1.703099310
## 2175	40.82774	-73.95080	1	-0.472020667
## 2177	40.86176	-73.93082	1	-0.589594720
## 2178	40.74252	-73.99750	2	0.527358782
## 2180	40.80297	-73.95132	2	-0.013481861
## 2182	40.73022	-74.00421	2	1.397406773
## 2183	40.81792	-73.94236	2	0.057062571
## 2185	40.72007	-73.99078	2	1.679584500
## 2187	40.82447	-73.95076	1	-0.413233640
## 2188	40.73622	-74.00147	3	-0.236872561
## 2190	40.82233	-73.93779	1	-0.718926178
## 2192	40.73788	-73.98048	2	0.468571756
## 2193	40.72165	-73.98759	2	-0.060511482
## 2195	40.72454	-73.97836	2	0.174636624
## 2197	40.71306	-73.98856	1	-0.589594720
## 2198	40.73326	-74.00604	1	-0.354446614
## 2200	40.82140	-73.95675	3	0.821293914
## 2202	40.76189	-73.96298	1	-0.718926178
## 2203	40.73496	-74.00005	2	0.821293914
## 2205	40.76553	-73.99530	1	0.821293914
## 2207	40.71987	-73.99470	2	1.644312284
## 2208	40.72832	-73.98520	2	2.761265785
## 2210	40.73711	-73.98985	2	1.056442020
## 2212	40.81464	-73.95351	1	-0.824742825
## 2213	40.72802	-73.99644	1	-0.119298508
## 2215	40.80612	-73.95678	2	0.092334787
## 2217	40.80411	-73.95624	2	1.115229046
## 2218	40.85153	-73.93815	2	0.233423650
## 2220	40.72158	-73.98998	2	0.233423650
## 2222	40.82071	-73.93813	1	-1.001103905
## 2223	40.72960	-73.99054	1	-0.530807693
## 2225	40.73389	-73.98724	2	1.409164178
## 2227	40.84943	-73.93146	1	-0.942316878
## 2228	40.83473	-73.93982	1	0.174636624
## 2230	40.77487	-73.94900	2	0.586145808
## 2232	40.74173	-73.97906	2	-0.119298508
## 2233	40.70550	-74.00866	2	0.409784729
## 2235	40.73755	-73.98595	1	0.233423650
## 2237	40.82544	-73.94020	1	-0.765955799
## 2238	40.72966	-73.98515	1	-0.765955799
## 2240	40.74016	-74.00049	1	0.057062571
## 2242	40.79319	-73.94209	1	-0.942316878
## 2243	40.79420	-73.94136	1	-0.848257636
## 2245	40.77274	-73.95732	2	-0.001724456
## 2247	40.76385	-73.99050	2	0.809536509
## 2248	40.77242	-73.96212	2	1.409164178
## 2250	40.80309	-73.96367	1	0.233423650

## 2252	40.74994	-73.99612	2	-0.413233640
## 2253	40.72135	-73.98000	1	-0.530807693
## 2255	40.73568	-73.98062	2	0.233423650
## 2257	40.76882	-73.98699	2	-0.236872561
## 2258	40.78698	-73.94400	1	-0.648381746
## 2260	40.76625	-73.99387	1	-0.718926178
## 2262	40.77448	-73.96102	2	0.527358782
## 2263	40.72168	-73.99544	2	0.715477267
## 2265	40.76522	-73.99486	2	1.409164178
## 2267	40.74911	-73.98202	1	-0.413233640
## 2268	40.77290	-73.95276	2	-0.366204019
## 2270	40.84686	-73.94181	1	-0.707168773
## 2272	40.77905	-73.97939	2	0.821293914
## 2273	40.72858	-73.99951	2	0.703719861
## 2275	40.73343	-73.98634	2	0.586145808
## 2277	40.77579	-73.95570	1	-0.507292883
## 2278	40.77688	-73.95616	1	-0.660139151
## 2280	40.77918	-73.98740	2	0.350997703
## 2282	40.73268	-73.98689	2	0.762506888
## 2283	40.76027	-73.99081	2	0.703719861
## 2285	40.79508	-73.94895	1	-0.683653962
## 2287	40.77883	-73.95498	2	0.644932835
## 2288	40.80257	-73.95480	1	0.821293914
## 2290	40.72339	-73.99477	1	-0.448505856
## 2292	40.77693	-73.95632	1	-0.566079909
## 2293	40.81217	-73.95303	2	0.233423650
## 2295	40.74944	-73.99631	2	3.055200917
## 2297	40.77175	-73.95742	2	-0.413233640
## 2298	40.74735	-73.97671	2	0.221666245
## 2300	40.73601	-73.98205	1	-0.718926178
## 2302	40.73243	-74.00052	2	1.044684614
## 2303	40.74213	-73.98010	1	-0.413233640
## 2305	40.73967	-73.98041	2	0.821293914
## 2307	40.80592	-73.93653	2	0.233423650
## 2308	40.81065	-73.96312	1	-0.530807693
## 2310	40.77632	-73.95458	1	-0.413233640
## 2312	40.76514	-73.98058	1	2.584904706
## 2313	40.74596	-73.98678	1	-0.001724456
## 2315	40.81022	-73.94266	3	-0.178085535
## 2317	40.73110	-74.00014	1	0.468571756
## 2318	40.79253	-73.97378	2	-0.307416993
## 2320	40.82217	-73.94149	1	-0.530807693
## 2322	40.85672	-73.93020	3	-0.354446614
## 2323	40.82621	-73.94596	1	-0.683653962
## 2325	40.85988	-73.92709	1	-1.071648336
## 2327	40.73223	-74.00355	2	0.821293914
## 2328	40.72328	-73.98926	2	1.526738231
## 2330	40.75882	-73.99168	1	-0.366204019
## 2332	40.71019	-74.01705	2	-0.001724456
## 2333	40.71031	-74.01557	2	2.290969574
## 2335	40.76867	-73.98541	2	-0.507292883
## 2337	40.77885	-73.98178	2	0.456814350
## 2338	40.74915	-73.97196	2	-0.507292883
## 2340	40.79744	-73.97098	1	-0.413233640

## 2342	40.80293	-73.95586	2	-0.119298508
## 2343	40.77627	-73.98081	2	2.290969574
## 2345	40.79082	-73.97452	2	0.115849597
## 2347	40.73293	-73.98360	2	0.703719861
## 2348	40.82654	-73.94620	2	-0.060511482
## 2350	40.72912	-74.00298	2	1.585525257
## 2352	40.79998	-73.96404	2	0.174636624
## 2353	40.73648	-74.00173	2	1.115229046
## 2355	40.83818	-73.94303	2	-0.354446614
## 2357	40.77993	-73.94939	1	-0.589594720
## 2358	40.73123	-74.00428	2	0.821293914
## 2360	40.72569	-74.00331	1	0.221666245
## 2362	40.78802	-73.97509	1	-0.765955799
## 2363	40.73380	-73.99498	2	0.821293914
## 2365	40.83602	-73.94294	1	-0.295659588
## 2367	40.76053	-73.99002	1	0.821293914
## 2368	40.78789	-73.97427	2	-0.377961425
## 2370	40.74950	-73.98313	2	0.233423650
## 2372	40.72168	-73.98876	2	1.115229046
## 2373	40.78124	-73.95227	2	-0.236872561
## 2375	40.72471	-73.98673	2	1.409164178
## 2377	40.79254	-73.97531	1	1.409164178
## 2378	40.74712	-73.97434	2	1.162258667
## 2380	40.76665	-73.98660	2	1.409164178
## 2382	40.81419	-73.94717	1	-0.589594720
## 2383	40.79887	-73.94178	1	-0.413233640
## 2385	40.77571	-73.97757	2	0.762506888
## 2387	40.70940	-74.00278	1	0.104092192
## 2388	40.72241	-73.99592	2	0.821293914
## 2390	40.72859	-73.97915	1	-0.013481861
## 2392	40.73377	-74.00570	2	0.809536509
## 2393	40.73374	-73.99760	2	0.233423650
## 2395	40.81488	-73.96058	2	-1.001103905
## 2397	40.76008	-73.99200	1	-0.542565099
## 2398	40.71672	-73.99184	2	-0.001724456
## 2400	40.74933	-73.97240	2	1.997034442
## 2402	40.82079	-73.95115	2	0.174636624
## 2403	40.79882	-73.94266	1	-0.472020667
## 2405	40.77237	-73.95536	2	-0.142813319
## 2407	40.82035	-73.95529	1	-0.366204019
## 2408	40.71957	-73.98630	2	0.115849597
## 2410	40.72509	-73.97898	2	-0.154570724
## 2412	40.85722	-73.93354	2	-0.472020667
## 2413	40.70797	-74.01693	2	1.115229046
## 2415	40.79508	-73.93256	2	0.762506888
## 2417	40.73845	-73.98373	2	0.821293914
## 2418	40.74533	-73.97956	1	-0.413233640
## 2420	40.80075	-73.96770	2	3.760645234
## 2422	40.78829	-73.97053	2	1.174016072
## 2423	40.79407	-73.97513	2	0.350997703
## 2425	40.72699	-74.00120	2	-0.236872561
## 2427	40.71185	-74.01719	2	1.115229046
## 2428	40.73371	-73.98576	1	0.233423650
## 2430	40.72777	-73.99005	2	-0.013481861

## 2432	40.82257	-73.95565	1	-0.942316878
## 2433	40.72818	-73.99810	2	0.115849597
## 2435	40.73057	-73.98726	2	0.468571756
## 2437	40.78789	-73.97679	1	-0.942316878
## 2438	40.74819	-73.98560	2	1.291590125
## 2440	40.80120	-73.95424	3	-0.648381746
## 2442	40.80311	-73.96648	1	-0.648381746
## 2443	40.73731	-73.98338	2	-0.001724456
## 2445	40.75319	-74.00159	2	1.997034442
## 2447	40.81453	-73.94807	2	1.126986451
## 2448	40.73455	-74.00614	2	-0.178085535
## 2450	40.80489	-73.95759	2	-0.178085535
## 2452	40.72023	-73.99693	1	-0.413233640
## 2453	40.80732	-73.93775	1	-0.883529852
## 2455	40.71891	-73.98592	1	0.468571756
## 2457	40.70457	-74.00733	3	-0.472020667
## 2458	40.81586	-73.94117	2	-0.013481861
## 2460	40.72924	-74.00148	1	-0.366204019
## 2462	40.83428	-73.94738	1	-0.648381746
## 2463	40.75974	-73.98660	3	-0.836500231
## 2465	40.83469	-73.93961	2	-0.589594720
## 2467	40.71399	-73.99107	2	1.997034442
## 2468	40.72087	-73.97952	1	-0.131055914
## 2470	40.77222	-73.98923	3	-0.530807693
## 2472	40.82420	-73.93789	1	-1.001103905
## 2473	40.76365	-73.94914	2	-0.060511482
## 2475	40.79408	-73.97570	1	0.468571756
## 2477	40.72525	-73.99636	2	0.809536509
## 2478	40.87279	-73.91991	2	-0.366204019
## 2480	40.81575	-73.95370	2	0.174636624
## 2482	40.71995	-73.99975	1	-0.119298508
## 2483	40.75735	-73.99603	1	-0.060511482
## 2485	40.80856	-73.94573	2	-0.001724456
## 2487	40.76965	-73.96258	2	0.350997703
## 2488	40.72651	-74.00014	2	-0.060511482
## 2490	40.82360	-73.94743	1	-0.589594720
## 2492	40.78156	-73.97796	1	-0.530807693
## 2493	40.72333	-73.98838	1	-0.765955799
## 2495	40.70989	-74.00105	2	0.221666245
## 2497	40.70499	-74.00819	2	0.233423650
## 2498	40.80738	-73.93707	2	-0.648381746
## 2500	40.73327	-73.98503	2	0.821293914
## 2502	40.74713	-73.98075	1	0.527358782
## 2503	40.72884	-73.98277	2	0.527358782
## 2505	40.82498	-73.93629	1	-0.472020667
## 2507	40.80985	-73.94348	1	-0.472020667
## 2508	40.72005	-73.98649	2	0.821293914
## 2510	40.777607	-73.98035	2	3.396165671
## 2512	40.74411	-74.00204	2	-0.178085535
## 2513	40.75550	-73.99260	1	-0.354446614
## 2515	40.76444	-73.98965	1	-0.319174398
## 2517	40.72784	-73.99104	2	1.044684614
## 2518	40.79591	-73.93316	2	-0.366204019
## 2520	40.78398	-73.97795	1	-0.131055914

## 2522	40.71906	-73.98433	1	-0.601352125
## 2523	40.80849	-73.94460	2	0.010032950
## 2525	40.71814	-73.98411	2	0.233423650
## 2527	40.73314	-74.00475	2	0.174636624
## 2528	40.80606	-73.95061	1	-0.519050288
## 2530	40.77065	-73.95064	2	-0.424991046
## 2532	40.86496	-73.92620	2	-0.354446614
## 2533	40.76169	-73.95682	2	-0.448505856
## 2535	40.73062	-73.99122	2	2.584904706
## 2537	40.74440	-73.98031	2	1.644312284
## 2538	40.73293	-73.99782	2	0.586145808
## 2540	40.73473	-73.99244	2	1.115229046
## 2542	40.84261	-73.93771	2	-0.648381746
## 2543	40.81422	-73.94844	2	-0.248629967
## 2545	40.74588	-74.00055	2	0.339240298
## 2547	40.78883	-73.97616	1	-0.495535477
## 2548	40.74724	-74.00355	2	3.113987944
## 2550	40.78278	-73.97437	2	1.409164178
## 2552	40.78627	-73.94316	1	-0.883529852
## 2553	40.74366	-73.99721	2	1.703099310
## 2555	40.72685	-73.98638	2	1.761886337
## 2557	40.73545	-74.00097	2	0.762506888
## 2558	40.77881	-73.97726	2	1.409164178
## 2560	40.70948	-74.00654	1	-0.377961425
## 2562	40.78245	-73.98163	2	-0.119298508
## 2563	40.80490	-73.96558	1	-0.483778072
## 2565	40.80936	-73.94454	2	0.221666245
## 2567	40.76842	-73.98589	2	0.233423650
## 2568	40.72156	-73.98712	1	-0.707168773
## 2570	40.76845	-73.98320	1	-0.213357751
## 2572	40.75195	-73.97191	1	1.526738231
## 2573	40.71743	-74.00623	2	0.997654993
## 2575	40.75238	-73.99450	2	-0.119298508
## 2577	40.75062	-73.98247	2	-0.648381746
## 2578	40.72184	-73.98755	2	0.409784729
## 2580	40.73341	-73.99489	2	0.221666245
## 2582	40.74305	-73.99733	2	0.350997703
## 2583	40.72833	-73.98917	1	0.809536509
## 2585	40.73045	-73.98392	2	0.809536509
## 2587	40.76051	-73.96083	2	0.174636624
## 2588	40.73046	-73.98808	2	0.233423650
## 2590	40.80161	-73.94277	1	-0.648381746
## 2592	40.78907	-73.94877	2	-0.648381746
## 2593	40.74920	-73.99847	2	0.809536509
## 2595	40.77254	-73.96193	2	-0.354446614
## 2597	40.72603	-73.98897	1	-0.025239266
## 2598	40.72627	-73.98915	1	-0.236872561
## 2600	40.73073	-73.98105	2	0.221666245
## 2602	40.78667	-73.96924	2	0.821293914
## 2603	40.74751	-74.00086	1	-0.236872561
## 2605	40.71845	-73.98600	2	-0.413233640
## 2607	40.73947	-74.00114	2	0.350997703
## 2608	40.80801	-73.95820	2	0.021790355
## 2610	40.80733	-73.95642	1	-0.860015041

## 2612	40.72390	-73.98312	2	0.233423650
## 2613	40.81588	-73.94591	1	-0.765955799
## 2615	40.73541	-73.98061	1	-0.777713204
## 2617	40.72841	-73.98231	2	0.809536509
## 2618	40.71847	-73.98246	2	0.586145808
## 2620	40.72325	-73.98336	1	-0.119298508
## 2622	40.78000	-73.97793	2	0.350997703
## 2623	40.72046	-73.99550	2	0.997654993
## 2625	40.79872	-73.94110	2	-0.119298508
## 2627	40.72902	-73.98814	2	1.385649368
## 2628	40.73858	-74.00145	2	0.586145808
## 2630	40.72478	-73.97771	2	1.174016072
## 2632	40.78749	-73.97087	2	0.527358782
## 2633	40.77126	-73.95483	3	0.456814350
## 2635	40.78568	-73.97698	2	-0.001724456
## 2637	40.76590	-73.99543	2	0.821293914
## 2638	40.77626	-73.95246	2	-0.060511482
## 2640	40.80699	-73.95937	2	-0.001724456
## 2642	40.85104	-73.93617	2	-0.236872561
## 2643	40.78802	-73.95026	2	-0.178085535
## 2645	40.73112	-73.98572	2	1.938247416
## 2647	40.76638	-73.98741	1	-0.824742825
## 2648	40.76564	-73.98013	1	3.466710102
## 2650	40.72801	-73.98336	2	1.409164178
## 2652	40.80479	-73.95290	2	-0.178085535
## 2653	40.80188	-73.96808	2	0.821293914
## 2655	40.78368	-73.94942	2	0.821293914
## 2657	40.85083	-73.94093	2	1.879460389
## 2658	40.72847	-73.98682	2	0.762506888
## 2660	40.80066	-73.95147	2	0.233423650
## 2662	40.72144	-73.99435	1	-0.295659588
## 2663	40.74635	-73.99604	2	2.702478759
## 2665	40.73974	-73.99985	2	2.290969574
## 2667	40.86626	-73.92543	1	-0.860015041
## 2668	40.72624	-73.99018	1	-0.354446614
## 2670	40.72169	-73.98773	2	-0.366204019
## 2672	40.73634	-74.00841	2	0.821293914
## 2673	40.73577	-73.98455	2	2.584904706
## 2675	40.81693	-73.95421	1	0.586145808
## 2677	40.81071	-73.94433	2	-0.178085535
## 2678	40.77481	-73.95562	2	1.409164178
## 2680	40.73014	-74.00754	1	0.339240298
## 2682	40.72421	-73.99304	2	0.762506888
## 2683	40.71331	-73.98189	2	0.527358782
## 2685	40.78962	-73.97718	2	0.409784729
## 2687	40.80521	-73.94519	2	1.997034442
## 2688	40.71777	-73.99011	2	2.290969574
## 2690	40.75531	-73.99945	2	0.762506888
## 2692	40.78834	-73.94720	1	-0.765955799
## 2693	40.81056	-73.94627	2	0.221666245
## 2695	40.71759	-73.99220	2	0.821293914
## 2697	40.80743	-73.94256	1	-0.695411367
## 2698	40.73730	-73.98392	1	1.409164178
## 2700	40.70388	-74.00633	2	0.468571756

## 2702	40.72724	-73.98639	2	0.527358782
## 2703	40.70428	-74.00952	1	-0.354446614
## 2705	40.73604	-74.00560	2	-0.001724456
## 2707	40.73474	-74.00867	2	1.409164178
## 2708	40.82257	-73.94543	2	1.997034442
## 2710	40.78878	-73.97386	2	1.115229046
## 2712	40.75005	-73.99718	2	2.232182548
## 2713	40.83714	-73.93713	1	-0.648381746
## 2715	40.80204	-73.95656	3	-0.589594720
## 2717	40.73553	-74.00546	2	1.373891962
## 2718	40.76885	-73.98254	2	0.586145808
## 2720	40.73984	-74.00060	2	0.233423650
## 2722	40.73277	-74.00413	2	0.880080940
## 2723	40.78294	-73.98474	2	0.209908839
## 2725	40.83089	-73.94125	1	-0.954074283
## 2727	40.79917	-73.93995	2	0.762506888
## 2728	40.82014	-73.95433	1	-0.389718830
## 2730	40.85181	-73.93824	1	-1.189222389
## 2732	40.86644	-73.92677	1	1.409164178
## 2733	40.73337	-73.98828	1	0.821293914
## 2735	40.72949	-73.97894	2	0.586145808
## 2737	40.72568	-73.98823	2	0.821293914
## 2738	40.85520	-73.93354	2	-0.589594720
## 2740	40.82102	-73.94633	1	-0.530807693
## 2742	40.80583	-73.95712	2	-0.366204019
## 2743	40.75381	-73.99491	2	0.880080940
## 2745	40.84769	-73.93512	1	-0.648381746
## 2747	40.80985	-73.93919	2	-0.260387372
## 2748	40.79407	-73.97679	3	-0.883529852
## 2750	40.75506	-73.99622	1	-0.013481861
## 2752	40.73033	-74.00284	1	-0.236872561
## 2753	40.82083	-73.95436	1	-0.718926178
## 2755	40.75856	-73.99569	1	-0.060511482
## 2757	40.75811	-73.99073	2	-0.272144777
## 2758	40.72082	-73.98952	1	-0.483778072
## 2760	40.75186	-73.98557	2	3.760645234
## 2762	40.81473	-73.96039	2	0.350997703
## 2763	40.72809	-73.98188	2	1.985277037
## 2765	40.80747	-73.96030	2	0.174636624
## 2767	40.86821	-73.92128	1	-0.636624341
## 2768	40.82158	-73.95330	1	-0.765955799
## 2770	40.76612	-73.99324	2	-0.060511482
## 2772	40.75835	-73.99286	1	0.821293914
## 2773	40.78555	-73.95311	2	0.586145808
## 2775	40.72523	-73.97999	2	3.172774970
## 2777	40.72556	-73.98504	2	0.880080940
## 2778	40.75920	-73.98902	2	0.233423650
## 2780	40.82863	-73.94358	2	0.292210676
## 2782	40.78882	-73.94869	1	-0.742440988
## 2783	40.71205	-73.99463	1	-0.119298508
## 2785	40.72887	-73.98633	2	1.044684614
## 2787	40.83653	-73.94277	2	2.584904706
## 2788	40.79038	-73.94412	2	0.468571756
## 2790	40.77941	-73.94862	1	1.409164178

## 2792	40.72764	-73.98748	1	-0.601352125
## 2793	40.82458	-73.95223	2	-0.354446614
## 2795	40.82351	-73.94047	1	-0.530807693
## 2797	40.77439	-73.94965	2	1.397406773
## 2798	40.73173	-74.00904	2	3.760645234
## 2800	40.79293	-73.97126	2	0.809536509
## 2802	40.73346	-73.98216	2	0.115849597
## 2803	40.73390	-73.98548	2	0.644932835
## 2805	40.72600	-73.97773	2	-0.354446614
## 2807	40.70581	-74.00948	1	-0.472020667
## 2808	40.80797	-73.95181	2	-0.295659588
## 2810	40.78628	-73.97264	1	-0.354446614
## 2812	40.72639	-73.98827	2	-0.060511482
## 2813	40.80649	-73.95225	1	-0.542565099
## 2815	40.82570	-73.93786	1	-0.765955799
## 2817	40.76160	-73.99677	2	1.115229046
## 2818	40.73533	-73.98384	2	0.104092192
## 2820	40.71399	-73.99744	2	0.115849597
## 2822	40.76198	-73.98718	2	2.584904706
## 2823	40.76025	-73.99555	1	-0.483778072
## 2825	40.76904	-73.95902	2	0.350997703
## 2827	40.71566	-73.99076	2	0.691962456
## 2828	40.72921	-73.98631	1	0.115849597
## 2830	40.72570	-73.97950	2	1.174016072
## 2832	40.81040	-73.95977	2	0.468571756
## 2833	40.81995	-73.94607	1	-0.707168773
## 2835	40.76793	-73.98817	1	-0.601352125
## 2837	40.80382	-73.94476	2	1.703099310
## 2838	40.78512	-73.94409	1	-0.942316878
## 2840	40.77388	-73.95343	2	-0.366204019
## 2842	40.73814	-74.00047	2	0.809536509
## 2843	40.72632	-74.00749	2	2.996413891
## 2845	40.81360	-73.94999	2	-0.589594720
## 2847	40.85658	-73.92656	1	-0.707168773
## 2848	40.80126	-73.95777	1	-0.707168773
## 2850	40.77345	-73.95848	1	-0.213357751
## 2852	40.77340	-73.95357	2	-0.366204019
## 2853	40.74400	-73.99070	2	-0.236872561
## 2855	40.71350	-73.98800	2	1.409164178
## 2857	40.84420	-73.93721	1	-0.824742825
## 2858	40.74128	-73.98428	1	-0.413233640
## 2860	40.79863	-73.93795	2	0.821293914
## 2862	40.72119	-73.98021	1	-0.119298508
## 2863	40.77429	-73.95628	2	1.232803099
## 2865	40.82502	-73.94404	1	-0.472020667
## 2867	40.75614	-73.99341	2	1.115229046
## 2868	40.79912	-73.94187	1	0.233423650
## 2870	40.74512	-73.98041	2	0.821293914
## 2872	40.78171	-73.94617	2	-0.366204019
## 2873	40.79973	-73.95541	2	-0.119298508
## 2875	40.71585	-73.98982	2	0.468571756
## 2877	40.79973	-73.97110	2	0.350997703
## 2878	40.81455	-73.94471	2	-0.060511482
## 2880	40.78657	-73.97161	2	0.233423650

## 2882	40.77065	-73.95702	1	0.527358782
## 2883	40.73767	-74.00650	2	1.409164178
## 2885	40.81169	-73.94301	1	-0.648381746
## 2887	40.71395	-74.00545	2	0.809536509
## 2888	40.72717	-73.99100	1	-0.883529852
## 2890	40.72874	-74.00088	1	-0.413233640
## 2892	40.81088	-73.95774	1	-0.942316878
## 2893	40.84749	-73.93910	1	-1.059890931
## 2895	40.82784	-73.93704	2	-0.354446614
## 2897	40.81509	-73.96019	2	-0.119298508
## 2898	40.76339	-73.95832	2	0.280453271
## 2900	40.72649	-73.98284	2	1.409164178
## 2902	40.79774	-73.93244	1	-0.648381746
## 2903	40.83301	-73.93940	2	1.115229046
## 2905	40.72704	-74.00558	2	0.821293914
## 2907	40.82501	-73.95373	1	-0.060511482
## 2908	40.80149	-73.96458	1	-0.707168773
## 2910	40.74811	-73.97298	2	-0.236872561
## 2912	40.76244	-73.96215	2	1.997034442
## 2913	40.72229	-73.98730	1	-0.707168773
## 2915	40.78032	-73.95249	2	0.821293914
## 2917	40.78143	-73.98321	2	1.409164178
## 2918	40.82610	-73.95074	1	-0.942316878
## 2920	40.72494	-74.00839	1	-0.354446614
## 2922	40.79588	-73.93646	1	-0.589594720
## 2923	40.73196	-73.98230	2	0.797779103
## 2925	40.85198	-73.93108	1	-1.059890931
## 2927	40.72781	-73.97646	2	3.172774970
## 2928	40.77871	-73.97733	2	1.409164178
## 2930	40.76022	-73.97440	2	1.232803099
## 2932	40.81651	-73.94319	1	-0.836500231
## 2933	40.76370	-73.98985	1	-0.765955799
## 2935	40.79202	-73.97947	2	0.527358782
## 2937	40.75740	-73.99361	2	-0.366204019
## 2938	40.77321	-73.95175	1	-0.472020667
## 2940	40.72405	-73.99518	2	0.221666245
## 2942	40.72879	-73.97959	1	-0.236872561
## 2943	40.72230	-73.98128	2	2.173395521
## 2945	40.79637	-73.93371	1	-0.836500231
## 2947	40.73877	-73.98707	2	1.409164178
## 2948	40.82291	-73.94171	2	-0.295659588
## 2950	40.81004	-73.95231	1	-0.824742825
## 2952	40.83729	-73.94372	2	-0.530807693
## 2953	40.74439	-73.98329	2	1.703099310
## 2955	40.73245	-74.00275	2	1.409164178
## 2957	40.75511	-73.99247	1	0.527358782
## 2958	40.74156	-73.97968	1	-0.413233640
## 2960	40.75456	-73.96626	2	0.409784729
## 2962	40.82775	-73.94313	2	-0.589594720
## 2963	40.79331	-73.97537	2	0.221666245
## 2965	40.75244	-73.96619	2	-0.060511482
## 2967	40.75427	-73.96689	2	-0.530807693
## 2968	40.76497	-73.98854	2	-0.413233640
## 2970	40.72771	-73.98549	1	-0.354446614

## 2972	40.76557	-73.98745	2	0.339240298
## 2973	40.79450	-73.94298	2	-0.472020667
## 2975	40.76172	-73.96074	2	0.644932835
## 2977	40.84359	-73.94134	1	-1.059890931
## 2978	40.79584	-73.96381	3	-1.118677957
## 2980	40.72503	-73.97696	1	-0.707168773
## 2982	40.74246	-73.97670	1	-0.366204019
## 2983	40.76609	-73.98038	2	0.821293914
## 2985	40.72812	-73.99983	2	0.586145808
## 2987	40.72229	-73.98913	2	1.115229046
## 2988	40.72351	-73.99627	2	-0.354446614
## 2990	40.82899	-73.95024	1	-0.589594720
## 2992	40.77692	-73.97977	1	-0.530807693
## 2993	40.72912	-73.97624	2	0.527358782
## 2995	40.70465	-74.00773	1	0.233423650
## 2997	40.76451	-73.98820	1	0.821293914
## 2998	40.80107	-73.96065	2	-0.942316878
## 3000	40.71942	-73.98605	2	0.821293914
## 3002	40.74583	-74.00405	2	0.821293914
## 3003	40.72551	-73.98542	2	1.526738231
## 3005	40.72829	-73.98072	2	-0.236872561
## 3007	40.76719	-73.98533	2	-0.389718830
## 3008	40.777904	-73.98899	1	-0.472020667
## 3010	40.76203	-73.96183	1	-0.001724456
## 3012	40.78866	-73.96908	1	-0.472020667
## 3013	40.86648	-73.92754	2	-0.648381746
## 3015	40.78343	-73.94764	1	-0.424991046
## 3017	40.76736	-73.98383	2	0.586145808
## 3018	40.72011	-73.99465	2	0.233423650
## 3020	40.71633	-73.99133	2	0.115849597
## 3022	40.80732	-73.93972	2	-0.060511482
## 3023	40.71951	-73.98449	2	-0.354446614
## 3025	40.77669	-73.97696	2	-0.060511482
## 3027	40.73933	-74.00313	2	0.339240298
## 3028	40.79527	-73.96486	2	1.115229046
## 3030	40.73055	-74.00070	2	0.586145808
## 3032	40.75163	-73.97220	1	-0.472020667
## 3033	40.72285	-73.99409	2	1.409164178
## 3035	40.81964	-73.94680	2	-0.248629967
## 3037	40.82191	-73.95736	2	-0.248629967
## 3038	40.71579	-73.99253	1	-0.119298508
## 3040	40.72969	-73.99950	2	0.527358782
## 3042	40.78286	-73.98339	2	1.585525257
## 3043	40.78141	-73.98445	2	-0.001724456
## 3045	40.80739	-73.95159	2	0.233423650
## 3047	40.71806	-73.98493	1	-0.236872561
## 3048	40.73037	-73.98268	2	0.527358782
## 3050	40.77716	-73.94779	2	1.409164178
## 3052	40.74244	-73.99854	2	0.527358782
## 3053	40.78130	-73.98319	2	0.880080940
## 3055	40.80315	-73.94017	1	-0.942316878
## 3057	40.74141	-73.99996	2	0.527358782
## 3058	40.72820	-74.00165	1	-0.530807693
## 3060	40.72139	-73.99688	2	2.537875085

## 3062	40.71763	-73.98359	2	0.233423650
## 3063	40.81831	-73.93833	2	-0.530807693
## 3065	40.72007	-73.98775	1	-0.836500231
## 3067	40.79432	-73.97637	1	0.527358782
## 3068	40.71959	-73.99190	2	0.221666245
## 3070	40.81561	-73.95264	1	-0.483778072
## 3072	40.78936	-73.97502	1	-0.613109530
## 3073	40.71316	-73.99160	2	0.586145808
## 3075	40.72091	-73.98475	2	1.997034442
## 3077	40.72101	-74.00189	1	-0.001724456
## 3078	40.73721	-73.98887	2	0.303968082
## 3080	40.76543	-73.99154	1	-0.354446614
## 3082	40.79399	-73.94255	1	-0.542565099
## 3083	40.71904	-73.98962	1	-0.718926178
## 3085	40.81007	-73.94007	2	0.468571756
## 3087	40.79967	-73.95444	1	-0.413233640
## 3088	40.73189	-73.99470	2	2.878839838
## 3090	40.79492	-73.94087	1	-0.542565099
## 3092	40.70760	-74.01367	1	-0.060511482
## 3093	40.75765	-73.96466	2	0.057062571
## 3095	40.77569	-73.95721	2	0.233423650
## 3097	40.77546	-73.95165	2	0.233423650
## 3098	40.77537	-73.95029	2	0.456814350
## 3100	40.71732	-74.00981	2	2.584904706
## 3102	40.71068	-74.00713	2	1.879460389
## 3103	40.79641	-73.94847	2	1.162258667
## 3105	40.78147	-73.98315	2	1.409164178
## 3107	40.76193	-73.94942	1	-0.765955799
## 3108	40.80535	-73.95407	1	-0.648381746
## 3110	40.71723	-73.99164	1	0.233423650
## 3112	40.77209	-73.95083	1	-0.589594720
## 3113	40.81549	-73.95278	3	-0.589594720
## 3115	40.73273	-73.98969	1	0.057062571
## 3117	40.71848	-73.99549	1	-0.589594720
## 3118	40.76173	-73.96183	2	1.397406773
## 3120	40.79213	-73.94974	2	0.233423650
## 3122	40.83554	-73.93849	1	-0.589594720
## 3123	40.84470	-73.93369	1	-0.624866936
## 3125	40.73096	-73.98376	2	0.104092192
## 3127	40.80858	-73.95132	1	0.550873593
## 3128	40.71182	-74.00497	2	0.233423650
## 3130	40.77636	-73.95099	2	0.233423650
## 3132	40.82846	-73.94393	2	0.527358782
## 3133	40.777421	-73.95361	2	1.409164178
## 3135	40.78151	-73.94775	2	-0.366204019
## 3137	40.75928	-73.99036	2	0.586145808
## 3138	40.76645	-73.98539	2	0.233423650
## 3140	40.76996	-73.95875	2	1.350377152
## 3142	40.78648	-73.96920	1	0.057062571
## 3143	40.76332	-73.98840	1	0.233423650
## 3145	40.75587	-73.96856	2	-0.178085535
## 3147	40.79678	-73.96545	1	-0.601352125
## 3148	40.80657	-73.95532	2	0.115849597
## 3150	40.80516	-73.94299	2	-0.154570724

## 3152	40.70663	-74.01170	1	0.468571756
## 3153	40.82383	-73.94639	1	-0.765955799
## 3155	40.74170	-73.99780	2	0.057062571
## 3157	40.82801	-73.95167	1	-1.001103905
## 3158	40.76064	-73.99112	2	0.809536509
## 3160	40.76761	-73.95391	2	0.762506888
## 3162	40.81502	-73.95460	2	-0.236872561
## 3163	40.82306	-73.94688	1	-0.789470609
## 3165	40.80173	-73.96625	1	-0.707168773
## 3167	40.79148	-73.97828	2	0.327482892
## 3168	40.77339	-73.95421	2	-0.366204019
## 3170	40.72950	-73.98623	2	1.174016072
## 3172	40.74041	-73.98176	2	1.115229046
## 3173	40.80302	-73.93476	2	-0.178085535
## 3175	40.76802	-73.95653	2	0.233423650
## 3177	40.76201	-73.96084	2	0.233423650
## 3178	40.75900	-73.97010	1	-0.883529852
## 3180	40.79462	-73.94923	2	1.397406773
## 3182	40.75239	-73.97070	2	1.867702984
## 3183	40.77828	-73.94768	2	-0.648381746
## 3185	40.85450	-73.93169	3	-0.942316878
## 3187	40.80177	-73.95710	2	-0.178085535
## 3188	40.72878	-73.97747	1	-0.824742825
## 3190	40.81617	-73.95371	1	-0.942316878
## 3192	40.72490	-73.98852	2	0.233423650
## 3193	40.76578	-73.95509	1	-0.413233640
## 3195	40.77484	-73.98659	1	-0.001724456
## 3197	40.76771	-73.95844	2	-0.236872561
## 3198	40.74084	-73.98008	2	0.774264293
## 3200	40.73279	-73.98746	2	0.115849597
## 3202	40.74610	-73.98632	2	1.773643742
## 3203	40.73765	-73.98366	3	-0.765955799
## 3205	40.73933	-73.99879	2	1.162258667
## 3207	40.73885	-73.99701	1	-0.248629967
## 3208	40.85341	-73.93181	2	-1.095163147
## 3210	40.72956	-73.98166	2	0.350997703
## 3212	40.83299	-73.94527	1	0.233423650
## 3213	40.80446	-73.95786	1	-0.765955799
## 3215	40.81186	-73.94019	2	-0.060511482
## 3217	40.78866	-73.95461	2	-0.236872561
## 3218	40.73627	-73.98020	2	0.339240298
## 3220	40.74326	-74.00004	2	0.809536509
## 3222	40.80249	-73.93463	1	-0.895287257
## 3223	40.72578	-73.99998	1	1.409164178
## 3225	40.75045	-73.98456	2	0.821293914
## 3227	40.73433	-74.00588	2	1.409164178
## 3228	40.87206	-73.92946	1	-0.836500231
## 3230	40.84522	-73.93952	1	-0.954074283
## 3232	40.79312	-73.94115	2	-0.236872561
## 3233	40.74205	-73.97997	2	1.409164178
## 3235	40.73554	-73.98855	2	0.456814350
## 3237	40.77993	-73.94879	1	-0.483778072
## 3238	40.83242	-73.93931	1	-1.200979794
## 3240	40.80226	-73.94506	1	-0.707168773

## 3242	40.73117	-73.98335	2	-0.001724456
## 3243	40.82313	-73.94982	2	0.644932835
## 3245	40.75755	-73.99305	1	-0.366204019
## 3247	40.72755	-73.97876	1	-0.354446614
## 3248	40.73879	-73.97994	1	0.045305165
## 3250	40.76181	-73.96127	2	-0.178085535
## 3252	40.78026	-73.95290	2	-0.236872561
## 3253	40.72593	-74.00185	2	0.233423650
## 3255	40.74352	-73.97859	2	0.527358782
## 3257	40.72937	-74.00125	2	0.068819976
## 3258	40.81663	-73.95315	1	-0.883529852
## 3260	40.79963	-73.94628	2	-0.319174398
## 3262	40.76615	-73.98790	2	0.174636624
## 3263	40.76387	-73.99039	2	0.245181055
## 3265	40.76494	-73.98810	2	0.644932835
## 3267	40.81574	-73.94877	1	-0.589594720
## 3268	40.76909	-73.98639	1	-0.354446614
## 3270	40.82205	-73.94523	1	-0.824742825
## 3272	40.76272	-73.96775	2	0.456814350
## 3273	40.77045	-73.95564	1	-0.589594720
## 3275	40.76240	-73.99136	2	1.409164178
## 3277	40.74467	-73.97202	1	-0.354446614
## 3278	40.79582	-73.94790	2	1.938247416
## 3280	40.73426	-74.00525	2	0.809536509
## 3282	40.80843	-73.93722	1	-0.589594720
## 3283	40.73174	-74.00309	2	0.174636624
## 3285	40.82056	-73.95661	2	1.997034442
## 3287	40.77361	-73.97908	2	0.586145808
## 3288	40.71705	-73.99668	1	-0.801228015
## 3290	40.84347	-73.93406	2	-0.366204019
## 3292	40.80177	-73.93532	2	-0.354446614
## 3293	40.78257	-73.97681	2	0.233423650
## 3295	40.78182	-73.98492	2	0.115849597
## 3297	40.73170	-73.98272	1	-0.366204019
## 3298	40.72681	-73.97994	2	1.409164178
## 3300	40.84898	-73.93642	1	-0.836500231
## 3302	40.77122	-73.98135	2	0.186394029
## 3303	40.73097	-73.98178	2	0.350997703
## 3305	40.80015	-73.94043	2	-0.354446614
## 3307	40.81608	-73.93970	1	-0.765955799
## 3308	40.76324	-73.96251	1	-0.648381746
## 3310	40.85769	-73.93374	3	-0.119298508
## 3312	40.81251	-73.95102	2	-0.354446614
## 3313	40.82778	-73.94884	1	-0.707168773
## 3315	40.82753	-73.94602	1	-0.824742825
## 3317	40.80672	-73.95404	1	-0.589594720
## 3318	40.72918	-73.99882	2	0.821293914
## 3320	40.72092	-73.99386	2	3.172774970
## 3322	40.72795	-73.98539	1	-0.483778072
## 3323	40.72805	-73.98415	1	-0.648381746
## 3325	40.74406	-73.99551	2	1.174016072
## 3327	40.78913	-73.97021	1	-0.060511482
## 3328	40.82855	-73.94745	1	-0.883529852
## 3330	40.74197	-73.98373	2	0.927110562

## 3332	40.76873	-73.95487	2	0.8444808725
## 3333	40.71286	-73.98849	3	-0.589594720
## 3335	40.83481	-73.94317	1	-0.566079909
## 3337	40.77618	-73.95627	1	0.762506888
## 3338	40.79331	-73.94080	2	0.350997703
## 3340	40.77789	-73.95731	1	0.762506888
## 3342	40.78974	-73.97018	2	1.703099310
## 3343	40.83514	-73.94334	1	-0.613109530
## 3345	40.74924	-73.99784	2	0.409784729
## 3347	40.80663	-73.94991	1	-0.472020667
## 3348	40.72400	-73.98905	1	0.527358782
## 3350	40.70909	-74.00579	2	0.233423650
## 3352	40.72322	-73.98283	2	0.762506888
## 3353	40.85494	-73.93179	1	-0.648381746
## 3355	40.83891	-73.93758	1	-1.001103905
## 3357	40.77937	-73.97805	2	-0.119298508
## 3358	40.77110	-73.95627	2	-0.142813319
## 3360	40.76646	-73.98805	2	0.644932835
## 3362	40.78301	-73.95085	2	0.409784729
## 3363	40.77276	-73.95557	2	0.139364408
## 3365	40.72019	-73.99297	2	0.233423650
## 3367	40.77737	-73.98355	2	1.291590125
## 3368	40.85580	-73.93025	2	-0.354446614
## 3370	40.70854	-73.99992	1	-0.707168773
## 3372	40.72217	-73.99481	1	-0.119298508
## 3373	40.77556	-73.98416	2	1.338619746
## 3375	40.78519	-73.97032	2	0.233423650
## 3377	40.75437	-73.99334	1	-0.366204019
## 3378	40.82171	-73.95515	1	-0.942316878
## 3380	40.75858	-73.96342	2	0.821293914
## 3382	40.73894	-73.98049	2	0.233423650
## 3383	40.80317	-73.96338	1	-0.942316878
## 3385	40.74415	-73.97322	1	0.409784729
## 3387	40.72386	-74.00462	2	1.350377152
## 3388	40.81732	-73.94757	1	-0.765955799
## 3390	40.77260	-73.97928	3	-0.730683583
## 3392	40.76525	-73.98953	2	0.762506888
## 3393	40.72915	-73.98866	2	1.703099310
## 3395	40.72478	-73.97550	2	0.350997703
## 3397	40.79088	-73.94597	1	-0.354446614
## 3398	40.79082	-73.94615	3	-0.942316878
## 3400	40.84347	-73.93978	1	0.821293914
## 3402	40.77107	-73.95517	2	-0.354446614
## 3403	40.70471	-74.00817	1	0.233423650
## 3405	40.71890	-73.99182	2	-0.060511482
## 3407	40.74157	-74.00141	2	1.291590125
## 3408	40.82610	-73.95139	1	-0.765955799
## 3410	40.77647	-73.98211	2	0.527358782
## 3412	40.80630	-73.96268	2	0.233423650
## 3413	40.77907	-73.95211	2	0.115849597
## 3415	40.82682	-73.94634	1	-0.166328130
## 3417	40.82505	-73.95294	2	0.350997703
## 3418	40.77155	-73.94763	1	0.233423650
## 3420	40.80906	-73.93686	1	-0.648381746

## 3422	40.72956	-73.98613	2	-0.566079909
## 3423	40.73379	-74.00422	1	-0.472020667
## 3425	40.71490	-73.99976	2	0.574388403
## 3427	40.82862	-73.94706	1	-0.519050288
## 3428	40.77554	-73.95141	2	0.409784729
## 3430	40.71832	-73.98325	2	-0.060511482
## 3432	40.74302	-74.00015	2	0.386269919
## 3433	40.80340	-73.96832	3	-1.059890931
## 3435	40.85380	-73.93197	3	-1.001103905
## 3437	40.73172	-73.98874	2	1.056442020
## 3438	40.76813	-73.95354	2	0.162879218
## 3440	40.76799	-73.98644	1	-0.812985420
## 3442	40.78935	-73.94788	2	0.574388403
## 3443	40.74621	-73.99119	2	1.409164178
## 3445	40.72741	-74.00178	1	0.139364408
## 3447	40.76738	-73.98466	2	0.821293914
## 3448	40.72951	-73.99203	2	0.574388403
## 3450	40.76042	-73.99021	2	1.997034442
## 3452	40.72934	-74.00276	2	1.997034442
## 3453	40.78170	-73.94613	1	-0.530807693
## 3455	40.72634	-73.99320	2	2.349756601
## 3457	40.80947	-73.95392	2	1.997034442
## 3458	40.87093	-73.91737	2	0.527358782
## 3460	40.74717	-73.99179	1	-0.295659588
## 3462	40.79092	-73.97426	2	0.644932835
## 3463	40.75709	-73.99545	2	-0.707168773
## 3465	40.71769	-73.98801	1	-0.060511482
## 3467	40.82846	-73.94492	1	-0.765955799
## 3468	40.73235	-73.98646	2	4.336758093
## 3470	40.82442	-73.95203	1	-0.942316878
## 3472	40.72753	-73.98749	1	1.409164178
## 3473	40.72425	-73.98866	2	0.233423650
## 3475	40.72646	-73.98685	2	0.115849597
## 3477	40.83741	-73.93928	1	-0.765955799
## 3478	40.80991	-73.94058	2	-0.530807693
## 3480	40.83413	-73.94297	1	-0.354446614
## 3482	40.77793	-73.96020	2	0.468571756
## 3483	40.82875	-73.94371	1	-0.730683583
## 3485	40.76257	-73.98574	1	-0.824742825
## 3487	40.84035	-73.94089	2	-0.413233640
## 3488	40.72816	-73.98843	1	0.386269919
## 3490	40.85882	-73.92897	2	-0.765955799
## 3492	40.71111	-74.01567	2	0.762506888
## 3493	40.78234	-73.94907	1	-0.248629967
## 3495	40.72966	-73.99787	2	-0.119298508
## 3497	40.84411	-73.93764	1	-1.001103905
## 3498	40.79816	-73.94111	2	0.221666245
## 3500	40.72080	-73.98670	2	2.479088059
## 3502	40.80465	-73.95827	1	-0.942316878
## 3503	40.70763	-74.00778	1	-0.354446614
## 3505	40.72004	-73.98896	2	1.491466015
## 3507	40.75749	-73.99657	2	0.586145808
## 3508	40.80386	-73.95369	2	-0.295659588
## 3510	40.75863	-73.98472	1	-0.295659588

## 3512	40.76017	-73.99198	2	0.821293914
## 3513	40.77526	-73.95075	2	0.468571756
## 3515	40.79842	-73.93549	2	-0.472020667
## 3517	40.77724	-73.95883	2	-0.648381746
## 3518	40.76378	-73.98847	2	0.821293914
## 3520	40.80226	-73.94976	1	-0.342689209
## 3522	40.71974	-73.98549	1	-0.483778072
## 3523	40.75102	-73.97447	2	0.586145808
## 3525	40.72337	-73.99724	2	0.762506888
## 3527	40.74089	-74.00181	2	1.409164178
## 3528	40.75054	-73.99683	2	0.233423650
## 3530	40.72716	-74.00320	2	1.997034442
## 3532	40.71869	-73.98282	1	-0.648381746
## 3533	40.78926	-73.96989	2	0.797779103
## 3535	40.74257	-73.98207	2	1.115229046
## 3537	40.82366	-73.94610	1	-0.942316878
## 3538	40.73405	-74.00283	2	1.409164178
## 3540	40.76881	-73.98832	2	0.821293914
## 3542	40.76329	-73.99554	2	-0.001724456
## 3543	40.77253	-73.95789	2	-0.119298508
## 3545	40.77804	-73.97611	2	0.938867967
## 3547	40.81192	-73.95239	1	-0.601352125
## 3548	40.82135	-73.95521	2	-0.648381746
## 3550	40.74174	-73.97878	1	-0.178085535
## 3552	40.76877	-73.98460	2	-0.507292883
## 3553	40.83776	-73.94087	1	-0.765955799
## 3555	40.71546	-73.99226	1	-0.648381746
## 3557	40.85901	-73.92874	2	-0.601352125
## 3558	40.72182	-73.99263	2	-0.366204019
## 3560	40.79422	-73.97565	1	-0.472020667
## 3562	40.83562	-73.94581	1	-0.472020667
## 3563	40.81422	-73.95199	1	-0.648381746
## 3565	40.78428	-73.94872	1	-0.530807693
## 3567	40.80686	-73.95540	2	0.809536509
## 3568	40.73697	-73.98074	2	0.233423650
## 3570	40.72342	-73.99292	2	-0.413233640
## 3572	40.80301	-73.96644	1	-0.707168773
## 3573	40.82337	-73.94529	2	0.292210676
## 3575	40.76449	-73.96169	1	-0.295659588
## 3577	40.74409	-73.97145	2	1.409164178
## 3578	40.77550	-73.94750	1	-0.001724456
## 3580	40.78078	-73.97466	2	0.703719861
## 3582	40.80373	-73.95523	2	-0.295659588
## 3583	40.72587	-73.98244	2	-0.060511482
## 3585	40.76288	-73.96084	2	-0.001724456
## 3587	40.78354	-73.94699	1	-0.472020667
## 3588	40.80461	-73.96401	1	-0.824742825
## 3590	40.72745	-73.98362	1	-0.648381746
## 3592	40.80146	-73.96132	1	-0.942316878
## 3593	40.85457	-73.94062	1	-0.472020667
## 3595	40.76295	-73.98435	2	1.174016072
## 3597	40.71750	-73.98435	1	-0.413233640
## 3598	40.75179	-73.98606	1	-0.530807693
## 3600	40.75691	-73.99840	1	-0.366204019

## 3602	40.71296	-74.00982	2	1.997034442
## 3603	40.73674	-74.00832	2	0.821293914
## 3605	40.78042	-73.95128	2	0.233423650
## 3607	40.77220	-73.98119	2	1.714856715
## 3608	40.84656	-73.94143	2	0.809536509
## 3610	40.73112	-73.98364	2	1.174016072
## 3612	40.77357	-73.95193	2	1.997034442
## 3613	40.72232	-73.98289	2	-0.119298508
## 3615	40.72340	-73.99967	2	-1.342068658
## 3617	40.84773	-73.93346	1	-1.001103905
## 3618	40.71959	-73.98984	1	-0.824742825
## 3620	40.72652	-73.99259	2	1.997034442
## 3622	40.77032	-73.96161	2	0.527358782
## 3623	40.75815	-73.99374	3	-0.001724456
## 3625	40.73623	-74.00036	2	0.903595751
## 3627	40.72526	-73.99201	2	0.644932835
## 3628	40.85310	-73.94091	2	-0.060511482
## 3630	40.79466	-73.96623	2	0.127607002
## 3632	40.81356	-73.94807	2	0.174636624
## 3633	40.75731	-73.98479	1	-0.119298508
## 3635	40.72786	-73.98800	1	0.468571756
## 3637	40.81412	-73.95185	2	0.115849597
## 3638	40.77072	-73.95424	1	-0.942316878
## 3640	40.73109	-73.99411	2	0.703719861
## 3642	40.72514	-73.98960	2	1.997034442
## 3643	40.73854	-74.00147	2	1.938247416
## 3645	40.74169	-73.99330	1	-0.413233640
## 3647	40.80581	-73.95000	1	-0.718926178
## 3648	40.72297	-73.98604	1	0.703719861
## 3650	40.72872	-73.98043	2	1.397406773
## 3652	40.79159	-73.97809	2	-0.001724456
## 3653	40.74853	-73.98192	2	2.290969574
## 3655	40.78185	-73.97844	2	-0.366204019
## 3657	40.85111	-73.93325	1	-0.495535477
## 3658	40.79660	-73.97154	2	0.703719861
## 3660	40.72917	-73.98223	2	1.808915958
## 3662	40.82159	-73.95013	1	-1.342068658
## 3663	40.74832	-73.98814	2	0.703719861
## 3665	40.76521	-73.98776	2	-0.354446614
## 3667	40.78576	-73.97629	2	0.433299540
## 3668	40.76525	-73.98895	1	0.115849597
## 3670	40.71818	-73.99350	2	1.397406773
## 3672	40.75506	-73.96887	2	1.409164178
## 3673	40.71213	-73.99661	1	-0.413233640
## 3675	40.78587	-73.97181	2	0.821293914
## 3677	40.87494	-73.91057	2	-1.059890931
## 3678	40.74025	-73.98323	1	-0.777713204
## 3680	40.74068	-74.00346	2	4.289728472
## 3682	40.73249	-73.98870	1	0.821293914
## 3683	40.71880	-73.99452	1	-0.354446614
## 3685	40.77724	-73.97699	2	-0.119298508
## 3687	40.71399	-73.99707	2	2.878839838
## 3688	40.83001	-73.94815	1	-0.707168773
## 3690	40.71193	-73.99454	1	-0.366204019

## 3692	40.78017	-73.98317	2	0.233423650
## 3693	40.83900	-73.94543	2	-0.178085535
## 3695	40.80645	-73.95261	2	-0.354446614
## 3697	40.74583	-73.97834	2	0.350997703
## 3698	40.71870	-73.99043	2	0.644932835
## 3700	40.71489	-73.99168	1	-0.589594720
## 3702	40.77883	-73.97494	1	0.350997703
## 3703	40.78885	-73.98013	2	-0.472020667
## 3705	40.76525	-73.99056	2	1.667827094
## 3707	40.75674	-73.99774	1	-0.013481861
## 3708	40.80749	-73.93803	1	-0.942316878
## 3710	40.70949	-74.01379	2	0.962382777
## 3712	40.78125	-73.94851	2	1.409164178
## 3713	40.76313	-73.96192	2	0.762506888
## 3715	40.76235	-73.96260	2	3.748887829
## 3717	40.71762	-73.99328	1	-0.483778072
## 3718	40.72846	-74.00113	2	0.586145808
## 3720	40.74077	-73.98085	2	0.821293914
## 3722	40.75545	-73.96896	1	-0.060511482
## 3723	40.80755	-73.94141	2	0.292210676
## 3725	40.72672	-73.98514	1	-0.178085535
## 3727	40.73235	-73.98392	1	1.938247416
## 3728	40.84441	-73.94218	1	-1.059890931
## 3730	40.84405	-73.93796	1	-0.942316878
## 3732	40.82948	-73.94876	1	-0.883529852
## 3733	40.70516	-74.00798	2	1.703099310
## 3735	40.71864	-73.99753	1	-0.530807693
## 3737	40.80182	-73.94014	1	-0.295659588
## 3738	40.71095	-74.00912	2	3.172774970
## 3740	40.86743	-73.92643	2	-0.119298508
## 3742	40.72764	-74.00076	2	4.336758093
## 3743	40.74026	-73.99746	2	0.233423650
## 3745	40.72986	-73.99468	1	-0.648381746
## 3747	40.72174	-73.98418	1	-0.566079909
## 3748	40.77025	-73.95491	2	0.821293914
## 3750	40.74696	-73.97670	2	0.809536509
## 3752	40.80571	-73.95429	2	0.233423650
## 3753	40.72275	-73.98525	2	2.925869459
## 3755	40.80454	-73.95133	1	-0.472020667
## 3757	40.79324	-73.97489	2	0.115849597
## 3758	40.79726	-73.93290	2	-0.354446614
## 3760	40.77499	-73.94875	2	-0.119298508
## 3762	40.81698	-73.95259	2	-0.178085535
## 3763	40.72152	-73.97761	2	-0.060511482
## 3765	40.73742	-73.98052	2	1.397406773
## 3767	40.75055	-73.98679	2	2.467330653
## 3768	40.79909	-73.96020	1	-0.472020667
## 3770	40.72496	-73.98289	2	0.750749482
## 3772	40.74218	-73.99963	2	2.584904706
## 3773	40.82553	-73.93875	1	-0.789470609
## 3775	40.73399	-73.99305	2	0.644932835
## 3777	40.81781	-73.93470	2	-0.648381746
## 3778	40.73626	-74.00181	2	1.573767852
## 3780	40.71908	-73.99446	2	0.233423650

## 3782	40.85509	-73.93744	2	0.233423650
## 3783	40.77910	-73.98565	2	0.527358782
## 3785	40.71010	-74.01721	2	0.762506888
## 3787	40.72872	-73.98639	2	0.292210676
## 3788	40.72854	-73.98118	1	-0.354446614
## 3790	40.82033	-73.95632	2	-0.119298508
## 3792	40.76539	-73.97897	1	0.586145808
## 3793	40.86719	-73.92679	2	-0.001724456
## 3795	40.72101	-73.98905	2	0.115849597
## 3797	40.81346	-73.94458	2	0.550873593
## 3798	40.73086	-74.00507	1	-0.295659588
## 3800	40.80157	-73.96635	1	-0.354446614
## 3802	40.85131	-73.94059	1	-0.648381746
## 3803	40.71343	-73.98826	1	-0.060511482
## 3805	40.78828	-73.94840	2	0.527358782
## 3807	40.83206	-73.94261	2	0.233423650
## 3808	40.76170	-73.99244	1	-0.648381746
## 3810	40.71966	-73.99236	2	1.997034442
## 3812	40.83721	-73.93894	1	-0.942316878
## 3813	40.74327	-73.99807	2	1.174016072
## 3815	40.81287	-73.95186	2	-0.119298508
## 3817	40.72699	-73.98694	2	0.821293914
## 3818	40.78283	-73.98396	2	3.760645234
## 3820	40.80133	-73.95251	1	-0.589594720
## 3822	40.70610	-74.01570	1	-0.530807693
## 3823	40.71968	-73.98708	2	1.409164178
## 3825	40.81165	-73.95639	1	-0.824742825
## 3827	40.84239	-73.93574	2	0.104092192
## 3828	40.71920	-73.99139	1	0.115849597
## 3830	40.72299	-73.99344	1	-0.354446614
## 3832	40.73783	-73.99383	1	-0.354446614
## 3833	40.79478	-73.93416	1	-0.707168773
## 3835	40.73592	-74.00492	2	0.456814350
## 3837	40.79052	-73.94364	1	-0.707168773
## 3838	40.74522	-73.97505	2	0.174636624
## 3840	40.78071	-73.95309	2	1.291590125
## 3842	40.73608	-74.00039	2	1.997034442
## 3843	40.79131	-73.94344	1	-1.059890931
## 3845	40.76110	-73.99316	2	0.233423650
## 3847	40.73857	-73.99787	2	3.172774970
## 3848	40.82398	-73.94846	1	-0.648381746
## 3850	40.72865	-73.98023	2	0.233423650
## 3852	40.71661	-73.98916	2	0.233423650
## 3853	40.76832	-73.96118	2	0.821293914
## 3855	40.73969	-73.99447	1	-0.001724456
## 3857	40.74912	-73.98007	2	0.174636624
## 3858	40.82875	-73.94574	1	-0.354446614
## 3860	40.72227	-73.99526	2	-0.001724456
## 3862	40.87495	-73.90982	1	-1.001103905
## 3863	40.72287	-73.99593	2	1.585525257
## 3865	40.72354	-73.98190	1	-0.260387372
## 3867	40.75335	-73.99525	2	0.586145808
## 3868	40.71420	-73.99119	2	1.409164178
## 3870	40.80144	-73.95193	2	3.161017565

## 3872	40.76700	-73.95456	1	-0.354446614
## 3873	40.75549	-73.97149	2	3.760645234
## 3875	40.80748	-73.94922	2	-0.119298508
## 3877	40.72879	-73.98575	1	-0.354446614
## 3878	40.77878	-73.94491	2	0.468571756
## 3880	40.74786	-73.97277	3	0.350997703
## 3882	40.80352	-73.95079	2	-0.248629967
## 3883	40.74810	-74.00533	2	0.821293914
## 3885	40.74798	-73.98140	1	0.821293914
## 3887	40.73742	-74.00171	2	0.809536509
## 3888	40.81666	-73.96074	2	-0.295659588
## 3890	40.72590	-73.99390	2	4.336758093
## 3892	40.74642	-73.98516	2	1.056442020
## 3893	40.81656	-73.96122	1	-0.707168773
## 3895	40.85322	-73.93563	2	-0.483778072
## 3897	40.73420	-74.00854	2	1.115229046
## 3898	40.75861	-73.96939	1	-0.236872561
## 3900	40.72835	-74.00259	2	0.233423650
## 3902	40.83705	-73.93990	1	-0.883529852
## 3903	40.73212	-74.01051	2	0.762506888
## 3905	40.71968	-73.99680	1	-0.236872561
## 3907	40.76644	-73.95803	2	-0.001724456
## 3908	40.87211	-73.91544	2	-0.613109530
## 3910	40.76044	-73.98903	1	0.938867967
## 3912	40.76140	-73.98954	1	0.292210676
## 3913	40.83174	-73.94686	1	-0.648381746
## 3915	40.73727	-73.98432	2	-0.119298508
## 3917	40.76180	-73.99093	1	1.467951205
## 3918	40.76207	-73.98945	1	1.350377152
## 3920	40.76015	-73.99086	1	0.292210676
## 3922	40.76036	-73.99073	1	0.409784729
## 3923	40.76185	-73.99126	1	0.292210676
## 3925	40.79304	-73.97725	1	-0.060511482
## 3927	40.72949	-73.98012	1	-0.589594720
## 3928	40.74362	-73.98058	2	-0.354446614
## 3930	40.70944	-74.01829	2	-0.354446614
## 3932	40.84872	-73.93633	1	-0.718926178
## 3933	40.76806	-73.95227	1	-0.836500231
## 3935	40.76716	-73.96366	2	0.057062571
## 3937	40.71966	-73.98166	2	0.997654993
## 3938	40.72082	-73.98592	1	0.057062571
## 3940	40.77372	-73.94986	2	-0.119298508
## 3942	40.85151	-73.93789	2	-0.295659588
## 3943	40.83950	-73.94470	1	0.174636624
## 3945	40.74153	-74.00036	2	0.233423650
## 3947	40.70892	-74.01325	2	-0.001724456
## 3948	40.79487	-73.93477	1	-0.236872561
## 3950	40.74229	-73.98165	2	0.233423650
## 3952	40.72148	-73.98235	2	1.338619746
## 3953	40.72215	-73.99140	2	0.233423650
## 3955	40.78748	-73.98023	2	0.233423650
## 3957	40.72140	-73.99635	1	-0.354446614
## 3958	40.83019	-73.94991	1	-0.648381746
## 3960	40.71952	-73.98535	2	0.797779103

## 3962	40.75603	-73.99247	2	-0.413233640
## 3963	40.76734	-73.98676	2	0.809536509
## 3965	40.76003	-73.96969	2	0.586145808
## 3967	40.78968	-73.94202	1	-0.589594720
## 3968	40.80054	-73.95497	2	-0.436748451
## 3970	40.78267	-73.97661	2	0.233423650
## 3972	40.73390	-73.97743	1	-1.001103905
## 3973	40.72714	-73.97894	1	-0.354446614
## 3975	40.80108	-73.97050	2	-0.707168773
## 3977	40.73323	-74.00434	2	0.797779103
## 3978	40.72691	-73.98534	2	0.280453271
## 3980	40.80286	-73.94997	1	-0.119298508
## 3982	40.71790	-73.98477	2	-0.366204019
## 3983	40.79721	-73.94328	2	-0.225115156
## 3985	40.76044	-73.96068	2	0.762506888
## 3987	40.81961	-73.93937	1	-1.024618715
## 3988	40.72517	-73.98742	2	0.762506888
## 3990	40.76497	-73.98848	2	1.997034442
## 3992	40.77252	-73.95560	2	0.115849597
## 3993	40.76448	-73.98187	2	0.527358782
## 3995	40.79421	-73.97097	1	-0.483778072
## 3997	40.74815	-73.99417	2	1.409164178
## 3998	40.74723	-73.99160	2	1.056442020
## 4000	40.82599	-73.94545	2	-0.636624341
## 4002	40.81254	-73.94118	2	-0.060511482
## 4003	40.71996	-73.98729	1	-0.354446614
## 4005	40.80271	-73.96853	2	0.292210676
## 4007	40.79952	-73.93502	2	-0.542565099
## 4008	40.74438	-74.00178	2	0.233423650
## 4010	40.79126	-73.96738	1	-0.236872561
## 4012	40.76112	-73.96190	2	0.233423650
## 4013	40.76216	-73.96195	2	-0.178085535
## 4015	40.76249	-73.96217	2	0.292210676
## 4017	40.76244	-73.96031	2	0.409784729
## 4018	40.76035	-73.96133	2	0.292210676
## 4020	40.78181	-73.98466	2	-0.001724456
## 4022	40.74462	-73.98272	2	0.233423650
## 4023	40.79840	-73.94777	2	0.292210676
## 4025	40.72403	-73.97783	2	1.997034442
## 4027	40.81398	-73.95213	1	-0.765955799
## 4028	40.78201	-73.98379	2	-0.119298508
## 4030	40.85183	-73.94022	2	-0.119298508
## 4032	40.79243	-73.93952	2	-0.001724456
## 4033	40.79229	-73.94962	1	-0.589594720
## 4035	40.81161	-73.94306	3	-0.707168773
## 4037	40.82416	-73.95306	1	-0.648381746
## 4038	40.80418	-73.95513	1	-0.707168773
## 4040	40.77138	-73.94809	2	-0.413233640
## 4042	40.78551	-73.94167	2	-0.366204019
## 4043	40.77828	-73.97640	2	0.409784729
## 4045	40.74379	-73.98795	2	0.550873593
## 4047	40.77734	-73.95779	3	-0.001724456
## 4048	40.81435	-73.94588	1	-0.918802068
## 4050	40.72294	-73.98570	1	-0.366204019

## 4052	40.84454	-73.94188	1	-0.707168773
## 4053	40.76880	-73.95350	1	0.233423650
## 4055	40.80395	-73.96531	1	-0.942316878
## 4057	40.73669	-74.00375	2	0.221666245
## 4058	40.70809	-74.00170	2	0.938867967
## 4060	40.72115	-73.98308	2	1.291590125
## 4062	40.81142	-73.95978	1	-0.707168773
## 4063	40.777098	-73.95034	2	0.268695866
## 4065	40.72815	-73.97598	3	-0.354446614
## 4067	40.80594	-73.95363	2	-0.589594720
## 4068	40.77703	-73.94773	2	0.339240298
## 4070	40.72826	-73.98422	1	-0.001724456
## 4072	40.76807	-73.98342	2	3.172774970
## 4073	40.84289	-73.93925	1	-0.824742825
## 4075	40.72206	-73.97982	1	-0.589594720
## 4077	40.77516	-73.95224	2	0.350997703
## 4078	40.74631	-73.98551	1	0.233423650
## 4080	40.82980	-73.94683	1	-0.707168773
## 4082	40.74020	-73.97935	2	0.762506888
## 4083	40.72332	-73.97985	1	-0.860015041
## 4085	40.73055	-74.00435	2	1.703099310
## 4087	40.777344	-73.95035	2	1.326862341
## 4088	40.81863	-73.95748	1	-0.472020667
## 4090	40.72968	-74.00114	2	0.527358782
## 4092	40.76551	-73.98899	3	-0.166328130
## 4093	40.71674	-74.00334	1	-0.354446614
## 4095	40.83621	-73.94646	1	-0.589594720
## 4097	40.72382	-73.98171	1	-0.589594720
## 4098	40.74138	-73.98814	2	1.985277037
## 4100	40.72348	-73.99095	1	1.409164178
## 4102	40.72123	-73.99513	1	-0.472020667
## 4103	40.76193	-73.94933	1	-0.554322504
## 4105	40.79326	-73.93988	2	-0.330931804
## 4107	40.75788	-73.96890	2	0.221666245
## 4108	40.74490	-73.97959	1	-0.119298508
## 4110	40.70668	-74.00913	2	0.350997703
## 4112	40.76533	-73.96163	2	1.644312284
## 4113	40.79435	-73.97450	2	0.174636624
## 4115	40.83663	-73.94502	1	-1.001103905
## 4117	40.76812	-73.98341	2	-0.366204019
## 4118	40.85471	-73.93021	1	-0.472020667
## 4120	40.72621	-74.00186	2	0.821293914
## 4122	40.72393	-73.98271	1	-0.354446614
## 4123	40.71649	-74.00267	2	0.456814350
## 4125	40.80712	-73.95323	1	-0.930559473
## 4127	40.72179	-73.99829	2	0.339240298
## 4128	40.71754	-73.99025	1	-0.648381746
## 4130	40.83255	-73.94411	1	-1.083405742
## 4132	40.72299	-73.97756	2	0.209908839
## 4133	40.76546	-73.98782	2	2.573147301
## 4135	40.75788	-73.99223	1	1.409164178
## 4137	40.80441	-73.96409	2	-0.119298508
## 4138	40.72896	-73.98430	1	-0.366204019
## 4140	40.78363	-73.97485	2	0.703719861

## 4142	40.86717	-73.91943	2	0.174636624
## 4143	40.78487	-73.97816	1	-0.730683583
## 4145	40.72525	-73.99998	2	2.878839838
## 4147	40.79874	-73.96034	2	-0.001724456
## 4148	40.73525	-74.00217	2	0.409784729
## 4150	40.79720	-73.96922	1	-0.765955799
## 4152	40.80492	-73.94486	1	-0.060511482
## 4153	40.76446	-73.95603	1	-0.519050288
## 4155	40.74923	-73.99376	2	3.760645234
## 4157	40.79831	-73.93961	1	-0.707168773
## 4158	40.76364	-73.95880	2	-0.119298508
## 4160	40.73630	-74.00317	2	1.209288288
## 4162	40.82028	-73.95381	1	-0.765955799
## 4163	40.72877	-73.98175	1	0.104092192
## 4165	40.72259	-73.99311	2	0.821293914
## 4167	40.71574	-73.99107	1	-0.354446614
## 4168	40.75834	-73.99277	1	-0.377961425
## 4170	40.73320	-74.00281	2	0.527358782
## 4172	40.73088	-74.00035	2	0.115849597
## 4173	40.72080	-73.99647	2	-0.589594720
## 4175	40.77258	-73.95213	2	-0.119298508
## 4177	40.78931	-73.97520	2	0.821293914
## 4178	40.84828	-73.94284	1	1.409164178
## 4180	40.73050	-73.98043	2	0.350997703
## 4182	40.74116	-73.99523	2	0.821293914
## 4183	40.72457	-73.98142	2	0.468571756
## 4185	40.70811	-74.01301	1	-0.765955799
## 4187	40.80682	-73.95196	2	3.760645234
## 4188	40.79050	-73.97385	2	-0.119298508
## 4190	40.78629	-73.98056	2	0.821293914
## 4192	40.72545	-73.98802	2	1.985277037
## 4193	40.81882	-73.95600	2	0.233423650
## 4195	40.82416	-73.94623	1	-0.883529852
## 4197	40.72280	-73.98562	2	1.997034442
## 4198	40.73378	-73.99714	2	0.339240298
## 4200	40.71894	-73.99205	1	-0.119298508
## 4202	40.76146	-73.98960	1	0.350997703
## 4203	40.72947	-73.98130	2	-0.119298508
## 4205	40.77016	-73.95716	2	1.997034442
## 4207	40.83769	-73.94207	1	-1.059890931
## 4208	40.71479	-73.99284	2	-0.119298508
## 4210	40.80243	-73.97060	1	-0.354446614
## 4212	40.73529	-74.00323	2	1.232803099
## 4213	40.81024	-73.95250	1	-0.413233640
## 4215	40.72261	-73.98196	2	1.761886337
## 4217	40.82196	-73.94247	2	-0.354446614
## 4218	40.72168	-73.98418	2	-0.001724456
## 4220	40.79460	-73.93572	1	-0.589594720
## 4222	40.80304	-73.96582	1	-0.777713204
## 4223	40.80819	-73.94315	2	-0.119298508
## 4225	40.82606	-73.94659	1	-0.613109530
## 4227	40.72962	-73.98360	3	-0.589594720
## 4228	40.72065	-73.98273	1	0.174636624
## 4230	40.71729	-73.98442	2	0.691962456

## 4232	40.80023	-73.93822	1	-1.118677957
## 4233	40.70780	-74.00914	2	0.821293914
## 4235	40.83428	-73.94446	1	-0.824742825
## 4237	40.78858	-73.94742	2	0.515601377
## 4238	40.77976	-73.97837	1	-0.119298508
## 4240	40.72911	-74.00338	1	-0.283902182
## 4242	40.75277	-73.96686	1	-0.707168773
## 4243	40.81355	-73.94407	1	-1.059890931
## 4245	40.72309	-73.98926	1	0.233423650
## 4247	40.71508	-73.98973	1	-0.119298508
## 4248	40.73448	-73.98056	1	-1.001103905
## 4250	40.78015	-73.97875	2	-0.119298508
## 4252	40.74537	-73.97462	2	1.174016072
## 4253	40.80419	-73.96268	2	-0.824742825
## 4255	40.74603	-73.98364	2	0.233423650
## 4257	40.73774	-73.97343	1	-0.413233640
## 4258	40.71546	-73.98960	2	-0.119298508
## 4260	40.72411	-73.99563	1	-0.589594720
## 4262	40.72228	-73.98380	2	1.409164178
## 4263	40.71864	-73.98346	2	3.760645234
## 4265	40.77770	-73.98796	2	0.233423650
## 4267	40.82622	-73.94980	1	-0.718926178
## 4268	40.82605	-73.94783	1	-0.718926178
## 4270	40.71928	-74.01125	1	-0.354446614
## 4272	40.79555	-73.96578	2	3.161017565
## 4273	40.80649	-73.95565	1	-0.495535477
## 4275	40.74085	-73.98153	1	-0.718926178
## 4277	40.71624	-73.99015	2	0.586145808
## 4278	40.76205	-73.96382	2	2.326241790
## 4280	40.73366	-73.98313	1	-0.589594720
## 4282	40.73768	-73.98727	2	1.115229046
## 4283	40.73764	-73.98190	2	0.821293914
## 4285	40.72528	-73.97882	2	0.409784729
## 4287	40.75864	-73.99056	2	4.336758093
## 4288	40.74582	-73.99472	1	0.762506888
## 4290	40.70862	-74.01408	2	0.456814350
## 4292	40.70725	-74.01533	2	3.760645234
## 4293	40.72295	-73.98246	2	0.057062571
## 4295	40.77673	-73.95078	1	-0.354446614
## 4297	40.72682	-73.97845	2	1.409164178
## 4298	40.71011	-74.01457	1	-0.366204019
## 4300	40.80510	-73.95069	2	-0.248629967
## 4302	40.80120	-73.96382	1	-0.507292883
## 4303	40.81095	-73.94430	2	0.644932835
## 4305	40.73940	-73.99838	2	0.938867967
## 4307	40.83270	-73.94486	2	-0.119298508
## 4308	40.71612	-73.99121	2	0.233423650
## 4310	40.80313	-73.95742	1	-0.824742825
## 4312	40.71289	-73.98877	1	-0.718926178
## 4313	40.70552	-74.00841	2	0.703719861
## 4315	40.79042	-73.94641	1	-0.648381746
## 4317	40.79452	-73.97065	1	-0.648381746
## 4318	40.80772	-73.95100	2	3.172774970
## 4320	40.79955	-73.96369	2	-0.060511482

## 4322	40.86464	-73.92768	2	-0.742440988
## 4323	40.82599	-73.94238	1	-0.354446614
## 4325	40.72962	-73.98932	1	-0.613109530
## 4327	40.79045	-73.97361	2	0.821293914
## 4328	40.82652	-73.95304	1	-0.648381746
## 4330	40.79400	-73.97632	2	-0.366204019
## 4332	40.82112	-73.94962	2	0.233423650
## 4333	40.74466	-73.99504	2	0.468571756
## 4335	40.76548	-73.99155	1	-0.472020667
## 4337	40.75894	-73.99150	1	-0.472020667
## 4338	40.79397	-73.97376	2	0.527358782
## 4340	40.73049	-74.00111	1	-0.131055914
## 4342	40.78323	-73.97721	2	0.292210676
## 4343	40.71767	-73.99004	2	0.350997703
## 4345	40.72487	-73.99858	2	2.584904706
## 4347	40.73453	-74.00656	2	1.373891962
## 4348	40.80089	-73.96752	3	-0.530807693
## 4350	40.72475	-73.98009	2	0.115849597
## 4352	40.72028	-73.98182	1	-0.589594720
## 4353	40.75013	-74.00330	2	0.997654993
## 4355	40.80193	-73.97038	2	1.409164178
## 4357	40.74380	-73.99751	1	-0.142813319
## 4358	40.79203	-73.96967	2	-0.236872561
## 4360	40.73240	-73.98883	1	-0.413233640
## 4362	40.80417	-73.96874	1	0.433299540
## 4363	40.79100	-73.97220	1	-0.319174398
## 4365	40.72118	-73.99575	2	1.997034442
## 4367	40.79106	-73.94588	2	-0.765955799
## 4368	40.80299	-73.96465	1	-1.059890931
## 4370	40.76769	-73.99405	1	0.233423650
## 4372	40.75563	-73.99742	1	-0.295659588
## 4373	40.74380	-73.97810	1	-0.472020667
## 4375	40.72178	-73.98212	2	1.409164178
## 4377	40.74559	-73.98325	2	0.527358782
## 4378	40.81033	-73.95897	1	0.233423650
## 4380	40.71959	-73.99604	1	-0.366204019
## 4382	40.71903	-73.99040	2	0.350997703
## 4383	40.71870	-74.00384	1	-0.272144777
## 4385	40.77018	-73.95947	2	0.880080940
## 4387	40.74376	-74.00387	2	1.644312284
## 4388	40.83436	-73.94735	2	-0.366204019
## 4390	40.82883	-73.94468	2	-0.601352125
## 4392	40.72399	-73.98869	2	0.586145808
## 4393	40.84030	-73.93833	1	-0.942316878
## 4395	40.80188	-73.96696	1	-0.836500231
## 4397	40.72014	-73.98498	1	-0.589594720
## 4398	40.76377	-73.98786	2	0.821293914
## 4400	40.72644	-73.98403	2	0.527358782
## 4402	40.70803	-74.01735	2	0.821293914
## 4403	40.80591	-73.95525	1	-0.648381746
## 4405	40.79100	-73.96809	2	0.233423650
## 4407	40.75946	-73.99083	1	-0.707168773
## 4408	40.81236	-73.94142	2	-0.354446614
## 4410	40.85076	-73.93049	1	-1.001103905

## 4412	40.85080	-73.94004	2	-0.213357751
## 4413	40.76102	-73.96124	1	-0.413233640
## 4415	40.81406	-73.95282	1	-0.718926178
## 4417	40.72448	-73.98950	2	0.527358782
## 4418	40.82364	-73.95122	1	-0.836500231
## 4420	40.73351	-74.00454	2	2.584904706
## 4422	40.71912	-73.99776	1	-0.812985420
## 4423	40.84805	-73.94209	3	-1.036376120
## 4425	40.79324	-73.94513	2	-0.472020667
## 4427	40.77148	-73.98226	1	0.609660619
## 4428	40.84687	-73.94004	1	-0.236872561
## 4430	40.73999	-73.98122	1	0.527358782
## 4432	40.81469	-73.94887	1	-0.648381746
## 4433	40.76104	-73.98850	2	1.997034442
## 4435	40.75967	-73.98573	2	0.057062571
## 4437	40.76292	-73.99551	2	0.115849597
## 4438	40.79433	-73.97333	2	0.527358782
## 4440	40.81270	-73.95004	1	-0.824742825
## 4442	40.80739	-73.94196	2	0.268695866
## 4443	40.80872	-73.94228	2	0.233423650
## 4445	40.80980	-73.94443	1	-0.472020667
## 4447	40.70993	-73.98700	3	-1.118677957
## 4448	40.82312	-73.94539	1	-0.436748451
## 4450	40.74313	-73.99844	2	0.527358782
## 4452	40.74336	-74.00278	2	0.821293914
## 4453	40.76352	-73.97770	2	2.220425143
## 4455	40.80328	-73.96898	2	1.268075315
## 4457	40.80610	-73.96641	1	-0.472020667
## 4458	40.74327	-73.99848	2	1.350377152
## 4460	40.78339	-73.95239	1	0.221666245
## 4462	40.74056	-73.98389	1	-0.707168773
## 4463	40.79063	-73.97864	2	0.527358782
## 4465	40.71783	-73.98392	2	0.527358782
## 4467	40.77357	-73.94729	2	0.139364408
## 4468	40.75194	-74.00468	2	1.997034442
## 4470	40.79882	-73.96382	2	0.821293914
## 4472	40.72077	-73.98551	2	0.350997703
## 4473	40.72822	-73.98639	2	0.233423650
## 4475	40.72935	-73.98465	2	0.821293914
## 4477	40.77849	-73.98527	2	2.867082433
## 4478	40.83261	-73.94328	1	-0.989346499
## 4480	40.78101	-73.98533	1	-0.707168773
## 4482	40.74111	-73.97959	1	-0.707168773
## 4483	40.76387	-73.98021	2	3.407923076
## 4485	40.73050	-73.98416	2	0.233423650
## 4487	40.74221	-73.99822	2	4.230941446
## 4488	40.80689	-73.94784	1	-0.707168773
## 4490	40.76222	-73.99088	1	-0.354446614
## 4492	40.83107	-73.94860	1	-0.495535477
## 4493	40.72184	-73.98680	1	-0.354446614
## 4495	40.72966	-74.00234	2	0.233423650
## 4497	40.73947	-73.98593	2	1.068199425
## 4498	40.78718	-73.97521	2	0.233423650
## 4500	40.74645	-73.98530	2	1.279832720

## 4502	40.72113	-73.99465	1	-0.836500231
## 4503	40.78128	-73.98184	2	0.221666245
## 4505	40.73363	-73.98545	1	-0.601352125
## 4507	40.72460	-73.98953	2	3.172774970
## 4508	40.73337	-73.98524	2	0.821293914
## 4510	40.75399	-73.96967	2	0.057062571
## 4512	40.73570	-73.98087	1	-0.507292883
## 4513	40.76425	-73.99162	1	-0.366204019
## 4515	40.73039	-74.00223	2	1.409164178
## 4517	40.74453	-73.99988	2	-0.119298508
## 4518	40.76312	-73.96624	1	-0.483778072
## 4520	40.70623	-74.00510	2	0.233423650
## 4522	40.80156	-73.95128	2	1.291590125
## 4523	40.74086	-73.98030	2	-0.742440988
## 4525	40.80049	-73.96064	2	-0.401476235
## 4527	40.84984	-73.94187	2	1.115229046
## 4528	40.80009	-73.95313	2	-0.001724456
## 4530	40.74321	-73.98474	2	0.527358782
## 4532	40.84877	-73.93515	1	-1.024618715
## 4533	40.74716	-74.00047	2	1.409164178
## 4535	40.77391	-73.94816	2	-0.354446614
## 4537	40.76449	-73.99340	2	0.527358782
## 4538	40.77700	-73.97708	1	0.586145808
## 4540	40.82861	-73.94127	1	-0.848257636
## 4542	40.75995	-73.98617	2	-0.354446614
## 4543	40.73519	-74.00642	2	0.821293914
## 4545	40.80356	-73.95666	1	-0.824742825
## 4547	40.71449	-73.98700	1	-0.707168773
## 4548	40.70395	-74.00995	1	-0.377961425
## 4550	40.72578	-73.98236	2	0.115849597
## 4552	40.82457	-73.94984	1	-1.036376120
## 4553	40.72686	-73.98743	1	-0.718926178
## 4555	40.76990	-73.98985	1	-0.119298508
## 4557	40.72304	-73.97696	2	0.586145808
## 4558	40.76950	-73.95115	1	-0.354446614
## 4560	40.85597	-73.93330	1	-0.942316878
## 4562	40.72131	-73.98541	2	-0.354446614
## 4563	40.73930	-73.99609	2	0.997654993
## 4565	40.71106	-73.99576	2	-0.095783698
## 4567	40.76637	-73.95345	2	-0.142813319
## 4568	40.79025	-73.94820	1	-0.648381746
## 4570	40.74768	-73.99625	2	2.584904706
## 4572	40.72775	-73.98630	1	-0.354446614
## 4573	40.82036	-73.94219	1	-0.671896557
## 4575	40.70440	-74.00851	2	0.821293914
## 4577	40.72251	-73.99957	1	-0.942316878
## 4578	40.72672	-73.97965	2	3.172774970
## 4580	40.74052	-74.00423	2	2.996413891
## 4582	40.77285	-73.94715	1	-0.236872561
## 4583	40.76769	-73.95236	2	-0.178085535
## 4585	40.82215	-73.95601	2	0.586145808
## 4587	40.75091	-73.99414	3	0.821293914
## 4588	40.74904	-74.00164	2	3.172774970
## 4590	40.82291	-73.95172	1	-0.765955799

## 4592	40.75014	-73.99069	2	1.409164178
## 4593	40.74947	-73.98257	2	1.409164178
## 4595	40.84269	-73.93605	2	-0.236872561
## 4597	40.77569	-73.98028	2	1.409164178
## 4598	40.70726	-74.00593	1	-0.119298508
## 4600	40.73310	-73.98400	1	-0.765955799
## 4602	40.74042	-73.99714	1	-0.354446614
## 4603	40.84074	-73.93544	1	-0.765955799
## 4605	40.73830	-74.00602	2	0.233423650
## 4607	40.71555	-73.99298	2	1.997034442
## 4608	40.85563	-73.93509	2	-0.660139151
## 4610	40.80083	-73.95584	1	1.409164178
## 4612	40.74840	-73.97298	1	0.821293914
## 4613	40.80377	-73.96903	1	0.386269919
## 4615	40.72351	-73.98288	2	-0.236872561
## 4617	40.78451	-73.94939	2	0.233423650
## 4618	40.80025	-73.95519	2	1.938247416
## 4620	40.73540	-74.00861	2	0.574388403
## 4622	40.71373	-73.98465	2	-0.589594720
## 4623	40.71743	-73.99372	1	-0.836500231
## 4625	40.75513	-73.96446	2	0.586145808
## 4627	40.70550	-74.00812	2	0.691962456
## 4628	40.80557	-73.94618	1	-1.071648336
## 4630	40.79985	-73.93836	3	-1.118677957
## 4632	40.75989	-73.98900	3	1.409164178
## 4633	40.74475	-73.98512	3	-0.883529852
## 4635	40.79494	-73.97221	2	0.445056945
## 4637	40.71475	-73.99257	2	-0.001724456
## 4638	40.75932	-73.96396	2	0.115849597
## 4640	40.73284	-73.98511	2	0.350997703
## 4642	40.75165	-74.00074	2	1.115229046
## 4643	40.72810	-73.98106	2	1.409164178
## 4645	40.77887	-73.95406	1	-0.236872561
## 4647	40.74553	-73.97302	1	-0.354446614
## 4648	40.73319	-74.00502	2	0.880080940
## 4650	40.80266	-73.96465	1	-0.495535477
## 4652	40.73845	-73.97950	2	0.409784729
## 4653	40.76205	-73.98450	1	-0.954074283
## 4655	40.78143	-73.98638	2	-0.119298508
## 4657	40.80679	-73.94408	1	-0.801228015
## 4658	40.72777	-73.98545	2	0.762506888
## 4660	40.71826	-73.99199	2	0.339240298
## 4662	40.71460	-73.98423	1	-0.483778072
## 4663	40.72845	-73.97989	2	0.821293914
## 4665	40.71358	-73.98456	2	1.409164178
## 4667	40.72018	-74.00981	1	-0.354446614
## 4668	40.71349	-73.98473	1	-0.472020667
## 4670	40.79877	-73.96259	2	0.644932835
## 4672	40.72362	-73.98519	2	-0.119298508
## 4673	40.78338	-73.95008	2	0.339240298
## 4675	40.79965	-73.95446	2	0.233423650
## 4677	40.75849	-73.99070	2	0.821293914
## 4678	40.80965	-73.93912	2	0.233423650
## 4680	40.77914	-73.94965	2	0.586145808

## 4682	40.76641	-73.94561	3	-1.001103905
## 4683	40.73178	-73.98842	2	1.409164178
## 4685	40.76391	-73.95938	2	1.397406773
## 4687	40.77569	-73.95202	2	0.115849597
## 4688	40.82488	-73.94472	1	-0.648381746
## 4690	40.80565	-73.94621	2	0.233423650
## 4692	40.80214	-73.95325	1	-0.765955799
## 4693	40.77795	-73.98250	2	-0.060511482
## 4695	40.72555	-73.97713	2	-0.119298508
## 4697	40.72504	-73.97905	2	0.586145808
## 4698	40.76365	-73.98484	1	0.292210676
## 4700	40.82240	-73.95402	1	-1.036376120
## 4702	40.75383	-73.99536	2	0.703719861
## 4703	40.72853	-73.99914	2	0.821293914
## 4705	40.72057	-73.97997	2	-0.060511482
## 4707	40.85369	-73.93187	1	-0.730683583
## 4708	40.76016	-73.98929	2	0.350997703
## 4710	40.72765	-73.98634	2	0.997654993
## 4712	40.85415	-73.93108	1	-1.059890931
## 4713	40.73618	-74.00201	1	-0.248629967
## 4715	40.72255	-73.97813	1	-0.472020667
## 4717	40.72681	-73.99952	2	1.291590125
## 4718	40.74123	-73.97731	2	0.057062571
## 4720	40.72305	-73.98834	1	0.233423650
## 4722	40.72409	-74.00241	1	0.809536509
## 4723	40.78987	-73.94883	1	-0.648381746
## 4725	40.79927	-73.96235	1	-0.354446614
## 4727	40.77001	-73.95691	1	0.527358782
## 4728	40.85911	-73.92800	2	-0.530807693
## 4730	40.75790	-73.96243	2	0.468571756
## 4732	40.79512	-73.97479	1	-0.589594720
## 4733	40.81464	-73.96185	2	0.656690240
## 4735	40.71413	-73.98640	1	-0.483778072
## 4737	40.73435	-73.99903	2	1.174016072
## 4738	40.72948	-73.98664	2	0.221666245
## 4740	40.81067	-73.96377	2	0.750749482
## 4742	40.76502	-73.98198	1	3.161017565
## 4743	40.73637	-73.99746	2	0.233423650
## 4745	40.73105	-74.00541	2	3.172774970
## 4747	40.76137	-73.96042	2	0.809536509
## 4748	40.73858	-73.98882	2	0.586145808
## 4750	40.82523	-73.95383	1	-0.530807693
## 4752	40.72972	-73.98750	1	0.115849597
## 4753	40.72342	-73.98871	2	1.409164178
## 4755	40.85338	-73.93061	1	-0.942316878
## 4757	40.82323	-73.95494	1	-0.883529852
## 4758	40.79061	-73.97335	2	0.997654993
## 4760	40.78160	-73.97638	2	-0.060511482
## 4762	40.72595	-73.98218	2	0.233423650
## 4763	40.73524	-73.98441	2	1.279832720
## 4765	40.82117	-73.94306	2	-0.507292883
## 4767	40.78174	-73.94829	2	-0.131055914
## 4768	40.84707	-73.93541	1	-0.942316878
## 4770	40.73680	-73.99250	2	0.115849597

## 4772	40.78583	-73.97680	1	-0.883529852
## 4773	40.74911	-73.98770	2	1.997034442
## 4775	40.76859	-73.98720	1	-0.601352125
## 4777	40.82244	-73.94773	2	-0.072268887
## 4778	40.80311	-73.94858	1	-0.354446614
## 4780	40.74501	-73.99725	2	-0.248629967
## 4782	40.79771	-73.93449	2	-0.236872561
## 4783	40.72369	-73.98998	2	1.997034442
## 4785	40.77372	-73.94803	1	0.644932835
## 4787	40.77915	-73.97794	1	-0.001724456
## 4788	40.70963	-74.00759	1	-0.472020667
## 4790	40.74268	-73.98401	2	0.644932835
## 4792	40.72625	-73.98173	2	1.232803099
## 4793	40.84840	-73.93972	1	-0.707168773
## 4795	40.76041	-73.99496	2	3.760645234
## 4797	40.79879	-73.96721	1	-0.354446614
## 4798	40.71915	-73.98546	1	-0.824742825
## 4800	40.75711	-73.99665	2	1.232803099
## 4802	40.73106	-73.98467	2	-0.119298508
## 4803	40.75548	-73.99706	1	-0.001724456
## 4805	40.75188	-73.97252	2	3.819432261
## 4807	40.84747	-73.94279	2	-0.060511482
## 4808	40.71707	-73.99066	1	-0.366204019
## 4810	40.74650	-73.97734	1	-0.530807693
## 4812	40.72529	-73.97756	1	-0.060511482
## 4813	40.71323	-73.98780	1	-0.707168773
## 4815	40.71978	-73.98705	2	1.409164178
## 4817	40.777564	-73.95330	1	-0.530807693
## 4818	40.72815	-74.00084	2	0.703719861
## 4820	40.87126	-73.91722	2	-0.060511482
## 4822	40.79866	-73.94148	1	-0.836500231
## 4823	40.78465	-73.94914	2	-0.354446614
## 4825	40.72116	-73.99124	2	1.409164178
## 4827	40.71924	-74.01165	1	-0.036996671
## 4828	40.71390	-74.00621	2	0.233423650
## 4830	40.79893	-73.96769	2	0.233423650
## 4832	40.73983	-74.00102	2	1.703099310
## 4833	40.74088	-73.98285	3	-0.765955799
## 4835	40.82725	-73.94530	2	-0.730683583
## 4837	40.777875	-73.98750	2	0.409784729
## 4838	40.72767	-73.98452	2	1.409164178
## 4840	40.77964	-73.95474	2	-0.001724456
## 4842	40.73809	-73.98215	2	0.821293914
## 4843	40.777843	-73.95191	2	0.527358782
## 4845	40.71297	-73.98561	2	0.821293914
## 4847	40.71435	-73.98924	2	-0.472020667
## 4848	40.80096	-73.96671	1	-0.248629967
## 4850	40.72980	-73.97910	1	0.221666245
## 4852	40.77799	-73.98205	2	1.056442020
## 4853	40.76960	-73.95275	1	-0.707168773
## 4855	40.72948	-73.98856	2	0.221666245
## 4857	40.72689	-73.98676	2	0.809536509
## 4858	40.74026	-74.00091	2	1.997034442
## 4860	40.72903	-73.98938	2	2.349756601

## 4862	40.82940	-73.94695	2	-0.366204019
## 4863	40.72613	-73.98062	2	1.409164178
## 4865	40.75547	-73.96467	2	-0.354446614
## 4867	40.79401	-73.96432	1	-0.589594720
## 4868	40.72904	-73.97946	1	-0.366204019
## 4870	40.72792	-74.00323	2	-0.060511482
## 4872	40.72367	-73.98131	3	-0.354446614
## 4873	40.76366	-73.99438	2	0.057062571
## 4875	40.75215	-74.00426	2	-0.166328130
## 4877	40.72828	-73.98602	2	3.466710102
## 4878	40.77205	-73.98924	2	0.127607002
## 4880	40.74068	-74.00279	2	1.409164178
## 4882	40.77960	-73.94806	2	-0.001724456
## 4883	40.76389	-73.99072	3	-0.530807693
## 4885	40.81951	-73.93715	2	0.010032950
## 4887	40.72249	-73.98042	1	-0.295659588
## 4888	40.73932	-74.00382	2	1.867702984
## 4890	40.80458	-73.94888	1	-0.119298508
## 4892	40.71480	-73.99248	2	0.527358782
## 4893	40.75589	-73.99729	2	2.467330653
## 4895	40.79802	-73.94003	1	-0.648381746
## 4897	40.72756	-73.98588	2	1.761886337
## 4898	40.72214	-73.99793	2	0.233423650
## 4900	40.80171	-73.95303	1	-0.824742825
## 4902	40.777866	-73.98065	2	1.703099310
## 4903	40.84957	-73.93959	1	-0.942316878
## 4905	40.77065	-73.95205	1	0.233423650
## 4907	40.71848	-73.99091	2	0.233423650
## 4908	40.72135	-73.98915	2	0.903595751
## 4910	40.74262	-73.98063	2	4.289728472
## 4912	40.72781	-73.98398	1	-0.366204019
## 4913	40.72979	-73.98905	2	0.350997703
## 4915	40.76643	-73.95809	2	0.233423650
## 4917	40.72976	-73.98245	2	0.350997703
## 4918	40.78406	-73.95294	1	-0.424991046
## 4920	40.85289	-73.93508	1	-0.777713204
## 4922	40.82305	-73.94555	1	-0.954074283
## 4923	40.78322	-73.97435	2	0.586145808
## 4925	40.74576	-73.98146	1	0.821293914
## 4927	40.75679	-73.99547	2	-0.178085535
## 4928	40.75594	-73.96874	2	1.409164178
## 4930	40.76366	-73.98849	2	1.526738231
## 4932	40.73842	-73.98008	3	-0.389718830
## 4933	40.76942	-73.96705	2	0.292210676
## 4935	40.72520	-74.01054	2	1.409164178
## 4937	40.75900	-73.98894	2	1.997034442
## 4938	40.85845	-73.92861	2	-0.060511482
## 4940	40.76440	-73.96930	2	1.703099310
## 4942	40.75990	-73.98542	1	0.821293914
## 4943	40.84874	-73.94202	1	-0.366204019
## 4945	40.74509	-73.98268	2	0.821293914
## 4947	40.79494	-73.96545	2	3.760645234
## 4948	40.76574	-73.95875	1	0.127607002
## 4950	40.73406	-74.00963	2	1.985277037

## 4952	40.72143	-73.99427	1	-0.707168773
## 4953	40.74279	-73.97833	2	-0.648381746
## 4955	40.77243	-73.95016	2	-0.401476235
## 4957	40.76750	-73.98228	2	0.527358782
## 4958	40.82248	-73.94891	2	-0.001724456
## 4960	40.72895	-73.98789	2	0.821293914
## 4962	40.81669	-73.96029	1	-0.824742825
## 4963	40.80864	-73.95007	2	-0.154570724
## 4965	40.76612	-73.98545	2	0.821293914
## 4967	40.75690	-73.96408	2	-0.178085535
## 4968	40.73631	-74.00611	2	1.350377152
## 4970	40.77812	-73.98067	2	1.761886337
## 4972	40.81132	-73.94496	2	-0.413233640
## 4973	40.72774	-73.97934	2	1.526738231
## 4975	40.75618	-73.96600	2	-0.354446614
## 4977	40.84650	-73.94319	3	-0.824742825
## 4978	40.81146	-73.94589	1	-0.777713204
## 4980	40.76942	-73.96614	2	0.115849597
## 4982	40.72613	-74.00826	2	3.161017565
## 4983	40.73076	-73.99567	2	1.997034442
## 4985	40.71820	-73.99562	1	-0.789470609
## 4987	40.74433	-73.97769	1	-0.060511482
## 4988	40.73046	-73.98094	2	3.113987944
## 4990	40.77784	-73.98437	2	0.703719861
## 4992	40.70867	-74.00030	1	-0.354446614
## 4993	40.80275	-73.93904	1	0.233423650
## 4995	40.75902	-73.99112	2	-0.354446614
## 4997	40.81057	-73.94565	2	-0.413233640
## 4998	40.80281	-73.94644	2	0.233423650
## 5000	40.73563	-73.98801	2	3.290349023
## 5002	40.73523	-74.00607	2	1.409164178
## 5003	40.73128	-73.98596	1	0.104092192
## 5005	40.75670	-73.99277	2	0.644932835
## 5007	40.76455	-73.99297	2	0.527358782
## 5008	40.78481	-73.97414	2	0.233423650
## 5010	40.84121	-73.93881	2	-0.589594720
## 5012	40.80810	-73.93807	2	1.115229046
## 5013	40.76900	-73.95410	2	0.821293914
## 5015	40.78698	-73.97005	2	0.527358782
## 5017	40.72549	-74.00523	2	0.409784729
## 5018	40.74336	-73.99706	2	1.409164178
## 5020	40.72337	-73.99574	2	0.574388403
## 5022	40.81147	-73.94710	2	1.879460389
## 5023	40.84444	-73.93990	1	-0.413233640
## 5025	40.79387	-73.94202	2	-0.060511482
## 5027	40.76767	-73.98783	3	-0.777713204
## 5028	40.73113	-73.98295	2	-0.060511482
## 5030	40.80519	-73.94974	2	0.468571756
## 5032	40.72417	-73.98391	2	1.997034442
## 5033	40.73458	-74.00808	2	1.115229046
## 5035	40.76941	-73.96694	2	-0.060511482
## 5037	40.76262	-73.98677	2	0.057062571
## 5038	40.72988	-73.98713	1	-0.060511482
## 5040	40.86689	-73.92224	1	-0.860015041

## 5042	40.76374	-73.99422	1	-0.001724456
## 5043	40.72285	-73.98133	1	-0.589594720
## 5045	40.87157	-73.91744	1	-0.942316878
## 5047	40.71855	-73.99791	2	0.691962456
## 5048	40.78671	-73.97825	2	0.233423650
## 5050	40.76392	-73.99514	2	0.233423650
## 5052	40.79714	-73.94023	2	-0.530807693
## 5053	40.74339	-73.99414	2	3.760645234
## 5055	40.79212	-73.95032	1	-0.060511482
## 5057	40.82494	-73.94300	2	-0.765955799
## 5058	40.72822	-73.98128	1	-0.472020667
## 5060	40.77757	-73.97932	2	0.033547760
## 5062	40.72189	-73.99187	2	0.104092192
## 5063	40.81417	-73.96030	1	-1.071648336
## 5065	40.72217	-73.99375	2	0.821293914
## 5067	40.79207	-73.94196	1	-0.589594720
## 5068	40.74226	-73.99608	2	1.632554878
## 5070	40.76263	-73.98909	2	0.586145808
## 5072	40.77162	-73.95808	2	0.233423650
## 5073	40.71719	-73.99109	2	0.174636624
## 5075	40.82647	-73.94747	1	-0.671896557
## 5077	40.76348	-73.94859	2	0.586145808
## 5078	40.74387	-73.98496	3	-0.883529852
## 5080	40.72143	-73.97824	2	-0.001724456
## 5082	40.77595	-73.94969	2	1.938247416
## 5083	40.80101	-73.96076	1	-0.377961425
## 5085	40.82325	-73.94444	1	-0.977589094
## 5087	40.76066	-73.96372	2	-0.354446614
## 5088	40.74569	-73.99183	2	-0.013481861
## 5090	40.74463	-73.99190	2	0.068819976
## 5092	40.80307	-73.94600	2	0.456814350
## 5093	40.72477	-73.98836	1	-0.472020667
## 5095	40.71540	-73.98473	2	0.468571756
## 5097	40.79405	-73.93429	2	0.233423650
## 5098	40.81999	-73.93933	1	-1.001103905
## 5100	40.71067	-73.98695	1	0.586145808
## 5102	40.72247	-73.98435	1	-0.354446614
## 5103	40.81111	-73.95465	1	-0.060511482
## 5105	40.79807	-73.96894	1	-0.589594720
## 5107	40.75759	-73.96902	2	1.174016072
## 5108	40.72320	-73.98561	2	0.104092192
## 5110	40.78487	-73.97540	2	-0.060511482
## 5112	40.70776	-74.01514	2	0.456814350
## 5113	40.73139	-74.00452	2	0.527358782
## 5115	40.80093	-73.95012	2	0.409784729
## 5117	40.77739	-73.98231	2	-0.495535477
## 5118	40.77029	-73.95812	2	-0.236872561
## 5120	40.71434	-73.99342	1	-0.589594720
## 5122	40.74208	-73.98084	2	-0.119298508
## 5123	40.72737	-73.98605	1	-0.472020667
## 5125	40.70574	-74.00809	2	1.279832720
## 5127	40.81345	-73.94659	2	0.527358782
## 5128	40.73208	-74.00393	2	0.821293914
## 5130	40.72176	-73.99345	2	0.115849597

## 5132	40.80193	-73.95573	1	-0.660139151
## 5133	40.77370	-73.95616	3	-0.589594720
## 5135	40.72246	-73.97912	1	-0.236872561
## 5137	40.75891	-73.98450	2	0.527358782
## 5138	40.78370	-73.94877	2	0.586145808
## 5140	40.75940	-73.98634	1	0.938867967
## 5142	40.75454	-73.97083	2	-0.319174398
## 5143	40.85479	-73.93313	2	0.233423650
## 5145	40.78340	-73.94556	2	-0.413233640
## 5147	40.83559	-73.94552	1	-0.648381746
## 5148	40.72162	-73.97923	2	0.644932835
## 5150	40.73164	-73.98454	2	0.057062571
## 5152	40.72281	-73.97768	2	-0.001724456
## 5153	40.72558	-74.00195	1	0.174636624
## 5155	40.81185	-73.94579	1	-0.472020667
## 5157	40.76717	-73.95317	2	1.409164178
## 5158	40.80350	-73.95105	2	0.409784729
## 5160	40.80891	-73.94113	1	-0.530807693
## 5162	40.82390	-73.95393	2	-0.236872561
## 5163	40.70535	-74.00672	2	1.279832720
## 5165	40.70358	-74.00824	2	1.279832720
## 5167	40.71665	-73.99633	1	-0.307416993
## 5168	40.72786	-73.98693	1	-0.413233640
## 5170	40.70415	-74.00688	2	0.691962456
## 5172	40.73658	-74.00121	2	1.938247416
## 5173	40.80059	-73.96552	2	-0.648381746
## 5175	40.79423	-73.94214	1	-0.354446614
## 5177	40.76295	-73.95725	2	0.174636624
## 5178	40.78607	-73.97347	2	1.409164178
## 5180	40.777038	-73.95829	2	0.762506888
## 5182	40.83013	-73.94112	1	-0.765955799
## 5183	40.78627	-73.97112	2	0.809536509
## 5185	40.82827	-73.94930	1	-1.106920552
## 5187	40.75807	-73.96308	2	1.997034442
## 5188	40.73833	-73.98058	1	-0.671896557
## 5190	40.73560	-73.99049	2	0.339240298
## 5192	40.75242	-73.97187	2	0.104092192
## 5193	40.82711	-73.93989	1	-1.048133526
## 5195	40.76642	-73.98621	2	-0.119298508
## 5197	40.75911	-73.98932	2	0.644932835
## 5198	40.72479	-73.98849	2	1.115229046
## 5200	40.74526	-73.99545	1	0.115849597
## 5202	40.75687	-73.97321	2	1.350377152
## 5203	40.79779	-73.93648	2	0.233423650
## 5205	40.73533	-74.00378	2	0.233423650
## 5207	40.72525	-73.98691	1	-0.530807693
## 5208	40.73868	-73.99647	2	-0.001724456
## 5210	40.80447	-73.96621	1	-0.119298508
## 5212	40.84699	-73.93620	1	-0.883529852
## 5213	40.80843	-73.94125	2	-0.001724456
## 5215	40.79939	-73.95470	2	1.397406773
## 5217	40.76236	-73.99261	2	-0.413233640
## 5218	40.76935	-73.95381	2	-0.119298508
## 5220	40.79724	-73.94968	1	-0.589594720

## 5222	40.72603	-73.98614	2	0.821293914
## 5223	40.74406	-73.99287	1	0.104092192
## 5225	40.81686	-73.94129	1	-0.977589094
## 5227	40.70437	-74.00952	2	-0.119298508
## 5228	40.77616	-73.98974	1	1.997034442
## 5230	40.76579	-73.96168	1	-0.765955799
## 5232	40.83980	-73.93850	3	-1.118677957
## 5233	40.72796	-74.00194	2	0.233423650
## 5235	40.74188	-73.99865	1	-0.354446614
## 5237	40.79804	-73.93127	1	-0.942316878
## 5238	40.75505	-73.96714	2	3.172774970
## 5240	40.78179	-73.94700	2	0.057062571
## 5242	40.78748	-73.95102	2	-0.589594720
## 5243	40.80542	-73.94550	2	-0.472020667
## 5245	40.77707	-73.94994	2	3.172774970
## 5247	40.76018	-73.98916	2	0.809536509
## 5248	40.77431	-73.97883	2	0.644932835
## 5250	40.70920	-74.00699	2	0.527358782
## 5252	40.76416	-73.98807	2	1.997034442
## 5253	40.71704	-74.01620	2	0.527358782
## 5255	40.75145	-73.97162	2	0.574388403
## 5257	40.71244	-73.98756	1	-0.566079909
## 5258	40.78167	-73.95004	2	0.468571756
## 5260	40.75474	-73.99836	2	0.550873593
## 5262	40.73297	-73.99217	2	2.290969574
## 5263	40.76637	-73.98342	1	0.409784729
## 5265	40.77912	-73.97976	2	0.233423650
## 5267	40.76063	-73.98577	2	1.174016072
## 5268	40.74702	-73.98778	1	0.339240298
## 5270	40.75261	-73.97063	1	-0.366204019
## 5272	40.72614	-73.98795	2	0.821293914
## 5273	40.72788	-73.98690	2	1.985277037
## 5275	40.76121	-73.98895	1	0.456814350
## 5277	40.76639	-73.98727	2	0.233423650
## 5278	40.72765	-73.98199	2	0.809536509
## 5280	40.72404	-73.98838	2	0.821293914
## 5282	40.76046	-73.99010	1	0.057062571
## 5283	40.74138	-73.98048	2	1.409164178
## 5285	40.72789	-73.98756	2	2.584904706
## 5287	40.76405	-73.95967	2	-0.048754077
## 5288	40.77638	-73.94760	2	0.997654993
## 5290	40.77234	-73.96045	2	0.821293914
## 5292	40.77944	-73.98518	2	-1.059890931
## 5293	40.72283	-73.98356	1	-0.824742825
## 5295	40.77161	-73.95295	2	0.115849597
## 5297	40.71269	-73.98171	2	0.821293914
## 5298	40.79912	-73.95204	1	-0.472020667
## 5300	40.72837	-73.98631	2	2.878839838
## 5302	40.71474	-74.01101	2	3.466710102
## 5303	40.73560	-74.00405	2	0.821293914
## 5305	40.79259	-73.95171	1	-0.472020667
## 5307	40.72624	-73.99317	2	-0.354446614
## 5308	40.76436	-73.98573	2	0.703719861
## 5310	40.82287	-73.94561	2	1.174016072

## 5312	40.75145	-73.97520	2	0.115849597
## 5313	40.72919	-73.98104	2	-0.366204019
## 5315	40.72201	-73.98775	2	0.527358782
## 5317	40.84465	-73.93733	2	-0.589594720
## 5318	40.72695	-73.99012	2	-0.707168773
## 5320	40.80786	-73.94313	2	-0.354446614
## 5322	40.81293	-73.95191	2	0.233423650
## 5323	40.71514	-73.98293	1	-0.413233640
## 5325	40.74198	-73.97680	1	0.927110562
## 5327	40.78479	-73.97521	2	0.821293914
## 5328	40.75218	-73.97217	2	0.221666245
## 5330	40.73486	-74.00386	2	3.172774970
## 5332	40.71035	-74.01343	2	-0.119298508
## 5333	40.75505	-73.99354	2	0.527358782
## 5335	40.72787	-73.98718	2	-0.119298508
## 5337	40.86227	-73.92943	1	-0.824742825
## 5338	40.70941	-74.01774	2	3.760645234
## 5340	40.78228	-73.97748	2	0.468571756
## 5342	40.75103	-73.98349	2	1.409164178
## 5343	40.74097	-73.99953	2	0.233423650
## 5345	40.72711	-73.99198	2	1.950004821
## 5347	40.73294	-73.99726	1	1.397406773
## 5348	40.78074	-73.98393	2	1.409164178
## 5350	40.71544	-73.99052	2	1.409164178
## 5352	40.74961	-73.97846	2	0.821293914
## 5353	40.78840	-73.94533	2	-0.119298508
## 5355	40.75572	-73.98531	2	0.880080940
## 5357	40.76854	-73.95532	1	0.809536509
## 5358	40.73763	-73.97284	1	-0.001724456
## 5360	40.72314	-73.98066	1	-0.354446614
## 5362	40.72667	-74.00257	2	0.527358782
## 5363	40.78758	-73.95026	2	3.937006314
## 5365	40.79312	-73.96606	2	0.303968082
## 5367	40.76646	-73.99290	2	2.055821469
## 5368	40.72161	-73.98013	2	0.821293914
## 5370	40.81176	-73.94999	2	-0.354446614
## 5372	40.72339	-73.98330	2	1.997034442
## 5373	40.75088	-73.99951	1	-0.354446614
## 5375	40.81443	-73.94121	2	-0.107541103
## 5377	40.71271	-73.99512	2	0.586145808
## 5378	40.73491	-73.99231	2	1.409164178
## 5380	40.79285	-73.96700	2	0.527358782
## 5382	40.75735	-73.99007	2	0.350997703
## 5383	40.79947	-73.96400	1	-0.930559473
## 5385	40.74379	-73.97803	1	0.233423650
## 5387	40.72824	-73.99517	2	1.703099310
## 5388	40.79668	-73.93379	1	-0.824742825
## 5390	40.79632	-73.96879	2	-0.236872561
## 5392	40.76534	-73.99250	1	-0.472020667
## 5393	40.85945	-73.92834	2	-0.718926178
## 5395	40.74350	-73.97907	1	-0.413233640
## 5397	40.73129	-74.00237	2	1.997034442
## 5398	40.75452	-73.96767	2	0.586145808
## 5400	40.73537	-73.98244	1	-0.413233640

## 5402	40.84899	-73.94018	1	-1.059890931
## 5403	40.76465	-73.99499	2	-0.707168773
## 5405	40.78198	-73.97803	2	1.703099310
## 5407	40.74015	-73.98038	2	-0.060511482
## 5408	40.81051	-73.94723	2	-0.001724456
## 5410	40.79335	-73.94583	2	0.233423650
## 5412	40.76365	-73.99472	2	-0.707168773
## 5413	40.75732	-73.98276	2	0.644932835
## 5415	40.78940	-73.97620	2	-0.236872561
## 5417	40.77813	-73.97574	1	0.233423650
## 5418	40.75591	-73.99499	2	-0.589594720
## 5420	40.72419	-74.00451	2	2.114608495
## 5422	40.74110	-73.99978	2	2.290969574
## 5423	40.76355	-73.98914	2	-0.060511482
## 5425	40.79382	-73.94334	2	0.174636624
## 5427	40.76892	-73.96845	2	0.985897588
## 5428	40.74404	-73.97564	2	-0.707168773
## 5430	40.72400	-73.98376	1	-1.001103905
## 5432	40.80960	-73.94099	1	-0.472020667
## 5433	40.72675	-74.00757	1	1.115229046
## 5435	40.74163	-74.00102	2	0.609660619
## 5437	40.77130	-73.95443	2	0.527358782
## 5438	40.74601	-73.99987	1	-0.377961425
## 5440	40.78339	-73.98018	2	0.339240298
## 5442	40.72911	-73.98151	1	-0.530807693
## 5443	40.76656	-73.97038	2	0.927110562
## 5445	40.72615	-74.00225	2	-0.354446614
## 5447	40.78113	-73.95452	2	0.527358782
## 5448	40.71124	-74.00834	2	0.233423650
## 5450	40.73338	-74.00752	2	1.409164178
## 5452	40.85068	-73.93046	1	-1.059890931
## 5453	40.777877	-73.97872	2	0.233423650
## 5455	40.72311	-73.98389	2	0.586145808
## 5457	40.73431	-74.00635	2	1.703099310
## 5458	40.71183	-73.99685	2	0.527358782
## 5460	40.71564	-73.99169	2	0.233423650
## 5462	40.76472	-73.98813	2	1.044684614
## 5463	40.81041	-73.94450	2	1.115229046
## 5465	40.72797	-74.00190	2	2.584904706
## 5467	40.77950	-73.98258	2	0.527358782
## 5468	40.79960	-73.96210	2	1.985277037
## 5470	40.84369	-73.93828	2	-0.413233640
## 5472	40.70864	-74.00675	2	1.409164178
## 5473	40.80965	-73.94553	2	0.703719861
## 5475	40.84687	-73.94228	2	-0.413233640
## 5477	40.75903	-73.96287	2	2.032306658
## 5478	40.75826	-73.98923	2	3.172774970
## 5480	40.81297	-73.93922	2	-0.060511482
## 5482	40.75182	-73.99779	2	0.233423650
## 5483	40.75598	-73.98796	2	1.997034442
## 5485	40.83279	-73.94174	1	-0.236872561
## 5487	40.76380	-73.99298	2	1.056442020
## 5488	40.73288	-73.97984	1	-0.589594720
## 5490	40.72309	-73.98285	1	-0.942316878

## 5492	40.77685	-73.97710	2	1.997034442
## 5493	40.72536	-73.98252	2	0.809536509
## 5495	40.76526	-73.99096	2	1.985277037
## 5497	40.73470	-74.00784	2	0.233423650
## 5498	40.70702	-74.01676	2	1.997034442
## 5500	40.76689	-73.94564	1	-0.589594720
## 5502	40.73945	-73.99616	2	-0.048754077
## 5503	40.81376	-73.95321	1	-0.883529852
## 5505	40.72132	-73.99708	1	0.233423650
## 5507	40.80542	-73.96230	2	1.879460389
## 5508	40.85617	-73.93141	1	-1.024618715
## 5510	40.79886	-73.93373	1	-0.413233640
## 5512	40.70889	-73.99964	1	-0.354446614
## 5513	40.78572	-73.97036	2	-0.013481861
## 5515	40.74556	-74.00156	1	0.762506888
## 5517	40.85256	-73.93598	1	-0.942316878
## 5518	40.72290	-73.98414	2	-0.554322504
## 5520	40.76103	-73.99001	2	1.585525257
## 5522	40.72363	-73.98234	1	-0.589594720
## 5523	40.76866	-73.96562	2	-0.001724456
## 5525	40.75553	-73.97251	2	0.821293914
## 5527	40.72011	-73.99729	2	1.585525257
## 5528	40.77472	-73.98323	2	1.150501262
## 5530	40.84005	-73.93735	1	-0.765955799
## 5532	40.72704	-73.99954	2	1.997034442
## 5533	40.74835	-74.00336	2	1.985277037
## 5535	40.71142	-74.00535	1	-0.589594720
## 5537	40.72564	-73.98088	1	-0.954074283
## 5538	40.71582	-73.98812	2	1.997034442
## 5540	40.86458	-73.92883	1	-0.472020667
## 5542	40.82292	-73.95373	1	-1.012861310
## 5543	40.71752	-73.99077	2	-0.236872561
## 5545	40.80774	-73.95703	1	-0.354446614
## 5547	40.80948	-73.94739	2	1.350377152
## 5548	40.81246	-73.94506	2	1.409164178
## 5550	40.80536	-73.96228	1	-0.730683583
## 5552	40.74755	-73.98054	2	-0.119298508
## 5553	40.777919	-73.94733	2	0.809536509
## 5555	40.76661	-73.98439	2	0.574388403
## 5557	40.74231	-73.97697	1	-0.589594720
## 5558	40.75164	-74.00146	2	-0.354446614
## 5560	40.81613	-73.94546	1	-0.789470609
## 5562	40.72097	-73.99605	2	0.115849597
## 5563	40.75435	-73.96729	2	0.233423650
## 5565	40.72546	-74.00036	2	3.760645234
## 5567	40.80196	-73.95261	1	-0.648381746
## 5568	40.72468	-74.00746	2	3.760645234
## 5570	40.74606	-73.98688	1	-0.060511482
## 5572	40.79240	-73.97265	2	-0.530807693
## 5573	40.75452	-73.99267	1	0.809536509
## 5575	40.76769	-73.98800	2	0.821293914
## 5577	40.75320	-73.96711	2	-0.366204019
## 5578	40.72610	-74.00281	2	0.174636624
## 5580	40.72401	-73.98061	1	-0.648381746

## 5582	40.80219	-73.96618	1	-0.765955799
## 5583	40.83625	-73.93753	1	-0.942316878
## 5585	40.73436	-73.99994	1	-0.589594720
## 5587	40.74361	-73.99503	2	1.232803099
## 5588	40.83549	-73.93968	2	-0.119298508
## 5590	40.79622	-73.97059	1	-0.248629967
## 5592	40.76406	-73.98705	2	3.760645234
## 5593	40.79651	-73.93184	1	-0.824742825
## 5595	40.74054	-73.97626	2	-0.119298508
## 5597	40.72888	-73.98193	2	0.350997703
## 5598	40.79686	-73.94590	2	0.809536509
## 5600	40.76278	-73.97443	2	3.113987944
## 5602	40.72554	-73.98380	2	-0.272144777
## 5603	40.76590	-73.98674	2	1.174016072
## 5605	40.72422	-73.98465	3	-0.530807693
## 5607	40.72043	-73.98916	1	-0.060511482
## 5608	40.73857	-73.98335	2	1.632554878
## 5610	40.72330	-73.98819	2	0.703719861
## 5612	40.78494	-73.97663	2	3.172774970
## 5613	40.72316	-73.98440	2	0.821293914
## 5615	40.85000	-73.93797	2	-0.413233640
## 5617	40.76080	-73.99470	1	-0.413233640
## 5618	40.77180	-73.94916	2	0.350997703
## 5620	40.73702	-74.00633	2	0.821293914
## 5622	40.75328	-73.97212	1	1.103471641
## 5623	40.74695	-73.98062	2	1.997034442
## 5625	40.75965	-73.95125	1	-0.354446614
## 5627	40.77849	-73.95046	2	-0.213357751
## 5628	40.76359	-73.94982	1	-0.530807693
## 5630	40.81109	-73.95904	1	-0.883529852
## 5632	40.777401	-73.99056	2	0.292210676
## 5633	40.80562	-73.95978	1	0.821293914
## 5635	40.72636	-73.98231	1	-0.707168773
## 5637	40.78626	-73.94295	2	0.821293914
## 5638	40.73713	-74.00059	2	1.409164178
## 5640	40.80246	-73.96884	2	-0.354446614
## 5642	40.73411	-73.99787	2	-0.260387372
## 5643	40.73033	-73.98788	1	-0.342689209
## 5645	40.82569	-73.94277	1	-0.765955799
## 5647	40.71941	-73.98534	2	0.350997703
## 5648	40.76675	-73.95144	1	0.057062571
## 5650	40.84504	-73.93658	2	-0.530807693
## 5652	40.73304	-73.98430	2	0.115849597
## 5653	40.80172	-73.96560	2	0.057062571
## 5655	40.74186	-74.00528	2	1.761886337
## 5657	40.76278	-73.98498	1	0.786021698
## 5658	40.76496	-73.95801	1	-0.354446614
## 5660	40.74285	-73.97468	2	0.233423650
## 5662	40.82347	-73.93944	1	-1.095163147
## 5663	40.74987	-73.97293	2	0.821293914
## 5665	40.74826	-73.98653	1	-0.354446614
## 5667	40.75088	-73.96918	2	0.809536509
## 5668	40.76172	-73.99917	2	0.691962456
## 5670	40.72133	-73.98770	1	0.115849597

## 5672	40.76564	-73.98759	2	0.762506888
## 5673	40.72117	-74.00592	2	1.409164178
## 5675	40.72082	-73.98728	2	0.586145808
## 5677	40.72116	-73.99590	2	3.466710102
## 5678	40.75843	-73.96265	2	0.762506888
## 5680	40.76000	-73.98972	2	4.336758093
## 5682	40.73053	-74.00297	2	1.409164178
## 5683	40.74302	-73.98098	2	1.703099310
## 5685	40.81656	-73.95725	1	-1.001103905
## 5687	40.81788	-73.93583	2	-0.648381746
## 5688	40.74098	-74.00513	2	0.527358782
## 5690	40.82749	-73.94329	2	-0.330931804
## 5692	40.78857	-73.94328	2	0.703719861
## 5693	40.80027	-73.96971	1	-0.119298508
## 5695	40.72613	-73.98621	2	0.115849597
## 5697	40.72030	-73.98698	1	-0.366204019
## 5698	40.79331	-73.94149	2	1.409164178
## 5700	40.73333	-73.99075	2	1.997034442
## 5702	40.76374	-73.96583	2	0.821293914
## 5703	40.78641	-73.97739	1	-0.765955799
## 5705	40.73577	-74.00582	2	1.291590125
## 5707	40.72936	-73.97882	1	-0.354446614
## 5708	40.78389	-73.95306	2	0.821293914
## 5710	40.76599	-73.98404	2	-0.472020667
## 5712	40.77594	-73.98449	2	0.680205051
## 5713	40.82083	-73.95407	1	-0.495535477
## 5715	40.80055	-73.96011	2	-0.013481861
## 5717	40.74105	-74.00401	2	0.762506888
## 5718	40.79569	-73.96583	2	1.703099310
## 5720	40.81949	-73.95676	2	0.115849597
## 5722	40.72745	-73.98979	1	0.821293914
## 5723	40.85147	-73.93771	2	-0.060511482
## 5725	40.78818	-73.96928	2	0.162879218
## 5727	40.82094	-73.95745	2	-0.942316878
## 5728	40.73524	-73.98812	2	-0.519050288
## 5730	40.81602	-73.94316	1	-1.189222389
## 5732	40.79471	-73.93482	1	-0.472020667
## 5733	40.80316	-73.95189	2	1.997034442
## 5735	40.80518	-73.95099	1	-0.354446614
## 5737	40.80345	-73.95067	1	0.821293914
## 5738	40.73455	-74.00312	1	1.997034442
## 5740	40.73352	-73.98896	1	-0.119298508
## 5742	40.72265	-73.98365	1	-0.472020667
## 5743	40.75185	-73.97001	2	-0.554322504
## 5745	40.79197	-73.94711	2	0.115849597
## 5747	40.80000	-73.96404	1	-0.354446614
## 5748	40.76339	-73.99404	1	-0.236872561
## 5750	40.76223	-73.99296	2	0.233423650
## 5752	40.79617	-73.93452	2	-0.530807693
## 5753	40.72939	-74.00225	2	0.233423650
## 5755	40.72955	-73.98058	1	-0.624866936
## 5757	40.74566	-73.99989	2	2.761265785
## 5758	40.76820	-73.98467	2	0.586145808
## 5760	40.76278	-73.98178	1	-0.601352125

## 5762	40.72288	-73.98454	1	-0.683653962
## 5763	40.76681	-73.98365	2	2.808295407
## 5765	40.73564	-73.98611	2	0.409784729
## 5767	40.76565	-73.98587	2	0.350997703
## 5768	40.82260	-73.95468	1	-0.965831689
## 5770	40.76385	-73.98669	2	0.809536509
## 5772	40.80761	-73.95841	2	-0.060511482
## 5773	40.71209	-73.98794	1	-0.801228015
## 5775	40.72688	-74.00058	2	0.762506888
## 5777	40.72246	-73.98006	1	-1.001103905
## 5778	40.76379	-73.99378	2	0.821293914
## 5780	40.72792	-73.98718	2	-0.060511482
## 5782	40.76057	-73.99038	1	-0.530807693
## 5783	40.74423	-73.97742	1	-0.718926178
## 5785	40.79982	-73.95375	2	-0.001724456
## 5787	40.78442	-73.94722	2	-0.236872561
## 5788	40.73393	-73.99820	2	1.409164178
## 5790	40.72804	-73.97638	2	2.290969574
## 5792	40.71982	-74.01134	2	0.786021698
## 5793	40.76487	-73.99143	1	-0.824742825
## 5795	40.78763	-73.97204	1	-0.354446614
## 5797	40.82545	-73.94969	2	0.221666245
## 5798	40.72464	-73.98861	2	1.115229046
## 5800	40.78528	-73.98091	2	-0.366204019
## 5802	40.70880	-74.01455	2	1.703099310
## 5803	40.76542	-73.98702	2	1.879460389
## 5805	40.80638	-73.96245	2	-0.648381746
## 5807	40.72969	-74.00117	2	0.938867967
## 5808	40.74251	-73.98414	2	0.233423650
## 5810	40.72608	-73.97843	1	-0.824742825
## 5812	40.81536	-73.96246	1	-1.001103905
## 5813	40.72430	-73.97684	1	-0.472020667
## 5815	40.76482	-73.98216	2	1.279832720
## 5817	40.76667	-73.98341	2	1.750128931
## 5818	40.71813	-73.98715	1	-0.707168773
## 5820	40.74387	-74.00134	2	1.409164178
## 5822	40.76457	-73.98525	1	0.821293914
## 5823	40.80728	-73.94987	2	-0.765955799
## 5825	40.76064	-73.98554	2	1.279832720
## 5827	40.76105	-73.98638	2	1.279832720
## 5828	40.70629	-74.000980	1	0.527358782
## 5830	40.80383	-73.96793	2	-0.319174398
## 5832	40.74612	-73.98948	2	0.174636624
## 5833	40.73418	-73.99887	2	1.703099310
## 5835	40.75622	-73.96467	2	1.162258667
## 5837	40.72010	-73.98984	2	1.997034442
## 5838	40.74807	-74.00209	2	0.821293914
## 5840	40.76355	-73.98815	2	0.586145808
## 5842	40.82976	-73.94663	1	-1.177464984
## 5843	40.72168	-73.99183	1	-0.883529852
## 5845	40.76678	-73.95171	1	-0.342689209
## 5847	40.74673	-73.98667	1	2.290969574
## 5848	40.76234	-73.98732	2	1.703099310
## 5850	40.76429	-73.95774	2	1.397406773

## 5852	40.85884	-73.93356	2	-0.354446614
## 5853	40.76555	-73.98224	2	1.279832720
## 5855	40.76693	-73.98139	2	1.279832720
## 5857	40.74836	-73.99031	1	-0.942316878
## 5858	40.76665	-73.98281	2	0.703719861
## 5860	40.72156	-73.98866	2	-0.354446614
## 5862	40.72282	-73.98908	1	0.233423650
## 5863	40.76566	-73.97873	2	3.172774970
## 5865	40.73194	-74.00241	2	0.221666245
## 5867	40.74192	-73.99677	2	-0.530807693
## 5868	40.71632	-73.99328	1	-0.742440988
## 5870	40.79961	-73.96654	1	-0.707168773
## 5872	40.76920	-73.96754	2	0.221666245
## 5873	40.80489	-73.95171	1	-0.354446614
## 5875	40.74636	-73.97830	2	0.233423650
## 5877	40.72051	-73.99513	2	1.115229046
## 5878	40.81850	-73.94420	1	-1.001103905
## 5880	40.79795	-73.94420	2	0.350997703
## 5882	40.77789	-73.97701	2	0.586145808
## 5883	40.78366	-73.97899	2	0.574388403
## 5885	40.80519	-73.95091	1	-0.354446614
## 5887	40.71844	-74.00228	2	0.256938461
## 5888	40.72626	-73.97822	1	-0.354446614
## 5890	40.73036	-73.98673	2	1.409164178
## 5892	40.73007	-74.00193	2	0.821293914
## 5893	40.76109	-73.99417	2	1.350377152
## 5895	40.71759	-73.98420	2	0.527358782
## 5897	40.74150	-73.98354	2	0.104092192
## 5898	40.80756	-73.96724	1	-0.883529852
## 5900	40.73383	-73.99899	2	0.821293914
## 5902	40.76684	-73.98766	1	-0.824742825
## 5903	40.73926	-73.98758	2	0.233423650
## 5905	40.72740	-73.99991	2	1.409164178
## 5907	40.75578	-73.99523	1	0.186394029
## 5908	40.82198	-73.95418	1	-1.036376120
## 5910	40.78929	-73.94178	3	-0.707168773
## 5912	40.81218	-73.96112	2	0.821293914
## 5913	40.78048	-73.98211	2	0.821293914
## 5915	40.76625	-73.97886	2	0.997654993
## 5917	40.74892	-73.98280	2	-0.236872561
## 5918	40.74909	-73.98253	2	-0.236872561
## 5920	40.74676	-73.99562	2	0.809536509
## 5922	40.78148	-73.97869	2	0.115849597
## 5923	40.78469	-73.97380	2	2.349756601
## 5925	40.71192	-74.01572	2	1.115229046
## 5927	40.71908	-73.98633	2	0.515601377
## 5928	40.76443	-73.98728	2	0.233423650
## 5930	40.71607	-73.98439	2	0.057062571
## 5932	40.71282	-73.98915	2	0.174636624
## 5933	40.79111	-73.94077	1	-0.942316878
## 5935	40.78614	-73.95541	1	-0.942316878
## 5937	40.77481	-73.98144	1	-0.472020667
## 5938	40.81508	-73.95935	1	-0.954074283
## 5940	40.77878	-73.95148	1	-0.354446614

## 5942	40.76481	-73.95651	2	1.115229046
## 5943	40.80541	-73.96576	2	-0.389718830
## 5945	40.73342	-74.00615	2	0.821293914
## 5947	40.76455	-73.98855	2	0.115849597
## 5948	40.78590	-73.97790	1	-0.413233640
## 5950	40.72537	-73.99054	2	1.409164178
## 5952	40.73491	-74.00578	2	0.104092192
## 5953	40.75606	-73.97108	1	0.233423650
## 5955	40.71689	-74.00563	1	-0.648381746
## 5957	40.72370	-73.98223	1	-0.589594720
## 5958	40.72504	-73.98242	1	-0.354446614
## 5960	40.77208	-73.98907	1	-0.013481861
## 5962	40.76059	-73.99475	1	-0.824742825
## 5963	40.78364	-73.97632	2	1.044684614
## 5965	40.74604	-73.98555	2	-0.119298508
## 5967	40.82362	-73.95063	1	-0.707168773
## 5968	40.75199	-73.97193	1	-0.354446614
## 5970	40.71858	-73.98613	1	-0.707168773
## 5972	40.80460	-73.96540	2	-0.483778072
## 5973	40.73048	-73.98197	2	0.280453271
## 5975	40.72336	-73.99618	1	-0.836500231
## 5977	40.72658	-73.97827	1	-0.013481861
## 5978	40.76019	-73.99299	1	-0.295659588
## 5980	40.76438	-73.95871	2	0.468571756
## 5982	40.78239	-73.97581	2	0.809536509
## 5983	40.71742	-74.00396	2	4.172154419
## 5985	40.85139	-73.93722	2	0.233423650
## 5987	40.83403	-73.93867	2	0.821293914
## 5988	40.79930	-73.96642	2	-0.472020667
## 5990	40.82501	-73.95125	2	-0.354446614
## 5992	40.72173	-73.99351	1	-0.707168773
## 5993	40.71814	-73.99166	1	-0.648381746
## 5995	40.80137	-73.96150	1	-0.589594720
## 5997	40.75065	-73.98204	2	0.292210676
## 5998	40.71835	-73.99138	1	-0.765955799
## 6000	40.74711	-73.97694	2	-0.178085535
## 6002	40.74677	-73.97846	2	-0.060511482
## 6003	40.74676	-73.97682	2	0.233423650
## 6005	40.74495	-73.97627	2	0.233423650
## 6007	40.86860	-73.92594	1	-1.001103905
## 6008	40.72324	-73.98195	2	-0.883529852
## 6010	40.73628	-73.98549	1	-0.354446614
## 6012	40.73004	-74.00381	2	0.209908839
## 6013	40.79546	-73.97497	1	-0.354446614
## 6015	40.75221	-73.97157	2	-0.342689209
## 6017	40.79072	-73.97252	2	0.233423650
## 6018	40.76458	-73.99007	1	-0.330931804
## 6020	40.73652	-73.98458	1	-0.178085535
## 6022	40.71686	-73.98346	1	-0.472020667
## 6023	40.71474	-73.99778	2	-0.119298508
## 6025	40.76501	-73.95862	2	0.186394029
## 6027	40.72515	-73.99919	2	-0.178085535
## 6028	40.80195	-73.96714	1	-0.954074283
## 6030	40.76244	-73.99295	2	0.421542134

## 6032	40.78352	-73.94973	2	0.233423650
## 6033	40.777845	-73.97985	2	0.527358782
## 6035	40.74135	-73.99507	2	3.466710102
## 6037	40.74845	-73.99635	2	0.468571756
## 6038	40.86569	-73.92865	2	-0.119298508
## 6040	40.72627	-73.98020	1	-0.589594720
## 6042	40.72434	-73.98447	1	-0.601352125
## 6043	40.81184	-73.94287	2	1.126986451
## 6045	40.76660	-73.99256	2	-0.377961425
## 6047	40.77292	-73.95015	1	-0.060511482
## 6048	40.74396	-73.97580	2	0.574388403
## 6050	40.82915	-73.94034	2	-0.366204019
## 6052	40.82624	-73.94340	1	-0.883529852
## 6053	40.82353	-73.93824	1	-0.472020667
## 6055	40.70938	-74.01371	2	-0.154570724
## 6057	40.72780	-73.98041	1	0.703719861
## 6058	40.71924	-73.99719	2	1.397406773
## 6060	40.73454	-74.00141	2	-0.060511482
## 6062	40.72321	-73.99532	2	0.527358782
## 6063	40.79954	-73.96260	1	-1.036376120
## 6065	40.81566	-73.94293	1	-0.413233640
## 6067	40.79616	-73.97506	1	-1.001103905
## 6068	40.76120	-73.96254	2	-0.413233640
## 6070	40.73326	-74.00577	1	-0.530807693
## 6072	40.80082	-73.96059	2	2.584904706
## 6073	40.78630	-73.97658	2	0.233423650
## 6075	40.80986	-73.95945	2	-0.354446614
## 6077	40.80729	-73.95238	1	-0.236872561
## 6078	40.82753	-73.94862	2	-0.472020667
## 6080	40.82069	-73.95549	1	-0.824742825
## 6082	40.76266	-73.95989	2	0.233423650
## 6083	40.74156	-74.00037	2	0.527358782
## 6085	40.72962	-73.98078	2	-0.119298508
## 6087	40.76947	-73.94303	1	-0.589594720
## 6088	40.74201	-74.00325	2	1.279832720
## 6090	40.72597	-73.98380	1	-0.472020667
## 6092	40.85064	-73.93833	1	-0.648381746
## 6093	40.73061	-73.98335	1	-0.354446614
## 6095	40.76407	-73.98579	1	-0.389718830
## 6097	40.72485	-74.00254	2	0.644932835
## 6098	40.78778	-73.97498	2	0.821293914
## 6100	40.74091	-73.98271	2	-0.330931804
## 6102	40.75939	-73.96949	2	0.821293914
## 6103	40.72354	-73.99333	1	-0.542565099
## 6105	40.75979	-73.96079	2	0.256938461
## 6107	40.83871	-73.94680	1	-0.848257636
## 6108	40.72152	-73.99476	1	0.339240298
## 6110	40.72063	-73.98944	2	0.233423650
## 6112	40.80197	-73.93888	1	-0.883529852
## 6113	40.83379	-73.94141	3	-1.106920552
## 6115	40.80057	-73.95468	1	0.574388403
## 6117	40.79865	-73.95295	1	0.221666245
## 6118	40.80926	-73.95455	2	0.233423650
## 6120	40.71780	-73.98504	3	-0.236872561

## 6122	40.73375	-73.98474	1	-0.530807693
## 6123	40.79933	-73.95296	1	0.691962456
## 6125	40.82774	-73.94983	1	-0.648381746
## 6127	40.79370	-73.96520	2	0.233423650
## 6128	40.72148	-73.99581	1	-0.295659588
## 6130	40.72747	-73.98833	2	-0.824742825
## 6132	40.74560	-73.99852	1	-0.918802068
## 6133	40.76374	-73.98872	2	-0.178085535
## 6135	40.72774	-73.98211	1	-0.589594720
## 6137	40.75763	-73.96359	1	-0.119298508
## 6138	40.79637	-73.96996	3	-0.765955799
## 6140	40.72314	-73.97970	1	-0.824742825
## 6142	40.70524	-74.01278	2	1.174016072
## 6143	40.73618	-73.98330	2	1.409164178
## 6145	40.72895	-73.99340	2	4.336758093
## 6147	40.79437	-73.97152	2	0.409784729
## 6148	40.79805	-73.93943	2	0.586145808
## 6150	40.82914	-73.94254	1	-1.095163147
## 6152	40.72299	-73.99251	2	0.809536509
## 6153	40.71757	-73.99028	1	-0.530807693
## 6155	40.80114	-73.96772	2	1.409164178
## 6157	40.79400	-73.94585	2	-0.354446614
## 6158	40.76882	-73.94315	1	-0.707168773
## 6160	40.77791	-73.95362	2	0.586145808
## 6162	40.76544	-73.98651	2	0.057062571
## 6163	40.79544	-73.96736	2	0.115849597
## 6165	40.70503	-74.00674	2	0.409784729
## 6167	40.73008	-73.98996	1	-0.460263262
## 6168	40.74729	-73.99107	1	0.527358782
## 6170	40.80033	-73.95280	1	0.809536509
## 6172	40.71334	-73.98575	1	-1.059890931
## 6173	40.74443	-73.97949	2	1.232803099
## 6175	40.74666	-73.97847	2	0.057062571
## 6177	40.83473	-73.93858	1	-0.624866936
## 6178	40.75686	-73.96723	2	1.174016072
## 6180	40.81052	-73.94008	1	0.821293914
## 6182	40.76090	-73.99405	2	1.409164178
## 6183	40.76577	-73.98550	1	0.057062571
## 6185	40.76646	-73.98704	3	-0.942316878
## 6187	40.78464	-73.95142	2	0.104092192
## 6188	40.77760	-73.95277	2	2.702478759
## 6190	40.78593	-73.94169	1	-0.824742825
## 6192	40.82042	-73.95305	1	-0.765955799
## 6193	40.75295	-73.98889	2	0.350997703
## 6195	40.78703	-73.95196	2	1.409164178
## 6197	40.78162	-73.94750	3	-0.060511482
## 6198	40.79121	-73.96963	2	1.526738231
## 6200	40.72156	-73.97902	1	-0.472020667
## 6202	40.75168	-73.99376	1	-0.577837314
## 6203	40.79346	-73.94613	2	-0.530807693
## 6205	40.73555	-73.98994	2	0.821293914
## 6207	40.72551	-73.99075	2	-0.095783698
## 6208	40.76367	-73.98613	2	3.172774970
## 6210	40.78165	-73.94647	2	-0.236872561

## 6212	40.85143	-73.93089	1	-1.001103905
## 6213	40.79939	-73.96875	2	0.174636624
## 6215	40.80076	-73.96389	3	-0.354446614
## 6217	40.82284	-73.94199	1	-0.472020667
## 6218	40.76824	-73.95858	2	0.057062571
## 6220	40.74673	-73.97343	2	-0.554322504
## 6222	40.83790	-73.94095	1	-1.177464984
## 6223	40.79988	-73.96120	1	-1.001103905
## 6225	40.78923	-73.96802	2	0.057062571
## 6227	40.73013	-74.00172	1	-0.589594720
## 6228	40.73968	-73.99693	2	-0.119298508
## 6230	40.79037	-73.94280	2	-0.472020667
## 6232	40.76343	-73.99391	2	-0.119298508
## 6233	40.71489	-73.99100	1	-0.354446614
## 6235	40.73562	-73.98308	1	-0.472020667
## 6237	40.72647	-73.99061	2	1.044684614
## 6238	40.73270	-74.00341	1	-0.589594720
## 6240	40.71578	-73.98201	1	-0.977589094
## 6242	40.73466	-73.99539	2	1.162258667
## 6243	40.75126	-73.99498	1	0.104092192
## 6245	40.82021	-73.95307	1	-0.507292883
## 6247	40.80639	-73.95551	2	-0.060511482
## 6248	40.74751	-73.99483	1	-0.530807693
## 6250	40.74973	-73.99515	1	-0.530807693
## 6252	40.79783	-73.96405	2	1.703099310
## 6253	40.74398	-73.99664	3	-0.989346499
## 6255	40.85823	-73.93612	1	-0.413233640
## 6257	40.76574	-73.95915	1	-0.589594720
## 6258	40.72302	-74.00487	1	-0.566079909
## 6260	40.76278	-73.96638	1	-0.648381746
## 6262	40.72948	-73.98885	2	3.760645234
## 6263	40.79004	-73.97308	1	-0.366204019
## 6265	40.76696	-73.99139	1	-0.472020667
## 6267	40.79182	-73.96564	2	0.821293914
## 6268	40.81306	-73.94141	2	-0.707168773
## 6270	40.79753	-73.96211	2	1.409164178
## 6272	40.83338	-73.95051	1	-0.836500231
## 6273	40.82385	-73.94687	1	-0.589594720
## 6275	40.72997	-73.98633	1	-0.013481861
## 6277	40.73331	-73.98229	1	-0.789470609
## 6278	40.73557	-74.00600	2	-0.119298508
## 6280	40.73988	-73.97968	2	3.760645234
## 6282	40.74666	-74.00201	2	0.586145808
## 6283	40.76467	-73.99422	2	0.644932835
## 6285	40.71448	-73.99157	1	-0.236872561
## 6287	40.76952	-73.95688	2	-0.060511482
## 6288	40.74080	-74.00127	2	1.115229046
## 6290	40.75500	-73.96562	1	2.290969574
## 6292	40.76295	-73.99432	2	-0.001724456
## 6293	40.77032	-73.95268	2	0.574388403
## 6295	40.77929	-73.98513	1	-0.366204019
## 6297	40.79013	-73.94473	1	-0.648381746
## 6298	40.74410	-73.97224	3	0.821293914
## 6300	40.80387	-73.96096	2	-0.472020667

## 6302	40.79886	-73.96157	2	0.021790355
## 6303	40.75685	-73.99569	2	1.409164178
## 6305	40.72396	-73.99445	2	-0.366204019
## 6307	40.75645	-73.99404	2	0.821293914
## 6308	40.86912	-73.91988	1	-0.707168773
## 6310	40.81535	-73.95862	2	0.233423650
## 6312	40.80097	-73.94890	1	-0.483778072
## 6313	40.72760	-74.00075	2	0.821293914
## 6315	40.76530	-73.98536	2	-0.154570724
## 6317	40.73242	-74.00411	2	0.233423650
## 6318	40.73880	-73.98024	2	-0.119298508
## 6320	40.86679	-73.92699	2	-0.178085535
## 6322	40.72112	-74.00039	1	0.233423650
## 6323	40.72215	-73.98496	2	0.409784729
## 6325	40.79816	-73.97178	2	0.527358782
## 6327	40.72999	-73.98275	1	-0.589594720
## 6328	40.73804	-73.98520	2	-0.236872561
## 6330	40.76797	-73.95369	1	-0.942316878
## 6332	40.77141	-73.95340	3	-1.059890931
## 6333	40.74095	-73.98554	1	-0.530807693
## 6335	40.76189	-73.94934	1	-0.777713204
## 6337	40.83365	-73.94459	1	-0.765955799
## 6338	40.76504	-73.98856	2	0.821293914
## 6340	40.80554	-73.96422	2	-0.589594720
## 6342	40.80526	-73.95509	1	-0.589594720
## 6343	40.71331	-73.99822	2	-0.354446614
## 6345	40.74358	-73.99758	1	-0.001724456
## 6347	40.74620	-73.97707	2	-0.295659588
## 6348	40.76407	-73.98868	2	0.456814350
## 6350	40.80806	-73.94350	2	-0.354446614
## 6352	40.75979	-73.99216	1	-0.648381746
## 6353	40.76371	-73.99306	2	1.409164178
## 6355	40.81389	-73.95205	1	-1.001103905
## 6357	40.72088	-73.98533	2	0.821293914
## 6358	40.72891	-74.00109	2	0.221666245
## 6360	40.777949	-73.94973	2	0.233423650
## 6362	40.73967	-73.98643	2	-0.366204019
## 6363	40.72689	-74.00086	2	-0.236872561
## 6365	40.75299	-73.97154	2	3.172774970
## 6367	40.83525	-73.94520	1	-1.106920552
## 6368	40.85612	-73.93024	1	-1.001103905
## 6370	40.77516	-73.95550	3	-0.589594720
## 6372	40.83625	-73.94062	1	-1.059890931
## 6373	40.72633	-73.98068	2	1.938247416
## 6375	40.80283	-73.96504	2	-0.824742825
## 6377	40.80300	-73.96459	2	0.233423650
## 6378	40.71786	-74.00009	2	-0.295659588
## 6380	40.75598	-73.96664	2	0.057062571
## 6382	40.76438	-73.99482	2	-0.060511482
## 6383	40.82289	-73.94915	1	-0.918802068
## 6385	40.73860	-73.99775	1	-0.707168773
## 6387	40.72931	-73.98222	2	1.409164178
## 6388	40.79277	-73.97613	2	0.233423650
## 6390	40.70985	-73.98724	3	-1.118677957

## 6392	40.72965	-74.00261	1	-0.366204019
## 6393	40.76364	-73.98980	2	0.468571756
## 6395	40.79583	-73.97493	2	-0.507292883
## 6397	40.76382	-73.99498	2	0.115849597
## 6398	40.72221	-73.99284	2	3.113987944
## 6400	40.82630	-73.94375	2	0.797779103
## 6402	40.72663	-73.97852	1	-0.765955799
## 6403	40.79226	-73.93895	1	0.233423650
## 6405	40.82332	-73.94705	1	-1.059890931
## 6407	40.82765	-73.94889	1	-0.060511482
## 6408	40.75862	-73.96841	2	0.350997703
## 6410	40.71628	-73.98999	1	-0.530807693
## 6412	40.71781	-73.99569	2	-0.354446614
## 6413	40.84901	-73.93859	2	-0.472020667
## 6415	40.72761	-74.00902	2	0.233423650
## 6417	40.75980	-73.98537	2	2.808295407
## 6418	40.82564	-73.94143	1	-0.824742825
## 6420	40.72794	-73.98731	2	0.691962456
## 6422	40.80735	-73.95684	2	1.997034442
## 6423	40.80771	-73.93967	1	-0.765955799
## 6425	40.75774	-73.99523	2	-0.589594720
## 6427	40.81238	-73.95319	1	-0.718926178
## 6428	40.76355	-73.99391	2	0.233423650
## 6430	40.72640	-73.97889	2	0.809536509
## 6432	40.76578	-73.99309	2	-0.119298508
## 6433	40.78482	-73.95191	2	-0.472020667
## 6435	40.76163	-73.96956	1	-0.707168773
## 6437	40.71567	-74.00061	2	0.821293914
## 6438	40.78731	-73.97407	2	0.174636624
## 6440	40.84393	-73.94065	1	-0.554322504
## 6442	40.83135	-73.94442	2	0.821293914
## 6443	40.72118	-73.98875	1	-0.354446614
## 6445	40.82645	-73.94426	1	-0.860015041
## 6447	40.75744	-73.99360	1	-0.472020667
## 6448	40.72683	-73.99328	2	0.586145808
## 6450	40.73427	-73.98456	2	1.409164178
## 6452	40.74545	-73.98128	1	-0.213357751
## 6453	40.79191	-73.97322	2	-0.154570724
## 6455	40.80586	-73.93861	2	-0.648381746
## 6457	40.71130	-73.99442	2	-0.354446614
## 6458	40.80288	-73.96484	1	-0.060511482
## 6460	40.74389	-73.98515	1	-0.119298508
## 6462	40.76162	-73.96588	2	0.092334787
## 6463	40.75925	-73.99427	1	0.233423650
## 6465	40.76792	-73.96724	2	0.280453271
## 6467	40.75577	-73.99466	2	0.644932835
## 6468	40.72196	-73.98345	1	-0.260387372
## 6470	40.73598	-73.98161	2	-0.060511482
## 6472	40.73180	-73.98998	2	1.174016072
## 6473	40.72003	-73.98646	1	0.821293914
## 6475	40.82485	-73.93774	2	-0.648381746
## 6477	40.73386	-74.00460	2	0.809536509
## 6478	40.75771	-73.96872	1	-0.472020667
## 6480	40.71894	-73.99293	2	1.162258667

## 6482	40.77837	-73.94802	1	-0.707168773
## 6483	40.76096	-73.96720	1	-0.119298508
## 6485	40.75266	-73.97378	2	0.350997703
## 6487	40.72434	-73.98904	2	0.115849597
## 6488	40.85585	-73.93741	2	-0.060511482
## 6490	40.73570	-73.98396	1	0.821293914
## 6492	40.72224	-73.99192	2	0.468571756
## 6493	40.83336	-73.94333	1	-0.707168773
## 6495	40.77616	-73.98485	2	1.409164178
## 6497	40.72814	-73.97995	1	-0.530807693
## 6498	40.80296	-73.94399	1	-0.824742825
## 6500	40.79589	-73.96811	2	0.174636624
## 6502	40.73313	-74.00336	2	1.409164178
## 6503	40.86083	-73.92626	2	0.115849597
## 6505	40.73235	-73.98823	2	1.820673363
## 6507	40.72152	-73.97999	1	-0.765955799
## 6508	40.76796	-73.95205	2	-0.001724456
## 6510	40.73280	-73.98410	2	0.174636624
## 6512	40.86679	-73.92552	1	-1.118677957
## 6513	40.72048	-73.99060	1	2.290969574
## 6515	40.76898	-73.98453	1	-0.295659588
## 6517	40.79153	-73.97174	2	0.527358782
## 6518	40.73469	-73.99838	2	0.821293914
## 6520	40.71987	-73.99729	3	-0.765955799
## 6522	40.79191	-73.94613	1	-0.765955799
## 6523	40.76179	-73.99403	1	-0.236872561
## 6525	40.81696	-73.94164	1	-0.589594720
## 6527	40.77271	-73.98811	2	0.703719861
## 6528	40.79766	-73.94756	2	1.291590125
## 6530	40.81633	-73.96147	2	-0.236872561
## 6532	40.74721	-73.98968	1	-0.765955799
## 6533	40.80761	-73.94249	2	0.115849597
## 6535	40.79736	-73.94442	1	-0.354446614
## 6537	40.72793	-73.98771	2	0.527358782
## 6538	40.74448	-73.99221	1	-0.589594720
## 6540	40.73682	-74.00238	2	0.339240298
## 6542	40.73117	-73.98386	2	0.527358782
## 6543	40.82044	-73.93605	1	-0.354446614
## 6545	40.80060	-73.95314	1	-0.883529852
## 6547	40.74308	-73.98172	1	0.821293914
## 6548	40.77327	-73.94982	1	-0.472020667
## 6550	40.73982	-74.00807	2	1.150501262
## 6552	40.82283	-73.95247	1	-0.765955799
## 6553	40.73642	-74.00263	2	0.680205051
## 6555	40.73133	-74.00459	1	-0.001724456
## 6557	40.74370	-73.99476	2	0.821293914
## 6558	40.75994	-73.99781	2	1.174016072
## 6560	40.72526	-73.99031	1	-0.601352125
## 6562	40.76279	-73.98540	2	1.820673363
## 6563	40.76144	-73.99827	2	3.419680481
## 6565	40.81575	-73.94913	2	0.456814350
## 6567	40.79890	-73.96775	1	-0.119298508
## 6568	40.80136	-73.95476	2	0.115849597
## 6570	40.81086	-73.94037	2	-0.636624341

## 6572	40.72225	-73.99473	2	0.115849597
## 6573	40.76584	-73.98422	2	1.115229046
## 6575	40.87665	-73.90855	2	0.010032950
## 6577	40.80792	-73.96728	2	3.760645234
## 6578	40.74573	-73.97802	2	-0.354446614
## 6580	40.77156	-73.98284	1	1.761886337
## 6582	40.74549	-73.99473	1	-0.542565099
## 6583	40.80752	-73.96713	2	2.878839838
## 6585	40.82334	-73.94811	2	0.409784729
## 6587	40.83038	-73.94531	1	-1.001103905
## 6588	40.76687	-73.98273	2	3.172774970
## 6590	40.75921	-73.97361	1	1.409164178
## 6592	40.79712	-73.93469	1	-1.012861310
## 6593	40.72190	-73.99669	2	0.821293914
## 6595	40.78687	-73.94542	2	-0.119298508
## 6597	40.74161	-74.00162	1	-0.707168773
## 6598	40.76973	-73.95660	1	-0.483778072
## 6600	40.76991	-73.95145	1	-0.472020667
## 6602	40.83480	-73.94067	2	0.233423650
## 6603	40.84077	-73.93924	2	-0.530807693
## 6605	40.84098	-73.94085	2	-0.236872561
## 6607	40.74512	-73.98176	1	-0.648381746
## 6608	40.76530	-73.98825	1	-0.836500231
## 6610	40.76035	-73.99052	2	0.092334787
## 6612	40.79504	-73.94584	2	1.115229046
## 6613	40.71351	-73.99692	1	0.233423650
## 6615	40.77872	-73.98025	2	0.115849597
## 6617	40.74710	-73.97263	2	0.703719861
## 6618	40.74118	-74.00012	1	-0.236872561
## 6620	40.77697	-73.95372	2	-0.648381746
## 6622	40.74644	-73.98389	2	0.821293914
## 6623	40.74969	-73.97298	2	0.115849597
## 6625	40.74342	-73.97505	2	0.057062571
## 6627	40.71380	-73.99758	1	-0.413233640
## 6628	40.81045	-73.95961	1	-1.059890931
## 6630	40.75438	-73.96576	1	-0.366204019
## 6632	40.79795	-73.96156	2	1.985277037
## 6633	40.79908	-73.96141	1	-0.601352125
## 6635	40.79828	-73.97166	2	-0.413233640
## 6637	40.74550	-73.98112	2	0.997654993
## 6638	40.76105	-73.96222	2	3.760645234
## 6640	40.75615	-73.96490	2	2.643691733
## 6642	40.74754	-73.97199	2	1.961762226
## 6643	40.78465	-73.95735	2	0.033547760
## 6645	40.71854	-73.98362	1	1.409164178
## 6647	40.71222	-73.99566	1	-0.648381746
## 6648	40.71885	-73.99572	2	0.139364408
## 6650	40.73737	-73.97995	1	-0.389718830
## 6652	40.75573	-73.99228	2	0.527358782
## 6653	40.76406	-73.99100	2	0.644932835
## 6655	40.71957	-73.99573	2	0.527358782
## 6657	40.83463	-73.94000	3	-1.153950173
## 6658	40.76870	-73.95705	1	-0.589594720
## 6660	40.84326	-73.93901	2	-0.354446614

## 6662	40.84810	-73.93585	2	-0.354446614
## 6663	40.72868	-73.98635	1	-0.472020667
## 6665	40.76453	-73.97769	1	1.820673363
## 6667	40.73955	-73.98568	2	1.703099310
## 6668	40.80306	-73.95308	2	1.409164178
## 6670	40.78126	-73.94655	2	0.033547760
## 6672	40.72818	-73.99886	2	0.139364408
## 6673	40.83441	-73.93706	2	-0.413233640
## 6675	40.80069	-73.95341	1	-0.366204019
## 6677	40.77933	-73.94862	2	-0.131055914
## 6678	40.73458	-73.98128	1	-0.366204019
## 6680	40.72616	-74.00102	2	1.162258667
## 6682	40.80797	-73.94243	2	0.880080940
## 6683	40.78833	-73.97026	2	0.233423650
## 6685	40.77830	-73.98807	2	0.492086566
## 6687	40.74021	-73.97992	2	0.033547760
## 6688	40.78240	-73.98215	2	0.233423650
## 6690	40.71674	-73.98995	2	-0.119298508
## 6692	40.71555	-73.99091	2	0.586145808
## 6693	40.72025	-73.98372	2	0.174636624
## 6695	40.75977	-73.95917	2	0.586145808
## 6697	40.72573	-73.98406	1	-0.131055914
## 6698	40.78002	-73.95284	2	-0.060511482
## 6700	40.77889	-73.98780	1	-0.413233640
## 6702	40.74168	-73.98040	2	0.339240298
## 6703	40.72223	-73.99189	2	1.056442020
## 6705	40.73082	-73.98445	2	-0.707168773
## 6707	40.82840	-73.94461	1	-0.577837314
## 6708	40.81327	-73.94628	2	0.703719861
## 6710	40.85029	-73.93645	3	2.702478759
## 6712	40.81613	-73.94622	2	0.233423650
## 6713	40.82490	-73.94288	2	-0.001724456
## 6715	40.70666	-74.00597	1	-0.824742825
## 6717	40.77034	-73.96257	2	-0.060511482
## 6718	40.75892	-73.98949	2	0.033547760
## 6720	40.76235	-73.98872	2	0.527358782
## 6722	40.75387	-73.96744	2	-0.060511482
## 6723	40.74128	-73.98039	2	0.339240298
## 6725	40.72941	-73.98336	2	0.209908839
## 6727	40.82066	-73.95259	2	1.115229046
## 6728	40.79945	-73.93460	1	-0.707168773
## 6730	40.77815	-73.96158	2	3.172774970
## 6732	40.76226	-73.99285	2	0.809536509
## 6733	40.76452	-73.99439	2	0.821293914
## 6735	40.83155	-73.94489	1	-0.942316878
## 6737	40.73573	-73.99496	2	0.256938461
## 6738	40.74773	-73.98079	2	1.409164178
## 6740	40.80109	-73.96128	1	-0.401476235
## 6742	40.78226	-73.95332	2	-0.119298508
## 6743	40.77189	-73.95540	1	-0.095783698
## 6745	40.72295	-73.99481	1	1.409164178
## 6747	40.73892	-74.00385	2	-0.001724456
## 6748	40.78484	-73.97707	2	0.280453271
## 6750	40.73755	-73.98041	2	-0.001724456

## 6752	40.75660	-73.96956	2	0.033547760
## 6753	40.74341	-73.98950	2	1.703099310
## 6755	40.74025	-73.97896	2	0.139364408
## 6757	40.79622	-73.96988	2	3.466710102
## 6758	40.70544	-74.01616	2	-0.236872561
## 6760	40.83039	-73.94532	1	-0.765955799
## 6762	40.74381	-73.98016	2	0.233423650
## 6763	40.81616	-73.93885	1	-0.660139151
## 6765	40.72099	-73.97993	1	-0.718926178
## 6767	40.74392	-74.00113	2	0.139364408
## 6768	40.82403	-73.95379	1	-0.648381746
## 6770	40.76362	-73.99033	1	-0.601352125
## 6772	40.78967	-73.94741	2	-0.354446614
## 6773	40.72804	-73.98281	2	0.115849597
## 6775	40.80029	-73.96626	1	-0.648381746
## 6777	40.82247	-73.95341	1	-0.707168773
## 6778	40.76078	-73.99864	2	0.809536509
## 6780	40.77384	-73.95619	2	0.233423650
## 6782	40.73146	-74.00392	1	-0.295659588
## 6783	40.79556	-73.93250	1	-0.483778072
## 6785	40.80678	-73.94976	2	0.527358782
## 6787	40.83288	-73.94306	1	-0.707168773
## 6788	40.71893	-74.00485	1	-0.824742825
## 6790	40.76594	-73.98510	2	0.821293914
## 6792	40.73178	-74.00173	2	1.997034442
## 6793	40.80012	-73.94272	1	-0.765955799
## 6795	40.80403	-73.95427	2	0.209908839
## 6797	40.75519	-73.99331	2	0.350997703
## 6798	40.72175	-73.98088	2	1.409164178
## 6800	40.80477	-73.95454	1	-1.059890931
## 6802	40.78870	-73.94736	2	-0.060511482
## 6803	40.73911	-74.00047	2	1.115229046
## 6805	40.76053	-73.96181	2	-0.236872561
## 6807	40.78592	-73.97447	2	-0.295659588
## 6808	40.82776	-73.94701	2	-0.472020667
## 6810	40.74962	-73.97431	2	1.409164178
## 6812	40.84216	-73.94101	2	-0.413233640
## 6813	40.76272	-73.96269	1	-0.718926178
## 6815	40.74069	-74.00069	2	0.809536509
## 6817	40.76554	-73.98289	2	1.279832720
## 6818	40.76537	-73.98332	2	1.279832720
## 6820	40.76497	-73.98201	2	1.279832720
## 6822	40.76685	-73.98363	2	1.279832720
## 6823	40.80229	-73.96719	2	-0.589594720
## 6825	40.78466	-73.97276	2	0.821293914
## 6827	40.74418	-73.97565	1	-0.707168773
## 6828	40.76647	-73.98290	2	2.808295407
## 6830	40.76484	-73.98326	2	1.279832720
## 6832	40.79741	-73.93884	1	-0.942316878
## 6833	40.82450	-73.94264	2	-0.119298508
## 6835	40.71869	-73.99141	2	0.115849597
## 6837	40.72296	-73.98322	2	3.760645234
## 6838	40.74391	-73.99582	2	2.584904706
## 6840	40.79796	-73.93921	1	-0.918802068

## 6842	40.75857	-73.98942	1	-0.765955799
## 6843	40.73844	-73.99262	1	0.233423650
## 6845	40.77713	-73.97758	2	2.290969574
## 6847	40.78807	-73.97406	1	-0.648381746
## 6848	40.81574	-73.94871	1	-0.683653962
## 6850	40.80970	-73.94256	2	-0.060511482
## 6852	40.74507	-73.99452	2	0.527358782
## 6853	40.85496	-73.93406	2	-0.542565099
## 6855	40.77710	-73.97729	2	0.350997703
## 6857	40.80031	-73.95847	2	2.937626865
## 6858	40.76571	-73.98312	2	1.279832720
## 6860	40.76626	-73.98342	2	-0.013481861
## 6862	40.77924	-73.94924	2	0.115849597
## 6863	40.76642	-73.98326	2	1.279832720
## 6865	40.76567	-73.98308	2	1.279832720
## 6867	40.76511	-73.98345	2	1.279832720
## 6868	40.75547	-73.99501	2	0.468571756
## 6870	40.76545	-73.98156	2	1.279832720
## 6872	40.74491	-73.99536	1	0.527358782
## 6873	40.76630	-73.98359	2	1.279832720
## 6875	40.78342	-73.97312	2	-0.060511482
## 6877	40.75237	-73.98769	2	2.385028816
## 6878	40.71370	-73.99638	1	-0.472020667
## 6880	40.79565	-73.96584	2	3.172774970
## 6882	40.73974	-74.00069	2	0.891838346
## 6883	40.82119	-73.95556	1	-0.707168773
## 6885	40.80726	-73.95178	1	-0.566079909
## 6887	40.76537	-73.98298	2	2.808295407
## 6888	40.74749	-73.98873	2	-0.366204019
## 6890	40.73949	-73.99801	2	1.056442020
## 6892	40.77117	-73.95851	2	-0.648381746
## 6893	40.78890	-73.97290	2	1.997034442
## 6895	40.79546	-73.96452	1	-0.377961425
## 6897	40.70350	-74.00713	2	0.562630998
## 6898	40.82600	-73.94314	1	-0.824742825
## 6900	40.73375	-73.98704	2	0.550873593
## 6902	40.74771	-73.98727	2	0.104092192
## 6903	40.76735	-73.98578	2	-0.354446614
## 6905	40.70433	-74.00782	2	0.527358782
## 6907	40.80237	-73.94370	1	1.409164178
## 6908	40.72772	-73.97978	1	-0.589594720
## 6910	40.72592	-73.99026	2	0.221666245
## 6912	40.72827	-73.98630	1	-0.236872561
## 6913	40.73971	-73.99829	1	0.574388403
## 6915	40.74971	-73.99533	1	-0.530807693
## 6917	40.78942	-73.96768	2	0.821293914
## 6918	40.76740	-73.95559	1	-0.413233640
## 6920	40.78864	-73.97452	3	-0.530807693
## 6922	40.78230	-73.98081	1	-0.542565099
## 6923	40.80807	-73.94868	1	-0.413233640
## 6925	40.79610	-73.96300	1	-0.472020667
## 6927	40.70538	-74.00664	2	0.527358782
## 6928	40.79073	-73.94669	2	-0.178085535
## 6930	40.78821	-73.94927	2	0.292210676

## 6932	40.85264	-73.92976	2	-0.824742825
## 6933	40.76676	-73.95753	2	0.350997703
## 6935	40.72637	-73.97682	2	0.821293914
## 6937	40.77619	-73.95106	2	0.115849597
## 6938	40.77116	-73.98796	2	0.151121813
## 6940	40.76686	-73.98198	2	3.748887829
## 6942	40.76539	-73.98348	2	2.808295407
## 6943	40.80514	-73.96349	1	-0.707168773
## 6945	40.77685	-73.95727	1	-0.765955799
## 6947	40.72705	-73.98787	2	1.703099310
## 6948	40.72553	-73.98831	1	-0.236872561
## 6950	40.85280	-73.94114	1	-0.954074283
## 6952	40.78771	-73.94197	1	-0.765955799
## 6953	40.71909	-73.98473	1	0.233423650
## 6955	40.78400	-73.97148	2	-0.354446614
## 6957	40.72838	-73.98539	2	-0.178085535
## 6958	40.72795	-73.98567	2	0.821293914
## 6960	40.76237	-73.98285	2	0.233423650
## 6962	40.77441	-73.95815	2	0.350997703
## 6963	40.72231	-73.99069	2	0.527358782
## 6965	40.83471	-73.94288	2	2.690721354
## 6967	40.71849	-73.98334	2	0.115849597
## 6968	40.77792	-73.98046	1	-0.366204019
## 6970	40.76149	-73.99159	2	2.584904706
## 6972	40.79180	-73.97413	2	0.057062571
## 6973	40.80513	-73.95445	1	-0.824742825
## 6975	40.82039	-73.94147	1	-0.718926178
## 6977	40.72591	-73.98000	2	0.233423650
## 6978	40.77398	-73.94607	1	-1.036376120
## 6980	40.72228	-73.98409	2	0.750749482
## 6982	40.80464	-73.96418	1	-0.707168773
## 6983	40.72387	-73.98939	2	0.821293914
## 6985	40.83326	-73.94215	2	2.455573248
## 6987	40.83549	-73.94729	2	-0.295659588
## 6988	40.78993	-73.94718	1	-0.707168773
## 6990	40.74566	-73.98340	1	-0.354446614
## 6992	40.79711	-73.93647	1	-0.824742825
## 6993	40.72803	-73.98853	1	-0.589594720
## 6995	40.74553	-73.99784	1	0.821293914
## 6997	40.77667	-73.95463	2	0.115849597
## 6998	40.74045	-73.99824	2	1.397406773
## 7000	40.71703	-73.99338	1	-0.424991046
## 7002	40.72444	-73.98136	1	-0.589594720
## 7003	40.79505	-73.94361	2	1.056442020
## 7005	40.72376	-73.97975	2	-0.366204019
## 7007	40.72421	-73.99041	1	0.586145808
## 7008	40.76769	-73.95850	2	-0.178085535
## 7010	40.78755	-73.95493	1	-0.483778072
## 7012	40.70799	-74.00977	2	1.997034442
## 7013	40.73365	-73.98481	1	-0.765955799
## 7015	40.71894	-73.98738	2	-0.119298508
## 7017	40.79749	-73.96307	1	-0.871772446
## 7018	40.76038	-73.98781	2	1.044684614
## 7020	40.73922	-73.98886	2	-0.178085535

## 7022	40.76058	-73.99603	2	0.115849597
## 7023	40.75228	-73.97337	1	2.690721354
## 7025	40.78898	-73.95478	1	-0.801228015
## 7027	40.74462	-73.97746	2	2.584904706
## 7028	40.76730	-73.95940	2	-0.354446614
## 7030	40.76657	-73.98207	2	0.233423650
## 7032	40.72522	-73.98114	1	0.233423650
## 7033	40.74047	-73.98932	2	0.280453271
## 7035	40.82616	-73.94023	2	-0.001724456
## 7037	40.80507	-73.96465	2	1.879460389
## 7038	40.78054	-73.97779	2	-0.530807693
## 7040	40.71472	-73.99081	2	0.762506888
## 7042	40.82579	-73.94324	2	-0.366204019
## 7043	40.76304	-73.99166	2	0.292210676
## 7045	40.76386	-73.99707	2	0.209908839
## 7047	40.72414	-73.98010	1	-0.589594720
## 7048	40.77775	-73.98169	2	0.233423650
## 7050	40.77504	-73.98960	2	0.233423650
## 7052	40.77835	-73.97655	2	0.821293914
## 7053	40.73631	-73.98525	1	0.233423650
## 7055	40.84659	-73.93252	1	-1.083405742
## 7057	40.78420	-73.95105	2	0.233423650
## 7058	40.76093	-73.99014	1	-0.354446614
## 7060	40.76590	-73.98211	2	2.290969574
## 7062	40.75914	-73.96591	2	0.703719861
## 7063	40.71640	-73.99743	2	0.527358782
## 7065	40.78406	-73.98431	2	-0.060511482
## 7067	40.81614	-73.94429	1	-0.472020667
## 7068	40.78461	-73.97787	1	-0.907044662
## 7070	40.79904	-73.96045	1	-0.236872561
## 7072	40.79433	-73.96518	2	0.821293914
## 7073	40.72981	-74.00348	2	1.691341905
## 7075	40.76148	-73.99489	1	2.584904706
## 7077	40.74930	-73.98132	2	0.586145808
## 7078	40.76231	-73.99520	2	1.115229046
## 7080	40.76589	-73.98068	2	0.233423650
## 7082	40.82356	-73.95457	1	-0.907044662
## 7083	40.76253	-73.98939	2	1.997034442
## 7085	40.74137	-74.00399	2	0.644932835
## 7087	40.76532	-73.96150	2	3.161017565
## 7088	40.79865	-73.96419	2	0.468571756
## 7090	40.80276	-73.94976	2	2.890597244
## 7092	40.72997	-73.98009	1	-0.824742825
## 7093	40.73764	-74.00146	2	1.409164178
## 7095	40.80015	-73.93764	1	-0.824742825
## 7097	40.73326	-74.00186	2	0.350997703
## 7098	40.78434	-73.97867	2	0.821293914
## 7100	40.82471	-73.94332	1	-0.707168773
## 7102	40.79860	-73.96229	2	1.703099310
## 7103	40.78305	-73.95381	3	-0.954074283
## 7105	40.80073	-73.94465	1	-0.530807693
## 7107	40.78880	-73.94247	2	0.057062571
## 7108	40.81251	-73.95412	1	-1.024618715
## 7110	40.81027	-73.94080	3	-1.071648336

## 7112	40.82859	-73.94970	1	-1.236252010
## 7113	40.80854	-73.94305	2	-0.060511482
## 7115	40.79376	-73.96734	2	0.644932835
## 7117	40.75040	-73.98775	2	0.233423650
## 7118	40.72994	-73.99455	1	-0.354446614
## 7120	40.72176	-73.99424	2	0.586145808
## 7122	40.80991	-73.94273	1	-0.671896557
## 7123	40.78265	-73.95364	1	-0.366204019
## 7125	40.76747	-73.98613	2	-0.507292883
## 7127	40.73980	-73.98208	2	0.233423650
## 7128	40.79991	-73.93630	1	-0.648381746
## 7130	40.81171	-73.95491	2	-0.354446614
## 7132	40.74187	-74.00175	1	-0.060511482
## 7133	40.86158	-73.92393	1	-0.824742825
## 7135	40.72042	-73.99844	1	-0.295659588
## 7137	40.76161	-73.96252	2	0.821293914
## 7138	40.79613	-73.96638	2	0.786021698
## 7140	40.70789	-74.01521	1	-0.472020667
## 7142	40.83170	-73.94290	2	0.586145808
## 7143	40.76344	-73.99290	2	0.139364408
## 7145	40.82730	-73.94904	1	-0.836500231
## 7147	40.81567	-73.95951	1	-0.942316878
## 7148	40.78293	-73.94691	2	0.115849597
## 7150	40.82440	-73.94400	1	-0.942316878
## 7152	40.82555	-73.95159	1	-1.001103905
## 7153	40.82433	-73.95049	1	-1.083405742
## 7155	40.82863	-73.94757	2	1.514980826
## 7157	40.83420	-73.94303	1	-0.824742825
## 7158	40.79997	-73.96529	3	-0.589594720
## 7160	40.72872	-73.98098	2	1.409164178
## 7162	40.73328	-73.98590	1	-0.472020667
## 7163	40.86927	-73.91719	1	-0.989346499
## 7165	40.75657	-73.99420	2	0.527358782
## 7167	40.75227	-73.97351	2	0.151121813
## 7168	40.73167	-73.98581	2	0.115849597
## 7170	40.80330	-73.95771	1	-0.942316878
## 7172	40.79768	-73.96330	1	-0.954074283
## 7173	40.75053	-73.99685	1	-0.883529852
## 7175	40.81934	-73.95668	1	-0.942316878
## 7177	40.76049	-73.96621	2	0.115849597
## 7178	40.76628	-73.98308	2	-0.413233640
## 7180	40.76153	-73.98915	2	1.338619746
## 7182	40.79986	-73.95387	1	-0.295659588
## 7183	40.73670	-73.98099	2	0.233423650
## 7185	40.84021	-73.94191	1	-0.930559473
## 7187	40.72073	-73.97839	1	-0.542565099
## 7188	40.72125	-73.98058	2	0.233423650
## 7190	40.79806	-73.96167	1	-0.354446614
## 7192	40.72910	-73.98628	1	-0.119298508
## 7193	40.71989	-73.98557	1	-0.472020667
## 7195	40.71114	-73.99874	1	-0.366204019
## 7197	40.81995	-73.95266	1	-0.836500231
## 7198	40.77725	-73.95137	2	0.703719861
## 7200	40.85147	-73.93618	1	-0.883529852

## 7202	40.74267	-73.99915	2	0.762506888
## 7203	40.71902	-73.98506	1	-0.472020667
## 7205	40.72817	-73.98041	1	0.233423650
## 7207	40.72358	-73.97593	1	-0.824742825
## 7208	40.80320	-73.96495	1	-0.354446614
## 7210	40.76368	-73.96153	2	0.668447645
## 7212	40.80539	-73.96409	2	-0.448505856
## 7213	40.77912	-73.95594	1	-0.354446614
## 7215	40.76014	-73.99039	2	0.233423650
## 7217	40.71028	-74.00929	1	-0.589594720
## 7218	40.71948	-74.00517	1	1.526738231
## 7220	40.80129	-73.96611	2	0.280453271
## 7222	40.75572	-73.96936	2	-0.060511482
## 7223	40.82183	-73.93780	1	-0.824742825
## 7225	40.74078	-73.99923	2	-0.354446614
## 7227	40.82420	-73.94777	1	-0.765955799
## 7228	40.73064	-74.00351	2	0.821293914
## 7230	40.74775	-73.97702	1	-0.213357751
## 7232	40.77814	-73.97627	2	2.878839838
## 7233	40.72806	-74.00381	1	-0.001724456
## 7235	40.76875	-73.95723	2	0.233423650
## 7237	40.75225	-73.99508	2	1.044684614
## 7238	40.76313	-73.99482	2	-0.178085535
## 7240	40.76474	-73.99154	2	3.161017565
## 7242	40.74849	-73.98957	2	4.113367393
## 7243	40.78458	-73.97836	2	0.586145808
## 7245	40.74859	-73.97243	2	0.786021698
## 7247	40.72472	-73.98665	2	-0.025239266
## 7248	40.73924	-73.99825	2	0.233423650
## 7250	40.73009	-74.00222	1	-0.436748451
## 7252	40.75754	-73.96943	2	-0.178085535
## 7253	40.76152	-73.98678	2	1.479708610
## 7255	40.74303	-73.99797	2	0.821293914
## 7257	40.76274	-73.98733	1	-0.354446614
## 7258	40.80288	-73.96629	1	-0.648381746
## 7260	40.78576	-73.94211	1	-0.942316878
## 7262	40.72660	-73.97872	2	0.233423650
## 7263	40.79167	-73.97273	2	0.821293914
## 7265	40.83873	-73.94118	1	-1.001103905
## 7267	40.72258	-74.00358	1	-0.530807693
## 7268	40.80794	-73.94150	1	-0.589594720
## 7270	40.82125	-73.95000	1	-0.742440988
## 7272	40.75873	-73.99197	1	0.586145808
## 7273	40.72118	-73.98697	2	0.115849597
## 7275	40.76172	-73.99706	2	0.821293914
## 7277	40.81301	-73.94955	1	-0.119298508
## 7278	40.72889	-73.98006	2	1.409164178
## 7280	40.78175	-73.97576	2	0.586145808
## 7282	40.74141	-73.97868	2	-0.507292883
## 7283	40.71981	-73.99154	2	1.115229046
## 7285	40.76222	-73.99889	2	1.279832720
## 7287	40.80045	-73.96119	1	-0.742440988
## 7288	40.81806	-73.95374	2	0.233423650
## 7290	40.83018	-73.94830	1	-0.942316878

## 7292	40.70951	-74.01476	2	-0.060511482
## 7293	40.72859	-73.98348	2	0.797779103
## 7295	40.76504	-73.99491	2	0.233423650
## 7297	40.79832	-73.96291	1	0.174636624
## 7298	40.76319	-73.98693	2	1.056442020
## 7300	40.78116	-73.98104	2	0.527358782
## 7302	40.80077	-73.96810	2	2.584904706
## 7303	40.71772	-73.98882	2	2.337999195
## 7305	40.77301	-73.95045	2	0.456814350
## 7307	40.71884	-73.99294	1	-0.824742825
## 7308	40.77219	-73.95588	2	0.139364408
## 7310	40.74711	-73.99281	1	-0.354446614
## 7312	40.76039	-73.99028	2	3.161017565
## 7313	40.81488	-73.95886	2	-0.236872561
## 7315	40.76814	-73.98476	2	0.550873593
## 7317	40.72050	-73.98315	2	0.057062571
## 7318	40.71098	-73.99296	1	-0.354446614
## 7320	40.79193	-73.94390	3	-1.001103905
## 7322	40.84524	-73.93508	1	-0.954074283
## 7323	40.80577	-73.94616	2	1.056442020
## 7325	40.79800	-73.96317	2	-0.660139151
## 7327	40.73799	-74.00074	2	0.809536509
## 7328	40.71415	-73.99806	1	-0.413233640
## 7330	40.73596	-73.99228	2	1.997034442
## 7332	40.74139	-73.97830	2	-0.119298508
## 7333	40.72625	-74.00199	2	0.233423650
## 7335	40.74469	-73.99858	2	1.115229046
## 7337	40.72669	-73.98792	2	0.233423650
## 7338	40.76232	-73.97614	1	-0.354446614
## 7340	40.72033	-73.98767	2	0.762506888
## 7342	40.70645	-74.01144	2	0.350997703
## 7343	40.75315	-73.97339	2	2.584904706
## 7345	40.72906	-73.98006	1	-0.354446614
## 7347	40.74464	-73.98436	1	-0.707168773
## 7348	40.74632	-74.00431	2	0.468571756
## 7350	40.77750	-73.95262	3	-1.001103905
## 7352	40.77927	-73.95071	3	-1.001103905
## 7353	40.777903	-73.95238	3	-1.001103905
## 7355	40.83805	-73.94307	2	0.233423650
## 7357	40.74472	-74.00095	2	1.938247416
## 7358	40.81569	-73.94622	1	-0.648381746
## 7360	40.72617	-73.99658	1	-0.472020667
## 7362	40.83141	-73.94722	1	-0.883529852
## 7363	40.74664	-74.00165	2	1.397406773
## 7365	40.76102	-73.96555	2	-0.507292883
## 7367	40.73007	-73.98637	1	-0.366204019
## 7368	40.73745	-74.00725	2	0.656690240
## 7370	40.71287	-73.99811	1	-0.648381746
## 7372	40.75325	-73.97016	2	0.703719861
## 7373	40.73820	-73.98301	2	1.350377152
## 7375	40.74426	-73.98535	2	0.727234672
## 7377	40.73929	-73.99990	2	0.574388403
## 7378	40.70520	-74.00974	2	0.809536509
## 7380	40.74470	-73.97593	3	-0.954074283

## 7382	40.77079	-73.95949	2	-0.354446614
## 7383	40.75584	-73.96979	2	1.997034442
## 7385	40.75082	-73.98526	2	3.172774970
## 7387	40.74927	-73.98303	2	0.386269919
## 7388	40.72153	-73.99493	2	-0.048754077
## 7390	40.76227	-73.99807	2	0.809536509
## 7392	40.74641	-74.00401	2	1.867702984
## 7393	40.74651	-74.00563	2	1.044684614
## 7395	40.78690	-73.97254	2	0.233423650
## 7397	40.85073	-73.93851	2	-0.048754077
## 7398	40.76450	-73.99447	2	0.821293914
## 7400	40.76704	-73.95722	2	0.339240298
## 7402	40.76212	-73.98820	2	0.468571756
## 7403	40.73627	-73.98986	1	-0.354446614
## 7405	40.72487	-73.98125	2	0.527358782
## 7407	40.70931	-74.00959	2	-0.236872561
## 7408	40.76174	-73.96366	2	0.350997703
## 7410	40.74480	-73.99204	2	0.880080940
## 7412	40.75148	-73.99397	2	1.174016072
## 7413	40.72807	-74.00041	2	0.339240298
## 7415	40.73505	-73.98565	2	0.586145808
## 7417	40.777995	-73.98220	2	1.926490010
## 7418	40.74589	-74.00480	2	1.409164178
## 7420	40.72527	-73.98347	2	0.891838346
## 7422	40.74530	-74.00242	2	-0.295659588
## 7423	40.72778	-73.97825	1	-0.648381746
## 7425	40.84467	-73.93374	1	-0.883529852
## 7427	40.76089	-73.99879	1	0.821293914
## 7428	40.70883	-74.00764	3	-0.354446614
## 7430	40.73040	-74.00887	2	0.997654993
## 7432	40.80501	-73.94249	2	0.821293914
## 7433	40.777847	-73.95371	2	0.057062571
## 7435	40.81777	-73.95350	1	-0.824742825
## 7437	40.77586	-73.95164	2	1.232803099
## 7438	40.76502	-73.99277	2	-0.472020667
## 7440	40.75855	-73.98931	2	-0.366204019
## 7442	40.77504	-73.94945	2	0.092334787
## 7443	40.73733	-74.00392	2	-0.131055914
## 7445	40.75989	-73.98832	2	-0.707168773
## 7447	40.777626	-73.94693	1	-0.354446614
## 7448	40.79831	-73.96052	2	0.844808725
## 7450	40.82267	-73.94677	1	-0.707168773
## 7452	40.86383	-73.92905	2	-0.295659588
## 7453	40.75037	-73.99858	2	-0.001724456
## 7455	40.85487	-73.93509	2	0.527358782
## 7457	40.86790	-73.91842	2	-0.589594720
## 7458	40.72993	-74.01000	2	1.738371526
## 7460	40.73754	-73.98741	2	1.115229046
## 7462	40.76511	-73.99432	2	-0.131055914
## 7463	40.74729	-74.00244	2	0.280453271
## 7465	40.72333	-73.98795	2	1.409164178
## 7467	40.74855	-73.98019	2	0.809536509
## 7468	40.74244	-73.98316	1	-0.366204019
## 7470	40.73769	-73.99026	1	2.584904706

## 7472	40.77097	-73.95843	2	-0.178085535
## 7473	40.73908	-74.00186	2	0.233423650
## 7475	40.80280	-73.96678	1	-0.942316878
## 7477	40.72665	-73.98717	2	0.115849597
## 7478	40.72926	-73.98915	2	-0.366204019
## 7480	40.80130	-73.95677	2	0.409784729
## 7482	40.73887	-74.00011	1	-0.530807693
## 7483	40.74881	-73.98059	2	1.620797473
## 7485	40.74789	-73.98057	2	0.574388403
## 7487	40.73179	-74.00149	1	1.997034442
## 7488	40.76564	-73.98367	2	2.808295407
## 7490	40.83193	-73.93640	1	-0.765955799
## 7492	40.85981	-73.92835	1	-1.059890931
## 7493	40.77575	-73.95304	2	0.409784729
## 7495	40.75641	-73.97812	2	1.044684614
## 7497	40.70735	-74.01226	1	-0.248629967
## 7498	40.84989	-73.93044	1	-0.413233640
## 7500	40.84996	-73.93937	1	-0.942316878
## 7502	40.73637	-73.98051	2	2.584904706
## 7503	40.76376	-73.98789	1	0.010032950
## 7505	40.71523	-74.00790	2	1.409164178
## 7507	40.70433	-74.00706	2	0.233423650
## 7508	40.71537	-74.00181	1	-0.354446614
## 7510	40.73940	-73.97996	2	1.115229046
## 7512	40.72426	-73.99535	2	1.703099310
## 7513	40.80991	-73.94597	1	0.221666245
## 7515	40.72315	-73.99507	2	-0.013481861
## 7517	40.81162	-73.95046	2	-0.354446614
## 7518	40.77282	-73.98080	1	-0.178085535
## 7520	40.80205	-73.96580	1	-1.106920552
## 7522	40.76161	-73.96192	2	0.092334787
## 7523	40.80735	-73.94064	2	0.527358782
## 7525	40.72572	-73.98269	1	-0.942316878
## 7527	40.79643	-73.97188	1	-0.236872561
## 7528	40.76260	-73.96031	2	0.809536509
## 7530	40.777616	-73.97994	2	-0.366204019
## 7532	40.78396	-73.97691	2	0.480329161
## 7533	40.76995	-73.95604	3	-0.119298508
## 7535	40.82963	-73.94950	1	-0.718926178
## 7537	40.80041	-73.95237	2	0.350997703
## 7538	40.80822	-73.95273	2	0.468571756
## 7540	40.80698	-73.95272	1	-0.754198394
## 7542	40.76026	-73.96590	1	-0.589594720
## 7543	40.777983	-73.94798	1	-0.060511482
## 7545	40.76205	-73.94975	1	-0.601352125
## 7547	40.74487	-74.00277	3	-0.648381746
## 7548	40.74858	-73.99887	2	1.291590125
## 7550	40.76969	-73.95509	2	1.409164178
## 7552	40.80348	-73.96579	1	-0.589594720
## 7553	40.77969	-73.97738	2	-0.119298508
## 7555	40.74154	-73.98515	2	0.821293914
## 7557	40.82605	-73.94219	1	-0.883529852
## 7558	40.85177	-73.93652	2	-0.236872561
## 7560	40.75242	-73.97261	1	-0.354446614

## 7562	40.70662	-74.00510	2	0.233423650
## 7563	40.74569	-73.98192	2	0.233423650
## 7565	40.81627	-73.93512	1	-0.236872561
## 7567	40.77865	-73.98104	2	0.221666245
## 7568	40.80515	-73.95595	1	-0.601352125
## 7570	40.79532	-73.94454	1	-0.530807693
## 7572	40.73210	-74.00461	2	1.409164178
## 7573	40.74429	-73.97663	2	1.997034442
## 7575	40.71728	-73.99859	1	-0.648381746
## 7577	40.76283	-73.99331	1	-0.178085535
## 7578	40.73898	-73.98233	2	0.233423650
## 7580	40.83791	-73.94075	2	0.233423650
## 7582	40.71385	-73.99711	1	-0.648381746
## 7583	40.76720	-73.94552	2	0.762506888
## 7585	40.73704	-74.00371	2	1.115229046
## 7587	40.71552	-73.99731	1	-0.542565099
## 7588	40.72075	-73.98733	2	0.492086566
## 7590	40.80904	-73.95807	2	0.586145808
## 7592	40.79951	-73.96767	1	-0.742440988
## 7593	40.78850	-73.94940	2	0.339240298
## 7595	40.79964	-73.96437	1	-0.707168773
## 7597	40.82299	-73.94486	1	-0.824742825
## 7598	40.70716	-74.01155	2	1.409164178
## 7600	40.81816	-73.94305	2	-0.236872561
## 7602	40.76284	-73.96038	2	0.233423650
## 7603	40.77722	-73.94991	2	0.409784729
## 7605	40.72198	-73.99451	2	1.350377152
## 7607	40.79426	-73.96914	2	0.821293914
## 7608	40.85100	-73.93141	1	-1.118677957
## 7610	40.79918	-73.96350	1	-0.119298508
## 7612	40.80286	-73.96561	1	-0.883529852
## 7613	40.73831	-74.00324	2	0.809536509
## 7615	40.80530	-73.94704	2	2.878839838
## 7617	40.80570	-73.94689	2	2.584904706
## 7618	40.81551	-73.94916	1	-0.131055914
## 7620	40.80321	-73.95210	1	-0.530807693
## 7622	40.79747	-73.94106	2	-0.460263262
## 7623	40.72886	-73.98834	1	-0.589594720
## 7625	40.80184	-73.95591	1	-0.742440988
## 7627	40.81619	-73.93798	2	-0.624866936
## 7628	40.76113	-73.96092	2	0.104092192
## 7630	40.73426	-74.00236	2	1.750128931
## 7632	40.74637	-73.97207	2	0.821293914
## 7633	40.76375	-73.98387	2	1.491466015
## 7635	40.72591	-73.98917	2	1.409164178
## 7637	40.75186	-73.97062	2	1.514980826
## 7638	40.71938	-73.99520	2	-0.472020667
## 7640	40.76409	-73.99122	2	0.809536509
## 7642	40.71579	-73.99158	2	-0.060511482
## 7643	40.76413	-73.99301	2	0.586145808
## 7645	40.72057	-73.99185	1	-0.589594720
## 7647	40.74339	-73.99642	2	3.760645234
## 7648	40.75352	-73.96807	2	0.104092192
## 7650	40.78749	-73.95040	1	-0.707168773

## 7652	40.74921	-74.00416	2	1.703099310
## 7653	40.76327	-73.98937	2	0.644932835
## 7655	40.80521	-73.95213	2	0.174636624
## 7657	40.80210	-73.96629	1	-0.777713204
## 7658	40.74439	-73.98125	2	0.644932835
## 7660	40.77643	-73.98262	2	0.115849597
## 7662	40.83048	-73.95009	1	1.409164178
## 7663	40.78521	-73.95006	1	0.280453271
## 7665	40.71754	-73.98680	3	-0.942316878
## 7667	40.76207	-73.99937	2	1.279832720
## 7668	40.76216	-73.99775	2	1.232803099
## 7670	40.82291	-73.94958	2	-0.601352125
## 7672	40.75695	-73.97988	2	1.750128931
## 7673	40.76077	-73.99822	2	1.279832720
## 7675	40.76196	-73.99803	2	1.279832720
## 7677	40.76103	-73.99745	2	1.279832720
## 7678	40.75833	-73.99019	2	1.162258667
## 7680	40.78470	-73.97155	2	0.574388403
## 7682	40.76108	-73.99812	2	1.279832720
## 7683	40.79751	-73.93271	2	-0.272144777
## 7685	40.78010	-73.97917	2	1.174016072
## 7687	40.76369	-73.98476	2	0.233423650
## 7688	40.76569	-73.98281	2	1.044684614
## 7690	40.82590	-73.94962	1	-0.965831689
## 7692	40.86541	-73.92935	1	-0.918802068
## 7693	40.76425	-73.98654	1	0.350997703
## 7695	40.74448	-73.97776	2	0.539116187
## 7697	40.80289	-73.96741	2	-0.060511482
## 7698	40.81353	-73.95878	1	-0.636624341
## 7700	40.72118	-73.98066	2	-0.001724456
## 7702	40.72828	-73.97972	1	0.221666245
## 7703	40.76733	-73.98607	2	0.456814350
## 7705	40.79669	-73.97126	1	-0.119298508
## 7707	40.74375	-73.97774	2	0.715477267
## 7708	40.74754	-73.98741	2	1.855945579
## 7710	40.74562	-73.98538	1	-0.601352125
## 7712	40.82289	-73.95110	2	-0.613109530
## 7713	40.70711	-74.01437	2	1.221045694
## 7715	40.71159	-73.99884	1	-0.131055914
## 7717	40.70706	-74.00442	1	-0.366204019
## 7718	40.72229	-73.98175	2	0.527358782
## 7720	40.74030	-74.00290	2	0.409784729
## 7722	40.83079	-73.94320	1	-0.413233640
## 7723	40.80728	-73.96634	1	-0.131055914
## 7725	40.76184	-73.95690	2	0.233423650
## 7727	40.82882	-73.94148	1	-0.954074283
## 7728	40.72689	-74.00890	1	-0.342689209
## 7730	40.73955	-73.98243	2	0.809536509
## 7732	40.85413	-73.93172	1	-1.001103905
## 7733	40.77280	-73.98737	2	0.104092192
## 7735	40.74494	-74.00116	2	1.115229046
## 7737	40.73320	-74.00390	2	0.703719861
## 7738	40.81733	-73.95384	1	-0.965831689
## 7740	40.81863	-73.95295	1	-0.589594720

## 7742	40.79770	-73.93736	1	-0.765955799
## 7743	40.74032	-74.00265	2	-0.236872561
## 7745	40.73006	-73.99981	2	0.821293914
## 7747	40.71934	-73.98172	1	-0.648381746
## 7748	40.81266	-73.95152	1	-0.718926178
## 7750	40.81325	-73.95323	1	-0.601352125
## 7752	40.73813	-73.98213	2	0.527358782
## 7753	40.76988	-73.95125	2	0.115849597
## 7755	40.80030	-73.95223	1	-0.589594720
## 7757	40.71932	-73.99396	2	-0.354446614
## 7758	40.72152	-73.98380	1	-0.248629967
## 7760	40.80153	-73.94435	1	-0.354446614
## 7762	40.81454	-73.93616	2	-0.001724456
## 7763	40.74675	-73.99555	1	-0.472020667
## 7765	40.76111	-73.99818	2	1.044684614
## 7767	40.71827	-73.98983	2	0.586145808
## 7768	40.77326	-73.98888	2	1.409164178
## 7770	40.76071	-73.96469	2	0.233423650
## 7772	40.77512	-73.95254	1	-0.366204019
## 7773	40.79415	-73.97323	1	-0.472020667
## 7775	40.74992	-73.97223	2	0.691962456
## 7777	40.73004	-73.98225	2	0.233423650
## 7778	40.72424	-73.99060	1	-0.472020667
## 7780	40.76050	-73.99455	2	0.809536509
## 7782	40.82588	-73.93880	1	-1.106920552
## 7783	40.71429	-73.98755	1	-0.836500231
## 7785	40.80474	-73.95527	2	0.233423650
## 7787	40.75880	-73.96611	2	1.526738231
## 7788	40.76806	-73.98672	1	-0.354446614
## 7790	40.75724	-73.96384	2	1.350377152
## 7792	40.75683	-73.96590	2	-0.413233640
## 7793	40.74564	-73.98174	2	1.409164178
## 7795	40.74686	-73.97981	2	0.821293914
## 7797	40.81140	-73.94014	2	0.115849597
## 7798	40.86182	-73.93088	1	-0.860015041
## 7800	40.77460	-73.95546	2	-0.060511482
## 7802	40.78435	-73.97579	2	1.938247416
## 7803	40.81441	-73.95890	1	-0.742440988
## 7805	40.76911	-73.95738	2	0.821293914
## 7807	40.78243	-73.97657	2	-0.060511482
## 7808	40.81558	-73.95847	1	-0.671896557
## 7810	40.77190	-73.99046	2	1.997034442
## 7812	40.82841	-73.94922	1	-1.106920552
## 7813	40.81497	-73.94781	2	0.821293914
## 7815	40.71692	-73.98874	2	0.527358782
## 7817	40.77567	-73.97860	1	-0.413233640
## 7818	40.71661	-73.99144	2	0.233423650
## 7820	40.74311	-73.98286	2	0.233423650
## 7822	40.71530	-73.99938	1	-0.718926178
## 7823	40.75494	-73.96738	2	1.514980826
## 7825	40.77989	-73.94763	1	-0.954074283
## 7827	40.75666	-73.99444	2	0.644932835
## 7828	40.71955	-73.99707	1	-0.236872561
## 7830	40.80056	-73.96035	1	-0.530807693

## 7832	40.72154	-73.99577	2	-0.084026293
## 7833	40.79394	-73.97665	1	-0.483778072
## 7835	40.80038	-73.94602	2	0.456814350
## 7837	40.72552	-73.97879	2	0.409784729
## 7838	40.72296	-73.97760	2	-0.236872561
## 7840	40.75561	-73.96472	2	0.527358782
## 7842	40.78697	-73.97351	1	-0.601352125
## 7843	40.80325	-73.96433	1	-0.942316878
## 7845	40.74366	-74.00050	1	-0.707168773
## 7847	40.83077	-73.94847	2	-0.483778072
## 7848	40.72050	-73.99860	2	1.514980826
## 7850	40.76873	-73.95464	2	-0.201600345
## 7852	40.80180	-73.95166	2	-0.060511482
## 7853	40.81005	-73.95720	2	-0.295659588
## 7855	40.72263	-74.00424	2	3.172774970
## 7857	40.77580	-73.95472	2	0.821293914
## 7858	40.71617	-74.01468	1	1.115229046
## 7860	40.77775	-73.95361	3	-0.648381746
## 7862	40.75967	-73.98732	2	1.679584500
## 7863	40.73577	-73.98057	2	1.703099310
## 7865	40.74410	-73.98834	2	0.809536509
## 7867	40.72544	-73.98990	1	-0.589594720
## 7868	40.71844	-73.98580	2	0.057062571
## 7870	40.78584	-73.94899	2	-0.366204019
## 7872	40.72248	-73.98316	1	-0.530807693
## 7873	40.71298	-73.99406	1	-0.648381746
## 7875	40.82629	-73.94785	1	-0.942316878
## 7877	40.74122	-73.99963	2	2.290969574
## 7878	40.76751	-73.98483	2	0.045305165
## 7880	40.80534	-73.96654	1	0.233423650
## 7882	40.79759	-73.96544	2	0.409784729
## 7883	40.80850	-73.94113	1	-0.648381746
## 7885	40.72383	-73.98390	1	-0.001724456
## 7887	40.82633	-73.94459	1	-0.824742825
## 7888	40.82443	-73.95175	1	-0.824742825
## 7890	40.79774	-73.97274	2	1.409164178
## 7892	40.71967	-73.98506	2	0.233423650
## 7893	40.72857	-73.98540	2	0.797779103
## 7895	40.80131	-73.95790	1	-1.001103905
## 7897	40.75927	-73.98592	1	-0.589594720
## 7898	40.78650	-73.94288	1	-0.589594720
## 7900	40.77778	-73.97795	2	0.821293914
## 7902	40.75571	-73.99594	1	-0.472020667
## 7903	40.72240	-73.99604	2	-0.236872561
## 7905	40.72948	-74.00153	1	-0.178085535
## 7907	40.82022	-73.95358	2	-0.060511482
## 7908	40.73969	-73.98445	2	0.527358782
## 7910	40.74023	-73.98443	2	0.644932835
## 7912	40.79878	-73.94495	2	-0.330931804
## 7913	40.72735	-73.98739	2	-0.119298508
## 7915	40.80549	-73.95595	1	-0.742440988
## 7917	40.79758	-73.94518	2	-0.060511482
## 7918	40.77377	-73.94680	2	-0.060511482
## 7920	40.77798	-73.95251	2	-0.354446614

## 7922	40.72626	-74.00154	2	0.327482892
## 7923	40.76638	-73.99013	2	0.539116187
## 7925	40.73202	-73.98766	2	1.409164178
## 7927	40.75257	-73.97148	1	-0.765955799
## 7928	40.72577	-73.99169	2	-0.142813319
## 7930	40.76601	-73.95814	1	-0.601352125
## 7932	40.83669	-73.94274	2	-0.060511482
## 7933	40.72241	-73.99377	1	-0.072268887
## 7935	40.80968	-73.95355	1	-0.718926178
## 7937	40.74075	-73.99567	2	0.292210676
## 7938	40.80974	-73.96034	1	-0.472020667
## 7940	40.71526	-73.98484	2	-0.142813319
## 7942	40.71798	-74.01253	2	-0.413233640
## 7943	40.78559	-73.94345	1	-1.059890931
## 7945	40.79740	-73.93540	1	-1.059890931
## 7947	40.76496	-73.99415	2	0.809536509
## 7948	40.82000	-73.95331	1	-0.836500231
## 7950	40.80100	-73.95833	1	-0.236872561
## 7952	40.80421	-73.96738	1	-0.648381746
## 7953	40.71880	-73.99458	1	-0.366204019
## 7955	40.72695	-73.98546	1	-0.119298508
## 7957	40.78817	-73.98068	1	0.527358782
## 7958	40.777857	-73.95390	2	2.584904706
## 7960	40.81139	-73.94094	2	-0.236872561
## 7962	40.72009	-73.98631	1	-0.942316878
## 7963	40.81251	-73.94524	2	-0.413233640
## 7965	40.73208	-74.00784	2	1.115229046
## 7967	40.72927	-73.99039	2	1.997034442
## 7968	40.78829	-73.97010	2	0.821293914
## 7970	40.72454	-73.97931	2	4.289728472
## 7972	40.777841	-73.98028	1	-0.448505856
## 7973	40.82485	-73.94537	2	-0.131055914
## 7975	40.79210	-73.97031	2	-0.530807693
## 7977	40.72753	-73.97825	2	1.409164178
## 7978	40.75980	-73.99978	2	-0.178085535
## 7980	40.78672	-73.94519	2	0.527358782
## 7982	40.72810	-73.99067	2	1.409164178
## 7983	40.76309	-73.95697	2	2.584904706
## 7985	40.73938	-73.99855	1	0.233423650
## 7987	40.72778	-73.98335	2	-0.060511482
## 7988	40.72994	-73.99953	2	-0.213357751
## 7990	40.74601	-74.00028	1	0.057062571
## 7992	40.77778	-73.95615	2	-0.295659588
## 7993	40.76991	-73.95189	2	1.291590125
## 7995	40.73942	-74.00065	2	0.809536509
## 7997	40.76277	-73.99424	1	-0.707168773
## 7998	40.72144	-73.98655	1	-0.718926178
## 8000	40.76296	-73.99565	1	-0.707168773
## 8002	40.72940	-73.98021	1	-0.236872561
## 8003	40.72820	-73.98001	1	-0.648381746
## 8005	40.80046	-73.95509	1	-0.707168773
## 8007	40.77316	-73.94998	2	-0.119298508
## 8008	40.72541	-74.00100	2	0.821293914
## 8010	40.79938	-73.96235	1	-0.965831689

## 8012	40.78176	-73.97822	2	0.233423650
## 8013	40.82661	-73.94165	2	-0.354446614
## 8015	40.80268	-73.96684	1	-0.589594720
## 8017	40.77310	-73.95169	2	0.233423650
## 8018	40.78573	-73.97686	1	-0.589594720
## 8020	40.82408	-73.95434	2	-0.119298508
## 8022	40.77094	-73.95126	2	0.809536509
## 8023	40.81893	-73.94118	1	-0.472020667
## 8025	40.80078	-73.96410	1	-0.824742825
## 8027	40.82225	-73.94549	1	-0.883529852
## 8028	40.74077	-73.98245	1	-0.707168773
## 8030	40.82822	-73.94864	2	-0.636624341
## 8032	40.76518	-73.98406	1	-0.589594720
## 8033	40.76647	-73.98146	2	0.809536509
## 8035	40.80079	-73.96619	1	-1.071648336
## 8037	40.79942	-73.96378	1	-0.589594720
## 8038	40.82295	-73.95066	2	-0.354446614
## 8040	40.81171	-73.96352	2	0.821293914
## 8042	40.82984	-73.94226	1	-0.718926178
## 8043	40.80742	-73.95214	1	-0.084026293
## 8045	40.73511	-74.00370	2	2.290969574
## 8047	40.80227	-73.95571	2	0.409784729
## 8048	40.76324	-73.98459	2	1.409164178
## 8050	40.81106	-73.94467	2	0.821293914
## 8052	40.80595	-73.95812	2	0.492086566
## 8053	40.73557	-74.00448	1	-0.354446614
## 8055	40.73201	-74.00320	2	0.033547760
## 8057	40.72900	-73.98098	2	-0.060511482
## 8058	40.82852	-73.94583	2	0.115849597
## 8060	40.72976	-73.98802	1	-0.589594720
## 8062	40.72309	-73.98428	1	-0.660139151
## 8063	40.78023	-73.97884	2	0.057062571
## 8065	40.75248	-73.97332	1	0.821293914
## 8067	40.79564	-73.97173	1	-0.389718830
## 8068	40.75981	-73.99118	1	0.233423650
## 8070	40.78593	-73.97284	2	0.456814350
## 8072	40.79405	-73.96580	3	-0.824742825
## 8073	40.78680	-73.94269	1	-0.295659588
## 8075	40.76601	-73.99167	1	-0.765955799
## 8077	40.777906	-73.98507	2	-0.236872561
## 8078	40.78935	-73.97462	2	-0.413233640
## 8080	40.73756	-73.99858	2	0.198151434
## 8082	40.81093	-73.95928	1	-0.354446614
## 8083	40.777472	-73.98641	2	-0.236872561
## 8085	40.76062	-73.99741	2	4.101609988
## 8087	40.72090	-73.98822	1	-0.530807693
## 8088	40.73938	-74.00002	2	2.584904706
## 8090	40.77773	-73.94938	2	3.760645234
## 8092	40.72611	-73.97905	2	-0.119298508
## 8093	40.78245	-73.94686	1	-0.366204019
## 8095	40.75913	-73.98991	1	0.762506888
## 8097	40.76720	-73.98457	2	0.233423650
## 8098	40.80734	-73.96730	2	1.409164178
## 8100	40.76911	-73.95694	2	-0.013481861

## 8102	40.78173	-73.98601	2	-0.707168773
## 8103	40.80380	-73.95569	2	1.409164178
## 8105	40.82611	-73.94407	2	0.292210676
## 8107	40.84156	-73.93884	1	-1.001103905
## 8108	40.76806	-73.98470	1	-0.001724456
## 8110	40.72102	-73.98891	1	-0.413233640
## 8112	40.78296	-73.97743	2	1.409164178
## 8113	40.74779	-73.99660	1	-0.530807693
## 8115	40.78341	-73.97713	2	-0.283902182
## 8117	40.71474	-74.00596	1	-0.354446614
## 8118	40.83136	-73.94843	2	-0.354446614
## 8120	40.76618	-73.98279	2	1.115229046
## 8122	40.81922	-73.95276	1	-0.718926178
## 8123	40.74569	-73.98592	2	1.761886337
## 8125	40.74096	-73.98055	2	0.339240298
## 8127	40.76749	-73.96392	2	-0.260387372
## 8128	40.74640	-73.99090	2	0.703719861
## 8130	40.72268	-73.98215	2	0.527358782
## 8132	40.74201	-73.97957	2	0.033547760
## 8133	40.77148	-73.96111	2	-0.060511482
## 8135	40.82323	-73.94670	1	-0.930559473
## 8137	40.76036	-73.96462	2	1.115229046
## 8138	40.80914	-73.94363	1	-0.483778072
## 8140	40.81970	-73.95326	1	-0.718926178
## 8142	40.82097	-73.95473	1	-1.001103905
## 8143	40.72441	-73.98683	2	-0.472020667
## 8145	40.76488	-73.98597	2	0.292210676
## 8147	40.76543	-73.97929	2	1.703099310
## 8148	40.72618	-73.99523	2	0.997654993
## 8150	40.72608	-73.98798	3	-0.601352125
## 8152	40.76210	-73.99424	2	0.233423650
## 8153	40.81217	-73.94692	2	0.233423650
## 8155	40.80264	-73.95540	1	-0.366204019
## 8157	40.76469	-73.99394	2	-0.272144777
## 8158	40.72289	-73.99431	2	3.172774970
## 8160	40.71944	-73.98441	2	1.703099310
## 8162	40.76026	-73.96204	2	0.256938461
## 8163	40.72688	-73.98974	2	2.584904706
## 8165	40.80266	-73.95792	2	-0.095783698
## 8167	40.75980	-73.99681	2	0.057062571
## 8168	40.72203	-73.99498	1	2.232182548
## 8170	40.72588	-73.98198	1	-0.413233640
## 8172	40.72178	-73.99742	2	2.584904706
## 8173	40.76300	-73.99452	2	-0.119298508
## 8175	40.72202	-73.99451	2	-0.530807693
## 8177	40.85519	-73.92705	1	-1.059890931
## 8178	40.81103	-73.93980	1	0.409784729
## 8180	40.76161	-73.98995	2	-0.366204019
## 8182	40.75966	-73.96828	2	1.232803099
## 8183	40.74616	-73.99773	2	1.409164178
## 8185	40.70476	-74.01557	1	-0.472020667
## 8187	40.75337	-73.99058	2	0.303968082
## 8188	40.75298	-73.98874	2	0.468571756
## 8190	40.85182	-73.92941	2	-0.178085535

## 8192	40.72339	-73.99461	1	1.409164178
## 8193	40.72752	-73.98969	2	0.821293914
## 8195	40.72191	-73.98141	2	0.233423650
## 8197	40.80546	-73.94601	2	-0.448505856
## 8198	40.75350	-73.97134	2	0.339240298
## 8200	40.80408	-73.96347	2	-0.119298508
## 8202	40.76126	-73.99117	1	-0.472020667
## 8203	40.77601	-73.95441	2	0.562630998
## 8205	40.73598	-74.00736	2	1.409164178
## 8207	40.73490	-74.00050	2	1.585525257
## 8208	40.75043	-73.97243	1	-0.519050288
## 8210	40.70657	-74.00549	2	-0.354446614
## 8212	40.78992	-73.94888	2	0.233423650
## 8213	40.72166	-73.98327	1	-0.354446614
## 8215	40.74733	-73.97289	2	-0.601352125
## 8217	40.73564	-74.00303	2	1.997034442
## 8218	40.78989	-73.97264	2	1.609040068
## 8220	40.73929	-73.99914	2	0.762506888
## 8222	40.80719	-73.95303	2	-0.954074283
## 8223	40.80822	-73.96567	2	0.703719861
## 8225	40.74011	-73.99829	2	1.409164178
## 8227	40.76325	-73.98981	2	1.397406773
## 8228	40.72677	-73.98194	2	-0.060511482
## 8230	40.73897	-74.00180	2	0.574388403
## 8232	40.71655	-73.99203	2	4.336758093
## 8233	40.72461	-74.01136	2	1.409164178
## 8235	40.74488	-73.98079	1	-0.871772446
## 8237	40.81667	-73.94342	1	-0.648381746
## 8238	40.77007	-73.95690	2	-0.131055914
## 8240	40.72872	-73.98267	2	1.938247416
## 8242	40.83117	-73.94846	2	-0.648381746
## 8243	40.75247	-73.97305	2	0.268695866
## 8245	40.72564	-73.98772	2	0.139364408
## 8247	40.76094	-73.99400	1	-0.789470609
## 8248	40.72097	-73.97769	1	-0.472020667
## 8250	40.73058	-73.99002	1	-0.530807693
## 8252	40.76380	-73.95547	2	0.527358782
## 8253	40.76666	-73.95507	2	-0.765955799
## 8255	40.76367	-73.98912	1	-0.377961425
## 8257	40.73700	-73.98231	1	-0.660139151
## 8258	40.86531	-73.92725	1	-0.942316878
## 8260	40.81745	-73.95164	2	0.821293914
## 8262	40.80326	-73.93500	2	0.997654993
## 8263	40.73178	-73.98613	1	-0.354446614
## 8265	40.76439	-73.98943	1	-0.119298508
## 8267	40.76471	-73.95819	1	-0.530807693
## 8268	40.75601	-73.96625	2	-0.178085535
## 8270	40.78752	-73.94314	1	-0.765955799
## 8272	40.75999	-73.99274	2	0.527358782
## 8273	40.82085	-73.95398	1	-0.648381746
## 8275	40.72796	-73.98178	2	1.068199425
## 8277	40.82418	-73.94893	1	-0.765955799
## 8278	40.72590	-73.99336	2	3.255076807
## 8280	40.76297	-73.98588	2	0.997654993

## 8282	40.79014	-73.94035	1	-0.707168773
## 8283	40.78558	-73.97704	2	0.233423650
## 8285	40.70741	-74.00540	2	1.268075315
## 8287	40.80253	-73.94016	1	-1.001103905
## 8288	40.85867	-73.92844	2	0.233423650
## 8290	40.76566	-73.97748	2	2.573147301
## 8292	40.79068	-73.94944	2	-0.178085535
## 8293	40.74577	-74.00606	2	0.233423650
## 8295	40.82265	-73.94501	1	-0.413233640
## 8297	40.72835	-73.98503	2	0.809536509
## 8298	40.76282	-73.96734	2	0.762506888
## 8300	40.70423	-74.01235	2	1.644312284
## 8302	40.70379	-74.00946	2	0.409784729
## 8303	40.74463	-73.97220	2	0.774264293
## 8305	40.77371	-73.95167	2	0.233423650
## 8307	40.75095	-73.97115	2	-0.236872561
## 8308	40.76086	-73.99147	1	-0.472020667
## 8310	40.76044	-73.99051	2	0.821293914
## 8312	40.79321	-73.97685	2	4.219184040
## 8313	40.76249	-73.99103	1	-0.589594720
## 8315	40.75259	-73.96797	2	0.233423650
## 8317	40.74164	-73.98275	1	0.527358782
## 8318	40.82485	-73.94366	2	-0.954074283
## 8320	40.70700	-74.00782	1	0.691962456
## 8322	40.74029	-74.00233	2	0.644932835
## 8323	40.76644	-73.95635	2	-0.366204019
## 8325	40.73050	-73.99647	1	-0.718926178
## 8327	40.72921	-74.00345	2	1.291590125
## 8328	40.77666	-73.95625	2	0.409784729
## 8330	40.76347	-73.96514	2	0.644932835
## 8332	40.83735	-73.94351	1	-0.883529852
## 8333	40.74706	-73.97355	2	-0.236872561
## 8335	40.78025	-73.95183	2	1.279832720
## 8337	40.74076	-73.99307	2	3.466710102
## 8338	40.72245	-73.99416	3	-0.472020667
## 8340	40.78807	-73.94400	1	-0.648381746
## 8342	40.72770	-74.00375	1	-0.589594720
## 8343	40.72940	-73.97751	1	-0.824742825
## 8345	40.74829	-73.98041	2	0.574388403
## 8347	40.73421	-73.98834	1	-0.530807693
## 8348	40.74439	-73.98112	2	-0.248629967
## 8350	40.73036	-73.98633	1	-0.413233640
## 8352	40.76377	-73.98734	2	0.527358782
## 8353	40.73340	-74.00546	2	1.162258667
## 8355	40.73579	-74.00764	2	1.409164178
## 8357	40.71602	-73.99233	1	-0.295659588
## 8358	40.74041	-73.98933	2	0.586145808
## 8360	40.79105	-73.94376	1	-0.530807693
## 8362	40.76099	-73.96158	2	-0.001724456
## 8363	40.71097	-74.01397	2	0.586145808
## 8365	40.72935	-73.98710	1	0.233423650
## 8367	40.76395	-73.99007	1	-0.777713204
## 8368	40.75066	-73.99944	1	0.104092192
## 8370	40.72397	-73.98329	2	-0.013481861

## 8372	40.77080	-73.95416	1	-0.060511482
## 8373	40.72127	-73.99526	1	-0.354446614
## 8375	40.76082	-73.99937	2	1.279832720
## 8377	40.72541	-73.97638	2	0.997654993
## 8378	40.76549	-73.98582	2	0.586145808
## 8380	40.73435	-74.00660	2	0.809536509
## 8382	40.71539	-73.99092	2	0.468571756
## 8383	40.79400	-73.96734	2	2.114608495
## 8385	40.75380	-73.97139	2	1.432678989
## 8387	40.74370	-73.99896	2	1.397406773
## 8388	40.78672	-73.94869	2	1.867702984
## 8390	40.79377	-73.96586	2	2.349756601
## 8392	40.72652	-73.97938	2	0.374512513
## 8393	40.83885	-73.94161	2	0.350997703
## 8395	40.76106	-73.99148	1	-0.413233640
## 8397	40.71595	-73.98993	2	4.336758093
## 8398	40.75316	-73.98510	2	0.691962456
## 8400	40.80637	-73.94544	1	0.221666245
## 8402	40.72661	-73.97894	1	-0.295659588
## 8403	40.84723	-73.94045	1	-1.177464984
## 8405	40.70782	-74.01525	2	0.691962456
## 8407	40.80449	-73.96780	3	-0.812985420
## 8408	40.74191	-73.98112	2	0.703719861
## 8410	40.72412	-73.98667	1	-0.542565099
## 8412	40.71906	-73.98836	2	0.703719861
## 8413	40.80933	-73.94500	2	0.515601377
## 8415	40.79873	-73.96782	2	0.821293914
## 8417	40.71879	-73.98362	1	-0.413233640
## 8418	40.76104	-73.98831	1	1.409164178
## 8420	40.80534	-73.95647	2	-0.707168773
## 8422	40.78783	-73.97422	2	2.878839838
## 8423	40.72824	-73.97824	2	-0.013481861
## 8425	40.75797	-73.99100	1	-0.648381746
## 8427	40.79910	-73.96963	1	-0.366204019
## 8428	40.80065	-73.96944	2	1.115229046
## 8430	40.70617	-74.01529	2	1.750128931
## 8432	40.76943	-73.98720	1	-0.060511482
## 8433	40.73048	-73.98689	2	-0.095783698
## 8435	40.72884	-74.00056	2	0.339240298
## 8437	40.74496	-73.97867	1	-0.354446614
## 8438	40.74945	-73.99742	2	0.527358782
## 8440	40.72936	-73.99911	2	0.762506888
## 8442	40.78525	-73.94178	1	-0.765955799
## 8443	40.82736	-73.95113	1	-0.354446614
## 8445	40.73383	-73.99509	1	-0.119298508
## 8447	40.71490	-73.99063	2	0.268695866
## 8448	40.73455	-74.00600	2	0.586145808
## 8450	40.76552	-73.97661	2	0.809536509
## 8452	40.86316	-73.92627	3	1.997034442
## 8453	40.78517	-73.95678	2	1.115229046
## 8455	40.75483	-73.99468	2	0.350997703
## 8457	40.76388	-73.98874	1	-0.236872561
## 8458	40.80048	-73.94864	1	-0.871772446
## 8460	40.76080	-73.96136	2	0.527358782

## 8462	40.73316	-74.00782	2	1.997034442
## 8463	40.82722	-73.94310	1	-0.354446614
## 8465	40.76190	-73.99500	1	-0.648381746
## 8467	40.76112	-73.98473	1	-0.060511482
## 8468	40.74993	-73.97700	2	-0.060511482
## 8470	40.86238	-73.92806	2	-0.765955799
## 8472	40.86438	-73.92787	1	1.138743857
## 8473	40.82315	-73.93726	1	-0.472020667
## 8475	40.76071	-73.99032	2	0.527358782
## 8477	40.79371	-73.96708	2	1.938247416
## 8478	40.83050	-73.94370	1	-0.295659588
## 8480	40.82483	-73.95394	1	-1.048133526
## 8482	40.80429	-73.96499	2	0.527358782
## 8483	40.82475	-73.95070	1	-0.907044662
## 8485	40.76144	-73.98849	1	-0.354446614
## 8487	40.78321	-73.95646	2	0.821293914
## 8488	40.80676	-73.94658	1	-1.142192768
## 8490	40.80093	-73.96010	1	-0.389718830
## 8492	40.82220	-73.94323	2	0.809536509
## 8493	40.75586	-73.96185	2	0.821293914
## 8495	40.76688	-73.99402	2	0.821293914
## 8497	40.83315	-73.94108	1	-0.848257636
## 8498	40.74246	-73.99540	2	1.409164178
## 8500	40.78608	-73.94305	1	-0.942316878
## 8502	40.79986	-73.96415	1	-0.354446614
## 8503	40.77544	-73.95577	2	-0.060511482
## 8505	40.77273	-73.96344	2	0.762506888
## 8507	40.73815	-73.98443	2	1.997034442
## 8508	40.72931	-73.97925	2	-0.295659588
## 8510	40.82966	-73.95021	1	-0.765955799
## 8512	40.72281	-73.99870	1	-0.119298508
## 8513	40.71775	-73.99509	2	0.809536509
## 8515	40.72194	-73.99830	1	-0.119298508
## 8517	40.72364	-73.99923	3	-0.354446614
## 8518	40.72989	-73.98880	2	1.644312284
## 8520	40.73293	-73.99846	2	0.821293914
## 8522	40.72198	-74.00296	1	-0.013481861
## 8523	40.75015	-73.97082	1	0.821293914
## 8525	40.75122	-73.99658	2	0.997654993
## 8527	40.81506	-73.93567	2	-0.354446614
## 8528	40.73001	-73.98464	2	0.762506888
## 8530	40.72088	-73.97825	2	1.938247416
## 8532	40.81172	-73.94456	1	-0.695411367
## 8533	40.76556	-73.98197	2	0.809536509
## 8535	40.72204	-73.99705	1	-0.354446614
## 8537	40.72891	-73.98868	2	1.997034442
## 8538	40.76505	-73.97857	2	-0.060511482
## 8540	40.80697	-73.94500	2	0.821293914
## 8542	40.75735	-73.96438	2	0.797779103
## 8543	40.74615	-73.99182	2	-0.248629967
## 8545	40.73537	-74.00209	2	3.349136050
## 8547	40.70402	-74.00776	2	1.232803099
## 8548	40.75611	-73.99387	2	0.586145808
## 8550	40.76793	-73.98561	1	-0.013481861

## 8552	40.84606	-73.93325	1	-0.013481861
## 8553	40.76021	-73.99969	2	0.809536509
## 8555	40.77334	-73.94848	1	-0.648381746
## 8557	40.74810	-73.97417	2	1.750128931
## 8558	40.83849	-73.93809	1	-1.048133526
## 8560	40.75863	-73.98812	1	-1.059890931
## 8562	40.80171	-73.95871	1	-0.824742825
## 8563	40.84190	-73.93866	2	-0.001724456
## 8565	40.777979	-73.95379	2	1.526738231
## 8567	40.80167	-73.95781	1	-0.707168773
## 8568	40.79757	-73.94006	1	-0.530807693
## 8570	40.81041	-73.94337	1	-0.883529852
## 8572	40.71391	-74.00624	2	0.468571756
## 8573	40.79799	-73.96161	2	1.997034442
## 8575	40.81205	-73.95273	1	-0.718926178
## 8577	40.77357	-73.95149	2	-0.718926178
## 8578	40.79853	-73.94143	2	1.644312284
## 8580	40.77395	-73.95248	2	0.821293914
## 8582	40.76408	-73.98996	1	-0.013481861
## 8583	40.77794	-73.97630	2	1.056442020
## 8585	40.74063	-73.99843	1	-0.589594720
## 8587	40.72693	-73.98385	2	0.586145808
## 8588	40.76485	-73.98121	1	-0.213357751
## 8590	40.75034	-73.98780	2	1.409164178
## 8592	40.81438	-73.95183	2	0.809536509
## 8593	40.83043	-73.94672	1	-0.824742825
## 8595	40.77201	-73.97994	1	-0.366204019
## 8597	40.79639	-73.93470	1	-0.883529852
## 8598	40.71727	-74.00335	1	-0.413233640
## 8600	40.73213	-73.98517	2	1.397406773
## 8602	40.73193	-73.99126	2	1.609040068
## 8603	40.79577	-73.93620	2	2.584904706
## 8605	40.71676	-73.99369	1	-0.472020667
## 8607	40.74653	-73.97390	1	-0.178085535
## 8608	40.70707	-74.01702	2	-0.295659588
## 8610	40.78017	-73.97574	1	-0.977589094
## 8612	40.72222	-73.99545	2	1.115229046
## 8613	40.81170	-73.94563	1	-0.777713204
## 8615	40.86582	-73.92582	1	-0.601352125
## 8617	40.76714	-73.98777	2	0.233423650
## 8618	40.74587	-73.99149	1	-0.236872561
## 8620	40.80466	-73.95582	2	3.161017565
## 8622	40.82367	-73.93762	2	-0.295659588
## 8623	40.76133	-73.99744	2	1.409164178
## 8625	40.71975	-73.98608	2	1.115229046
## 8627	40.79778	-73.97232	2	0.644932835
## 8628	40.74371	-73.98454	2	0.409784729
## 8630	40.74968	-73.97665	1	0.021790355
## 8632	40.74825	-73.97673	1	-0.530807693
## 8633	40.83839	-73.93819	1	-0.131055914
## 8635	40.74010	-73.98123	2	0.386269919
## 8637	40.77336	-73.95054	2	-0.295659588
## 8638	40.75645	-73.97828	2	4.054580366
## 8640	40.76095	-73.96143	2	-0.236872561

## 8642	40.77511	-73.95530	1	-0.236872561
## 8643	40.76410	-73.97989	1	0.221666245
## 8645	40.74348	-73.99365	1	0.586145808
## 8647	40.77962	-73.95069	2	1.997034442
## 8648	40.81550	-73.94578	2	0.350997703
## 8650	40.83355	-73.93839	2	-0.742440988
## 8652	40.76529	-73.97713	1	2.584904706
## 8653	40.83185	-73.94806	1	-1.059890931
## 8655	40.72275	-73.99558	2	-0.072268887
## 8657	40.76035	-73.98189	2	0.350997703
## 8658	40.74385	-73.97827	1	-0.483778072
## 8660	40.75326	-73.97303	2	3.901734098
## 8662	40.75324	-73.97217	2	0.797779103
## 8663	40.76084	-73.98936	1	-0.483778072
## 8665	40.77799	-73.94935	1	-0.589594720
## 8667	40.75351	-73.97196	1	4.336758093
## 8668	40.76615	-73.98408	1	0.691962456
## 8670	40.75344	-73.97207	1	4.336758093
## 8672	40.73506	-73.99203	2	1.703099310
## 8673	40.79512	-73.97330	1	-0.354446614
## 8675	40.82088	-73.93879	1	-1.118677957
## 8677	40.71350	-73.99121	1	-0.648381746
## 8678	40.76093	-73.98327	1	2.020549253
## 8680	40.76027	-73.99826	2	3.161017565
## 8682	40.76115	-73.99823	2	4.336758093
## 8683	40.83370	-73.94580	1	-1.142192768
## 8685	40.77727	-73.98453	2	0.821293914
## 8687	40.79655	-73.93848	1	-0.648381746
## 8688	40.80140	-73.95793	1	-0.354446614
## 8690	40.77341	-73.95025	2	2.878839838
## 8692	40.83014	-73.94656	1	-0.836500231
## 8693	40.74381	-73.99230	2	-0.236872561
## 8695	40.74089	-73.98094	2	0.527358782
## 8697	40.76382	-73.98007	2	2.055821469
## 8698	40.73322	-74.00853	2	3.760645234
## 8700	40.74699	-73.97659	2	0.821293914
## 8702	40.75360	-73.97306	2	-0.060511482
## 8703	40.79523	-73.94278	1	-1.071648336
## 8705	40.72150	-73.99395	1	-0.530807693
## 8707	40.72203	-73.98986	1	-0.142813319
## 8708	40.72205	-73.99130	1	-0.142813319
## 8710	40.72342	-73.99108	1	-0.142813319
## 8712	40.71745	-73.99409	2	1.997034442
## 8713	40.85679	-73.93200	1	-0.824742825
## 8715	40.73736	-73.98025	2	-0.119298508
## 8717	40.70651	-74.00656	2	0.809536509
## 8718	40.74738	-74.00134	2	0.574388403
## 8720	40.74681	-74.00006	1	-0.236872561
## 8722	40.71592	-73.99332	1	-0.765955799
## 8723	40.76952	-73.94892	2	0.233423650
## 8725	40.81463	-73.95106	1	-0.648381746
## 8727	40.71305	-73.99443	1	-0.354446614
## 8728	40.72652	-74.00032	2	1.350377152
## 8730	40.72396	-73.98941	1	-0.119298508

## 8732	40.74101	-74.00496	2	1.997034442
## 8733	40.86107	-73.92959	2	-0.472020667
## 8735	40.80968	-73.94425	1	-0.366204019
## 8737	40.83892	-73.94265	2	-0.119298508
## 8738	40.80887	-73.94889	1	-0.472020667
## 8740	40.77509	-73.98255	2	-0.001724456
## 8742	40.72868	-73.99901	2	0.621418024
## 8743	40.79915	-73.96086	1	-0.472020667
## 8745	40.72188	-73.98260	1	-0.366204019
## 8747	40.80854	-73.94519	2	0.821293914
## 8748	40.73616	-74.00889	2	0.821293914
## 8750	40.73824	-73.97874	2	0.797779103
## 8752	40.72216	-73.99571	2	1.703099310
## 8753	40.74459	-73.99061	1	-0.260387372
## 8755	40.82991	-73.94848	1	-0.942316878
## 8757	40.80209	-73.96196	2	0.515601377
## 8758	40.83923	-73.94557	1	-0.765955799
## 8760	40.77777	-73.94914	1	-0.354446614
## 8762	40.80173	-73.96175	2	2.878839838
## 8763	40.78152	-73.97249	2	1.397406773
## 8765	40.76273	-73.98397	2	1.879460389
## 8767	40.74698	-73.97218	1	0.880080940
## 8768	40.76253	-73.99803	2	2.925869459
## 8770	40.78324	-73.95149	2	-0.060511482
## 8772	40.72104	-73.99498	1	-0.001724456
## 8773	40.82834	-73.94960	1	-0.954074283
## 8775	40.79575	-73.94817	2	0.174636624
## 8777	40.81674	-73.95292	3	-0.765955799
## 8778	40.79284	-73.96858	2	-0.119298508
## 8780	40.72460	-73.97877	2	0.221666245
## 8782	40.74817	-73.97595	1	0.233423650
## 8783	40.73142	-74.01000	1	1.409164178
## 8785	40.78815	-73.94360	2	-0.413233640
## 8787	40.78895	-73.96754	1	-0.907044662
## 8788	40.75592	-73.96891	2	-0.060511482
## 8790	40.76346	-73.96684	2	0.703719861
## 8792	40.74828	-73.98401	1	0.691962456
## 8793	40.76702	-73.98741	2	0.844808725
## 8795	40.72576	-74.00381	1	-0.530807693
## 8797	40.77344	-73.94911	1	-0.472020667
## 8798	40.72391	-74.00658	2	-0.648381746
## 8800	40.81678	-73.93836	1	-1.059890931
## 8802	40.72228	-73.99582	3	-0.765955799
## 8803	40.75966	-73.96313	2	0.057062571
## 8805	40.71546	-73.98907	1	-0.119298508
## 8807	40.71610	-73.99828	2	0.115849597
## 8808	40.76406	-73.98868	2	0.233423650
## 8810	40.79324	-73.94037	1	-0.765955799
## 8812	40.73626	-73.98104	2	0.586145808
## 8813	40.71807	-74.00215	2	-0.354446614
## 8815	40.72275	-73.97598	2	0.527358782
## 8817	40.76730	-73.96043	1	-0.236872561
## 8818	40.73590	-74.00191	1	-0.119298508
## 8820	40.71214	-73.98955	1	-0.472020667

## 8822	40.74633	-73.99201	2	1.997034442
## 8823	40.78825	-73.97231	2	-0.178085535
## 8825	40.73650	-73.99751	2	0.927110562
## 8827	40.76100	-73.96150	2	0.280453271
## 8828	40.74929	-73.99658	1	-0.613109530
## 8830	40.72515	-73.98390	2	-0.013481861
## 8832	40.79931	-73.94196	2	0.468571756
## 8833	40.75622	-73.96768	1	-0.060511482
## 8835	40.75228	-73.97186	2	0.162879218
## 8837	40.76397	-73.96245	2	0.656690240
## 8838	40.82364	-73.95330	1	-0.824742825
## 8840	40.77117	-73.95599	2	0.174636624
## 8842	40.75105	-73.97045	2	-0.413233640
## 8843	40.76754	-73.96166	2	1.397406773
## 8845	40.83124	-73.94501	1	-1.059890931
## 8847	40.74368	-73.99825	1	-0.119298508
## 8848	40.78941	-73.94881	1	-0.824742825
## 8850	40.73088	-74.00378	2	1.997034442
## 8852	40.72635	-73.98578	1	0.292210676
## 8853	40.81102	-73.94712	2	0.033547760
## 8855	40.81407	-73.95092	2	-0.354446614
## 8857	40.73281	-73.98686	2	1.409164178
## 8858	40.74461	-73.97216	2	0.586145808
## 8860	40.777851	-73.94985	2	1.032927209
## 8862	40.71983	-73.98196	2	0.350997703
## 8863	40.80102	-73.95401	1	-0.707168773
## 8865	40.70602	-74.00891	1	-0.472020667
## 8867	40.78918	-73.94652	2	-0.354446614
## 8868	40.73975	-73.99848	2	1.585525257
## 8870	40.78857	-73.94952	1	-0.354446614
## 8872	40.78980	-73.94213	1	-0.060511482
## 8873	40.777043	-73.95557	2	0.233423650
## 8875	40.75764	-73.98963	1	0.233423650
## 8877	40.81736	-73.95294	1	-0.765955799
## 8878	40.72090	-73.98428	1	-0.354446614
## 8880	40.72503	-73.97851	2	1.997034442
## 8882	40.71206	-73.98824	1	-0.366204019
## 8883	40.76395	-73.96196	2	1.644312284
## 8885	40.74565	-73.99183	2	0.880080940
## 8887	40.76170	-73.99762	2	1.703099310
## 8888	40.73296	-73.98884	2	1.703099310
## 8890	40.78697	-73.94469	1	-0.366204019
## 8892	40.76399	-73.98971	2	0.350997703
## 8893	40.83837	-73.94224	1	-0.648381746
## 8895	40.72868	-73.99036	1	-0.942316878
## 8897	40.70966	-74.00762	2	2.878839838
## 8898	40.72891	-73.98797	2	-0.119298508
## 8900	40.72080	-73.98190	1	-0.648381746
## 8902	40.80237	-73.96601	1	-0.236872561
## 8903	40.72025	-73.97901	1	-0.742440988
## 8905	40.80096	-73.96758	1	-0.824742825
## 8907	40.71853	-73.98911	1	-0.519050288
## 8908	40.71520	-73.99947	2	0.339240298
## 8910	40.71248	-73.98662	2	0.350997703

## 8912	40.74686	-73.97514	2	3.172774970
## 8913	40.80258	-73.96760	1	-0.648381746
## 8915	40.75968	-73.99797	2	1.867702984
## 8917	40.76590	-73.98371	2	1.409164178
## 8918	40.82284	-73.95546	1	-0.942316878
## 8920	40.73428	-73.99969	2	1.068199425
## 8922	40.83490	-73.94829	2	0.233423650
## 8923	40.74870	-73.97842	1	-1.059890931
## 8925	40.71454	-73.99271	2	1.997034442
## 8927	40.80783	-73.95419	1	0.398027324
## 8928	40.80986	-73.95349	1	0.398027324
## 8930	40.72524	-73.97777	1	-0.707168773
## 8932	40.78600	-73.94571	1	-0.366204019
## 8933	40.80650	-73.94941	2	0.115849597
## 8935	40.76313	-73.99430	2	-0.060511482
## 8937	40.73267	-73.98259	1	-0.354446614
## 8938	40.82514	-73.95489	1	-0.824742825
## 8940	40.79369	-73.96539	2	0.233423650
## 8942	40.74226	-73.98344	2	0.786021698
## 8943	40.73278	-74.00053	2	-0.060511482
## 8945	40.71542	-73.99045	1	-0.131055914
## 8947	40.73726	-73.97932	1	-0.178085535
## 8948	40.74771	-73.98873	1	-0.178085535
## 8950	40.80811	-73.94486	2	0.821293914
## 8952	40.86859	-73.91948	1	-1.001103905
## 8953	40.81462	-73.95248	2	0.856566130
## 8955	40.76126	-73.98636	2	0.703719861
## 8957	40.77754	-73.95641	2	-0.060511482
## 8958	40.80703	-73.95354	2	-0.001724456
## 8960	40.73338	-73.98535	1	-0.236872561
## 8962	40.82305	-73.95033	1	-0.824742825
## 8963	40.87136	-73.91723	2	-0.236872561
## 8965	40.77221	-73.94819	2	1.997034442
## 8967	40.79835	-73.96160	2	1.291590125
## 8968	40.73316	-74.00476	2	0.198151434
## 8970	40.79402	-73.96398	2	-0.354446614
## 8972	40.80251	-73.95765	1	-0.942316878
## 8973	40.74182	-73.97898	2	0.350997703
## 8975	40.79335	-73.94527	2	0.057062571
## 8977	40.76323	-73.95916	2	0.821293914
## 8978	40.76120	-73.98631	2	3.172774970
## 8980	40.80604	-73.94233	1	-0.530807693
## 8982	40.71953	-73.98364	1	-0.648381746
## 8983	40.73266	-73.98412	1	-0.648381746
## 8985	40.82434	-73.94979	1	-1.036376120
## 8987	40.80778	-73.94345	1	-1.001103905
## 8988	40.72068	-73.99291	2	1.409164178
## 8990	40.80572	-73.94349	1	-1.001103905
## 8992	40.83590	-73.93842	2	-0.589594720
## 8993	40.83071	-73.94093	2	0.821293914
## 8995	40.81668	-73.94511	1	-1.118677957
## 8997	40.79935	-73.95399	1	-0.319174398
## 8998	40.72372	-73.97984	2	0.233423650
## 9000	40.78602	-73.97537	2	0.433299540

## 9002	40.80878	-73.95206	2	0.233423650
## 9003	40.76375	-73.94856	1	-0.765955799
## 9005	40.74786	-73.99527	2	-0.060511482
## 9007	40.76435	-73.95782	2	-0.236872561
## 9008	40.72757	-73.98439	1	-0.883529852
## 9010	40.80891	-73.94247	2	1.585525257
## 9012	40.79580	-73.93186	2	1.761886337
## 9013	40.79530	-73.97248	2	1.409164178
## 9015	40.80313	-73.95027	2	0.057062571
## 9017	40.82204	-73.94517	1	-1.059890931
## 9018	40.75976	-73.97178	1	-0.472020667
## 9020	40.77261	-73.94995	2	0.703719861
## 9022	40.75246	-73.97356	2	0.797779103
## 9023	40.74344	-73.99506	2	0.221666245
## 9025	40.72796	-74.00154	2	0.057062571
## 9027	40.77128	-73.95787	1	-0.589594720
## 9028	40.76807	-73.98418	1	-0.354446614
## 9030	40.78892	-73.94185	2	-0.001724456
## 9032	40.73204	-73.98364	1	-0.236872561
## 9033	40.78200	-73.95143	1	0.821293914
## 9035	40.72754	-73.98329	2	0.703719861
## 9037	40.76009	-73.98937	2	1.761886337
## 9038	40.86757	-73.92699	2	-0.483778072
## 9040	40.80325	-73.96174	1	-0.589594720
## 9042	40.72666	-73.97969	2	0.010032950
## 9043	40.77129	-73.95010	2	-0.119298508
## 9045	40.80130	-73.96669	1	-0.530807693
## 9047	40.77833	-73.94775	2	0.821293914
## 9048	40.71339	-73.98926	1	-0.718926178
## 9050	40.74446	-73.98044	2	0.809536509
## 9052	40.74694	-73.99728	2	0.597903214
## 9053	40.73240	-73.99708	2	1.997034442
## 9055	40.80764	-73.93963	2	0.527358782
## 9057	40.84657	-73.93570	1	-0.765955799
## 9058	40.83493	-73.93859	2	-0.730683583
## 9060	40.81067	-73.93896	2	0.233423650
## 9062	40.81783	-73.94051	2	-0.236872561
## 9063	40.72624	-73.97800	1	-0.954074283
## 9065	40.82191	-73.94190	1	-1.012861310
## 9067	40.82349	-73.94053	1	-0.589594720
## 9068	40.80397	-73.93499	1	-0.354446614
## 9070	40.72174	-73.99482	2	1.938247416
## 9072	40.79600	-73.94863	2	1.585525257
## 9073	40.79147	-73.94791	2	1.115229046
## 9075	40.73121	-73.98693	2	1.056442020
## 9077	40.72075	-73.99393	1	-0.236872561
## 9078	40.81588	-73.93984	2	3.172774970
## 9080	40.70551	-74.00735	1	-0.201600345
## 9082	40.72321	-73.99514	2	0.809536509
## 9083	40.70540	-74.00763	1	0.186394029
## 9085	40.77146	-73.98906	2	0.821293914
## 9087	40.74485	-74.00186	2	-0.824742825
## 9088	40.77257	-73.94616	1	-0.965831689
## 9090	40.80804	-73.94300	2	-0.119298508

## 9092	40.74111	-73.99594	2	0.233423650
## 9093	40.76982	-73.95697	2	-0.483778072
## 9095	40.77372	-73.95418	1	-0.189842940
## 9097	40.79275	-73.94191	1	-0.824742825
## 9098	40.84070	-73.93886	1	-0.354446614
## 9100	40.78565	-73.94268	1	0.233423650
## 9102	40.71550	-73.99198	2	-0.119298508
## 9103	40.81816	-73.94544	2	-0.354446614
## 9105	40.80793	-73.95799	1	-0.883529852
## 9107	40.72243	-73.99600	2	3.019928702
## 9108	40.77968	-73.94815	1	-0.472020667
## 9110	40.79952	-73.93764	2	1.291590125
## 9112	40.75089	-73.98059	2	0.104092192
## 9113	40.76213	-73.94889	1	-1.001103905
## 9115	40.73095	-74.00321	2	0.703719861
## 9117	40.81456	-73.95953	2	-0.236872561
## 9118	40.77585	-73.95754	1	0.021790355
## 9120	40.74383	-74.00340	1	-0.119298508
## 9122	40.71278	-73.99190	2	0.821293914
## 9123	40.73015	-74.00304	2	3.172774970
## 9125	40.72460	-73.98258	1	-0.589594720
## 9127	40.76954	-73.94904	2	-0.460263262
## 9128	40.80447	-73.94623	2	-0.119298508
## 9130	40.80103	-73.96546	2	-0.660139151
## 9132	40.777026	-73.95208	2	-0.036996671
## 9133	40.73873	-73.98714	2	1.409164178
## 9135	40.72947	-73.97850	1	-0.530807693
## 9137	40.74138	-73.99875	2	-0.025239266
## 9138	40.73613	-74.00711	2	1.056442020
## 9140	40.75073	-73.98439	1	2.584904706
## 9142	40.80722	-73.95924	1	-0.730683583
## 9143	40.86269	-73.92220	1	-0.589594720
## 9145	40.81943	-73.93870	1	-0.895287257
## 9147	40.85447	-73.92804	2	-0.366204019
## 9148	40.70858	-74.00599	1	-0.013481861
## 9150	40.71833	-73.99443	2	1.409164178
## 9152	40.76250	-73.98802	2	1.409164178
## 9153	40.76518	-73.99290	2	-0.377961425
## 9155	40.72382	-73.99335	1	-0.354446614
## 9157	40.80255	-73.95434	1	-0.648381746
## 9158	40.76835	-73.95837	1	-0.354446614
## 9160	40.79507	-73.94248	2	0.821293914
## 9162	40.83321	-73.93838	1	-0.895287257
## 9163	40.72709	-73.97459	1	-0.601352125
## 9165	40.78920	-73.97340	1	-0.589594720
## 9167	40.82104	-73.93915	1	-0.918802068
## 9168	40.76428	-73.99381	2	-0.001724456
## 9170	40.72018	-73.98521	2	1.409164178
## 9172	40.75524	-73.96755	1	-0.119298508
## 9173	40.71401	-73.99187	2	0.245181055
## 9175	40.76202	-73.99201	1	-0.413233640
## 9177	40.77484	-73.95103	1	-0.354446614
## 9178	40.72167	-73.99075	1	-0.530807693
## 9180	40.73368	-74.00049	1	-0.354446614

## 9182	40.84517	-73.93748	2	-0.765955799
## 9183	40.84710	-73.93501	2	-0.648381746
## 9185	40.76275	-73.99525	1	-0.707168773
## 9187	40.72543	-73.99129	2	0.997654993
## 9188	40.81153	-73.94528	1	-0.119298508
## 9190	40.79942	-73.95128	2	0.339240298
## 9192	40.72087	-73.98079	1	1.997034442
## 9193	40.80870	-73.95142	2	1.350377152
## 9195	40.78297	-73.98141	2	0.350997703
## 9197	40.71833	-73.98556	1	-0.413233640
## 9198	40.75997	-73.98781	1	0.292210676
## 9200	40.83036	-73.94346	1	-1.118677957
## 9202	40.76182	-73.94879	1	-0.942316878
## 9203	40.79639	-73.93319	1	-0.883529852
## 9205	40.71489	-73.99438	2	-0.013481861
## 9207	40.71780	-73.98448	2	0.550873593
## 9208	40.79519	-73.96945	2	-0.248629967
## 9210	40.75169	-73.97174	2	0.221666245
## 9212	40.73243	-74.00932	2	1.056442020
## 9213	40.82255	-73.94807	1	0.198151434
## 9215	40.87247	-73.91927	1	-0.836500231
## 9217	40.78592	-73.97331	2	-0.354446614
## 9218	40.82378	-73.95354	1	-0.942316878
## 9220	40.72571	-73.99506	2	-0.354446614
## 9222	40.71239	-73.98626	3	-1.153950173
## 9223	40.80883	-73.94577	1	-0.730683583
## 9225	40.82179	-73.94777	2	-0.413233640
## 9227	40.73741	-73.99003	2	0.221666245
## 9228	40.75092	-73.98636	2	1.879460389
## 9230	40.82112	-73.95482	1	-1.001103905
## 9232	40.71513	-73.99810	1	-0.354446614
## 9233	40.80324	-73.96432	1	-0.765955799
## 9235	40.82280	-73.93956	1	-0.824742825
## 9237	40.72747	-73.99690	2	1.291590125
## 9238	40.72363	-73.97972	2	4.336758093
## 9240	40.70742	-74.01544	2	0.821293914
## 9242	40.76418	-73.98885	2	0.703719861
## 9243	40.75827	-73.96196	2	0.997654993
## 9245	40.79583	-73.93595	2	-0.295659588
## 9247	40.73415	-74.00721	2	0.703719861
## 9248	40.72934	-74.00025	2	1.174016072
## 9250	40.76217	-73.99105	1	-0.354446614
## 9252	40.72351	-73.98389	1	-0.707168773
## 9253	40.75725	-73.98796	1	-0.354446614
## 9255	40.74786	-73.99652	1	-0.530807693
## 9257	40.71698	-73.99629	2	1.938247416
## 9258	40.79227	-73.94536	1	-0.483778072
## 9260	40.85019	-73.94093	3	-1.059890931
## 9262	40.83985	-73.93715	2	-0.765955799
## 9263	40.76514	-73.98551	1	-0.354446614
## 9265	40.77848	-73.94860	1	-0.707168773
## 9267	40.84369	-73.93891	2	0.233423650
## 9268	40.71800	-73.98497	2	-0.413233640
## 9270	40.80669	-73.94970	2	0.821293914

## 9272	40.74569	-73.99220	2	0.880080940
## 9273	40.74613	-73.99178	2	1.750128931
## 9275	40.72726	-73.98037	1	-0.472020667
## 9277	40.80997	-73.94120	2	-0.236872561
## 9278	40.77547	-73.96230	1	-0.295659588
## 9280	40.72253	-73.99459	2	0.821293914
## 9282	40.77149	-73.95121	2	0.586145808
## 9283	40.75966	-73.99100	1	0.233423650
## 9285	40.81626	-73.96035	1	-0.942316878
## 9287	40.84390	-73.93744	1	-0.907044662
## 9288	40.82682	-73.95142	1	-0.942316878
## 9290	40.71538	-73.99669	2	0.139364408
## 9292	40.72798	-73.97787	2	0.057062571
## 9293	40.71845	-73.98572	1	-0.060511482
## 9295	40.74543	-74.00055	2	1.997034442
## 9297	40.71510	-73.98661	2	0.586145808
## 9298	40.72880	-73.98147	1	-0.354446614
## 9300	40.777406	-73.98252	2	0.233423650
## 9302	40.81199	-73.95341	2	-0.060511482
## 9303	40.74837	-73.99639	1	-0.530807693
## 9305	40.79528	-73.94780	1	-0.648381746
## 9307	40.76555	-73.98029	2	0.233423650
## 9308	40.76115	-73.99597	2	2.584904706
## 9310	40.78138	-73.98318	1	-0.942316878
## 9312	40.82003	-73.95194	2	-0.354446614
## 9313	40.70639	-74.00794	1	-0.119298508
## 9315	40.76230	-73.95044	2	-0.401476235
## 9317	40.77198	-73.95003	2	0.821293914
## 9318	40.75993	-73.97054	2	0.174636624
## 9320	40.71812	-74.00440	2	0.703719861
## 9322	40.78864	-73.97683	2	1.997034442
## 9323	40.78190	-73.98367	1	0.821293914
## 9325	40.77174	-73.95703	1	-0.201600345
## 9327	40.76906	-73.95369	2	-0.131055914
## 9328	40.84916	-73.93759	1	-1.118677957
## 9330	40.75545	-73.99547	1	-0.131055914
## 9332	40.81387	-73.96205	2	-0.236872561
## 9333	40.86980	-73.92255	2	-0.119298508
## 9335	40.74593	-73.98687	2	0.821293914
## 9337	40.72355	-74.01045	2	2.878839838
## 9338	40.74917	-73.97549	2	0.821293914
## 9340	40.76106	-73.98891	1	-0.601352125
## 9342	40.76548	-73.99374	1	0.821293914
## 9343	40.80439	-73.96263	1	-0.942316878
## 9345	40.85365	-73.93298	1	-0.824742825
## 9347	40.80060	-73.94115	2	-0.366204019
## 9348	40.74788	-73.99615	1	-0.530807693
## 9350	40.78296	-73.98284	1	0.409784729
## 9352	40.72068	-73.98574	2	2.573147301
## 9353	40.71845	-74.00932	2	1.514980826
## 9355	40.71265	-73.98711	1	-0.918802068
## 9357	40.72350	-73.97963	2	0.821293914
## 9358	40.74227	-73.97432	1	-0.354446614
## 9360	40.74506	-73.98202	2	-0.366204019

## 9362	40.73260	-74.00824	2	0.586145808
## 9363	40.74324	-73.99586	1	-0.178085535
## 9365	40.80999	-73.94150	1	-0.589594720
## 9367	40.80227	-73.95523	1	-0.507292883
## 9368	40.75377	-73.97203	1	1.115229046
## 9370	40.75172	-73.97193	1	0.644932835
## 9372	40.74067	-74.00013	2	0.774264293
## 9373	40.82097	-73.95282	1	-1.059890931
## 9375	40.72198	-73.98785	1	-0.472020667
## 9377	40.82261	-73.95163	1	-1.236252010
## 9378	40.86688	-73.92402	1	-1.059890931
## 9380	40.81488	-73.94221	1	-0.530807693
## 9382	40.79732	-73.94873	1	-0.977589094
## 9383	40.74604	-73.97495	1	-0.589594720
## 9385	40.81516	-73.94829	3	-0.883529852
## 9387	40.80007	-73.96524	2	0.703719861
## 9388	40.77102	-73.94671	2	-0.589594720
## 9390	40.72290	-73.98476	1	-0.742440988
## 9392	40.85680	-73.93162	1	-0.401476235
## 9393	40.80371	-73.94377	2	1.115229046
## 9395	40.81378	-73.95152	1	-0.754198394
## 9397	40.79465	-73.94021	2	0.586145808
## 9398	40.74473	-73.99005	2	0.339240298
## 9400	40.83088	-73.94500	2	-0.624866936
## 9402	40.76585	-73.98507	2	0.527358782
## 9403	40.79656	-73.94818	1	-0.530807693
## 9405	40.81367	-73.93809	1	0.127607002
## 9407	40.80120	-73.95589	1	-0.178085535
## 9408	40.76486	-73.98682	2	0.821293914
## 9410	40.80545	-73.93838	1	-0.777713204
## 9412	40.75600	-73.97078	1	-0.095783698
## 9413	40.73898	-74.00415	2	1.409164178
## 9415	40.77672	-73.95559	1	-0.119298508
## 9417	40.80767	-73.95127	2	1.056442020
## 9418	40.79747	-73.93559	2	-0.295659588
## 9420	40.85310	-73.93872	2	-0.648381746
## 9422	40.72787	-73.97920	1	-0.942316878
## 9423	40.76468	-73.98680	2	-0.377961425
## 9425	40.71471	-73.99930	2	-0.354446614
## 9427	40.76738	-73.98565	1	-0.812985420
## 9428	40.72999	-74.00475	2	-0.236872561
## 9430	40.77327	-73.95470	2	-0.119298508
## 9432	40.83537	-73.93974	2	-0.413233640
## 9433	40.76591	-73.99016	2	0.350997703
## 9435	40.74489	-73.98382	2	0.809536509
## 9437	40.82777	-73.94070	2	-0.354446614
## 9438	40.78339	-73.98168	2	0.115849597
## 9440	40.75860	-73.98974	1	-0.389718830
## 9442	40.71789	-73.98308	2	-0.072268887
## 9443	40.80172	-73.95538	1	-0.354446614
## 9445	40.80842	-73.95568	1	0.327482892
## 9447	40.74147	-73.98577	1	-0.472020667
## 9448	40.70932	-74.00536	1	0.938867967
## 9450	40.74811	-73.97868	2	0.703719861

## 9452	40.71489	-73.99459	2	0.821293914
## 9453	40.81335	-73.95616	3	-0.942316878
## 9455	40.82818	-73.93890	1	-1.071648336
## 9457	40.82851	-73.94054	1	0.527358782
## 9458	40.75481	-73.96982	1	-0.131055914
## 9460	40.84353	-73.94201	1	-1.236252010
## 9462	40.80249	-73.95622	1	-0.883529852
## 9463	40.76404	-73.96547	1	-0.366204019
## 9465	40.76281	-73.96718	1	-0.154570724
## 9467	40.72931	-73.98258	1	-0.354446614
## 9468	40.71909	-73.99562	2	0.233423650
## 9470	40.80055	-73.94101	1	-0.495535477
## 9472	40.83935	-73.94019	1	-0.824742825
## 9473	40.72885	-73.98103	2	-0.178085535
## 9475	40.74814	-74.00372	2	1.174016072
## 9477	40.71863	-73.98958	1	-0.354446614
## 9478	40.71892	-73.98958	1	-0.354446614
## 9480	40.81884	-73.94579	1	0.503843971
## 9482	40.77328	-73.94982	1	-0.001724456
## 9483	40.77016	-73.98126	2	1.409164178
## 9485	40.74089	-74.00002	2	-0.001724456
## 9487	40.72293	-73.98918	2	0.821293914
## 9488	40.74976	-73.97444	2	-0.001724456
## 9490	40.82545	-73.95295	1	-0.824742825
## 9492	40.75673	-73.99362	2	0.468571756
## 9493	40.72569	-73.99519	2	3.161017565
## 9495	40.75562	-73.96539	2	0.221666245
## 9497	40.76318	-73.99009	2	-0.060511482
## 9498	40.77659	-73.95407	1	-0.001724456
## 9500	40.80346	-73.94583	2	2.702478759
## 9502	40.74512	-73.99179	1	0.821293914
## 9503	40.71867	-73.99709	2	0.821293914
## 9505	40.73249	-74.00854	2	0.938867967
## 9507	40.85622	-73.93147	2	0.821293914
## 9508	40.80443	-73.94546	2	-0.119298508
## 9510	40.79241	-73.97262	1	-0.907044662
## 9512	40.71873	-73.99073	1	-0.413233640
## 9513	40.72550	-74.00258	2	3.866461882
## 9515	40.72951	-73.98239	1	-0.472020667
## 9517	40.80766	-73.96594	1	-0.824742825
## 9518	40.73459	-74.00143	2	0.057062571
## 9520	40.84194	-73.94203	1	-0.918802068
## 9522	40.76868	-73.95744	2	-0.236872561
## 9523	40.82793	-73.94349	1	-0.530807693
## 9525	40.75166	-73.99506	2	0.233423650
## 9527	40.82167	-73.94988	2	-0.236872561
## 9528	40.76617	-73.98398	1	-0.413233640
## 9530	40.73126	-73.98149	1	-0.671896557
## 9532	40.83498	-73.94214	1	-0.789470609
## 9533	40.71280	-73.98909	1	-0.389718830
## 9535	40.75784	-73.96088	2	0.527358782
## 9537	40.77565	-73.94919	2	0.268695866
## 9538	40.77786	-73.98066	2	1.326862341
## 9540	40.72510	-73.98914	2	0.115849597

## 9542	40.77743	-73.94977	2	0.115849597
## 9543	40.70829	-74.01405	2	0.821293914
## 9545	40.77710	-73.94996	2	1.291590125
## 9547	40.77732	-73.94991	2	1.115229046
## 9548	40.78568	-73.94868	1	-0.530807693
## 9550	40.80769	-73.95505	1	-0.142813319
## 9552	40.77673	-73.98011	2	0.821293914
## 9553	40.73452	-74.00825	2	0.997654993
## 9555	40.72650	-73.98278	1	-0.695411367
## 9557	40.77428	-73.95363	1	-0.354446614
## 9558	40.72429	-73.98784	1	-0.589594720
## 9560	40.72840	-73.98295	1	-0.707168773
## 9562	40.74550	-73.99160	1	-0.366204019
## 9563	40.71485	-73.99157	1	-0.765955799
## 9565	40.78461	-73.97627	2	0.409784729
## 9567	40.78966	-73.94232	1	-0.319174398
## 9568	40.75662	-73.98749	1	1.997034442
## 9570	40.77058	-73.95358	2	0.350997703
## 9572	40.80926	-73.94979	1	-0.648381746
## 9573	40.72709	-73.98612	2	-0.060511482
## 9575	40.76109	-73.99305	1	0.057062571
## 9577	40.80921	-73.94002	1	-0.707168773
## 9578	40.81055	-73.94016	1	-0.765955799
## 9580	40.71449	-73.99094	1	-0.707168773
## 9582	40.72576	-73.97908	2	0.350997703
## 9583	40.72520	-73.98339	1	-0.060511482
## 9585	40.80999	-73.93946	2	-0.178085535
## 9587	40.79315	-73.93984	1	-0.977589094
## 9588	40.75659	-73.99313	2	1.174016072
## 9590	40.80437	-73.96387	3	-1.118677957
## 9592	40.78587	-73.97468	1	-0.354446614
## 9593	40.72576	-74.00266	1	-0.589594720
## 9595	40.82935	-73.94255	1	-0.895287257
## 9597	40.80338	-73.96360	2	-0.354446614
## 9598	40.75151	-73.97114	1	-0.824742825
## 9600	40.75029	-73.98402	2	2.584904706
## 9602	40.73394	-74.00302	2	-0.060511482
## 9603	40.72040	-74.00047	1	-0.248629967
## 9605	40.72584	-73.98940	1	-0.613109530
## 9607	40.76106	-73.98627	2	0.586145808
## 9608	40.85188	-73.93588	1	-0.707168773
## 9610	40.80268	-73.94051	2	-0.354446614
## 9612	40.75440	-73.96721	2	0.821293914
## 9613	40.84543	-73.94010	2	-0.942316878
## 9615	40.72045	-73.99004	1	-0.377961425
## 9617	40.73532	-74.00310	2	0.468571756
## 9618	40.76553	-73.98879	1	-0.142813319
## 9620	40.72723	-73.99186	2	0.762506888
## 9622	40.73977	-73.99938	2	0.703719861
## 9623	40.78141	-73.97681	2	0.350997703
## 9625	40.77747	-73.95193	2	0.703719861
## 9627	40.77823	-73.95127	2	1.232803099
## 9628	40.74281	-73.99969	2	0.527358782
## 9630	40.72759	-73.98619	2	0.115849597

## 9632	40.76851	-73.95506	2	0.233423650
## 9633	40.81288	-73.94155	1	-0.954074283
## 9635	40.76407	-73.99203	2	0.010032950
## 9637	40.85076	-73.94047	1	-0.942316878
## 9638	40.80754	-73.95151	1	-0.848257636
## 9640	40.76269	-73.99139	2	0.644932835
## 9642	40.76579	-73.97701	2	1.997034442
## 9643	40.71306	-73.98715	2	1.409164178
## 9645	40.76642	-73.99423	1	0.233423650
## 9647	40.83705	-73.94083	1	-0.824742825
## 9648	40.76076	-73.99266	1	-0.236872561
## 9650	40.73381	-74.00365	1	0.233423650
## 9652	40.80238	-73.96503	1	-0.354446614
## 9653	40.79536	-73.94197	1	-0.883529852
## 9655	40.74511	-73.97780	2	0.821293914
## 9657	40.81961	-73.94583	2	0.527358782
## 9658	40.72713	-73.98159	2	0.527358782
## 9660	40.73023	-74.00294	2	1.409164178
## 9662	40.82316	-73.95343	1	-0.648381746
## 9663	40.84114	-73.93639	1	-0.718926178
## 9665	40.84099	-73.93694	1	-0.671896557
## 9667	40.74560	-74.00107	1	-0.354446614
## 9668	40.76253	-73.95001	2	-0.848257636
## 9670	40.74430	-73.97925	2	1.409164178
## 9672	40.80113	-73.95287	1	-0.707168773
## 9673	40.74350	-74.00119	1	1.867702984
## 9675	40.83712	-73.94664	1	-0.648381746
## 9677	40.72056	-73.98539	2	2.290969574
## 9678	40.77279	-73.94696	2	0.927110562
## 9680	40.73828	-73.98954	1	1.409164178
## 9682	40.78007	-73.94803	2	-0.060511482
## 9683	40.76684	-73.96203	2	-0.048754077
## 9685	40.79877	-73.93964	1	-0.295659588
## 9687	40.76437	-73.94844	1	0.233423650
## 9688	40.73521	-73.98147	2	0.292210676
## 9690	40.79215	-73.97108	1	-0.589594720
## 9692	40.75001	-73.98629	1	-0.765955799
## 9693	40.81161	-73.94394	1	-0.765955799
## 9695	40.79456	-73.96853	2	3.172774970
## 9697	40.73773	-74.00181	2	1.397406773
## 9698	40.79358	-73.97452	1	0.527358782
## 9700	40.81767	-73.94051	2	-0.718926178
## 9702	40.81968	-73.94580	2	0.057062571
## 9703	40.79517	-73.97555	2	0.821293914
## 9705	40.73565	-73.99613	2	-0.084026293
## 9707	40.71270	-73.98857	1	-0.613109530
## 9708	40.81638	-73.95937	1	-0.707168773
## 9710	40.73695	-73.97336	1	0.033547760
## 9712	40.73746	-73.98338	2	-0.366204019
## 9713	40.78073	-73.95013	2	-0.095783698
## 9715	40.72103	-73.99866	2	-0.060511482
## 9717	40.71264	-73.99893	2	-0.589594720
## 9718	40.74481	-73.98523	2	0.233423650
## 9720	40.73418	-74.00621	2	0.586145808

## 9722	40.85321	-73.93596	3	-1.118677957
## 9723	40.75766	-73.99089	2	0.762506888
## 9725	40.75930	-73.99229	2	0.762506888
## 9727	40.76485	-73.98436	2	0.762506888
## 9728	40.76321	-73.98356	2	1.326862341
## 9730	40.74896	-73.98277	2	-0.178085535
## 9732	40.74526	-73.97679	2	0.233423650
## 9733	40.75020	-73.98289	2	0.292210676
## 9735	40.73484	-73.99614	1	1.997034442
## 9737	40.71942	-73.99694	2	0.292210676
## 9738	40.70817	-74.00511	1	-0.354446614
## 9740	40.81780	-73.93774	1	-0.060511482
## 9742	40.72778	-73.98936	1	-0.413233640
## 9743	40.82805	-73.94676	2	0.233423650
## 9745	40.73170	-73.98330	1	-0.354446614
## 9747	40.72810	-73.98390	1	-0.236872561
## 9748	40.79917	-73.96765	1	-0.648381746
## 9750	40.78025	-73.94802	1	-0.366204019
## 9752	40.83137	-73.94117	1	-0.131055914
## 9753	40.78206	-73.94949	2	-0.295659588
## 9755	40.72105	-73.98371	2	0.233423650
## 9757	40.74431	-73.99220	1	-0.354446614
## 9758	40.76675	-73.95428	3	-1.118677957
## 9760	40.72208	-73.98109	1	-0.671896557
## 9762	40.76407	-73.99322	2	2.937626865
## 9763	40.84806	-73.93931	1	-0.589594720
## 9765	40.79790	-73.96024	2	-0.001724456
## 9767	40.82288	-73.95254	1	-0.789470609
## 9768	40.78873	-73.97402	2	0.762506888
## 9770	40.81955	-73.95587	1	-0.930559473
## 9772	40.72208	-73.98473	2	-0.236872561
## 9773	40.80063	-73.95223	2	0.821293914
## 9775	40.77984	-73.94725	2	-0.001724456
## 9777	40.75046	-73.99854	2	0.703719861
## 9778	40.73104	-73.99831	1	-0.589594720
## 9780	40.71569	-73.99076	1	-0.789470609
## 9782	40.74314	-73.99552	2	1.409164178
## 9783	40.77186	-73.95402	1	-0.472020667
## 9785	40.72804	-73.98665	2	-0.154570724
## 9787	40.82432	-73.93850	3	-1.236252010
## 9788	40.72833	-73.98118	1	-0.707168773
## 9790	40.71463	-73.99658	2	0.562630998
## 9792	40.78172	-73.94827	2	1.115229046
## 9793	40.73414	-74.00001	2	1.115229046
## 9795	40.72956	-73.99979	2	0.456814350
## 9797	40.74074	-73.98573	2	1.467951205
## 9798	40.77699	-73.95193	1	-0.589594720
## 9800	40.72588	-73.98598	2	-0.095783698
## 9802	40.79712	-73.96117	1	-0.060511482
## 9803	40.79563	-73.97634	2	0.997654993
## 9805	40.86857	-73.91577	1	-0.824742825
## 9807	40.81315	-73.94747	2	0.233423650
## 9808	40.78193	-73.95099	1	-0.824742825
## 9810	40.82279	-73.95170	1	-0.601352125

## 9812	40.74054	-74.00040	2	2.761265785
## 9813	40.82837	-73.94854	1	-0.519050288
## 9815	40.74817	-73.98211	2	2.290969574
## 9817	40.76383	-73.97704	1	0.809536509
## 9818	40.77546	-73.94897	1	-0.048754077
## 9820	40.77349	-73.94994	1	-0.013481861
## 9822	40.85022	-73.92903	1	-0.942316878
## 9823	40.72864	-73.98102	2	0.821293914
## 9825	40.77010	-73.95890	2	1.409164178
## 9827	40.79750	-73.97161	2	0.809536509
## 9828	40.72263	-73.99622	1	-0.648381746
## 9830	40.77617	-73.98188	2	1.397406773
## 9832	40.81184	-73.94488	1	-0.483778072
## 9833	40.81530	-73.95080	1	-0.765955799
## 9835	40.86448	-73.92351	1	-0.366204019
## 9837	40.73450	-73.98482	2	2.290969574
## 9838	40.72194	-73.98941	3	-0.730683583
## 9840	40.79274	-73.94562	1	-0.319174398
## 9842	40.76722	-73.98568	2	1.138743857
## 9843	40.78549	-73.97664	2	-0.389718830
## 9845	40.78866	-73.95435	1	-0.801228015
## 9847	40.83046	-73.94142	1	-1.177464984
## 9848	40.80113	-73.94283	1	-0.354446614
## 9850	40.80171	-73.96623	1	-0.483778072
## 9852	40.72196	-73.99664	1	-0.119298508
## 9853	40.72107	-73.98039	2	0.468571756
## 9855	40.76999	-73.94928	2	-0.413233640
## 9857	40.72856	-73.98125	2	-0.601352125
## 9858	40.79295	-73.93808	1	-0.801228015
## 9860	40.73581	-74.00666	2	0.644932835
## 9862	40.74891	-73.97846	2	1.232803099
## 9863	40.78311	-73.95299	1	-0.589594720
## 9865	40.74397	-73.98405	2	-0.001724456
## 9867	40.72771	-73.98983	1	-0.354446614
## 9868	40.81213	-73.93950	2	-0.707168773
## 9870	40.84545	-73.93809	1	-0.977589094
## 9872	40.77048	-73.98252	1	1.409164178
## 9873	40.72571	-73.98789	2	1.409164178
## 9875	40.75794	-73.96959	2	0.127607002
## 9877	40.81473	-73.96217	2	0.115849597
## 9878	40.82170	-73.93751	1	-0.601352125
## 9880	40.81217	-73.94056	2	0.221666245
## 9882	40.76587	-73.98211	2	2.937626865
## 9883	40.76987	-73.95111	2	-0.236872561
## 9885	40.79274	-73.94286	1	-0.765955799
## 9887	40.74119	-74.00060	1	3.513739723
## 9888	40.71326	-73.99698	1	-0.648381746
## 9890	40.71816	-73.99538	1	-0.472020667
## 9892	40.81550	-73.93986	1	-1.083405742
## 9893	40.72147	-73.98774	2	-0.036996671
## 9895	40.76313	-73.98978	1	-0.354446614
## 9897	40.78056	-73.95182	2	0.198151434
## 9898	40.80972	-73.95774	2	-0.413233640
## 9900	40.79416	-73.97044	1	-0.413233640

## 9902	40.72439	-73.97607	2	-0.001724456
## 9903	40.72999	-74.00340	1	-0.366204019
## 9905	40.73612	-73.99978	2	3.113987944
## 9907	40.77290	-73.95738	2	-0.178085535
## 9908	40.73117	-73.97616	1	-0.883529852
## 9910	40.77243	-73.95744	1	1.997034442
## 9912	40.78593	-73.97485	2	0.938867967
## 9913	40.79020	-73.97568	2	0.233423650
## 9915	40.71456	-73.99077	1	-0.413233640
## 9917	40.86517	-73.92318	1	-0.765955799
## 9918	40.78549	-73.97673	1	-0.472020667
## 9920	40.71889	-73.99604	1	-0.366204019
## 9922	40.84345	-73.94220	1	-0.354446614
## 9923	40.80104	-73.96041	1	-1.001103905
## 9925	40.75030	-74.00473	1	-0.860015041
## 9927	40.72308	-73.97988	1	-0.354446614
## 9928	40.78913	-73.98043	2	2.196910332
## 9930	40.78070	-73.97869	2	0.821293914
## 9932	40.81131	-73.95820	1	-1.001103905
## 9933	40.73953	-74.00841	2	0.468571756
## 9935	40.72261	-73.99348	2	1.409164178
## 9937	40.73272	-74.00356	2	1.174016072
## 9938	40.81053	-73.94332	2	-0.001724456
## 9940	40.777858	-73.98707	2	0.233423650
## 9942	40.76876	-73.98359	2	2.878839838
## 9943	40.74423	-74.00111	2	-0.413233640
## 9945	40.74701	-73.99140	1	-0.295659588
## 9947	40.70732	-74.01451	1	-0.295659588
## 9948	40.71866	-73.99633	1	-0.119298508
## 9950	40.81321	-73.94556	2	0.233423650
## 9952	40.77317	-73.98895	1	-0.742440988
## 9953	40.81064	-73.94405	1	-0.742440988
## 9955	40.74289	-73.98134	2	0.527358782
## 9957	40.76191	-73.99766	2	4.336758093
## 9958	40.84497	-73.93934	1	-0.589594720
## 9960	40.72964	-73.99946	2	0.809536509
## 9962	40.79795	-73.96199	2	0.527358782
## 9963	40.84354	-73.93874	2	-0.942316878
## 9965	40.73819	-73.97389	2	0.233423650
## 9967	40.80353	-73.94707	2	1.409164178
## 9968	40.85516	-73.92863	1	-0.883529852
## 9970	40.77090	-73.95508	2	-0.001724456
## 9972	40.76310	-73.96281	2	0.574388403
## 9973	40.70481	-74.00805	2	1.644312284
## 9975	40.81928	-73.95398	1	-0.589594720
## 9977	40.79487	-73.96555	2	-0.354446614
## 9978	40.76982	-73.95258	2	-0.295659588
## 9980	40.74432	-73.99985	2	0.586145808
## 9982	40.77777	-73.97939	2	1.409164178
## 9983	40.83126	-73.94832	1	-0.119298508
## 9985	40.78071	-73.95149	1	0.233423650
## 9987	40.76470	-73.99414	2	-0.119298508
## 9988	40.72269	-73.98428	1	-0.942316878
## 9990	40.78470	-73.98196	2	0.068819976

## 9992	40.78463	-73.98303	2	-0.131055914
## 9993	40.80416	-73.96538	1	-0.366204019
## 9995	40.74754	-73.99036	1	-0.718926178
## 9997	40.71869	-73.99310	2	0.821293914
## 9998	40.76318	-73.99462	2	0.821293914
## 10000	40.76126	-73.99685	2	1.997034442
## 10002	40.76976	-73.95208	1	-0.236872561
## 10003	40.85354	-73.93095	1	-0.942316878
## 10005	40.84955	-73.94167	1	-1.118677957
## 10007	40.73218	-73.98815	2	1.820673363
## 10008	40.73550	-73.99964	2	2.337999195
## 10010	40.76889	-73.95480	1	-0.354446614
## 10012	40.80965	-73.94696	1	-0.178085535
## 10013	40.79794	-73.97188	1	-1.059890931
## 10015	40.75230	-73.97299	2	0.045305165
## 10017	40.71836	-73.99777	1	-0.472020667
## 10018	40.78906	-73.97732	2	0.209908839
## 10020	40.78164	-73.95873	2	4.230941446
## 10022	40.74612	-73.97684	1	-0.624866936
## 10023	40.80567	-73.95677	2	0.115849597
## 10025	40.76392	-73.98187	2	0.656690240
## 10027	40.72448	-73.99247	2	3.172774970
## 10028	40.80405	-73.94513	2	-0.530807693
## 10030	40.72412	-73.97911	2	0.115849597
## 10032	40.80947	-73.94066	1	-1.177464984
## 10033	40.80507	-73.96414	2	-0.166328130
## 10035	40.76658	-73.99335	2	1.409164178
## 10037	40.78571	-73.97649	1	0.233423650
## 10038	40.73957	-73.98233	2	0.445056945
## 10040	40.70689	-74.00671	2	0.174636624
## 10042	40.74020	-73.99900	2	1.997034442
## 10043	40.76013	-73.96566	3	-0.366204019
## 10045	40.76692	-73.98548	1	0.574388403
## 10047	40.75383	-73.99733	3	0.174636624
## 10048	40.86396	-73.92670	1	-0.942316878
## 10050	40.82205	-73.95335	1	-0.589594720
## 10052	40.72420	-73.97777	1	0.233423650
## 10053	40.77138	-73.94973	2	0.174636624
## 10055	40.74672	-74.00187	2	0.762506888
## 10057	40.76431	-73.98910	1	-0.366204019
## 10058	40.74911	-74.00125	2	0.938867967
## 10060	40.80580	-73.96520	2	0.174636624
## 10062	40.72734	-73.98338	1	-0.530807693
## 10063	40.80514	-73.95115	2	-0.060511482
## 10065	40.72615	-74.00097	2	0.997654993
## 10067	40.82443	-73.94154	1	-0.354446614
## 10068	40.82348	-73.94581	1	-1.071648336
## 10070	40.76476	-73.98457	2	0.586145808
## 10072	40.74404	-73.97985	1	-0.236872561
## 10073	40.79871	-73.96801	1	0.738992077
## 10075	40.71602	-73.99293	1	0.586145808
## 10077	40.78858	-73.94947	1	-0.354446614
## 10078	40.73376	-74.00095	2	2.584904706
## 10080	40.80355	-73.94647	2	-0.236872561

## 10082	40.82439	-73.94014	1	-0.883529852
## 10083	40.76534	-73.98940	1	-0.765955799
## 10085	40.80897	-73.95651	2	-0.119298508
## 10087	40.70468	-74.00722	2	-0.001724456
## 10088	40.72477	-73.99534	1	-0.413233640
## 10090	40.79126	-73.94663	2	0.762506888
## 10092	40.76765	-73.95507	2	0.174636624
## 10093	40.77827	-73.97673	2	0.221666245
## 10095	40.86689	-73.92353	1	-0.989346499
## 10097	40.81360	-73.93606	2	0.233423650
## 10098	40.76989	-73.98229	2	1.056442020
## 10100	40.74988	-73.99553	2	-0.483778072
## 10102	40.71933	-73.99000	2	0.139364408
## 10103	40.76537	-73.98855	1	-0.119298508
## 10105	40.80333	-73.96693	1	-0.824742825
## 10107	40.84662	-73.93436	1	-0.707168773
## 10108	40.72681	-73.98401	2	0.703719861
## 10110	40.72827	-74.00083	2	-0.236872561
## 10112	40.83099	-73.94440	2	1.938247416
## 10113	40.79872	-73.96173	1	-0.707168773
## 10115	40.81253	-73.93952	2	-0.366204019
## 10117	40.74559	-73.98216	2	1.514980826
## 10118	40.78081	-73.98081	2	0.339240298
## 10120	40.72948	-74.00961	2	0.762506888
## 10122	40.77822	-73.95136	2	0.350997703
## 10123	40.82360	-73.94412	1	-1.118677957
## 10125	40.78908	-73.94216	1	-1.118677957
## 10127	40.73075	-74.00222	2	0.339240298
## 10128	40.72002	-73.99629	2	0.233423650
## 10130	40.82389	-73.95266	1	-0.860015041
## 10132	40.777409	-73.94995	1	-0.119298508
## 10133	40.86370	-73.92826	2	-0.354446614
## 10135	40.72598	-73.98934	1	-0.519050288
## 10137	40.86770	-73.92250	1	-0.883529852
## 10138	40.73401	-73.98140	2	1.126986451
## 10140	40.76208	-73.94954	1	-0.354446614
## 10142	40.81752	-73.94162	2	-0.589594720
## 10143	40.81510	-73.96091	1	-1.024618715
## 10145	40.82444	-73.94525	1	-0.472020667
## 10147	40.74569	-73.99687	2	0.821293914
## 10148	40.81651	-73.95924	1	-0.942316878
## 10150	40.83716	-73.94048	1	-1.095163147
## 10152	40.72588	-73.98827	2	0.045305165
## 10153	40.80584	-73.95272	1	-0.613109530
## 10155	40.79264	-73.97481	2	-0.366204019
## 10157	40.77244	-73.98204	3	-0.648381746
## 10158	40.78020	-73.94652	2	-0.601352125
## 10160	40.73096	-74.00406	1	-0.354446614
## 10162	40.77878	-73.94993	2	0.891838346
## 10163	40.73107	-74.00163	2	0.527358782
## 10165	40.75607	-73.99707	1	-0.424991046
## 10167	40.73158	-73.98700	2	3.396165671
## 10168	40.73310	-73.99923	1	-0.472020667
## 10170	40.74822	-73.97966	1	-0.765955799

## 10172	40.76646	-73.97912	2	2.584904706
## 10173	40.80389	-73.95178	2	0.809536509
## 10175	40.77557	-73.98099	3	-0.765955799
## 10177	40.76520	-73.99197	1	-0.742440988
## 10178	40.86835	-73.91958	2	-0.942316878
## 10180	40.77973	-73.95039	2	0.233423650
## 10182	40.75194	-73.97068	2	1.197530883
## 10183	40.73810	-73.99760	2	0.821293914
## 10185	40.82761	-73.93750	1	-0.354446614
## 10187	40.75233	-73.97297	2	1.985277037
## 10188	40.78974	-73.94250	3	2.584904706
## 10190	40.71947	-73.98638	2	0.821293914
## 10192	40.86057	-73.92907	2	-0.354446614
## 10193	40.72237	-73.98148	1	1.703099310
## 10195	40.77294	-73.95351	2	0.445056945
## 10197	40.82607	-73.94481	1	-0.530807693
## 10198	40.80298	-73.94333	1	-0.824742825
## 10200	40.82527	-73.95359	1	-0.883529852
## 10202	40.78546	-73.94117	1	-0.707168773
## 10203	40.72208	-73.98071	2	0.938867967
## 10205	40.73369	-74.00534	2	0.809536509
## 10207	40.72037	-73.98701	2	-0.236872561
## 10208	40.77229	-73.97944	2	0.821293914
## 10210	40.73159	-73.98447	2	0.033547760
## 10212	40.76720	-73.95495	2	-0.119298508
## 10213	40.81368	-73.95919	1	-0.942316878
## 10215	40.77481	-73.95641	2	-0.084026293
## 10217	40.72410	-73.98959	2	0.033547760
## 10218	40.80420	-73.95669	1	-0.648381746
## 10220	40.82250	-73.94493	2	0.821293914
## 10222	40.79939	-73.96752	1	-0.707168773
## 10223	40.70586	-74.00875	1	-0.530807693
## 10225	40.81271	-73.94055	1	-0.648381746
## 10227	40.84773	-73.93251	1	-0.824742825
## 10228	40.75405	-73.99377	1	0.586145808
## 10230	40.79978	-73.96797	1	-0.707168773
## 10232	40.74452	-73.98163	2	0.762506888
## 10233	40.76000	-73.98915	1	0.057062571
## 10235	40.70738	-74.01281	2	0.350997703
## 10237	40.72415	-73.98411	2	-0.025239266
## 10238	40.80120	-73.96693	3	-0.883529852
## 10240	40.82130	-73.95131	1	-0.942316878
## 10242	40.85115	-73.93703	1	-0.589594720
## 10243	40.72008	-73.98268	1	-0.307416993
## 10245	40.75725	-73.99590	2	0.586145808
## 10247	40.72667	-74.00179	2	0.398027324
## 10248	40.72180	-73.98723	1	-0.789470609
## 10250	40.80393	-73.95674	1	-0.883529852
## 10252	40.70817	-74.00675	1	-0.178085535
## 10253	40.77958	-73.95025	2	-0.648381746
## 10255	40.82425	-73.95520	2	-0.413233640
## 10257	40.85618	-73.93085	1	-1.012861310
## 10258	40.79376	-73.94679	1	-0.060511482
## 10260	40.75403	-73.96343	2	1.115229046

## 10262	40.80324	-73.93520	2	-0.119298508
## 10263	40.81372	-73.95612	2	0.762506888
## 10265	40.73193	-73.98861	2	0.821293914
## 10267	40.80225	-73.96633	1	-0.824742825
## 10268	40.75997	-73.99923	2	1.456193799
## 10270	40.80005	-73.97010	2	1.938247416
## 10272	40.85391	-73.93649	1	-0.942316878
## 10273	40.74819	-73.97600	2	0.233423650
## 10275	40.73742	-73.98219	2	1.585525257
## 10277	40.73334	-73.98904	2	0.350997703
## 10278	40.76617	-73.98445	2	0.633175430
## 10280	40.74814	-73.97693	2	0.233423650
## 10282	40.73016	-74.00137	1	-0.413233640
## 10283	40.81233	-73.95717	1	-0.718926178
## 10285	40.72146	-73.98838	2	-0.060511482
## 10287	40.73776	-73.99794	2	0.409784729
## 10288	40.75229	-73.99550	2	1.409164178
## 10290	40.80152	-73.96696	1	-0.942316878
## 10292	40.72007	-73.98385	2	2.055821469
## 10293	40.75044	-73.97530	2	0.233423650
## 10295	40.75754	-73.96177	2	1.703099310
## 10297	40.70833	-74.01068	1	-0.707168773
## 10298	40.71682	-73.99843	1	-0.001724456
## 10300	40.76011	-73.98828	2	1.703099310
## 10302	40.72772	-73.98091	2	-0.648381746
## 10303	40.76136	-73.99309	2	0.350997703
## 10305	40.72681	-74.00771	1	-0.636624341
## 10307	40.76749	-73.96246	1	0.703719861
## 10308	40.71017	-74.00924	1	0.057062571
## 10310	40.85031	-73.93901	1	-0.954074283
## 10312	40.74154	-74.00161	2	0.221666245
## 10313	40.77127	-73.98191	2	1.644312284
## 10315	40.82265	-73.94686	1	-0.883529852
## 10317	40.76387	-73.99117	1	-0.354446614
## 10318	40.78663	-73.97844	1	-0.354446614
## 10320	40.78569	-73.97048	2	-0.601352125
## 10322	40.76312	-73.96045	1	-0.883529852
## 10323	40.71921	-73.99238	1	0.233423650
## 10325	40.74966	-73.97601	2	0.527358782
## 10327	40.77296	-73.95711	2	0.209908839
## 10328	40.73318	-73.98436	2	-0.142813319
## 10330	40.79166	-73.97319	2	0.468571756
## 10332	40.75888	-73.99077	2	0.292210676
## 10333	40.73267	-74.00404	2	1.456193799
## 10335	40.73884	-73.99767	1	0.233423650
## 10337	40.77948	-73.95152	2	0.821293914
## 10338	40.71842	-74.01523	2	0.821293914
## 10340	40.77356	-73.98007	2	0.821293914
## 10342	40.85152	-73.93804	1	-1.001103905
## 10343	40.80115	-73.95262	2	-0.213357751
## 10345	40.73002	-73.99804	2	0.527358782
## 10347	40.79729	-73.93537	1	-0.954074283
## 10348	40.74384	-73.98243	3	-0.883529852
## 10350	40.77895	-73.94974	2	0.821293914

## 10352	40.80214	-73.95658	1	-0.883529852
## 10353	40.75118	-73.99902	1	-0.472020667
## 10355	40.81119	-73.94751	2	0.809536509
## 10357	40.76224	-73.99909	2	1.056442020
## 10358	40.76387	-73.96180	1	-0.178085535
## 10360	40.78285	-73.94875	2	-0.013481861
## 10362	40.75452	-73.96634	2	-0.095783698
## 10363	40.78841	-73.97461	2	0.821293914
## 10365	40.74683	-73.98761	2	0.327482892
## 10367	40.79631	-73.94348	1	-0.601352125
## 10368	40.76873	-73.94397	1	-0.930559473
## 10370	40.71970	-73.99331	2	0.468571756
## 10372	40.76269	-73.96053	2	3.937006314
## 10373	40.75169	-73.97116	1	-0.354446614
## 10375	40.74165	-73.98486	2	1.032927209
## 10377	40.72204	-73.97924	1	-0.354446614
## 10378	40.79475	-73.94247	2	0.233423650
## 10380	40.71588	-74.01691	2	1.409164178
## 10382	40.76619	-73.98987	2	0.574388403
## 10383	40.74806	-73.99665	1	-0.530807693
## 10385	40.74183	-73.99878	2	2.584904706
## 10387	40.80545	-73.95489	1	-0.060511482
## 10388	40.82634	-73.95061	1	-0.589594720
## 10390	40.77565	-73.98684	2	3.043443512
## 10392	40.74736	-73.97838	1	-0.824742825
## 10393	40.76870	-73.94308	1	-0.930559473
## 10395	40.84977	-73.93536	1	-0.824742825
## 10397	40.72136	-73.97882	1	-0.483778072
## 10398	40.81192	-73.96164	1	-0.472020667
## 10400	40.85674	-73.93003	1	-1.118677957
## 10402	40.71222	-74.01566	2	2.584904706
## 10403	40.79510	-73.96675	2	0.409784729
## 10405	40.72669	-73.98864	2	1.750128931
## 10407	40.81515	-73.94210	1	-0.589594720
## 10408	40.79632	-73.93387	2	-0.178085535
## 10410	40.75964	-73.99071	1	-0.954074283
## 10412	40.76548	-73.94675	1	-0.883529852
## 10413	40.72951	-73.99997	1	0.233423650
## 10415	40.78773	-73.97022	2	-0.201600345
## 10417	40.79312	-73.96595	2	-0.178085535
## 10418	40.80729	-73.94763	1	-0.354446614
## 10420	40.72420	-73.98209	2	0.527358782
## 10422	40.76441	-73.99437	2	-0.354446614
## 10423	40.80746	-73.94001	1	-0.907044662
## 10425	40.71884	-73.99076	3	-1.189222389
## 10427	40.74846	-73.97580	1	-1.059890931
## 10428	40.75625	-73.99336	2	0.903595751
## 10430	40.71595	-73.99329	1	-0.730683583
## 10432	40.86822	-73.92048	2	-0.354446614
## 10433	40.79155	-73.97315	2	0.586145808
## 10435	40.76168	-73.99144	2	0.350997703
## 10437	40.74619	-74.00559	2	0.221666245
## 10438	40.84917	-73.94048	1	-0.707168773
## 10440	40.75775	-73.96132	2	2.584904706

## 10442	40.70864	-74.01276	2	1.115229046
## 10443	40.71909	-73.98650	1	-1.059890931
## 10445	40.75800	-73.97906	2	1.409164178
## 10447	40.82499	-73.94488	2	0.233423650
## 10448	40.70546	-74.01465	2	1.703099310
## 10450	40.80563	-73.96362	2	-0.001724456
## 10452	40.73160	-74.00262	2	1.738371526
## 10453	40.74216	-73.99887	2	1.703099310
## 10455	40.72582	-73.98860	2	0.233423650
## 10457	40.71769	-73.99854	2	1.244560504
## 10458	40.76984	-73.98225	2	0.821293914
## 10460	40.82469	-73.95032	1	-0.354446614
## 10462	40.82566	-73.94438	1	-0.824742825
## 10463	40.72486	-74.00318	2	1.409164178
## 10465	40.82216	-73.94460	2	-0.342689209
## 10467	40.73355	-73.98900	1	0.821293914
## 10468	40.79351	-73.96980	3	-0.707168773
## 10470	40.73643	-73.98724	2	1.115229046
## 10472	40.72507	-73.97667	1	-0.260387372
## 10473	40.76940	-73.98736	2	1.761886337
## 10475	40.81937	-73.95763	1	-1.059890931
## 10477	40.74814	-73.98956	2	1.761886337
## 10478	40.71299	-74.00972	1	0.350997703
## 10480	40.76990	-73.95692	2	-0.060511482
## 10482	40.77541	-73.95083	2	-0.377961425
## 10483	40.78827	-73.94629	1	-0.025239266
## 10485	40.82794	-73.94194	2	-0.472020667
## 10487	40.76767	-73.95580	2	-0.236872561
## 10488	40.75594	-73.98259	1	0.292210676
## 10490	40.79367	-73.97073	1	0.233423650
## 10492	40.72767	-73.98856	2	-0.366204019
## 10493	40.72706	-73.98451	1	-0.119298508
## 10495	40.82473	-73.94778	1	-0.765955799
## 10497	40.71522	-73.99355	1	-0.472020667
## 10498	40.80063	-73.95389	1	-0.918802068
## 10500	40.78184	-73.98382	2	2.173395521
## 10502	40.86702	-73.92519	2	-0.236872561
## 10503	40.76715	-73.95857	2	-0.142813319
## 10505	40.82669	-73.94827	2	-0.413233640
## 10507	40.777861	-73.95015	2	1.844188174
## 10508	40.71950	-73.98519	1	-0.354446614
## 10510	40.73000	-74.00122	2	0.774264293
## 10512	40.80176	-73.96638	1	-0.707168773
## 10513	40.80995	-73.94485	2	-0.330931804
## 10515	40.72254	-73.99543	1	-0.178085535
## 10517	40.82953	-73.94283	2	-0.683653962
## 10518	40.74319	-73.99636	1	-0.472020667
## 10520	40.77713	-73.95277	1	-0.648381746
## 10522	40.76373	-73.98810	2	1.115229046
## 10523	40.82319	-73.95103	2	-0.095783698
## 10525	40.777870	-73.94775	2	-0.119298508
## 10527	40.76383	-73.99251	2	0.527358782
## 10528	40.83009	-73.94723	1	-0.624866936
## 10530	40.84491	-73.94044	1	-0.942316878

## 10532	40.82399	-73.94382	1	-0.989346499
## 10533	40.79234	-73.94145	2	-0.119298508
## 10535	40.82707	-73.94763	2	3.172774970
## 10537	40.74808	-73.98172	2	0.821293914
## 10538	40.72715	-73.98623	1	-0.119298508
## 10540	40.80908	-73.95858	2	0.233423650
## 10542	40.77949	-73.98000	2	0.621418024
## 10543	40.74195	-74.00052	2	0.115849597
## 10545	40.82287	-73.94509	2	-0.060511482
## 10547	40.80079	-73.95798	2	0.057062571
## 10548	40.73143	-74.00817	2	1.409164178
## 10550	40.72681	-73.99346	2	2.608419517
## 10552	40.76283	-73.98970	1	-0.507292883
## 10553	40.77650	-73.97914	2	1.174016072
## 10555	40.75075	-73.97520	2	1.738371526
## 10557	40.73160	-74.00212	2	0.938867967
## 10558	40.82798	-73.95202	2	0.586145808
## 10560	40.84191	-73.93560	1	-0.824742825
## 10562	40.71418	-73.99238	1	-0.472020667
## 10563	40.71863	-74.01170	2	1.056442020
## 10565	40.78179	-73.95209	2	-0.119298508
## 10567	40.72195	-73.98861	3	-0.883529852
## 10568	40.73697	-74.00223	2	0.256938461
## 10570	40.75544	-73.99406	2	-0.354446614
## 10572	40.71913	-73.99680	3	0.409784729
## 10573	40.70725	-74.01741	2	3.055200917
## 10575	40.71391	-73.98938	1	-0.812985420
## 10577	40.73996	-73.99987	2	0.821293914
## 10578	40.76873	-73.95328	2	0.586145808
## 10580	40.75542	-73.96781	2	0.644932835
## 10582	40.72178	-73.99509	2	0.468571756
## 10583	40.82361	-73.93886	2	0.233423650
## 10585	40.76119	-73.94914	2	-0.707168773
## 10587	40.79031	-73.94688	1	-0.201600345
## 10588	40.76178	-73.94889	1	-0.530807693
## 10590	40.72706	-73.98583	1	-0.354446614
## 10592	40.74063	-73.98205	2	2.290969574
## 10593	40.81237	-73.95985	1	-0.589594720
## 10595	40.80979	-73.94289	1	0.821293914
## 10597	40.77412	-73.95695	2	0.797779103
## 10598	40.82419	-73.94639	1	-0.942316878
## 10600	40.80723	-73.96222	1	-0.942316878
## 10602	40.83366	-73.94302	1	-0.824742825
## 10603	40.72884	-73.98517	2	-0.060511482
## 10605	40.80112	-73.95232	1	-0.718926178
## 10607	40.71992	-73.99251	2	1.997034442
## 10608	40.81783	-73.95346	1	-0.883529852
## 10610	40.72036	-73.97889	1	-0.942316878
## 10612	40.74170	-74.00229	1	-0.354446614
## 10613	40.78119	-73.94620	1	-0.918802068
## 10615	40.72910	-73.99246	2	0.715477267
## 10617	40.72489	-73.98956	2	1.409164178
## 10618	40.84118	-73.93697	1	-0.707168773
## 10620	40.71195	-74.00757	2	0.821293914

## 10622	40.74012	-74.00364	2	0.703719861
## 10623	40.74760	-73.99348	1	-0.001724456
## 10625	40.80369	-73.94857	2	0.574388403
## 10627	40.72034	-73.98617	2	0.115849597
## 10628	40.79179	-73.94506	1	-0.483778072
## 10630	40.79503	-73.96715	1	-0.413233640
## 10632	40.75548	-73.99510	1	-0.354446614
## 10633	40.81010	-73.94021	1	-0.495535477
## 10635	40.80138	-73.94413	2	-0.036996671
## 10637	40.76064	-73.97066	2	2.878839838
## 10638	40.74830	-74.00031	2	0.057062571
## 10640	40.74843	-73.97715	2	0.527358782
## 10642	40.79749	-73.93336	1	0.115849597
## 10643	40.71109	-73.99616	2	0.174636624
## 10645	40.80964	-73.94321	2	-0.330931804
## 10647	40.73392	-74.00354	2	0.233423650
## 10648	40.777940	-73.95427	2	-0.131055914
## 10650	40.76037	-73.98747	2	0.021790355
## 10652	40.74857	-73.97722	2	0.233423650
## 10653	40.77009	-73.94270	2	1.409164178
## 10655	40.86740	-73.92411	2	-0.366204019
## 10657	40.72439	-74.00481	1	-0.319174398
## 10658	40.72380	-74.00665	1	-0.060511482
## 10660	40.77594	-73.94461	1	-0.354446614
## 10662	40.81611	-73.94419	1	-1.106920552
## 10663	40.76298	-73.99438	1	-0.366204019
## 10665	40.73299	-73.99812	1	0.057062571
## 10667	40.76811	-73.95194	2	0.233423650
## 10668	40.74944	-73.99774	1	-0.954074283
## 10670	40.77890	-73.98527	2	1.409164178
## 10672	40.74072	-73.98133	1	-0.354446614
## 10673	40.77727	-73.98127	2	1.409164178
## 10675	40.77854	-73.94984	2	1.585525257
## 10677	40.82716	-73.93953	1	-0.530807693
## 10678	40.86880	-73.92256	2	0.233423650
## 10680	40.83587	-73.93734	1	-1.200979794
## 10682	40.82582	-73.94876	1	-0.765955799
## 10683	40.72216	-73.98043	1	-0.683653962
## 10685	40.79884	-73.95962	2	1.174016072
## 10687	40.73020	-74.00080	2	0.586145808
## 10688	40.78116	-73.98672	2	1.997034442
## 10690	40.72805	-73.99146	2	0.104092192
## 10692	40.78196	-73.97764	1	-0.895287257
## 10693	40.81880	-73.94505	1	-1.083405742
## 10695	40.76615	-73.98829	1	-0.366204019
## 10697	40.72588	-74.00286	2	1.115229046
## 10698	40.78603	-73.95015	1	0.409784729
## 10700	40.74731	-73.98167	2	2.584904706
## 10702	40.77969	-73.98747	2	0.821293914
## 10703	40.74008	-73.97936	2	-0.236872561
## 10705	40.80183	-73.94358	2	-0.001724456
## 10707	40.76959	-73.95338	1	-0.648381746
## 10708	40.80168	-73.94399	2	0.539116187
## 10710	40.75829	-73.95295	1	-0.589594720

## 10712	40.74724	-73.98924	2	3.172774970
## 10713	40.71633	-73.98970	2	-0.354446614
## 10715	40.77608	-73.94364	2	1.056442020
## 10717	40.73384	-73.99616	2	4.336758093
## 10718	40.81355	-73.93648	1	-0.824742825
## 10720	40.75171	-73.98642	1	-0.013481861
## 10722	40.72294	-73.99526	2	1.409164178
## 10723	40.73075	-73.98636	1	-0.589594720
## 10725	40.71391	-73.99162	1	-0.824742825
## 10727	40.79995	-73.94121	1	-0.942316878
## 10728	40.74956	-73.97714	2	0.527358782
## 10730	40.72714	-73.98279	1	-0.707168773
## 10732	40.76620	-73.95740	2	-0.354446614
## 10733	40.76236	-73.99827	2	0.527358782
## 10735	40.73545	-74.00529	2	0.233423650
## 10737	40.78413	-73.97779	1	-0.424991046
## 10738	40.76812	-73.95403	1	-0.601352125
## 10740	40.73541	-74.00331	2	0.703719861
## 10742	40.71043	-73.98174	1	0.315725487
## 10743	40.73561	-74.00510	2	-0.119298508
## 10745	40.72349	-73.98491	2	0.233423650
## 10747	40.78668	-73.94247	1	-0.530807693
## 10748	40.81232	-73.94112	1	-1.001103905
## 10750	40.79572	-73.94810	1	0.409784729
## 10752	40.71253	-73.99586	1	-0.942316878
## 10753	40.78324	-73.94871	1	-0.472020667
## 10755	40.78185	-73.94740	2	0.233423650
## 10757	40.74118	-73.99900	2	0.292210676
## 10758	40.82077	-73.94568	1	-0.648381746
## 10760	40.78526	-73.97633	1	0.527358782
## 10762	40.76591	-73.98717	1	-0.236872561
## 10763	40.75554	-73.99329	2	0.821293914
## 10765	40.81974	-73.94457	1	-0.119298508
## 10767	40.78823	-73.97499	2	-0.166328130
## 10768	40.85065	-73.93356	2	0.997654993
## 10770	40.74136	-73.98146	1	-0.883529852
## 10772	40.76232	-73.99285	1	-0.236872561
## 10773	40.71219	-73.99785	2	-0.330931804
## 10775	40.82512	-73.95054	1	-0.718926178
## 10777	40.79222	-73.94607	1	-0.060511482
## 10778	40.78723	-73.94863	2	-0.648381746
## 10780	40.85029	-73.93602	1	-1.036376120
## 10782	40.74175	-73.99104	2	2.584904706
## 10783	40.76479	-73.98842	1	-0.295659588
## 10785	40.71346	-73.99158	2	0.586145808
## 10787	40.81143	-73.94935	2	-0.354446614
## 10788	40.80832	-73.95275	1	-0.178085535
## 10790	40.72807	-73.98801	2	0.821293914
## 10792	40.72497	-73.98208	2	1.056442020
## 10793	40.71799	-73.98657	2	0.092334787
## 10795	40.81661	-73.93471	2	0.233423650
## 10797	40.76692	-73.96400	2	3.172774970
## 10798	40.80416	-73.95704	2	-0.330931804
## 10800	40.76651	-73.95155	2	0.174636624

## 10802	40.86801	-73.92372	2	-0.765955799
## 10803	40.80109	-73.93975	1	-0.824742825
## 10805	40.79368	-73.94132	1	-0.354446614
## 10807	40.72716	-73.98524	2	-0.354446614
## 10808	40.73598	-74.00505	2	0.115849597
## 10810	40.81113	-73.94113	2	0.233423650
## 10812	40.79930	-73.94164	1	-0.824742825
## 10813	40.81513	-73.95685	1	-0.930559473
## 10815	40.79626	-73.94429	1	-0.742440988
## 10817	40.76864	-73.95427	2	0.527358782
## 10818	40.86620	-73.92646	1	-0.824742825
## 10820	40.76302	-73.96725	2	0.821293914
## 10822	40.84482	-73.93739	1	-0.707168773
## 10823	40.71359	-74.00538	1	1.997034442
## 10825	40.82559	-73.94501	2	1.409164178
## 10827	40.72890	-74.00059	1	-0.707168773
## 10828	40.79874	-73.95990	1	-0.742440988
## 10830	40.78273	-73.95048	1	-0.989346499
## 10832	40.78443	-73.98256	2	0.057062571
## 10833	40.82747	-73.94224	1	-1.001103905
## 10835	40.71609	-73.99204	2	0.797779103
## 10837	40.77275	-73.94917	1	-0.707168773
## 10838	40.77052	-73.95485	2	0.233423650
## 10840	40.83499	-73.94528	1	-0.836500231
## 10842	40.81140	-73.95237	1	-0.942316878
## 10843	40.73213	-73.98944	2	0.821293914
## 10845	40.72276	-73.98860	2	-0.424991046
## 10847	40.75315	-73.97175	2	-0.354446614
## 10848	40.73881	-73.99741	2	0.821293914
## 10850	40.77428	-73.95523	2	0.174636624
## 10852	40.72759	-73.98466	2	0.233423650
## 10853	40.76301	-73.95719	2	-0.084026293
## 10855	40.72838	-73.97943	2	2.055821469
## 10857	40.72759	-73.98496	2	0.539116187
## 10858	40.76775	-73.95371	1	0.668447645
## 10860	40.73232	-73.98418	2	0.527358782
## 10862	40.86437	-73.92347	1	-0.765955799
## 10863	40.72361	-73.99467	2	1.997034442
## 10865	40.81553	-73.94672	1	0.057062571
## 10867	40.79652	-73.93323	1	-0.119298508
## 10868	40.74927	-74.00691	2	0.821293914
## 10870	40.79973	-73.96152	2	1.997034442
## 10872	40.83520	-73.94045	1	-0.942316878
## 10873	40.74073	-73.97910	2	1.162258667
## 10875	40.84102	-73.93822	2	-0.589594720
## 10877	40.72304	-73.98089	1	-0.060511482
## 10878	40.82169	-73.94077	1	-0.718926178
## 10880	40.82931	-73.94801	1	-0.942316878
## 10882	40.75832	-73.99179	1	-0.013481861
## 10883	40.76015	-73.99017	1	-0.013481861
## 10885	40.77418	-73.98799	2	0.703719861
## 10887	40.82649	-73.94623	1	-0.824742825
## 10888	40.77509	-73.98159	2	0.668447645
## 10890	40.71833	-73.99080	1	-0.718926178

## 10892	40.77141	-73.98862	3	-0.942316878
## 10893	40.73022	-73.98623	2	-0.060511482
## 10895	40.81707	-73.93490	2	-0.119298508
## 10897	40.70498	-74.01063	1	-0.883529852
## 10898	40.83286	-73.94135	2	-0.354446614
## 10900	40.81379	-73.94671	2	-0.119298508
## 10902	40.73673	-74.00836	2	0.233423650
## 10903	40.81566	-73.93914	1	-0.942316878
## 10905	40.77108	-73.94850	2	-0.178085535
## 10907	40.71770	-73.98245	1	-0.624866936
## 10908	40.79403	-73.96314	1	-0.530807693
## 10910	40.84450	-73.94040	1	-0.366204019
## 10912	40.78220	-73.95101	1	-0.883529852
## 10913	40.81033	-73.93874	2	0.821293914
## 10915	40.77396	-73.98782	2	1.115229046
## 10917	40.77476	-73.98947	2	2.232182548
## 10918	40.84851	-73.93207	2	-0.824742825
## 10920	40.71366	-73.99153	2	2.232182548
## 10922	40.75856	-73.99057	2	0.539116187
## 10923	40.81745	-73.94203	1	-0.354446614
## 10925	40.80013	-73.95998	2	0.233423650
## 10927	40.72688	-73.98546	2	0.350997703
## 10928	40.72592	-73.98862	2	0.527358782
## 10930	40.72574	-73.98498	2	0.727234672
## 10932	40.71136	-73.99391	1	-0.236872561
## 10933	40.81671	-73.94013	1	-0.589594720
## 10935	40.72177	-73.99675	2	0.821293914
## 10937	40.75930	-73.95967	1	1.362134557
## 10938	40.74838	-73.97695	2	0.233423650
## 10940	40.76394	-73.97825	2	2.584904706
## 10942	40.74948	-73.97685	2	0.233423650
## 10943	40.78230	-73.94736	2	1.044684614
## 10945	40.72160	-73.99721	2	2.584904706
## 10947	40.76245	-73.99235	2	0.350997703
## 10948	40.79982	-73.96411	1	-0.483778072
## 10950	40.76309	-73.99214	2	-0.001724456
## 10952	40.82788	-73.94835	3	-0.765955799
## 10953	40.80472	-73.94077	1	-0.883529852
## 10955	40.76122	-73.99129	1	-0.225115156
## 10957	40.78170	-73.94731	1	-0.354446614
## 10958	40.73502	-73.98612	2	1.761886337
## 10960	40.82329	-73.95184	1	-0.236872561
## 10962	40.84218	-73.93676	1	-0.883529852
## 10963	40.74286	-74.00100	1	-0.236872561
## 10965	40.73470	-73.98665	2	-0.060511482
## 10967	40.72337	-73.99057	2	3.748887829
## 10968	40.73275	-74.00600	2	2.584904706
## 10970	40.85263	-73.93520	1	-0.589594720
## 10972	40.72697	-73.98509	2	1.279832720
## 10973	40.80266	-73.93904	1	-1.012861310
## 10975	40.80257	-73.93987	1	-0.989346499
## 10977	40.73000	-73.99253	2	0.080577381
## 10978	40.72480	-73.98774	2	0.233423650
## 10980	40.80895	-73.95266	1	-1.001103905

## 10982	40.85801	-73.93113	1	-1.142192768
## 10983	40.82952	-73.95064	1	-0.648381746
## 10985	40.80305	-73.94030	1	-0.930559473
## 10987	40.80263	-73.96458	1	-0.366204019
## 10988	40.74564	-73.97593	2	-0.119298508
## 10990	40.86372	-73.92789	1	-0.707168773
## 10992	40.82755	-73.94500	2	-0.589594720
## 10993	40.82278	-73.94199	2	1.409164178
## 10995	40.75685	-73.96388	2	0.938867967
## 10997	40.80770	-73.94345	2	-0.001724456
## 10998	40.73726	-73.99280	2	1.174016072
## 11000	40.72324	-73.98255	2	1.703099310
## 11002	40.75734	-73.96429	1	-0.566079909
## 11003	40.81254	-73.94204	1	-0.883529852
## 11005	40.73310	-74.01022	1	-0.260387372
## 11007	40.73848	-74.00503	2	1.409164178
## 11008	40.78561	-73.97637	2	1.985277037
## 11010	40.78284	-73.97203	2	0.527358782
## 11012	40.72962	-73.98449	1	0.233423650
## 11013	40.76494	-73.98467	1	0.350997703
## 11015	40.74742	-73.97750	2	0.809536509
## 11017	40.71910	-73.98431	2	0.115849597
## 11018	40.77699	-73.95240	2	1.585525257
## 11020	40.78860	-73.97088	2	-0.566079909
## 11022	40.72982	-73.98178	2	0.350997703
## 11023	40.78958	-73.93792	1	-0.530807693
## 11025	40.75347	-73.98567	2	0.574388403
## 11027	40.76470	-73.99391	2	0.821293914
## 11028	40.73409	-73.98703	2	-0.060511482
## 11030	40.71479	-73.99971	1	-0.495535477
## 11032	40.82624	-73.93925	1	-0.354446614
## 11033	40.77042	-73.94918	2	-0.095783698
## 11035	40.71375	-73.98988	1	-0.648381746
## 11037	40.73734	-73.98565	2	-0.366204019
## 11038	40.78182	-73.97915	1	-0.119298508
## 11040	40.73241	-73.98783	2	-0.119298508
## 11042	40.85213	-73.93360	2	-0.119298508
## 11043	40.77548	-73.98965	2	0.703719861
## 11045	40.72717	-73.98064	1	-0.366204019
## 11047	40.77104	-73.98522	2	0.703719861
## 11048	40.80524	-73.95254	1	-0.366204019
## 11050	40.74482	-73.97827	1	-0.718926178
## 11052	40.74353	-73.98364	2	2.385028816
## 11053	40.76242	-73.99482	2	0.057062571
## 11055	40.72427	-73.99387	2	0.821293914
## 11057	40.75340	-73.97186	2	0.809536509
## 11058	40.81078	-73.94482	1	-0.789470609
## 11060	40.72013	-73.99220	2	0.057062571
## 11062	40.77841	-73.97968	2	0.527358782
## 11063	40.81200	-73.94189	2	-0.589594720
## 11065	40.75747	-73.99039	1	0.515601377
## 11067	40.73686	-73.99349	2	0.527358782
## 11068	40.81574	-73.95261	2	-0.001724456
## 11070	40.80942	-73.95246	2	-0.001724456

## 11072	40.77987	-73.94804	2	0.586145808
## 11073	40.76149	-73.97536	2	0.821293914
## 11075	40.78612	-73.95359	1	-0.295659588
## 11077	40.78757	-73.95089	1	0.644932835
## 11078	40.75155	-73.97356	1	2.690721354
## 11080	40.77692	-73.98111	2	0.891838346
## 11082	40.74947	-73.97610	2	0.527358782
## 11083	40.73895	-73.99970	2	0.468571756
## 11085	40.80445	-73.96649	2	-0.119298508
## 11087	40.84532	-73.93814	1	-0.730683583
## 11088	40.73552	-74.00554	2	1.997034442
## 11090	40.72982	-74.00034	2	0.527358782
## 11092	40.77751	-73.95198	2	-0.013481861
## 11093	40.79873	-73.93263	2	0.809536509
## 11095	40.78078	-73.95301	2	-0.048754077
## 11097	40.77621	-73.98054	1	0.115849597
## 11098	40.74648	-73.99286	1	-1.059890931
## 11100	40.76326	-73.95967	2	0.221666245
## 11102	40.71332	-74.00643	2	1.997034442
## 11103	40.77667	-73.95335	1	-0.119298508
## 11105	40.70676	-74.00612	2	0.821293914
## 11107	40.73574	-74.00121	2	1.879460389
## 11108	40.76551	-73.98730	2	1.997034442
## 11110	40.76152	-73.99388	2	-0.001724456
## 11112	40.83082	-73.94677	1	-0.824742825
## 11113	40.76163	-73.99335	2	-0.001724456
## 11115	40.71340	-73.99069	2	0.233423650
## 11117	40.71261	-73.99609	1	-0.589594720
## 11118	40.72206	-73.99497	2	2.584904706
## 11120	40.73103	-74.00319	2	2.290969574
## 11122	40.80196	-73.93627	1	-0.413233640
## 11123	40.72268	-73.98930	1	-0.178085535
## 11125	40.71035	-74.01722	1	-0.472020667
## 11127	40.74819	-73.97201	2	0.821293914
## 11128	40.75879	-73.98155	2	0.644932835
## 11130	40.70912	-74.00721	2	0.586145808
## 11132	40.74075	-73.98162	1	-0.236872561
## 11133	40.81545	-73.94613	1	-0.824742825
## 11135	40.81748	-73.94484	2	0.233423650
## 11137	40.79730	-73.96180	1	-0.883529852
## 11138	40.73891	-73.98295	1	0.104092192
## 11140	40.76181	-73.98865	1	-0.236872561
## 11142	40.81012	-73.95825	1	-0.883529852
## 11143	40.84684	-73.93252	1	-0.883529852
## 11145	40.80419	-73.94792	3	-0.765955799
## 11147	40.78828	-73.94385	1	-0.566079909
## 11148	40.72982	-73.98371	1	-0.871772446
## 11150	40.80041	-73.95401	1	-0.707168773
## 11152	40.73972	-73.97839	1	-0.848257636
## 11153	40.81876	-73.93974	1	-0.589594720
## 11155	40.75599	-73.96769	2	0.962382777
## 11157	40.82160	-73.93679	1	-0.519050288
## 11158	40.76122	-73.98583	1	0.068819976
## 11160	40.73594	-73.97947	2	0.468571756

## 11162	40.72178	-73.98645	1	-0.589594720
## 11163	40.74330	-73.97919	2	-0.013481861
## 11165	40.82094	-73.95366	1	-0.954074283
## 11167	40.81677	-73.93927	2	0.644932835
## 11168	40.72311	-73.98161	2	0.515601377
## 11170	40.78890	-73.94820	1	-0.671896557
## 11172	40.77600	-73.98815	2	1.997034442
## 11173	40.73496	-73.98723	1	0.233423650
## 11175	40.74042	-73.97822	1	-0.601352125
## 11177	40.72208	-73.97779	2	0.644932835
## 11178	40.77265	-73.94833	2	-0.178085535
## 11180	40.74418	-73.99990	2	0.374512513
## 11182	40.79574	-73.96312	1	-0.812985420
## 11183	40.73894	-73.98651	2	2.467330653
## 11185	40.72443	-74.00141	1	-0.589594720
## 11187	40.78304	-73.97309	2	1.409164178
## 11188	40.72698	-73.98948	2	0.597903214
## 11190	40.70511	-74.00828	1	-0.178085535
## 11192	40.79532	-73.96344	2	-0.001724456
## 11193	40.73334	-73.99416	2	0.821293914
## 11195	40.80666	-73.95703	1	-0.472020667
## 11197	40.73325	-73.99971	2	2.584904706
## 11198	40.78269	-73.95288	2	-0.036996671
## 11200	40.80194	-73.95602	2	-0.060511482
## 11202	40.76093	-73.99103	1	-0.119298508
## 11203	40.71050	-74.00641	1	-0.413233640
## 11205	40.82550	-73.94119	1	-0.942316878
## 11207	40.74600	-73.97770	1	1.409164178
## 11208	40.81065	-73.94570	1	-0.060511482
## 11210	40.79099	-73.94500	2	3.172774970
## 11212	40.79738	-73.96332	1	-0.624866936
## 11213	40.76538	-73.98711	1	-0.366204019
## 11215	40.71856	-73.98753	1	-0.718926178
## 11217	40.84545	-73.94172	1	-0.942316878
## 11218	40.82325	-73.95122	1	-0.648381746
## 11220	40.70744	-74.01521	2	0.350997703
## 11222	40.73969	-73.98962	2	4.289728472
## 11223	40.75751	-73.96464	2	1.209288288
## 11225	40.71898	-73.98472	1	0.033547760
## 11227	40.73514	-74.00647	2	0.703719861
## 11228	40.72104	-73.97991	1	-0.613109530
## 11230	40.75172	-73.97212	1	0.797779103
## 11232	40.73055	-73.98928	2	1.526738231
## 11233	40.74983	-73.98646	1	-0.707168773
## 11235	40.72727	-73.98801	1	-0.413233640
## 11237	40.80389	-73.96541	1	-0.942316878
## 11238	40.81916	-73.94562	1	-0.942316878
## 11240	40.79674	-73.94674	2	2.290969574
## 11242	40.76638	-73.99079	2	0.445056945
## 11243	40.74635	-73.98103	2	1.409164178
## 11245	40.75287	-73.97352	1	3.748887829
## 11247	40.80731	-73.96579	1	-0.883529852
## 11248	40.79200	-73.94522	1	-0.601352125
## 11250	40.71015	-74.01281	2	1.703099310

## 11252	40.74820	-73.97525	2	0.233423650
## 11253	40.71902	-73.99027	2	1.997034442
## 11255	40.78998	-73.94600	2	-0.119298508
## 11257	40.72547	-73.98315	2	0.233423650
## 11258	40.74847	-74.00033	2	0.280453271
## 11260	40.77230	-73.98222	2	0.821293914
## 11262	40.72153	-73.98765	2	0.233423650
## 11263	40.76121	-73.99053	1	0.115849597
## 11265	40.72103	-73.98434	1	0.680205051
## 11267	40.72788	-73.99390	2	0.586145808
## 11268	40.74838	-73.97544	2	0.656690240
## 11270	40.80924	-73.93873	2	0.492086566
## 11272	40.71618	-73.99225	2	0.174636624
## 11273	40.79273	-73.97592	2	-0.354446614
## 11275	40.73280	-73.99899	2	0.527358782
## 11277	40.85927	-73.92966	1	0.821293914
## 11278	40.70740	-74.00151	2	0.880080940
## 11280	40.72321	-73.98327	1	1.409164178
## 11282	40.72132	-73.98068	1	-0.554322504
## 11283	40.82736	-73.95292	1	-0.765955799
## 11285	40.74330	-73.98070	2	-0.119298508
## 11287	40.77205	-73.95128	2	1.115229046
## 11288	40.75328	-73.97193	1	3.043443512
## 11290	40.78696	-73.97293	3	-0.060511482
## 11292	40.72008	-73.98786	2	0.104092192
## 11293	40.77068	-73.98674	2	1.162258667
## 11295	40.84877	-73.93821	2	-0.765955799
## 11297	40.74590	-73.99867	1	0.409784729
## 11298	40.72945	-73.98203	1	-0.648381746
## 11300	40.75035	-73.97907	3	-0.954074283
## 11302	40.76154	-73.99306	2	4.336758093
## 11303	40.71798	-73.98418	2	1.703099310
## 11305	40.78875	-73.96790	1	0.233423650
## 11307	40.73963	-73.98166	2	0.586145808
## 11308	40.71405	-73.99291	1	-0.119298508
## 11310	40.79982	-73.96058	2	0.057062571
## 11312	40.76460	-73.98981	2	1.879460389
## 11313	40.78602	-73.94977	1	-0.354446614
## 11315	40.75310	-73.97085	1	-0.178085535
## 11317	40.85186	-73.93050	1	-1.095163147
## 11318	40.86306	-73.92896	2	0.527358782
## 11320	40.78019	-73.95857	2	1.115229046
## 11322	40.73638	-73.98089	2	1.279832720
## 11323	40.79633	-73.94819	2	-0.307416993
## 11325	40.70866	-74.01385	2	0.562630998
## 11327	40.72405	-73.97747	2	0.233423650
## 11328	40.72930	-73.98283	1	-0.354446614
## 11330	40.71946	-73.99761	2	0.468571756
## 11332	40.75052	-73.97259	2	2.584904706
## 11333	40.76128	-73.96236	2	-0.472020667
## 11335	40.72792	-73.98288	1	-0.236872561
## 11337	40.73632	-74.00601	2	0.327482892
## 11338	40.78965	-73.96993	2	-0.413233640
## 11340	40.80171	-73.95122	1	-0.883529852

## 11342	40.77237	-73.95275	1	-0.413233640
## 11343	40.73804	-73.98178	2	0.527358782
## 11345	40.83902	-73.93766	2	-0.942316878
## 11347	40.77832	-73.95657	2	0.033547760
## 11348	40.74160	-74.00082	1	-0.648381746
## 11350	40.71611	-73.99405	1	-0.589594720
## 11352	40.81394	-73.95334	1	-0.718926178
## 11353	40.84492	-73.93891	2	-0.295659588
## 11355	40.79383	-73.94968	1	-0.530807693
## 11357	40.72372	-73.99318	2	1.409164178
## 11358	40.86080	-73.92810	2	-0.507292883
## 11360	40.80227	-73.95790	1	-0.472020667
## 11362	40.86339	-73.92045	1	-0.824742825
## 11363	40.77998	-73.98218	3	-0.801228015
## 11365	40.75161	-73.97017	2	0.527358782
## 11367	40.75145	-73.97011	2	0.527358782
## 11368	40.75180	-73.97074	2	1.056442020
## 11370	40.74978	-73.96977	2	0.527358782
## 11372	40.72894	-74.00018	2	0.515601377
## 11373	40.72475	-73.97788	2	1.526738231
## 11375	40.76401	-73.95929	2	0.950625372
## 11377	40.71515	-73.99863	2	0.174636624
## 11378	40.80044	-73.95139	1	-0.942316878
## 11380	40.72653	-73.98539	2	-0.366204019
## 11382	40.80605	-73.94889	2	0.233423650
## 11383	40.76141	-73.96265	2	-0.060511482
## 11385	40.81404	-73.95233	1	-0.718926178
## 11387	40.85148	-73.93010	2	0.527358782
## 11388	40.81717	-73.93856	1	-0.354446614
## 11390	40.72630	-73.98432	1	-0.119298508
## 11392	40.87618	-73.91266	1	-0.436748451
## 11393	40.79711	-73.93255	1	-0.495535477
## 11395	40.82040	-73.93867	1	-0.942316878
## 11397	40.81968	-73.95831	1	-0.707168773
## 11398	40.75341	-73.98504	2	3.431437887
## 11400	40.81561	-73.95393	1	-0.765955799
## 11402	40.84566	-73.93998	2	-0.648381746
## 11403	40.80099	-73.95105	2	0.821293914
## 11405	40.83636	-73.94487	1	-0.765955799
## 11407	40.78098	-73.95854	2	1.115229046
## 11408	40.78015	-73.95852	2	1.115229046
## 11410	40.80344	-73.95513	2	0.621418024
## 11412	40.74039	-74.00029	1	-0.483778072
## 11413	40.81867	-73.95293	1	-0.883529852
## 11415	40.79398	-73.94159	2	1.997034442
## 11417	40.77123	-73.95041	2	1.326862341
## 11418	40.73105	-73.98195	2	0.233423650
## 11420	40.80671	-73.95382	1	-0.907044662
## 11422	40.76114	-73.97596	2	2.584904706
## 11423	40.73145	-74.00184	1	-0.189842940
## 11425	40.71364	-73.99153	1	-0.942316878
## 11427	40.78539	-73.95056	2	0.233423650
## 11428	40.78717	-73.96806	2	0.233423650
## 11430	40.72737	-73.98815	1	0.115849597

## 11432	40.74844	-73.97694	2	2.784780596
## 11433	40.77426	-73.94893	2	-0.589594720
## 11435	40.72411	-73.97826	1	0.233423650
## 11437	40.74690	-73.99494	2	0.821293914
## 11438	40.76117	-73.96104	2	0.233423650
## 11440	40.75288	-73.97703	2	0.927110562
## 11442	40.76495	-73.98530	1	0.350997703
## 11443	40.74870	-73.97479	3	-0.119298508
## 11445	40.76536	-73.98878	2	1.115229046
## 11447	40.79499	-73.97669	1	-0.648381746
## 11448	40.81953	-73.95665	2	-0.178085535
## 11450	40.81301	-73.94502	2	-0.060511482
## 11452	40.71881	-73.98378	2	0.797779103
## 11453	40.82920	-73.94742	1	2.584904706
## 11455	40.80672	-73.94648	2	0.821293914
## 11457	40.73166	-73.98299	1	-0.507292883
## 11458	40.74943	-73.97945	2	0.938867967
## 11460	40.76104	-73.99255	2	1.526738231
## 11462	40.76050	-73.99189	2	-0.013481861
## 11463	40.78747	-73.96928	2	2.349756601
## 11465	40.83571	-73.94756	1	-0.613109530
## 11467	40.84434	-73.94229	2	-0.319174398
## 11468	40.77751	-73.95575	1	-0.765955799
## 11470	40.71818	-73.99015	1	-0.119298508
## 11472	40.74578	-73.97595	2	3.584284155
## 11473	40.74063	-73.99998	1	-0.354446614
## 11475	40.76888	-73.98639	1	0.045305165
## 11477	40.76798	-73.95274	2	0.209908839
## 11478	40.81400	-73.96228	2	0.233423650
## 11480	40.72793	-73.98876	1	-0.530807693
## 11482	40.77406	-73.94788	2	-0.236872561
## 11483	40.75974	-73.98623	1	-0.236872561
## 11485	40.72234	-73.99625	1	-0.236872561
## 11487	40.74395	-73.98049	2	0.762506888
## 11488	40.74818	-73.98025	2	0.762506888
## 11490	40.74880	-73.97844	2	1.115229046
## 11492	40.72120	-73.98045	1	-0.707168773
## 11493	40.82881	-73.94566	1	-1.059890931
## 11495	40.72169	-73.99650	2	2.290969574
## 11497	40.72236	-73.97756	2	0.821293914
## 11498	40.77867	-73.97914	1	0.057062571
## 11500	40.86039	-73.92663	2	-0.354446614
## 11502	40.73076	-74.00162	2	1.350377152
## 11503	40.72561	-73.97953	1	-0.472020667
## 11505	40.70445	-74.01521	2	0.057062571
## 11507	40.73247	-73.98297	2	0.774264293
## 11508	40.77312	-73.98819	1	-0.613109530
## 11510	40.75994	-73.99073	2	0.997654993
## 11512	40.77536	-73.98952	2	1.761886337
## 11513	40.75029	-73.97142	2	0.527358782
## 11515	40.78628	-73.97482	1	1.409164178
## 11517	40.72484	-73.97460	1	-0.354446614
## 11518	40.76735	-73.98842	1	-0.448505856
## 11520	40.84859	-73.93855	2	-0.530807693

## 11522	40.78440	-73.94850	1	-0.707168773
## 11523	40.70949	-74.00973	2	0.233423650
## 11525	40.70424	-74.01564	3	1.985277037
## 11527	40.75614	-73.96706	2	1.115229046
## 11528	40.72280	-73.99799	1	-0.366204019
## 11530	40.76192	-73.99090	2	0.586145808
## 11532	40.76007	-73.99078	2	0.350997703
## 11533	40.76583	-73.98669	1	-0.519050288
## 11535	40.80436	-73.95649	1	-0.589594720
## 11537	40.79979	-73.94104	2	-0.201600345
## 11538	40.75008	-73.97655	2	1.079956830
## 11540	40.79483	-73.93478	1	-0.472020667
## 11542	40.85117	-73.94344	1	-0.883529852
## 11543	40.74061	-73.97991	2	0.644932835
## 11545	40.80225	-73.94491	1	-0.707168773
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## 11548	40.72801	-74.00105	2	0.233423650
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## 11557	40.81631	-73.93933	2	-0.707168773
## 11558	40.74877	-73.97565	2	0.527358782
## 11560	40.73223	-74.00489	2	0.233423650
## 11562	40.78489	-73.97345	1	-0.366204019
## 11563	40.77895	-73.98332	1	0.174636624
## 11565	40.82580	-73.94405	2	-0.048754077
## 11567	40.71396	-73.99151	1	-0.413233640
## 11568	40.74083	-74.00349	2	0.762506888
## 11570	40.77538	-73.98814	2	1.997034442
## 11572	40.78631	-73.97752	2	0.809536509
## 11573	40.77660	-73.94862	2	1.703099310
## 11575	40.77576	-73.98883	2	1.879460389
## 11577	40.78729	-73.97033	1	-0.236872561
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## 11580	40.77057	-73.95759	2	0.339240298
## 11582	40.80893	-73.93982	1	-0.178085535
## 11583	40.71426	-73.98873	1	-0.530807693
## 11585	40.79221	-73.97331	2	-0.119298508
## 11587	40.77112	-73.96226	2	1.279832720
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## 11595	40.81138	-73.95442	2	0.409784729
## 11597	40.77421	-73.95544	2	0.233423650
## 11598	40.76616	-73.98441	1	-0.060511482
## 11600	40.81899	-73.94584	1	-0.707168773
## 11602	40.84334	-73.94050	2	-0.001724456
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## 11607	40.75133	-73.99671	1	-0.366204019
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## 11612 40.72982 -73.98593	2 0.115849597
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## 11623 40.81567 -73.94841	1 -0.883529852
## 11625 40.74817 -73.97665	2 1.079956830
## 11627 40.74865 -73.97530	2 0.527358782
## 11628 40.71800 -73.99666	1 -0.589594720
## 11630 40.76114 -73.96100	2 0.268695866
## 11632 40.82332 -73.94426	1 -1.001103905
## 11633 40.74337 -73.99362	1 0.221666245
## 11635 40.80475 -73.94910	2 -0.260387372
## 11637 40.72105 -73.99310	2 -0.413233640
## 11638 40.71686 -73.98458	1 -0.530807693
## 11640 40.76301 -73.94959	1 -0.530807693
## 11642 40.74560 -73.99771	2 1.409164178
## 11643 40.80305 -73.95766	1 -0.942316878
## 11645 40.73386 -73.99643	2 1.056442020
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## 11648 40.80436 -73.94865	2 -0.401476235
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## 11652 40.73818 -73.98671	2 1.409164178
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## 11655 40.77179 -73.95585	2 -0.060511482
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## 11667 40.74772 -74.00200	1 -0.236872561
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## 11673 40.80604 -73.94971	2 -0.554322504
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## 11678 40.73295 -73.99200	2 1.409164178
## 11680 40.70571 -74.01031	1 1.409164178
## 11682 40.71646 -74.01379	2 1.997034442
## 11683 40.75031 -73.97776	2 -0.354446614
## 11685 40.80421 -73.95020	1 0.350997703
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## 11688 40.73030 -73.98341	1 -0.295659588
## 11690 40.82096 -73.95310	1 -0.883529852
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## 11717	40.71339	-73.99115	2	0.680205051
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## 11722	40.76602	-73.98795	1	0.350997703
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## 11727	40.72935	-73.98056	2	0.115849597
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## 11735	40.74871	-73.97530	2	0.527358782
## 11737	40.74870	-73.97862	2	1.997034442
## 11738	40.73025	-73.99996	1	-0.307416993
## 11740	40.76152	-73.98959	1	-0.460263262
## 11742	40.70940	-74.00145	1	-0.401476235
## 11743	40.79027	-73.97241	2	0.057062571
## 11745	40.81631	-73.94203	1	1.997034442
## 11747	40.80989	-73.95490	1	0.515601377
## 11748	40.77331	-73.95328	2	0.809536509
## 11750	40.84412	-73.93968	1	-0.942316878
## 11752	40.71966	-73.99591	1	2.290969574
## 11753	40.78098	-73.94670	2	-0.413233640
## 11755	40.71954	-73.98914	2	1.409164178
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## 11760	40.78996	-73.94873	2	-0.036996671
## 11762	40.81956	-73.95277	3	-1.236252010
## 11763	40.72617	-73.99218	2	1.409164178
## 11765	40.77158	-73.98976	1	0.233423650
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## 11770	40.72436	-73.98400	2	0.997654993
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## 11773	40.72269	-73.99102	2	0.527358782
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## 11780	40.75092	-73.98409	2	2.584904706
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## 11785	40.85083	-73.93623	1	-0.930559473
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## 11788	40.77183	-73.95534	2	1.209288288
## 11790	40.77904	-73.95205	1	0.233423650

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## 11793	40.75089	-73.97060	1	0.174636624
## 11795	40.83433	-73.94304	3	-0.648381746
## 11797	40.83089	-73.94541	1	-1.106920552
## 11798	40.80111	-73.95221	2	0.503843971
## 11800	40.79109	-73.94915	1	-0.354446614
## 11802	40.81953	-73.94717	1	-0.601352125
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## 11805	40.80272	-73.96629	1	-0.013481861
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## 11808	40.76241	-73.96134	2	0.233423650
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## 11812	40.72035	-73.98542	2	1.115229046
## 11813	40.78025	-73.97585	2	0.821293914
## 11815	40.80543	-73.95739	2	0.233423650
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## 11820	40.74703	-73.98738	2	0.350997703
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## 11870	40.78737	-73.97293	2	0.174636624
## 11872	40.74128	-73.98069	2	1.703099310
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## 11875	40.79474	-73.94932	2	0.644932835
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## 11882	40.70812	-74.00447	1	-0.354446614
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## 11890	40.72552	-73.98165	1	-0.472020667
## 11892	40.81866	-73.93796	1	-0.942316878
## 11893	40.81865	-73.93684	2	-0.589594720
## 11895	40.75820	-73.97843	2	0.938867967
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## 11905	40.71136	-73.98808	3	-1.142192768
## 11907	40.78617	-73.97663	3	-0.824742825
## 11908	40.71165	-73.98708	3	-1.142192768
## 11910	40.72112	-73.98493	1	-0.589594720
## 11912	40.81296	-73.94625	2	1.585525257
## 11913	40.76371	-73.99346	2	0.821293914
## 11915	40.81272	-73.95170	2	-0.225115156
## 11917	40.71389	-73.98239	2	3.172774970
## 11918	40.78312	-73.95344	1	-0.777713204
## 11920	40.83878	-73.94731	1	-0.648381746
## 11922	40.80015	-73.95483	1	-0.942316878
## 11923	40.76959	-73.95601	2	0.703719861
## 11925	40.79907	-73.96962	2	1.115229046
## 11927	40.76291	-73.98976	1	-0.295659588
## 11928	40.777976	-73.95409	1	-0.354446614
## 11930	40.80188	-73.95695	2	-0.648381746
## 11932	40.75286	-73.99551	2	1.279832720
## 11933	40.71537	-73.99119	2	1.409164178
## 11935	40.76495	-73.98844	2	1.385649368
## 11937	40.74601	-73.97823	2	0.821293914
## 11938	40.74023	-73.99994	2	4.172154419
## 11940	40.81223	-73.93992	2	0.821293914
## 11942	40.80834	-73.94049	2	-0.483778072
## 11943	40.74394	-73.99923	1	-0.119298508
## 11945	40.76573	-73.98682	2	1.115229046
## 11947	40.78720	-73.97639	1	-0.589594720
## 11948	40.71838	-74.00495	2	2.232182548
## 11950	40.72389	-73.98346	1	0.127607002
## 11952	40.82722	-73.94570	2	-0.613109530
## 11953	40.73057	-74.00458	2	0.809536509
## 11955	40.79503	-73.93953	1	-0.789470609
## 11957	40.76226	-73.99519	2	0.527358782
## 11958	40.77268	-73.98933	1	0.057062571
## 11960	40.72639	-73.99052	1	0.233423650
## 11962	40.77566	-73.95065	2	0.409784729
## 11963	40.83233	-73.94562	1	-0.977589094
## 11965	40.83139	-73.94672	1	-0.977589094
## 11967	40.79951	-73.96436	2	0.527358782
## 11968	40.76401	-73.95823	2	0.092334787
## 11970	40.70362	-74.00721	2	0.762506888

## 11972	40.74727	-74.00261	2	0.644932835
## 11973	40.72411	-73.98872	2	-0.366204019
## 11975	40.71994	-74.00332	2	2.584904706
## 11977	40.75575	-73.99374	1	0.527358782
## 11978	40.81524	-73.95249	1	-0.942316878
## 11980	40.79670	-73.94913	1	-0.648381746
## 11982	40.76123	-73.99022	2	0.644932835
## 11983	40.80275	-73.95117	2	-0.060511482
## 11985	40.81702	-73.93882	2	-0.001724456
## 11987	40.78951	-73.94605	2	0.762506888
## 11988	40.71927	-73.99663	1	-1.001103905
## 11990	40.77842	-73.95903	2	0.233423650
## 11992	40.76615	-73.97118	2	1.056442020
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## 11997	40.83734	-73.94506	2	-0.119298508
## 11998	40.83172	-73.94880	1	-0.589594720
## 12000	40.72419	-73.98294	1	-0.413233640
## 12002	40.80486	-73.94889	2	1.115229046
## 12003	40.76521	-73.98507	2	1.703099310
## 12005	40.72131	-73.99816	2	4.289728472
## 12007	40.73649	-73.99237	2	0.821293914
## 12008	40.74295	-73.97392	2	0.409784729
## 12010	40.82738	-73.94559	1	-0.942316878
## 12012	40.76026	-73.98875	1	1.409164178
## 12013	40.75480	-73.96966	2	0.738992077
## 12015	40.72909	-73.99125	2	0.821293914
## 12017	40.80369	-73.96238	1	-0.942316878
## 12018	40.73010	-73.98239	1	0.057062571
## 12020	40.76424	-73.98713	1	-0.824742825
## 12022	40.72221	-73.99084	1	0.821293914
## 12023	40.76436	-73.96836	2	2.290969574
## 12025	40.80423	-73.96515	1	-0.824742825
## 12027	40.78639	-73.94869	2	-0.260387372
## 12028	40.73226	-74.00184	2	0.527358782
## 12030	40.73103	-73.98233	2	1.985277037
## 12032	40.82170	-73.95336	1	-0.965831689
## 12033	40.73449	-73.99299	2	1.997034442
## 12035	40.82347	-73.95228	1	-0.765955799
## 12037	40.75605	-73.99797	1	0.104092192
## 12038	40.72456	-73.98764	2	-0.060511482
## 12040	40.71572	-73.99114	2	1.985277037
## 12042	40.72256	-73.97925	2	0.633175430
## 12043	40.86794	-73.91629	2	-0.707168773
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## 12047	40.79741	-73.93493	1	-0.119298508
## 12048	40.76951	-73.96192	2	-0.295659588
## 12050	40.76172	-73.99428	2	0.762506888
## 12052	40.79401	-73.96390	2	1.150501262
## 12053	40.76633	-73.98750	2	0.233423650
## 12055	40.71508	-73.99275	2	-0.060511482
## 12057	40.73158	-74.00151	1	0.092334787
## 12058	40.73213	-73.99323	2	-0.048754077
## 12060	40.81855	-73.94447	1	-0.989346499

## 12062 40.78558 -73.97703	1 2.467330653
## 12063 40.76793 -73.98583	1 0.233423650
## 12065 40.74660 -73.97044	2 3.172774970
## 12067 40.72800 -73.98603	2 -0.060511482
## 12068 40.82502 -73.94919	2 -0.354446614
## 12070 40.81088 -73.94410	2 1.703099310
## 12072 40.78624 -73.96952	2 -0.401476235
## 12073 40.72631 -73.98507	2 0.586145808
## 12075 40.81589 -73.94460	1 -1.106920552
## 12077 40.73494 -74.00228	2 0.703719861
## 12078 40.77408 -73.95504	2 -0.001724456
## 12080 40.75393 -73.97316	2 0.821293914
## 12082 40.72863 -73.99008	1 -0.707168773
## 12083 40.74031 -73.99860	2 0.233423650
## 12085 40.87634 -73.90948	2 -0.236872561
## 12087 40.80934 -73.95457	2 1.585525257
## 12088 40.78834 -73.97215	2 -0.413233640
## 12090 40.72350 -73.99096	2 1.409164178
## 12092 40.75117 -73.99305	1 0.292210676
## 12093 40.73738 -74.00012	2 0.057062571
## 12095 40.71952 -73.98495	2 0.233423650
## 12097 40.72563 -73.98169	1 0.821293914
## 12098 40.76574 -73.98018	2 3.760645234
## 12100 40.76443 -73.98152	2 3.149260160
## 12102 40.75668 -73.99097	1 -0.119298508
## 12103 40.71801 -73.99840	2 0.350997703
## 12105 40.73581 -73.98918	2 1.350377152
## 12107 40.80010 -73.94081	1 -0.718926178
## 12108 40.79999 -73.94233	2 1.409164178
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## 12120 40.75453 -73.99526	2 1.409164178
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## 12128 40.74864 -73.97383	2 2.584904706
## 12130 40.78383 -73.97529	2 0.033547760
## 12132 40.80296 -73.93690	1 -1.059890931
## 12133 40.80513 -73.96320	2 -0.119298508
## 12135 40.71325 -73.99009	1 0.350997703
## 12137 40.74416 -73.97702	2 -0.060511482
## 12138 40.77700 -73.95771	1 -0.636624341
## 12140 40.75006 -73.97694	2 0.762506888
## 12142 40.76191 -73.94934	1 -1.001103905
## 12143 40.75732 -73.98142	2 2.584904706
## 12145 40.76062 -73.99297	2 -0.530807693
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## 12152	40.77752	-73.94726	1	-0.354446614
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## 12167	40.73253	-74.00859	2	1.056442020
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## 12172	40.77154	-73.94968	2	0.821293914
## 12173	40.86144	-73.92423	1	-1.059890931
## 12175	40.75341	-73.97313	2	3.172774970
## 12177	40.76119	-73.97005	3	-0.001724456
## 12178	40.79572	-73.96781	2	-0.295659588
## 12180	40.75817	-73.98886	2	0.703719861
## 12182	40.73858	-73.99651	2	1.056442020
## 12183	40.77084	-73.94956	2	-0.001724456
## 12185	40.78165	-73.97490	1	-0.883529852
## 12187	40.80485	-73.96345	2	0.233423650
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## 12190	40.81532	-73.95359	1	0.233423650
## 12192	40.73490	-74.00618	2	1.350377152
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## 12210	40.73716	-73.98835	2	0.233423650
## 12212	40.82620	-73.95035	1	-1.024618715
## 12213	40.73144	-74.00388	2	0.233423650
## 12215	40.75172	-73.99784	2	1.115229046
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## 12220	40.80257	-73.96725	1	-0.366204019
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## 12223	40.70518	-74.00881	1	-0.495535477
## 12225	40.74421	-73.98007	2	0.880080940
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## 12237	40.777995	-73.95621	2	0.233423650
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## 12240	40.78761	-73.96862	2	0.057062571

## 12242	40.82237	-73.94617	1	-0.895287257
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## 12247	40.76211	-73.94887	1	-0.707168773
## 12248	40.72203	-73.99564	2	2.290969574
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## 12252	40.76583	-73.98087	2	0.821293914
## 12253	40.85677	-73.92986	1	-1.001103905
## 12255	40.80756	-73.94886	2	0.233423650
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## 12258	40.80259	-73.96446	1	-0.824742825
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## 12263	40.72937	-73.98482	2	1.997034442
## 12265	40.75417	-73.96556	2	-0.472020667
## 12267	40.79119	-73.97820	2	0.233423650
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## 12270	40.72434	-73.99099	2	3.819432261
## 12272	40.79971	-73.96037	2	-0.060511482
## 12273	40.82442	-73.94850	1	-0.883529852
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## 12282	40.78726	-73.96867	2	0.468571756
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## 12320	40.80309	-73.96568	1	-0.354446614
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## 12323	40.76028	-73.99014	2	0.574388403
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## 12338	40.82257	-73.94665	1	-0.942316878
## 12340	40.75803	-73.99853	2	1.820673363
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## 12397	40.73607	-74.00373	2	0.233423650
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## 12442	40.74212	-73.99042	2	1.397406773
## 12443	40.74729	-73.98957	1	-0.178085535
## 12445	40.83029	-73.94962	1	-0.601352125
## 12447	40.84855	-73.93704	2	1.409164178
## 12448	40.77774	-73.95711	2	3.172774970
## 12450	40.73612	-74.00828	2	1.879460389
## 12452	40.72594	-74.00136	1	0.586145808
## 12453	40.71813	-74.00538	2	2.290969574
## 12455	40.73836	-73.98035	2	0.433299540
## 12457	40.74788	-73.98376	1	0.233423650
## 12458	40.79638	-73.96332	2	-0.060511482
## 12460	40.76518	-73.98287	2	1.115229046
## 12462	40.76380	-73.99440	1	-0.765955799
## 12463	40.79598	-73.94838	2	0.057062571
## 12465	40.77383	-73.94903	2	0.233423650
## 12467	40.77466	-73.94748	2	0.233423650
## 12468	40.82025	-73.95206	2	0.586145808
## 12470	40.76405	-73.98877	2	2.337999195
## 12472	40.82592	-73.93911	1	-0.530807693
## 12473	40.72847	-74.00068	2	0.221666245
## 12475	40.71703	-73.99230	2	3.172774970
## 12477	40.72486	-73.98241	2	0.115849597
## 12478	40.70875	-74.00183	1	-0.013481861
## 12480	40.78178	-73.97928	2	0.057062571
## 12482	40.78068	-73.94963	1	0.821293914
## 12483	40.81245	-73.95813	1	0.821293914
## 12485	40.71107	-73.99605	2	-0.248629967
## 12487	40.81318	-73.94508	1	-0.530807693
## 12488	40.81120	-73.95967	1	-0.354446614
## 12490	40.74247	-74.00234	2	1.820673363
## 12492	40.83034	-73.94017	1	-0.718926178
## 12493	40.74197	-73.98328	2	0.809536509
## 12495	40.76565	-73.98708	2	1.115229046
## 12497	40.71532	-73.99903	2	0.233423650
## 12498	40.82258	-73.95368	1	-0.589594720
## 12500	40.82392	-73.94537	2	-0.013481861
## 12502	40.77746	-73.95043	2	0.057062571
## 12503	40.72454	-73.97573	1	-0.589594720
## 12505	40.74696	-73.99556	2	0.256938461
## 12507	40.72516	-74.00242	2	0.821293914
## 12508	40.75547	-73.99513	2	0.374512513
## 12510	40.73419	-73.98132	2	-0.472020667

## 12512	40.76327	-73.96197	2	0.938867967
## 12513	40.77627	-73.95124	2	0.233423650
## 12515	40.77835	-73.94756	2	0.233423650
## 12517	40.70711	-74.01526	1	-0.001724456
## 12518	40.72515	-73.98422	2	0.809536509
## 12520	40.74000	-74.00790	2	-0.589594720
## 12522	40.84385	-73.94324	2	-0.648381746
## 12523	40.72677	-73.98267	2	0.233423650
## 12525	40.74435	-73.98097	2	0.115849597
## 12527	40.76384	-73.99309	1	-0.765955799
## 12528	40.71623	-73.99521	1	-1.048133526
## 12530	40.78012	-73.97874	2	1.409164178
## 12532	40.72345	-74.01001	2	1.985277037
## 12533	40.81688	-73.94132	1	-1.130435363
## 12535	40.76258	-73.98870	2	0.586145808
## 12537	40.75271	-73.99573	2	0.880080940
## 12538	40.81038	-73.93809	2	-0.354446614
## 12540	40.74404	-73.97887	2	-0.354446614
## 12542	40.83034	-73.94787	2	-0.178085535
## 12543	40.75895	-73.99502	2	-0.707168773
## 12545	40.72260	-73.97591	1	-0.765955799
## 12547	40.77817	-73.95096	1	-0.824742825
## 12548	40.77400	-73.94932	2	0.233423650
## 12550	40.76548	-73.98035	2	2.761265785
## 12552	40.75829	-73.98833	1	0.233423650
## 12553	40.72002	-73.98893	2	0.644932835
## 12555	40.86318	-73.92210	1	-0.942316878
## 12557	40.74761	-74.00584	2	0.527358782
## 12558	40.72547	-74.00210	2	0.703719861
## 12560	40.74979	-73.97551	2	-0.225115156
## 12562	40.70521	-74.00678	1	-0.354446614
## 12563	40.82592	-73.94629	1	-1.012861310
## 12565	40.75858	-73.99227	1	0.115849597
## 12567	40.72783	-74.00400	2	0.350997703
## 12568	40.77795	-73.94653	2	-0.236872561
## 12570	40.73008	-74.00123	2	1.115229046
## 12572	40.76282	-73.99184	2	1.703099310
## 12573	40.86232	-73.93004	2	-0.472020667
## 12575	40.72318	-73.98342	1	-0.765955799
## 12577	40.80106	-73.95905	1	-0.613109530
## 12578	40.70637	-74.00941	2	1.656069689
## 12580	40.74816	-73.98676	2	0.327482892
## 12582	40.75349	-73.96545	1	0.350997703
## 12583	40.75462	-73.98640	2	2.349756601
## 12585	40.75225	-73.97067	1	0.644932835
## 12587	40.76402	-73.98909	2	-0.236872561
## 12588	40.79081	-73.94946	2	-0.001724456
## 12590	40.76825	-73.99107	2	0.809536509
## 12592	40.74351	-73.97857	3	-1.071648336
## 12593	40.77506	-73.98162	2	-0.707168773
## 12595	40.81455	-73.95122	1	-0.472020667
## 12597	40.71975	-73.98975	2	-0.178085535
## 12598	40.77641	-73.94616	2	-0.483778072
## 12600	40.82270	-73.94014	1	0.339240298

## 12602	40.75692	-73.99790	1	-0.589594720
## 12603	40.85783	-73.93117	1	-0.824742825
## 12605	40.80815	-73.95399	2	-0.119298508
## 12607	40.76072	-73.96272	2	1.409164178
## 12608	40.75857	-73.99189	2	1.997034442
## 12610	40.80116	-73.95287	1	-0.236872561
## 12612	40.71912	-74.00380	2	4.336758093
## 12613	40.73277	-73.98716	1	-0.448505856
## 12615	40.79202	-73.93999	1	-0.413233640
## 12617	40.73248	-74.00053	2	1.115229046
## 12618	40.71626	-73.99224	1	-0.730683583
## 12620	40.82375	-73.95379	1	-0.730683583
## 12622	40.72167	-73.98066	1	-0.060511482
## 12623	40.74934	-73.97810	2	0.233423650
## 12625	40.71514	-74.00709	2	0.586145808
## 12627	40.77509	-73.95554	1	-0.589594720
## 12628	40.72133	-73.98684	1	-0.248629967
## 12630	40.74036	-73.98301	2	0.233423650
## 12632	40.84777	-73.94241	2	0.350997703
## 12633	40.72320	-73.98152	1	-0.613109530
## 12635	40.76151	-73.97635	2	1.056442020
## 12637	40.73735	-73.97952	2	0.821293914
## 12638	40.72145	-73.99257	2	1.291590125
## 12640	40.72268	-73.99205	2	1.409164178
## 12642	40.72240	-73.99268	2	1.056442020
## 12643	40.72150	-73.99183	2	0.468571756
## 12645	40.79803	-73.93234	2	-0.589594720
## 12647	40.80708	-73.95583	1	-0.707168773
## 12648	40.77708	-73.95113	2	1.232803099
## 12650	40.76748	-73.98536	1	0.821293914
## 12652	40.76011	-73.99571	2	1.409164178
## 12653	40.71990	-73.99225	1	-0.342689209
## 12655	40.81232	-73.95849	1	-0.530807693
## 12657	40.76015	-73.96227	2	0.115849597
## 12658	40.76014	-73.96098	2	0.115849597
## 12660	40.86456	-73.92799	2	-0.060511482
## 12662	40.82645	-73.94984	1	-0.824742825
## 12663	40.77122	-73.99234	2	-0.589594720
## 12665	40.72472	-73.98881	2	-0.354446614
## 12667	40.76396	-73.96365	2	2.584904706
## 12668	40.81685	-73.93711	2	-0.413233640
## 12670	40.79334	-73.96388	1	0.021790355
## 12672	40.76241	-73.94878	1	-0.613109530
## 12673	40.80686	-73.93822	1	-0.942316878
## 12675	40.72181	-73.98146	2	0.221666245
## 12677	40.81410	-73.93602	2	-0.354446614
## 12678	40.73160	-73.98507	2	0.021790355
## 12680	40.76256	-73.98935	1	-0.765955799
## 12682	40.74317	-73.98605	2	1.467951205
## 12683	40.80253	-73.96315	1	-1.177464984
## 12685	40.86370	-73.92858	2	0.350997703
## 12687	40.74980	-73.99623	1	-0.495535477
## 12688	40.76006	-73.96541	1	-0.707168773
## 12690	40.76330	-73.99716	2	1.703099310

## 12692	40.80490	-73.94012	1	-0.589594720
## 12693	40.74451	-73.97836	2	0.233423650
## 12695	40.75040	-73.96934	2	0.468571756
## 12697	40.71953	-74.00401	2	4.230941446
## 12698	40.82824	-73.94525	2	-0.354446614
## 12700	40.81680	-73.95413	1	-1.118677957
## 12702	40.76637	-73.98941	2	-0.001724456
## 12703	40.81847	-73.95259	2	-0.824742825
## 12705	40.72756	-73.98867	1	-0.942316878
## 12707	40.77327	-73.97953	2	0.527358782
## 12708	40.83720	-73.94196	1	-1.236252010
## 12710	40.74627	-73.97595	2	-0.354446614
## 12712	40.73955	-73.99775	2	1.174016072
## 12713	40.86395	-73.92007	1	-1.130435363
## 12715	40.82246	-73.93817	1	-0.413233640
## 12717	40.79787	-73.96880	2	-0.366204019
## 12718	40.86815	-73.92342	1	-0.060511482
## 12720	40.75301	-73.97277	2	0.821293914
## 12722	40.86958	-73.91720	2	1.115229046
## 12723	40.76464	-73.99361	2	0.821293914
## 12725	40.72149	-73.98573	2	-0.236872561
## 12727	40.73991	-74.00211	2	-0.178085535
## 12728	40.83267	-73.94156	1	-0.648381746
## 12730	40.76973	-73.98480	2	0.821293914
## 12732	40.80240	-73.93735	3	-1.177464984
## 12733	40.76373	-73.96595	2	0.821293914
## 12735	40.73612	-74.00410	1	-0.060511482
## 12737	40.72785	-73.97976	2	0.292210676
## 12738	40.76334	-73.98257	2	0.409784729
## 12740	40.77685	-73.95370	1	-0.472020667
## 12742	40.82779	-73.94716	2	-0.413233640
## 12743	40.73940	-73.99964	1	0.233423650
## 12745	40.75129	-73.96980	2	0.468571756
## 12747	40.72140	-73.97787	1	-0.530807693
## 12748	40.80954	-73.93934	2	0.527358782
## 12750	40.75763	-73.99221	1	1.997034442
## 12752	40.77340	-73.98684	1	-0.119298508
## 12753	40.85411	-73.92952	1	-0.366204019
## 12755	40.74476	-73.97550	1	-0.707168773
## 12757	40.82949	-73.94644	1	-1.118677957
## 12758	40.75590	-73.99324	1	-0.248629967
## 12760	40.80399	-73.95402	2	-0.472020667
## 12762	40.72815	-73.99586	2	0.233423650
## 12763	40.77207	-73.95599	2	0.233423650
## 12765	40.70402	-74.01572	1	-0.119298508
## 12767	40.73761	-73.99758	1	-0.613109530
## 12768	40.74322	-73.98005	2	2.455573248
## 12770	40.82881	-73.94309	3	-0.530807693
## 12772	40.72750	-73.99168	2	1.585525257
## 12773	40.81246	-73.95161	2	0.292210676
## 12775	40.777862	-73.94562	2	-0.354446614
## 12777	40.75497	-73.99788	2	3.760645234
## 12778	40.84850	-73.93509	1	-0.918802068
## 12780	40.71180	-74.00830	2	0.233423650

## 12782	40.72406	-73.98275	2	0.586145808
## 12783	40.73686	-73.99171	2	-0.648381746
## 12785	40.75721	-73.96813	1	-0.942316878
## 12787	40.81899	-73.94714	1	-0.954074283
## 12788	40.81376	-73.95354	1	-0.718926178
## 12790	40.81196	-73.95221	1	-0.765955799
## 12792	40.75040	-73.97759	2	0.821293914
## 12793	40.71527	-73.98980	1	-0.718926178
## 12795	40.81337	-73.95206	1	-0.718926178
## 12797	40.81351	-73.95186	1	-0.765955799
## 12798	40.81339	-73.95176	1	-0.765955799
## 12800	40.80106	-73.94503	2	-0.354446614
## 12802	40.80895	-73.95894	1	-0.824742825
## 12803	40.80684	-73.94612	1	-0.989346499
## 12805	40.73609	-73.98566	1	0.221666245
## 12807	40.80194	-73.94397	1	-0.718926178
## 12808	40.72100	-73.98186	2	0.233423650
## 12810	40.72509	-73.98954	1	0.104092192
## 12812	40.85210	-73.93958	2	-0.236872561
## 12813	40.79720	-73.96156	2	-0.519050288
## 12815	40.72997	-73.98772	2	0.233423650
## 12817	40.78941	-73.97167	2	0.174636624
## 12818	40.77219	-73.94763	2	0.809536509
## 12820	40.72149	-73.98273	1	-0.472020667
## 12822	40.74698	-73.98906	1	-0.236872561
## 12823	40.74148	-73.98126	2	0.680205051
## 12825	40.73254	-74.00285	2	1.056442020
## 12827	40.83618	-73.94443	1	-0.824742825
## 12828	40.75946	-73.96498	2	0.691962456
## 12830	40.80228	-73.93903	3	-1.177464984
## 12832	40.77978	-73.95153	2	-0.131055914
## 12833	40.77698	-73.95864	2	0.339240298
## 12835	40.76551	-73.98315	2	0.691962456
## 12837	40.74286	-73.99847	1	-0.542565099
## 12838	40.76716	-73.98779	2	1.938247416
## 12840	40.74658	-73.97782	1	-0.707168773
## 12842	40.76372	-73.98355	3	-0.824742825
## 12843	40.79846	-73.94239	1	-0.483778072
## 12845	40.75715	-73.99759	1	-0.236872561
## 12847	40.83755	-73.94224	1	-0.942316878
## 12848	40.71160	-73.99568	2	0.527358782
## 12850	40.75066	-73.98040	2	0.703719861
## 12852	40.71889	-73.99686	2	3.172774970
## 12853	40.71884	-73.98354	1	0.350997703
## 12855	40.74827	-73.97851	1	-0.119298508
## 12857	40.72968	-73.98073	2	2.584904706
## 12858	40.74882	-73.97788	2	1.409164178
## 12860	40.77602	-73.95062	2	2.584904706
## 12862	40.72196	-73.98083	2	0.209908839
## 12863	40.72957	-73.98724	2	0.233423650
## 12865	40.73573	-73.98755	2	0.233423650
## 12867	40.80375	-73.93599	2	-0.178085535
## 12868	40.72169	-73.98279	2	3.161017565
## 12870	40.72839	-73.99437	2	4.289728472

## 12872	40.76327	-73.96766	2	0.174636624
## 12873	40.78410	-73.97468	2	-0.060511482
## 12875	40.77847	-73.95162	2	2.584904706
## 12877	40.80557	-73.96441	2	-0.060511482
## 12878	40.77742	-73.95149	2	1.997034442
## 12880	40.77915	-73.95041	2	1.115229046
## 12882	40.77712	-73.95176	2	1.409164178
## 12883	40.77717	-73.95131	2	1.997034442
## 12885	40.79653	-73.96887	2	-0.648381746
## 12887	40.81618	-73.94355	1	-0.883529852
## 12888	40.84697	-73.93776	3	-1.189222389
## 12890	40.80450	-73.96383	2	0.233423650
## 12892	40.80026	-73.96425	1	-0.530807693
## 12893	40.76354	-73.96189	2	0.057062571
## 12895	40.84502	-73.94078	3	-1.236252010
## 12897	40.83051	-73.94537	1	-0.965831689
## 12898	40.75544	-73.96901	2	0.586145808
## 12900	40.71269	-73.98713	2	0.233423650
## 12902	40.76540	-73.98039	2	0.350997703
## 12903	40.77730	-73.95652	2	1.115229046
## 12905	40.80878	-73.95777	2	-0.472020667
## 12907	40.72651	-73.99196	2	1.938247416
## 12908	40.80017	-73.93812	1	-0.707168773
## 12910	40.80022	-73.96301	1	-0.413233640
## 12912	40.79728	-73.97348	1	-0.354446614
## 12913	40.84693	-73.94205	2	-0.742440988
## 12915	40.74107	-73.98800	1	-0.213357751
## 12917	40.75920	-73.97017	1	-0.413233640
## 12918	40.79037	-73.94580	2	-0.178085535
## 12920	40.72836	-73.99961	2	1.997034442
## 12922	40.77029	-73.95526	2	-0.178085535
## 12923	40.74216	-73.99673	2	-0.036996671
## 12925	40.75584	-73.99559	2	0.821293914
## 12927	40.79298	-73.97249	1	-0.448505856
## 12928	40.75546	-73.99582	2	0.586145808
## 12930	40.72160	-73.98959	2	-0.001724456
## 12932	40.75115	-73.99787	1	-0.789470609
## 12933	40.80115	-73.96282	1	-0.648381746
## 12935	40.74668	-73.97309	2	0.174636624
## 12937	40.71172	-73.98864	3	-1.142192768
## 12938	40.84857	-73.94193	1	-0.530807693
## 12940	40.84643	-73.94187	1	-0.119298508
## 12942	40.77226	-73.95631	2	0.174636624
## 12943	40.79788	-73.96235	2	1.409164178
## 12945	40.82980	-73.93984	1	-0.765955799
## 12947	40.77722	-73.97834	1	0.339240298
## 12948	40.79408	-73.97392	2	0.233423650
## 12950	40.76163	-73.97113	2	0.938867967
## 12952	40.77603	-73.95573	1	-0.366204019
## 12953	40.77506	-73.95335	3	-0.589594720
## 12955	40.73900	-74.00115	2	-0.084026293
## 12957	40.71483	-73.99287	2	-0.448505856
## 12958	40.71335	-74.00687	1	-0.942316878
## 12960	40.79701	-73.96933	1	-0.436748451

## 12962	40.80541	-73.93658	1	-0.589594720
## 12963	40.70987	-73.98689	3	-1.118677957
## 12965	40.78785	-73.94249	2	-0.295659588
## 12967	40.82521	-73.94159	2	0.821293914
## 12968	40.71960	-73.98133	2	1.997034442
## 12970	40.78648	-73.97923	3	-0.824742825
## 12972	40.76230	-73.99096	2	0.492086566
## 12973	40.72765	-73.99881	1	-0.648381746
## 12975	40.74121	-73.98139	2	1.291590125
## 12977	40.81367	-73.95133	1	-0.883529852
## 12978	40.77839	-73.97613	1	0.409784729
## 12980	40.83470	-73.94487	1	0.115849597
## 12982	40.80497	-73.94952	1	-0.060511482
## 12983	40.76155	-73.98687	2	1.938247416
## 12985	40.80381	-73.95055	2	-0.060511482
## 12987	40.85265	-73.93247	1	-1.118677957
## 12988	40.78760	-73.94139	2	0.221666245
## 12990	40.73214	-73.98783	2	3.113987944
## 12992	40.72831	-73.98873	3	-0.648381746
## 12993	40.79750	-73.93556	1	-0.824742825
## 12995	40.83921	-73.93535	2	-0.119298508
## 12997	40.72257	-73.98884	2	-0.154570724
## 12998	40.72603	-73.98469	1	0.221666245
## 13000	40.84442	-73.94039	1	-0.178085535
## 13002	40.71473	-73.99091	1	-0.801228015
## 13003	40.71117	-73.98727	3	-1.153950173
## 13005	40.81862	-73.95565	1	-0.824742825
## 13007	40.72650	-73.98878	2	-0.236872561
## 13008	40.71925	-73.99301	1	-0.577837314
## 13010	40.73925	-73.98084	2	3.278591618
## 13012	40.72764	-73.99300	2	3.172774970
## 13013	40.73974	-73.99563	1	-0.589594720
## 13015	40.82900	-73.94803	1	-0.942316878
## 13017	40.76305	-73.96704	2	1.291590125
## 13018	40.75510	-73.99363	2	0.821293914
## 13020	40.76483	-73.96675	2	1.115229046
## 13022	40.74848	-73.97609	1	2.408543627
## 13023	40.75988	-73.96115	2	-0.354446614
## 13025	40.76000	-73.98962	2	0.527358782
## 13027	40.84305	-73.93877	1	-0.483778072
## 13028	40.72107	-73.98340	1	-0.354446614
## 13030	40.80899	-73.94225	1	-0.589594720
## 13032	40.81404	-73.93809	1	-0.824742825
## 13033	40.76686	-73.98555	2	0.233423650
## 13035	40.71655	-73.99042	2	-0.001724456
## 13037	40.76431	-73.98859	3	-0.648381746
## 13038	40.74265	-73.98066	2	3.760645234
## 13040	40.76398	-73.96581	2	4.101609988
## 13042	40.74633	-73.98694	2	0.468571756
## 13043	40.77255	-73.96323	2	-0.048754077
## 13045	40.72205	-73.98132	2	0.339240298
## 13047	40.74057	-74.00263	2	0.233423650
## 13048	40.77388	-73.94913	1	-0.554322504
## 13050	40.72062	-73.98425	2	0.327482892

## 13052 40.75689 -73.99700	2	2.937626865
## 13053 40.78167 -73.94734	1	-0.483778072
## 13055 40.74891 -73.97887	2	2.055821469
## 13057 40.76480 -73.98879	3	-0.707168773
## 13058 40.72434 -73.99532	2	0.821293914
## 13060 40.74248 -73.99568	2	-0.401476235
## 13062 40.77825 -73.94719	2	0.057062571
## 13063 40.74688 -73.98701	2	1.056442020
## 13065 40.72822 -73.99239	2	0.527358782
## 13067 40.81061 -73.95125	2	0.233423650
## 13068 40.87188 -73.91936	2	-0.530807693
## 13070 40.73629 -73.98753	2	0.409784729
## 13072 40.74161 -73.99435	2	1.409164178
## 13073 40.76833 -73.96156	2	0.821293914
## 13075 40.75988 -73.95097	2	-0.001724456
## 13077 40.77154 -73.95573	2	0.527358782
## 13078 40.79913 -73.96320	2	0.233423650
## 13080 40.76032 -73.95164	1	-0.707168773
## 13082 40.71374 -73.98907	1	-0.354446614
## 13083 40.73389 -74.00086	2	1.350377152
## 13085 40.80373 -73.93594	1	-0.907044662
## 13087 40.72909 -73.98986	1	-0.413233640
## 13088 40.71150 -73.99520	2	1.997034442
## 13090 40.70438 -74.00856	2	-0.178085535
## 13092 40.70615 -74.01719	2	0.586145808
## 13093 40.80765 -73.95244	2	3.172774970
## 13095 40.78757 -73.95402	2	0.750749482
## 13097 40.79902 -73.96692	1	-0.707168773
## 13098 40.75321 -73.97132	2	0.668447645
## 13100 40.72890 -73.98865	1	-0.907044662
## 13102 40.75129 -73.99561	2	0.644932835
## 13103 40.78353 -73.97802	1	-1.001103905
## 13105 40.73976 -74.00953	2	0.821293914
## 13107 40.78268 -73.94977	2	-0.236872561
## 13108 40.75173 -73.97270	2	2.867082433
## 13110 40.72142 -73.98411	1	2.584904706
## 13112 40.76534 -73.98701	3	-0.648381746
## 13113 40.79766 -73.94824	1	0.104092192
## 13115 40.83711 -73.94438	1	-0.472020667
## 13117 40.74677 -73.98698	2	-0.119298508
## 13118 40.74776 -73.98668	2	-0.272144777
## 13120 40.74731 -73.98821	2	0.386269919
## 13122 40.74793 -73.98834	2	-0.119298508
## 13123 40.74826 -73.98873	2	0.080577381
## 13125 40.74657 -73.98691	2	0.386269919
## 13127 40.74649 -73.98723	2	0.080577381
## 13128 40.74796 -73.98788	2	-0.119298508
## 13130 40.74706 -73.98689	2	0.268695866
## 13132 40.75869 -73.99068	1	3.172774970
## 13133 40.83310 -73.94347	1	-0.765955799
## 13135 40.72619 -73.99019	2	3.172774970
## 13137 40.75311 -73.97306	1	3.172774970
## 13138 40.82733 -73.94937	2	1.350377152
## 13140 40.71353 -73.99925	2	1.056442020

## 13142	40.80670	-73.95621	2	0.527358782
## 13143	40.80554	-73.95586	1	-0.577837314
## 13145	40.72884	-74.00285	2	0.821293914
## 13147	40.86302	-73.92982	2	-0.460263262
## 13148	40.70738	-74.00493	2	0.962382777
## 13150	40.81274	-73.94550	1	0.198151434
## 13152	40.72003	-73.98588	2	-0.448505856
## 13153	40.82165	-73.95593	1	-0.883529852
## 13155	40.70805	-74.00581	2	0.880080940
## 13157	40.80386	-73.93618	1	-0.589594720
## 13158	40.71908	-73.98379	2	1.056442020
## 13160	40.71262	-73.99592	1	-0.131055914
## 13162	40.80389	-73.95712	2	0.703719861
## 13163	40.73294	-73.98847	2	0.562630998
## 13165	40.79068	-73.94461	1	-1.177464984
## 13167	40.80201	-73.95774	2	-0.483778072
## 13168	40.73114	-73.98869	2	2.290969574
## 13170	40.76027	-73.98831	2	-0.366204019
## 13172	40.80849	-73.94244	1	0.233423650
## 13173	40.74069	-74.00546	2	0.527358782
## 13175	40.70786	-74.00476	2	1.056442020
## 13177	40.73280	-74.00306	2	1.761886337
## 13178	40.72639	-74.00687	2	0.409784729
## 13180	40.75132	-73.96926	2	0.339240298
## 13182	40.82383	-73.94037	1	-0.436748451
## 13183	40.82554	-73.95350	1	-0.354446614
## 13185	40.80172	-73.96177	1	-0.119298508
## 13187	40.70747	-74.00436	2	1.079956830
## 13188	40.78315	-73.94768	2	-0.354446614
## 13190	40.75068	-73.99811	2	0.492086566
## 13192	40.76521	-73.96491	2	0.421542134
## 13193	40.79232	-73.94634	1	-1.177464984
## 13195	40.71179	-73.99848	1	0.350997703
## 13197	40.76601	-73.98651	1	-0.472020667
## 13198	40.76934	-73.98782	2	2.878839838
## 13200	40.80442	-73.95629	1	-0.824742825
## 13202	40.83963	-73.93512	2	-0.942316878
## 13203	40.80551	-73.94905	2	1.644312284
## 13205	40.82961	-73.94740	1	-0.589594720
## 13207	40.72110	-73.97966	2	-0.060511482
## 13208	40.76318	-73.98838	1	-0.013481861
## 13210	40.76489	-73.98822	1	-0.013481861
## 13212	40.73817	-74.00768	2	1.291590125
## 13213	40.71907	-73.99698	2	2.878839838
## 13215	40.72930	-73.98488	2	0.821293914
## 13217	40.82820	-73.94973	1	-1.071648336
## 13218	40.73959	-74.00105	2	0.809536509
## 13220	40.76277	-73.99321	2	0.774264293
## 13222	40.80397	-73.95615	1	-1.001103905
## 13223	40.76185	-73.98160	2	0.480329161
## 13225	40.73101	-73.97347	2	0.468571756
## 13227	40.79806	-73.97416	1	-0.589594720
## 13228	40.72603	-73.98369	1	0.221666245
## 13230	40.70791	-74.00545	2	0.574388403

## 13232	40.84591	-73.94059	1	-0.942316878
## 13233	40.70648	-74.00499	2	0.574388403
## 13235	40.76665	-73.98568	2	-0.178085535
## 13237	40.73417	-74.00604	2	1.409164178
## 13238	40.73170	-74.00708	2	0.386269919
## 13240	40.75181	-73.97137	2	2.455573248
## 13242	40.75307	-73.97162	2	1.632554878
## 13243	40.75226	-73.97356	2	1.632554878
## 13245	40.79983	-73.94481	2	1.997034442
## 13247	40.76396	-73.99185	2	0.821293914
## 13248	40.75693	-73.97078	3	-0.789470609
## 13250	40.76120	-73.98886	2	1.997034442
## 13252	40.74564	-73.98181	2	-0.178085535
## 13253	40.77038	-73.95273	1	-0.295659588
## 13255	40.86816	-73.93131	2	-0.354446614
## 13257	40.77172	-73.95427	2	-0.060511482
## 13258	40.75917	-73.95916	2	0.209908839
## 13260	40.80942	-73.93701	2	-0.942316878
## 13262	40.70902	-74.01686	2	1.938247416
## 13263	40.72507	-73.98270	1	-0.354446614
## 13265	40.78771	-73.95143	1	-0.707168773
## 13267	40.80228	-73.96334	1	-0.648381746
## 13268	40.77574	-73.94638	2	-0.119298508
## 13270	40.71336	-73.99263	2	0.938867967
## 13272	40.81312	-73.95364	1	-0.765955799
## 13273	40.81205	-73.95322	1	-0.765955799
## 13275	40.81554	-73.94144	1	-1.071648336
## 13277	40.72613	-74.00188	2	0.821293914
## 13278	40.72921	-73.98629	2	-0.413233640
## 13280	40.80030	-73.93829	1	-0.660139151
## 13282	40.72845	-73.97927	2	0.997654993
## 13283	40.79398	-73.93970	2	0.115849597
## 13285	40.72642	-73.98402	2	0.527358782
## 13287	40.79566	-73.96859	1	-0.413233640
## 13288	40.72578	-73.98763	2	-0.131055914
## 13290	40.77989	-73.95159	2	-0.060511482
## 13292	40.71916	-74.00442	2	1.291590125
## 13293	40.79094	-73.97459	2	1.526738231
## 13295	40.73048	-73.98269	2	-0.613109530
## 13297	40.82632	-73.94637	1	-0.718926178
## 13298	40.75866	-73.98032	1	-0.354446614
## 13300	40.72925	-74.00042	2	-0.131055914
## 13302	40.76692	-73.95298	2	3.161017565
## 13303	40.84634	-73.93861	2	1.703099310
## 13305	40.74346	-73.97827	2	0.809536509
## 13307	40.78723	-73.94956	1	-0.354446614
## 13308	40.82356	-73.94010	1	-0.530807693
## 13310	40.78124	-73.94988	2	1.409164178
## 13312	40.74581	-73.97840	2	3.313863834
## 13313	40.74481	-73.97879	2	3.313863834
## 13315	40.83163	-73.94615	1	-0.707168773
## 13317	40.83010	-73.94757	1	-0.366204019
## 13318	40.81503	-73.94341	1	-0.895287257
## 13320	40.71396	-73.99771	2	0.209908839

## 13322	40.76680	-73.95400	1	-0.354446614
## 13323	40.76125	-73.99859	2	1.703099310
## 13325	40.77799	-73.97820	2	1.409164178
## 13327	40.80466	-73.96529	1	-0.883529852
## 13328	40.75305	-73.96947	2	2.761265785
## 13330	40.76657	-73.98514	2	1.115229046
## 13332	40.76820	-73.95323	2	0.115849597
## 13333	40.82829	-73.94691	3	-0.589594720
## 13335	40.777023	-73.95212	2	-0.354446614
## 13337	40.81468	-73.93735	1	-0.765955799
## 13338	40.76956	-73.98804	1	-0.060511482
## 13340	40.77359	-73.94967	2	-0.589594720
## 13342	40.73233	-74.00244	2	1.573767852
## 13343	40.75359	-73.97028	2	0.350997703
## 13345	40.75523	-73.97104	2	0.644932835
## 13347	40.77101	-73.98481	2	-0.236872561
## 13348	40.71470	-73.99868	2	1.997034442
## 13350	40.74803	-73.97282	2	0.527358782
## 13352	40.77456	-73.94602	2	0.174636624
## 13353	40.75592	-73.96957	2	-0.366204019
## 13355	40.83701	-73.94256	1	-0.918802068
## 13357	40.82484	-73.93913	1	-0.883529852
## 13358	40.82696	-73.94598	2	-0.354446614
## 13360	40.78719	-73.95201	1	-0.354446614
## 13362	40.777024	-73.99266	2	1.997034442
## 13363	40.75368	-73.97317	2	2.455573248
## 13365	40.777959	-73.97827	1	0.586145808
## 13367	40.75423	-73.99461	1	-0.119298508
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## 13372	40.74383	-73.98387	2	0.821293914
## 13373	40.777905	-73.95275	2	0.703719861
## 13375	40.72201	-73.98856	2	1.703099310
## 13377	40.72705	-73.99904	2	0.209908839
## 13378	40.82499	-73.95374	1	-0.648381746
## 13380	40.82268	-73.95300	1	-0.895287257
## 13382	40.78723	-73.97031	2	0.268695866
## 13383	40.84103	-73.94063	1	-0.765955799
## 13385	40.71394	-73.99843	1	-0.624866936
## 13387	40.73393	-73.99630	2	0.339240298
## 13388	40.73333	-74.00520	2	1.997034442
## 13390	40.74077	-73.97977	1	-0.330931804
## 13392	40.77311	-73.95508	2	0.233423650
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## 13395	40.80451	-73.94079	2	0.409784729
## 13397	40.76008	-73.98846	2	1.985277037
## 13398	40.75087	-73.99530	2	1.409164178
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## 13402	40.777969	-73.97862	1	-0.413233640
## 13403	40.71883	-73.98957	2	0.221666245
## 13405	40.81542	-73.94574	2	0.527358782
## 13407	40.75512	-73.97155	1	2.584904706
## 13408	40.76323	-73.99248	2	1.232803099
## 13410	40.75628	-73.96918	1	-0.001724456

## 13412	40.73034	-74.00135	2	1.409164178
## 13413	40.72090	-73.98142	2	-0.178085535
## 13415	40.71313	-73.98665	1	-0.483778072
## 13417	40.73389	-73.99083	2	1.056442020
## 13418	40.78243	-73.97265	2	1.585525257
## 13420	40.74491	-74.00420	2	0.233423650
## 13422	40.80222	-73.96763	1	-0.765955799
## 13423	40.80365	-73.96639	1	-0.707168773
## 13425	40.72626	-73.98784	2	2.114608495
## 13427	40.79138	-73.94130	1	-0.589594720
## 13428	40.72328	-73.98430	1	-0.589594720
## 13430	40.76169	-73.98839	1	-0.119298508
## 13432	40.77598	-73.98917	2	1.985277037
## 13433	40.75781	-73.99751	1	0.527358782
## 13435	40.83850	-73.94288	2	-0.060511482
## 13437	40.71848	-73.98439	1	-0.483778072
## 13438	40.78489	-73.98200	2	-0.472020667
## 13440	40.77759	-73.94688	2	-0.142813319
## 13442	40.87001	-73.92418	2	-0.119298508
## 13443	40.78026	-73.95400	2	0.527358782
## 13445	40.80569	-73.94848	2	3.760645234
## 13447	40.72192	-73.99280	2	0.233423650
## 13448	40.84821	-73.94153	1	-0.942316878
## 13450	40.72433	-73.97688	1	-0.119298508
## 13452	40.73700	-73.99407	1	-0.530807693
## 13453	40.76419	-73.97455	2	1.985277037
## 13455	40.71390	-73.99120	1	-0.472020667
## 13457	40.72361	-73.98470	2	0.233423650
## 13458	40.71380	-73.99371	1	-0.060511482
## 13460	40.74549	-73.99114	1	0.703719861
## 13462	40.86408	-73.92257	1	-0.942316878
## 13463	40.80385	-73.96499	1	-0.354446614
## 13465	40.71499	-73.98986	1	1.879460389
## 13467	40.75972	-73.96021	2	1.703099310
## 13468	40.77829	-73.97794	1	-0.413233640
## 13470	40.81448	-73.93714	2	-0.001724456
## 13472	40.80868	-73.95801	1	-0.883529852
## 13473	40.73399	-73.99002	2	1.350377152
## 13475	40.82502	-73.95155	1	-1.001103905
## 13477	40.78028	-73.94769	2	0.233423650
## 13478	40.77515	-73.95299	2	1.985277037
## 13480	40.70587	-74.01180	1	0.104092192
## 13482	40.72200	-73.98396	1	-0.483778072
## 13483	40.79578	-73.94523	1	-0.730683583
## 13485	40.75780	-73.99211	1	-0.166328130
## 13487	40.78382	-73.98235	2	0.057062571
## 13488	40.79591	-73.96204	1	-0.472020667
## 13490	40.75393	-73.96612	2	-0.060511482
## 13492	40.74471	-73.98027	2	-0.060511482
## 13493	40.74651	-73.97868	2	-0.060511482
## 13495	40.78612	-73.97011	2	-0.530807693
## 13497	40.76206	-73.99775	2	1.997034442
## 13498	40.80580	-73.96470	2	-0.236872561
## 13500	40.70551	-74.00839	2	1.115229046

## 13502	40.78119	-73.95121	2	0.821293914
## 13503	40.76811	-73.94483	1	-0.942316878
## 13505	40.82156	-73.94966	2	1.373891962
## 13507	40.71770	-73.99246	1	-0.671896557
## 13508	40.77359	-73.95143	2	-0.154570724
## 13510	40.78260	-73.98228	2	-0.354446614
## 13512	40.70561	-74.00860	2	0.174636624
## 13513	40.74090	-73.99596	2	1.467951205
## 13515	40.72851	-74.00000	2	1.997034442
## 13517	40.70503	-74.00698	2	0.644932835
## 13518	40.75792	-73.99172	3	-0.765955799
## 13520	40.76487	-73.97857	2	1.409164178
## 13522	40.74591	-73.97843	2	0.821293914
## 13523	40.80565	-73.95197	1	-0.354446614
## 13525	40.74230	-73.99603	2	1.467951205
## 13527	40.71113	-73.98840	3	-1.142192768
## 13528	40.79856	-73.97174	1	-0.883529852
## 13530	40.76265	-73.98954	2	0.350997703
## 13532	40.80322	-73.94488	3	-0.765955799
## 13533	40.71571	-73.98699	2	-0.530807693
## 13535	40.70988	-73.98666	1	-0.436748451
## 13537	40.82291	-73.94256	2	-0.131055914
## 13538	40.72957	-73.98820	2	-0.013481861
## 13540	40.75885	-73.98147	1	-0.119298508
## 13542	40.74681	-73.97629	2	0.233423650
## 13543	40.85054	-73.93956	1	-0.648381746
## 13545	40.77883	-73.95528	2	0.809536509
## 13547	40.71098	-73.98696	3	-1.118677957
## 13548	40.73608	-73.99997	2	0.527358782
## 13550	40.82336	-73.95596	1	-0.648381746
## 13552	40.70617	-74.01120	2	1.291590125
## 13553	40.72839	-73.99983	1	-0.178085535
## 13555	40.81639	-73.94223	1	-0.589594720
## 13557	40.70690	-74.01388	1	-0.413233640
## 13558	40.72189	-73.98219	2	1.526738231
## 13560	40.76205	-73.98200	2	0.409784729
## 13562	40.78925	-73.96757	2	0.104092192
## 13563	40.71152	-73.99166	1	-0.836500231
## 13565	40.77705	-73.98118	1	-0.213357751
## 13567	40.71313	-74.00681	1	-0.472020667
## 13568	40.77127	-73.98842	2	0.586145808
## 13570	40.76281	-73.98883	2	3.349136050
## 13572	40.74454	-73.97579	2	0.233423650
## 13573	40.72081	-73.97921	1	-0.824742825
## 13575	40.74233	-73.98031	1	-0.648381746
## 13577	40.72607	-73.97631	1	-0.413233640
## 13578	40.80874	-73.94167	2	1.997034442
## 13580	40.75985	-73.99107	1	-0.119298508
## 13582	40.75864	-73.97035	2	0.821293914
## 13583	40.76511	-73.98762	1	0.104092192
## 13585	40.72247	-73.98172	1	-0.601352125
## 13587	40.72531	-73.98187	2	1.938247416
## 13588	40.70598	-74.00761	2	3.172774970
## 13590	40.72911	-74.00001	2	1.409164178

## 13592	40.76590	-73.98557	1	-0.366204019
## 13593	40.79892	-73.95139	3	-1.012861310
## 13595	40.72320	-73.98758	1	0.233423650
## 13597	40.86220	-73.93039	2	-0.695411367
## 13598	40.83418	-73.94088	3	-0.942316878
## 13600	40.75254	-73.99471	2	0.703719861
## 13602	40.76291	-73.99327	2	-0.119298508
## 13603	40.73807	-73.98091	2	-0.131055914
## 13605	40.72975	-74.00157	2	0.821293914
## 13607	40.72783	-74.00102	1	-0.483778072
## 13608	40.78237	-73.95226	1	-0.413233640
## 13610	40.85522	-73.93271	2	1.232803099
## 13612	40.77396	-73.98420	2	3.172774970
## 13613	40.70848	-74.00510	1	-0.001724456
## 13615	40.82708	-73.94470	1	-0.119298508
## 13617	40.72191	-73.98124	1	-0.589594720
## 13618	40.74183	-73.98166	2	0.527358782
## 13620	40.85197	-73.93308	1	-0.836500231
## 13622	40.76592	-73.98095	1	-0.060511482
## 13623	40.76480	-73.95862	2	0.468571756
## 13625	40.83856	-73.94411	1	-0.765955799
## 13627	40.81448	-73.94547	2	-0.095783698
## 13628	40.82511	-73.95341	1	-0.530807693
## 13630	40.75417	-73.99435	1	-0.707168773
## 13632	40.73177	-74.00162	2	-0.354446614
## 13633	40.79557	-73.97632	2	0.174636624
## 13635	40.79244	-73.94028	1	-0.589594720
## 13637	40.73805	-73.98415	2	0.233423650
## 13638	40.73384	-73.99807	2	0.198151434
## 13640	40.73850	-73.97945	2	0.821293914
## 13642	40.75028	-73.97702	2	0.938867967
## 13643	40.77882	-73.95054	2	-0.519050288
## 13645	40.84698	-73.93629	2	-0.648381746
## 13647	40.80393	-73.95205	2	2.514360275
## 13648	40.72734	-73.97528	2	0.139364408
## 13650	40.74290	-73.99560	2	1.279832720
## 13652	40.70571	-74.00833	2	0.609660619
## 13653	40.80848	-73.94271	1	-0.765955799
## 13655	40.80389	-73.96859	2	-0.354446614
## 13657	40.71835	-73.99757	1	-1.048133526
## 13658	40.80672	-73.96713	1	-0.060511482
## 13660	40.75377	-73.97302	1	0.456814350
## 13662	40.80013	-73.95907	2	0.233423650
## 13663	40.76482	-73.98674	2	1.103471641
## 13665	40.80078	-73.96394	1	-0.942316878
## 13667	40.74846	-73.98708	2	0.586145808
## 13668	40.76610	-73.95419	2	-0.142813319
## 13670	40.75069	-73.99736	1	0.527358782
## 13672	40.78973	-73.94965	2	-0.942316878
## 13673	40.84332	-73.94131	1	-0.942316878
## 13675	40.74234	-73.98277	2	0.174636624
## 13677	40.83534	-73.94354	2	0.233423650
## 13678	40.81811	-73.94497	1	-0.648381746
## 13680	40.80063	-73.96936	1	-0.460263262

## 13682 40.83309 -73.94008	1 0.527358782
## 13683 40.84830 -73.93115	1 -0.060511482
## 13685 40.72532 -73.98023	2 0.398027324
## 13687 40.80808 -73.95259	1 -1.001103905
## 13688 40.82582 -73.94600	1 -0.707168773
## 13690 40.76180 -73.96546	2 2.878839838
## 13692 40.80793 -73.95127	2 1.115229046
## 13693 40.72432 -74.00195	2 0.350997703
## 13695 40.73714 -73.98827	2 0.527358782
## 13697 40.73463 -73.99796	2 0.997654993
## 13698 40.79332 -73.97501	2 -0.354446614
## 13700 40.76189 -73.98991	2 0.644932835
## 13702 40.72580 -73.97963	2 2.349756601
## 13703 40.81585 -73.94272	1 -0.601352125
## 13705 40.74929 -73.97827	2 0.233423650
## 13707 40.78922 -73.97398	2 0.527358782
## 13708 40.79891 -73.95280	2 -0.295659588
## 13710 40.71686 -74.00484	2 2.055821469
## 13712 40.73550 -73.98000	2 -0.048754077
## 13713 40.72522 -73.98205	2 1.103471641
## 13715 40.80875 -73.94238	2 0.350997703
## 13717 40.80954 -73.94257	2 -0.530807693
## 13718 40.71175 -74.00763	2 0.821293914
## 13720 40.74793 -73.97958	2 -0.119298508
## 13722 40.79438 -73.94463	2 0.586145808
## 13723 40.79891 -73.96446	2 1.115229046
## 13725 40.76201 -73.99099	2 2.584904706
## 13727 40.80083 -73.93778	2 1.997034442
## 13728 40.71529 -73.99088	2 0.468571756
## 13730 40.72561 -73.97622	1 0.527358782
## 13732 40.71339 -73.98684	2 0.104092192
## 13733 40.71329 -73.99602	2 0.374512513
## 13735 40.72238 -73.99466	2 -0.483778072
## 13737 40.75678 -73.99357	2 0.797779103
## 13738 40.78802 -73.96926	2 -0.154570724
## 13740 40.72852 -74.00151	2 0.398027324
## 13742 40.71937 -73.99202	1 -0.765955799
## 13743 40.72547 -73.98401	2 0.468571756
## 13745 40.79725 -73.93311	2 0.233423650
## 13747 40.77277 -73.94965	2 0.527358782
## 13748 40.72373 -74.00552	2 3.760645234
## 13750 40.84115 -73.94095	1 -0.942316878
## 13752 40.80670 -73.94481	2 0.468571756
## 13753 40.81931 -73.95600	2 -0.236872561
## 13755 40.79282 -73.97353	2 2.702478759
## 13757 40.77017 -73.95365	2 0.821293914
## 13758 40.83298 -73.94800	1 -0.354446614
## 13760 40.72718 -73.98430	2 -0.025239266
## 13762 40.80973 -73.94570	1 -0.589594720
## 13763 40.72228 -73.98584	2 -0.060511482
## 13765 40.71325 -73.98511	1 -0.354446614
## 13767 40.81630 -73.95262	3 -0.472020667
## 13768 40.70907 -74.01371	1 -0.483778072
## 13770 40.80173 -73.94035	1 -0.765955799

## 13772	40.78074	-73.94811	2	0.586145808
## 13773	40.80068	-73.94598	2	0.715477267
## 13775	40.75184	-73.97302	1	0.527358782
## 13777	40.82493	-73.93825	1	-1.024618715
## 13778	40.80403	-73.96479	1	-0.765955799
## 13780	40.76097	-73.99959	2	0.821293914
## 13782	40.82927	-73.94272	2	0.233423650
## 13783	40.81385	-73.96140	1	-0.942316878
## 13785	40.71865	-73.98982	2	0.339240298
## 13787	40.80343	-73.96796	1	-0.119298508
## 13788	40.78589	-73.94870	2	1.409164178
## 13790	40.80040	-73.96867	2	1.115229046
## 13792	40.79523	-73.94231	2	0.821293914
## 13793	40.79714	-73.93685	2	-0.213357751
## 13795	40.77495	-73.94832	2	3.760645234
## 13797	40.76996	-73.95390	1	-0.707168773
## 13798	40.74900	-73.99466	1	-0.648381746
## 13800	40.73568	-73.97998	1	0.350997703
## 13802	40.75971	-73.98639	2	2.432058438
## 13803	40.77419	-73.98720	1	-0.519050288
## 13805	40.77701	-73.97667	2	0.586145808
## 13807	40.72759	-73.98047	1	-0.389718830
## 13808	40.70493	-74.00650	2	1.044684614
## 13810	40.80142	-73.95750	2	-0.354446614
## 13812	40.77646	-73.96026	2	0.586145808
## 13813	40.70803	-74.00502	2	0.456814350
## 13815	40.72787	-73.98844	1	-0.472020667
## 13817	40.76306	-73.99015	2	1.761886337
## 13818	40.73675	-73.99800	1	-0.483778072
## 13820	40.72860	-73.98334	2	-0.178085535
## 13822	40.82500	-73.95181	1	-0.472020667
## 13823	40.72277	-73.99524	2	0.609660619
## 13825	40.73631	-73.97512	1	-0.236872561
## 13827	40.76272	-73.98898	2	-0.001724456
## 13828	40.79938	-73.94698	1	-0.366204019
## 13830	40.73133	-74.00461	2	0.586145808
## 13832	40.76457	-73.97518	2	0.421542134
## 13833	40.86590	-73.92869	2	2.690721354
## 13835	40.77288	-73.94745	2	0.527358782
## 13837	40.76269	-73.98954	2	0.809536509
## 13838	40.79747	-73.94836	1	-0.942316878
## 13840	40.75439	-73.97339	2	0.527358782
## 13842	40.72469	-73.97892	2	0.409784729
## 13843	40.74098	-73.99744	2	0.115849597
## 13845	40.71705	-73.999818	3	-0.354446614
## 13847	40.84959	-73.93911	1	-0.648381746
## 13848	40.70884	-74.00822	2	1.985277037
## 13850	40.84369	-73.94064	1	-0.942316878
## 13852	40.75541	-73.99502	1	0.303968082
## 13853	40.72938	-74.00027	2	0.786021698
## 13855	40.75298	-73.96919	2	0.809536509
## 13857	40.72823	-73.98425	1	-0.354446614
## 13858	40.82297	-73.95481	1	-0.589594720
## 13860	40.76235	-73.98759	2	0.527358782

## 13862	40.81626	-73.95862	1	-0.354446614
## 13863	40.74194	-73.99914	1	-0.354446614
## 13865	40.76931	-73.95336	2	0.115849597
## 13867	40.78460	-73.97315	2	-0.366204019
## 13868	40.77988	-73.95482	2	3.161017565
## 13870	40.80693	-73.94831	2	0.821293914
## 13872	40.72768	-73.99917	2	3.290349023
## 13873	40.83271	-73.94145	1	-0.883529852
## 13875	40.71721	-73.99312	2	0.292210676
## 13877	40.71418	-74.00676	2	3.760645234
## 13878	40.71773	-73.99812	1	-0.354446614
## 13880	40.77255	-73.99057	3	1.056442020
## 13882	40.73609	-73.98595	2	0.174636624
## 13883	40.74249	-73.99997	1	-0.730683583
## 13885	40.81600	-73.95348	2	-0.001724456
## 13887	40.75815	-73.96489	3	0.409784729
## 13888	40.86842	-73.91747	1	-0.942316878
## 13890	40.74388	-73.99631	2	0.821293914
## 13892	40.75523	-73.96367	1	-0.248629967
## 13893	40.73521	-73.99944	2	-0.119298508
## 13895	40.72218	-73.99539	2	-0.483778072
## 13897	40.74104	-73.99712	1	-0.354446614
## 13898	40.74284	-73.99842	1	-0.366204019
## 13900	40.73655	-74.00226	2	0.527358782
## 13902	40.84362	-73.94253	1	-0.977589094
## 13903	40.73735	-74.00040	2	0.350997703
## 13905	40.83387	-73.94163	1	-0.577837314
## 13907	40.77898	-73.98532	1	0.574388403
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## 13910	40.72425	-74.00331	1	-0.883529852
## 13912	40.73788	-74.00183	2	0.468571756
## 13913	40.70587	-74.00685	2	0.433299540
## 13915	40.71725	-74.00524	2	1.997034442
## 13917	40.75115	-73.98607	1	1.997034442
## 13918	40.74222	-73.99444	2	1.409164178
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## 13922	40.74454	-73.97339	2	0.903595751
## 13923	40.74386	-73.97327	2	0.586145808
## 13925	40.83458	-73.94227	1	-0.883529852
## 13927	40.76418	-73.98822	3	-0.366204019
## 13928	40.76488	-73.98832	3	-0.765955799
## 13930	40.78703	-73.94741	2	-0.178085535
## 13932	40.72926	-73.99968	2	1.997034442
## 13933	40.77263	-73.98997	1	-0.119298508
## 13935	40.76983	-73.98734	1	-0.189842940
## 13937	40.74483	-73.97956	2	-0.060511482
## 13938	40.76525	-73.95557	1	-0.472020667
## 13940	40.79444	-73.96613	2	0.762506888
## 13942	40.73281	-74.00205	2	2.290969574
## 13943	40.78585	-73.97069	2	0.021790355
## 13945	40.78575	-73.97429	2	0.221666245
## 13947	40.71252	-73.98765	1	-0.424991046
## 13948	40.71070	-73.98759	1	-0.460263262
## 13950	40.74342	-73.98207	2	0.350997703

## 13952	40.79558	-73.96242	1	0.609660619
## 13953	40.86439	-73.92302	1	-0.942316878
## 13955	40.78239	-73.98156	2	0.292210676
## 13957	40.72280	-74.00644	2	2.584904706
## 13958	40.76463	-73.98562	1	0.068819976
## 13960	40.80978	-73.94408	3	1.232803099
## 13962	40.76747	-73.98620	1	-0.060511482
## 13963	40.76538	-73.98293	1	0.233423650
## 13965	40.76375	-73.96667	2	0.409784729
## 13967	40.78936	-73.94918	1	-0.989346499
## 13968	40.74383	-73.97798	2	4.336758093
## 13970	40.72077	-73.98427	1	-0.413233640
## 13972	40.83354	-73.94203	2	-0.119298508
## 13973	40.76243	-73.99805	2	1.985277037
## 13975	40.73062	-73.99981	1	0.809536509
## 13977	40.74472	-73.97205	2	0.550873593
## 13978	40.85220	-73.93456	2	-0.354446614
## 13980	40.83950	-73.94156	1	-0.765955799
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## 13985	40.79820	-73.97063	2	0.233423650
## 13987	40.72873	-73.98759	2	3.149260160
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## 13993	40.77640	-73.98236	1	-0.530807693
## 13995	40.76276	-73.98932	3	-0.765955799
## 13997	40.75374	-73.99517	1	-0.707168773
## 13998	40.75407	-73.99528	1	-0.354446614
## 14000	40.73579	-73.98636	2	-0.236872561
## 14002	40.76770	-73.95476	3	-0.707168773
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## 14005	40.79613	-73.96468	1	-0.389718830
## 14007	40.75391	-73.99709	1	-0.801228015
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## 14010	40.82414	-73.95139	1	-0.765955799
## 14012	40.70819	-74.00662	2	0.821293914
## 14013	40.79461	-73.94111	1	-0.472020667
## 14015	40.73748	-73.98354	2	0.821293914
## 14017	40.81371	-73.95242	1	-0.589594720
## 14018	40.79874	-73.96649	2	1.056442020
## 14020	40.78133	-73.95198	2	1.056442020
## 14022	40.74016	-73.99902	2	0.809536509
## 14023	40.82913	-73.94718	1	-0.883529852
## 14025	40.72930	-73.98325	1	-0.413233640
## 14027	40.70626	-74.00565	2	0.433299540
## 14028	40.82823	-73.93925	1	-1.001103905
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## 14032	40.70724	-74.00510	2	0.398027324
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## 14037	40.72727	-73.98272	2	0.339240298
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## 14040	40.81290	-73.94084	2	-0.366204019

## 14042	40.72331	-73.98424	1	0.221666245
## 14043	40.81279	-73.95208	1	-0.589594720
## 14045	40.79059	-73.94332	1	-0.942316878
## 14047	40.75393	-73.99558	1	-0.883529852
## 14048	40.75554	-73.99702	1	-0.895287257
## 14050	40.72626	-73.98824	1	0.115849597
## 14052	40.76578	-73.98383	2	4.336758093
## 14053	40.78175	-73.94797	1	-0.225115156
## 14055	40.75437	-73.99640	1	0.233423650
## 14057	40.71826	-73.99079	2	1.174016072
## 14058	40.73260	-73.98681	2	0.821293914
## 14060	40.75396	-73.99684	1	-0.824742825
## 14062	40.73612	-74.00591	2	0.762506888
## 14063	40.84782	-73.93954	1	-0.530807693
## 14065	40.75396	-73.99571	1	-0.354446614
## 14067	40.80549	-73.95129	1	-0.554322504
## 14068	40.71463	-73.99216	1	-0.354446614
## 14070	40.75545	-73.99556	1	-0.801228015
## 14072	40.71471	-73.99514	1	-0.354446614
## 14073	40.71457	-73.99580	1	-0.095783698
## 14075	40.71400	-73.99571	1	-0.472020667
## 14077	40.72580	-74.00150	1	-1.001103905
## 14078	40.72748	-73.97950	2	0.350997703
## 14080	40.76519	-73.98939	3	-0.718926178
## 14082	40.77655	-73.94651	1	-0.883529852
## 14083	40.72585	-73.97967	1	-0.765955799
## 14085	40.79788	-73.93265	2	0.350997703
## 14087	40.76582	-73.98409	2	0.762506888
## 14088	40.79822	-73.93468	1	-0.707168773
## 14090	40.78140	-73.95541	2	-0.119298508
## 14092	40.81205	-73.94309	1	-1.153950173
## 14093	40.83373	-73.94182	1	-0.495535477
## 14095	40.78029	-73.95252	2	-0.060511482
## 14097	40.71306	-74.00569	2	0.233423650
## 14098	40.81338	-73.96042	1	-0.707168773
## 14100	40.75574	-73.99723	1	0.045305165
## 14102	40.81313	-73.96148	1	-0.648381746
## 14103	40.76201	-73.99876	1	0.233423650
## 14105	40.81860	-73.94348	1	-0.236872561
## 14107	40.75704	-73.96531	1	-0.354446614
## 14108	40.71785	-74.00549	2	1.703099310
## 14110	40.74468	-73.97335	2	0.691962456
## 14112	40.72788	-74.00301	1	-0.013481861
## 14113	40.72580	-73.99969	1	-0.131055914
## 14115	40.84002	-73.94384	3	-1.059890931
## 14117	40.75058	-73.97746	2	0.821293914
## 14118	40.82967	-73.94851	1	-0.765955799
## 14120	40.79019	-73.94839	1	0.703719861
## 14122	40.73338	-74.00314	2	0.586145808
## 14123	40.75854	-73.98988	1	-1.118677957
## 14125	40.71026	-73.98738	1	-0.589594720
## 14127	40.77772	-73.94822	2	0.057062571
## 14128	40.80180	-73.96264	1	-0.178085535
## 14130	40.76182	-73.96190	2	0.762506888

## 14132	40.80352	-73.95212	1	-0.248629967
## 14133	40.82961	-73.94525	1	-1.001103905
## 14135	40.77727	-73.94588	2	-0.178085535
## 14137	40.77045	-73.95680	2	-0.060511482
## 14138	40.82567	-73.95261	1	-0.707168773
## 14140	40.84813	-73.94349	1	-0.883529852
## 14142	40.85612	-73.92888	1	0.997654993
## 14143	40.81187	-73.95393	2	1.985277037
## 14145	40.72935	-74.00156	2	1.056442020
## 14147	40.71852	-73.99803	2	0.821293914
## 14148	40.73177	-73.99936	2	-0.472020667
## 14150	40.83799	-73.94036	1	-0.942316878
## 14152	40.85811	-73.92921	2	-0.472020667
## 14153	40.76018	-73.96080	2	-0.154570724
## 14155	40.76279	-73.96266	1	-0.060511482
## 14157	40.76591	-73.97886	2	2.385028816
## 14158	40.72814	-73.98665	1	1.409164178
## 14160	40.71857	-73.98867	1	-0.648381746
## 14162	40.77844	-73.94728	2	-0.060511482
## 14163	40.80135	-73.96643	2	0.574388403
## 14165	40.72455	-73.98418	2	0.821293914
## 14167	40.82314	-73.94245	1	-0.389718830
## 14168	40.78721	-73.97015	2	2.584904706
## 14170	40.72918	-74.00482	1	0.927110562
## 14172	40.82252	-73.94858	1	-0.060511482
## 14173	40.78883	-73.98068	1	-0.472020667
## 14175	40.79608	-73.93335	2	2.584904706
## 14177	40.73867	-74.00383	2	1.997034442
## 14178	40.82291	-73.95612	1	-0.942316878
## 14180	40.84367	-73.93566	1	-0.836500231
## 14182	40.74441	-74.00385	2	2.584904706
## 14183	40.73986	-73.98630	2	2.573147301
## 14185	40.74036	-73.97929	2	-0.530807693
## 14187	40.78052	-73.97567	1	-0.248629967
## 14188	40.81217	-73.94406	1	-0.918802068
## 14190	40.72848	-74.00120	2	0.821293914
## 14192	40.71650	-73.99107	1	-0.472020667
## 14193	40.80372	-73.95266	1	-0.566079909
## 14195	40.77816	-73.95410	1	-0.413233640
## 14197	40.79580	-73.97163	1	-0.718926178
## 14198	40.75587	-73.99724	1	-0.765955799
## 14200	40.74914	-73.98779	2	2.584904706
## 14202	40.72204	-73.98151	1	-0.472020667
## 14203	40.82299	-73.95461	2	0.821293914
## 14205	40.77130	-73.95568	2	0.691962456
## 14207	40.74969	-73.97740	2	0.821293914
## 14208	40.75120	-73.97738	2	0.527358782
## 14210	40.75544	-73.99721	1	-0.777713204
## 14212	40.76418	-73.99448	1	-0.707168773
## 14213	40.76473	-73.95623	1	-0.589594720
## 14215	40.76718	-73.98574	1	-0.330931804
## 14217	40.73026	-74.00392	2	0.821293914
## 14218	40.75110	-73.97103	2	0.468571756
## 14220	40.70512	-74.01097	2	0.821293914

## 14222 40.72814 -73.98296	2 0.010032950
## 14223 40.72362 -74.00530	2 3.466710102
## 14225 40.76505 -73.95824	1 -0.530807693
## 14227 40.80715 -73.95301	1 -0.213357751
## 14228 40.76039 -73.96504	2 0.104092192
## 14230 40.79827 -73.97231	1 -0.472020667
## 14232 40.79838 -73.97076	1 1.291590125
## 14233 40.70563 -74.01106	2 0.010032950
## 14235 40.81264 -73.94231	1 -0.824742825
## 14237 40.74419 -73.97186	2 0.668447645
## 14238 40.79801 -73.97403	2 3.172774970
## 14240 40.80036 -73.95433	1 -0.472020667
## 14242 40.76321 -73.95830	2 -0.366204019
## 14243 40.80898 -73.94591	2 1.938247416
## 14245 40.76436 -73.95672	3 -0.648381746
## 14247 40.78135 -73.95194	1 -0.354446614
## 14248 40.76502 -73.98839	2 2.808295407
## 14250 40.70722 -74.00873	2 1.044684614
## 14252 40.74561 -74.00205	2 1.409164178
## 14253 40.76389 -73.98710	3 -0.589594720
## 14255 40.79890 -73.96042	1 0.233423650
## 14257 40.75016 -73.96925	2 0.527358782
## 14258 40.85068 -73.93720	2 -0.765955799
## 14260 40.76071 -73.96062	2 0.468571756
## 14262 40.85221 -73.93916	1 -0.389718830
## 14263 40.76776 -73.95214	2 1.056442020
## 14265 40.74897 -73.98642	1 -0.119298508
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## 14268 40.79778 -73.93921	1 -0.589594720
## 14270 40.74240 -73.98370	2 1.056442020
## 14272 40.70494 -74.00806	1 0.233423650
## 14273 40.84911 -73.93097	1 -0.836500231
## 14275 40.77511 -73.99005	2 1.938247416
## 14277 40.76570 -73.98075	2 3.172774970
## 14278 40.79486 -73.94038	1 -0.589594720
## 14280 40.70989 -74.00813	1 -0.530807693
## 14282 40.81310 -73.94459	1 -0.742440988
## 14283 40.81493 -73.94403	1 -0.718926178
## 14285 40.78351 -73.94709	1 -0.648381746
## 14287 40.82154 -73.94925	2 0.057062571
## 14288 40.82081 -73.95474	1 -0.848257636
## 14290 40.75510 -73.99556	1 -0.366204019
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## 14293 40.74891 -73.97719	2 0.821293914
## 14295 40.78875 -73.94760	1 -0.530807693
## 14297 40.77860 -73.97578	2 2.584904706
## 14298 40.81857 -73.94020	2 -0.354446614
## 14300 40.72182 -74.00255	2 3.760645234
## 14302 40.78978 -73.94138	2 -0.472020667
## 14303 40.75954 -73.96022	2 1.409164178
## 14305 40.81932 -73.95765	1 -0.883529852
## 14307 40.84918 -73.93775	1 -0.707168773
## 14308 40.80718 -73.94907	2 -0.589594720
## 14310 40.75468 -73.96563	2 0.586145808

## 14312	40.72777	-73.98568	1	-0.366204019
## 14313	40.80720	-73.94313	1	0.221666245
## 14315	40.75564	-73.99564	1	-0.765955799
## 14317	40.79392	-73.97288	2	-0.131055914
## 14318	40.79560	-73.96702	2	0.821293914
## 14320	40.76258	-73.96252	1	0.233423650
## 14322	40.76322	-73.99253	2	1.820673363
## 14323	40.75386	-73.99562	1	-0.883529852
## 14325	40.86755	-73.92870	1	-0.060511482
## 14327	40.74417	-73.97206	2	0.691962456
## 14328	40.70362	-74.00804	2	0.703719861
## 14330	40.70376	-74.00833	2	0.668447645
## 14332	40.74154	-73.99527	2	1.409164178
## 14333	40.74450	-73.97222	2	0.468571756
## 14335	40.75486	-73.97252	1	-0.060511482
## 14337	40.76117	-73.99169	1	-0.589594720
## 14338	40.73036	-73.99358	2	1.056442020
## 14340	40.75934	-73.98755	1	-0.530807693
## 14342	40.72051	-73.98777	1	-0.718926178
## 14343	40.71515	-73.99827	1	-0.366204019
## 14345	40.72135	-73.98391	2	0.821293914
## 14347	40.80624	-73.96340	1	-0.472020667
## 14348	40.72634	-73.97625	1	0.104092192
## 14350	40.72003	-73.98928	2	0.586145808
## 14352	40.81581	-73.94142	2	0.233423650
## 14353	40.73524	-73.99259	2	1.115229046
## 14355	40.77669	-73.95283	1	1.985277037
## 14357	40.75524	-73.99362	2	-0.366204019
## 14358	40.76506	-73.94662	1	-0.366204019
## 14360	40.78280	-73.98348	2	-0.142813319
## 14362	40.75945	-73.99344	1	1.409164178
## 14363	40.84360	-73.94120	2	-0.060511482
## 14365	40.77537	-73.95556	2	-0.119298508
## 14367	40.85515	-73.93297	2	1.409164178
## 14368	40.74259	-73.99589	2	1.397406773
## 14370	40.74624	-73.98255	2	3.937006314
## 14372	40.80455	-73.95429	2	-0.119298508
## 14373	40.72436	-73.98235	2	0.809536509
## 14375	40.86735	-73.91762	1	-0.907044662
## 14377	40.76138	-73.99945	2	0.703719861
## 14378	40.77673	-73.95525	1	0.151121813
## 14380	40.72366	-73.99030	2	1.985277037
## 14382	40.74573	-73.98323	1	-0.472020667
## 14383	40.74348	-73.97962	2	0.233423650
## 14385	40.80060	-73.96407	1	-0.636624341
## 14387	40.81657	-73.93849	2	1.409164178
## 14388	40.79976	-73.95119	1	-0.718926178
## 14390	40.81694	-73.93909	1	0.233423650
## 14392	40.80269	-73.94687	2	1.997034442
## 14393	40.79978	-73.96295	1	-0.918802068
## 14395	40.82763	-73.94404	1	-0.789470609
## 14397	40.80367	-73.94803	1	-0.472020667
## 14398	40.83958	-73.94596	2	-0.236872561
## 14400	40.79577	-73.97403	1	-0.754198394

## 14402	40.86159	-73.92616	2	-0.354446614
## 14403	40.71106	-74.01570	2	-0.460263262
## 14405	40.71769	-73.99148	2	1.079956830
## 14407	40.75369	-73.99719	1	-0.942316878
## 14408	40.71509	-73.99986	1	-0.354446614
## 14410	40.76860	-73.98951	2	-0.001724456
## 14412	40.85116	-73.93457	2	-0.472020667
## 14413	40.78369	-73.95154	1	-0.119298508
## 14415	40.78394	-73.95137	1	-0.236872561
## 14417	40.72160	-73.98791	1	-0.577837314
## 14418	40.80494	-73.96426	2	-0.413233640
## 14420	40.75492	-73.99563	1	-0.589594720
## 14422	40.80180	-73.94130	2	-0.119298508
## 14423	40.70496	-74.00639	2	-0.025239266
## 14425	40.79782	-73.97179	2	0.762506888
## 14427	40.72382	-73.97683	1	-0.236872561
## 14428	40.71765	-73.99457	2	0.280453271
## 14430	40.74330	-74.00119	2	1.644312284
## 14432	40.80705	-73.95582	1	-0.589594720
## 14433	40.73714	-73.97962	2	0.691962456
## 14435	40.74107	-73.98693	1	0.574388403
## 14437	40.73865	-74.00662	2	4.230941446
## 14438	40.80045	-73.95166	1	-0.354446614
## 14440	40.80626	-73.95268	2	2.526117680
## 14442	40.76448	-73.97907	1	-0.707168773
## 14443	40.73132	-74.00429	2	0.821293914
## 14445	40.72493	-73.97571	1	-0.060511482
## 14447	40.72341	-73.99426	1	-0.119298508
## 14448	40.75998	-73.98952	1	-0.236872561
## 14450	40.76010	-73.99166	1	-0.178085535
## 14452	40.78620	-73.98089	2	-0.131055914
## 14453	40.73830	-74.00131	2	2.290969574
## 14455	40.72541	-73.98398	2	0.515601377
## 14457	40.82740	-73.95215	2	-0.330931804
## 14458	40.75570	-73.99668	1	-0.942316878
## 14460	40.74952	-73.97130	2	0.315725487
## 14462	40.72573	-73.98377	1	-0.495535477
## 14463	40.72720	-73.98186	1	-0.871772446
## 14465	40.72259	-73.99399	1	-0.542565099
## 14467	40.76475	-73.99320	1	1.338619746
## 14468	40.76085	-73.96627	2	0.586145808
## 14470	40.74281	-73.99595	2	1.409164178
## 14472	40.74285	-73.99395	2	-0.718926178
## 14473	40.83235	-73.94117	2	-0.401476235
## 14475	40.81747	-73.95249	1	-0.918802068
## 14477	40.76639	-73.95817	3	0.233423650
## 14478	40.81381	-73.94549	2	-0.060511482
## 14480	40.75987	-73.98600	2	2.878839838
## 14482	40.80527	-73.95106	1	-0.472020667
## 14483	40.72838	-73.97926	2	1.526738231
## 14485	40.73746	-74.00456	2	2.584904706
## 14487	40.73269	-73.98833	1	-0.225115156
## 14488	40.82750	-73.94323	1	-0.824742825
## 14490	40.75566	-73.99917	2	0.821293914

## 14492	40.76943	-73.95971	1	-0.566079909
## 14493	40.74443	-74.00290	2	1.997034442
## 14495	40.79969	-73.96350	2	0.233423650
## 14497	40.81657	-73.94262	1	-1.142192768
## 14498	40.75964	-73.98731	1	-0.354446614
## 14500	40.72696	-73.98110	2	1.997034442
## 14502	40.73162	-74.00228	2	1.997034442
## 14503	40.75518	-73.99706	1	-1.001103905
## 14505	40.71194	-73.97792	1	-0.589594720
## 14507	40.76339	-73.98866	1	0.233423650
## 14508	40.77076	-73.94757	2	-0.060511482
## 14510	40.83136	-73.94299	1	-0.765955799
## 14512	40.71857	-73.98973	1	-0.660139151
## 14513	40.73502	-73.98600	2	-0.060511482
## 14515	40.78981	-73.96970	2	1.703099310
## 14517	40.79485	-73.97550	2	0.186394029
## 14518	40.73968	-73.99746	1	0.233423650
## 14520	40.75003	-73.99589	2	1.409164178
## 14522	40.76717	-73.98614	2	0.644932835
## 14523	40.82237	-73.94001	2	-0.307416993
## 14525	40.76782	-73.98351	2	1.409164178
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## 14535	40.76092	-73.99220	1	0.586145808
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## 14538	40.74158	-73.99585	2	1.350377152
## 14540	40.82226	-73.95569	1	-0.801228015
## 14542	40.76456	-73.98818	3	-0.648381746
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## 14545	40.85419	-73.93013	2	0.115849597
## 14547	40.86203	-73.93037	2	-0.695411367
## 14548	40.76476	-73.97511	2	3.113987944
## 14550	40.71389	-74.00484	2	0.809536509
## 14552	40.75762	-73.98486	2	2.290969574
## 14553	40.79371	-73.93995	2	-0.354446614
## 14555	40.72769	-73.98498	1	0.233423650
## 14557	40.79908	-73.96215	1	-0.507292883
## 14558	40.72674	-73.99673	2	0.821293914
## 14560	40.79473	-73.96744	2	2.584904706
## 14562	40.85671	-73.93011	3	-1.059890931
## 14563	40.777997	-73.95214	2	-0.366204019
## 14565	40.777977	-73.95757	3	-0.178085535
## 14567	40.78802	-73.97253	2	1.409164178
## 14568	40.73666	-73.99851	1	-0.836500231
## 14570	40.73411	-73.98289	1	0.809536509
## 14572	40.73237	-73.99344	1	0.821293914
## 14573	40.73264	-74.00620	2	1.703099310
## 14575	40.80203	-73.93885	3	-0.824742825
## 14577	40.80233	-73.96742	2	2.584904706
## 14578	40.74217	-73.99649	2	-0.377961425
## 14580	40.80714	-73.93747	1	-0.589594720

## 14582	40.75316	-73.97241	2	3.760645234
## 14583	40.81561	-73.93692	2	-0.001724456
## 14585	40.74309	-73.99535	1	-0.178085535
## 14587	40.73144	-74.00523	2	1.409164178
## 14588	40.72327	-73.98105	1	0.350997703
## 14590	40.76668	-73.99656	2	0.057062571
## 14592	40.83668	-73.94476	1	-1.095163147
## 14593	40.74585	-73.98237	1	-0.354446614
## 14595	40.75546	-73.98086	2	0.821293914
## 14597	40.77648	-73.95428	2	0.997654993
## 14598	40.72338	-73.98346	2	-0.354446614
## 14600	40.86945	-73.92123	2	-0.283902182
## 14602	40.80603	-73.94114	2	1.703099310
## 14603	40.71936	-73.99229	2	0.080577381
## 14605	40.81830	-73.93828	1	-0.918802068
## 14607	40.74708	-73.99131	2	0.292210676
## 14608	40.80600	-73.94082	1	-0.472020667
## 14610	40.75019	-73.97045	2	1.115229046
## 14612	40.75237	-73.97040	2	0.703719861
## 14613	40.76795	-73.98432	2	0.409784729
## 14615	40.74756	-73.99072	1	0.409784729
## 14617	40.80136	-73.95158	2	-0.354446614
## 14618	40.73399	-74.00357	2	-0.483778072
## 14620	40.74462	-74.00130	2	1.174016072
## 14622	40.777979	-73.95297	2	-0.025239266
## 14623	40.74832	-73.98423	1	-0.589594720
## 14625	40.72970	-73.98552	2	1.409164178
## 14627	40.78306	-73.94524	2	0.233423650
## 14628	40.80279	-73.96325	1	-0.824742825
## 14630	40.78461	-73.98078	2	0.527358782
## 14632	40.74312	-73.99573	2	0.221666245
## 14633	40.777847	-73.94962	2	0.198151434
## 14635	40.73495	-74.00033	2	4.148639609
## 14637	40.76701	-73.98174	2	1.115229046
## 14638	40.76194	-73.99824	2	3.760645234
## 14640	40.75457	-73.96248	2	2.702478759
## 14642	40.73863	-73.98002	2	0.938867967
## 14643	40.75994	-73.98673	2	1.115229046
## 14645	40.82244	-73.94994	2	0.762506888
## 14647	40.81308	-73.95993	1	-1.001103905
## 14648	40.777168	-73.95393	2	0.115849597
## 14650	40.82958	-73.94184	1	-0.589594720
## 14652	40.78319	-73.95440	2	-0.119298508
## 14653	40.777290	-73.95761	1	-0.119298508
## 14655	40.73394	-74.00175	2	0.821293914
## 14657	40.75424	-73.96312	2	0.821293914
## 14658	40.75909	-73.96398	2	0.280453271
## 14660	40.74075	-73.97674	2	-0.519050288
## 14662	40.76243	-73.99078	1	-0.413233640
## 14663	40.86813	-73.92393	1	-0.942316878
## 14665	40.80765	-73.95484	2	-0.213357751
## 14667	40.72817	-73.97730	1	-0.577837314
## 14668	40.75375	-73.96362	2	2.584904706
## 14670	40.76037	-73.99170	1	-0.236872561

## 14672	40.76629	-73.98600	2	1.244560504
## 14673	40.75981	-73.99011	1	-0.295659588
## 14675	40.73214	-74.00531	2	-0.119298508
## 14677	40.73508	-73.98477	2	-0.142813319
## 14678	40.72701	-73.97909	1	-0.942316878
## 14680	40.72159	-73.99620	2	1.056442020
## 14682	40.80870	-73.93897	1	-0.472020667
## 14683	40.74688	-73.97342	2	0.586145808
## 14685	40.77320	-73.95029	2	2.467330653
## 14687	40.77964	-73.95865	2	0.668447645
## 14688	40.71927	-73.99451	2	0.115849597
## 14690	40.82209	-73.95423	1	-0.354446614
## 14692	40.72071	-73.97822	1	-0.883529852
## 14693	40.82469	-73.94176	2	-0.119298508
## 14695	40.86912	-73.92183	2	0.762506888
## 14697	40.75313	-74.00235	1	-0.119298508
## 14698	40.77134	-73.95498	2	2.584904706
## 14700	40.72875	-73.98443	1	-0.377961425
## 14702	40.77687	-73.95173	2	0.821293914
## 14703	40.72191	-73.99592	2	1.997034442
## 14705	40.81968	-73.94360	1	-0.472020667
## 14707	40.81968	-73.93858	1	-1.059890931
## 14708	40.72239	-73.98210	1	-0.589594720
## 14710	40.74083	-73.99457	2	0.927110562
## 14712	40.74272	-73.99599	2	0.844808725
## 14713	40.74803	-73.98666	2	1.844188174
## 14715	40.74820	-73.98776	2	1.844188174
## 14717	40.74295	-73.97177	2	0.668447645
## 14718	40.74416	-73.97270	2	0.527358782
## 14720	40.76335	-73.98737	1	0.233423650
## 14722	40.76634	-73.98155	2	2.232182548
## 14723	40.76541	-73.98179	2	4.289728472
## 14725	40.75975	-73.98698	2	3.995793340
## 14727	40.76181	-73.99855	2	2.584904706
## 14728	40.75250	-73.96683	2	0.821293914
## 14730	40.77900	-73.98319	2	0.821293914
## 14732	40.77370	-73.99027	1	-0.366204019
## 14733	40.777071	-73.98545	2	1.174016072
## 14735	40.76711	-73.98685	2	1.409164178
## 14737	40.73223	-73.98658	2	1.444436394
## 14738	40.75969	-73.96071	2	0.233423650
## 14740	40.70856	-74.00659	2	0.057062571
## 14742	40.73182	-73.98158	1	-0.354446614
## 14743	40.72935	-73.99054	2	1.409164178
## 14745	40.71796	-73.98445	2	1.126986451
## 14747	40.76529	-73.95771	1	-0.366204019
## 14748	40.75607	-73.99410	2	0.821293914
## 14750	40.80700	-73.93976	2	3.172774970
## 14752	40.79232	-73.94156	1	-0.530807693
## 14753	40.80930	-73.93747	3	1.056442020
## 14755	40.79026	-73.97304	2	0.527358782
## 14757	40.73967	-73.98171	2	0.350997703
## 14758	40.80329	-73.95700	2	-0.048754077
## 14760	40.79505	-73.93126	2	0.809536509

## 14762	40.79713	-73.94100	1	-0.589594720
## 14763	40.80804	-73.95373	2	0.762506888
## 14765	40.79285	-73.96760	2	1.573767852
## 14767	40.80026	-73.94398	1	-0.648381746
## 14768	40.73495	-74.00402	2	0.703719861
## 14770	40.71709	-73.99746	2	0.586145808
## 14772	40.79917	-73.93716	1	-0.225115156
## 14773	40.82287	-73.95394	1	0.233423650
## 14775	40.76389	-73.96808	2	0.057062571
## 14777	40.75135	-73.97197	2	-0.119298508
## 14778	40.71793	-74.00594	2	0.350997703
## 14780	40.73569	-73.98097	2	0.350997703
## 14782	40.81382	-73.95939	1	-0.354446614
## 14783	40.80734	-73.94201	2	1.879460389
## 14785	40.79287	-73.97333	2	0.233423650
## 14787	40.75478	-73.99604	1	-0.354446614
## 14788	40.82167	-73.94726	2	0.527358782
## 14790	40.74440	-73.99604	2	1.291590125
## 14792	40.73052	-73.98277	2	3.760645234
## 14793	40.71579	-73.99285	1	-0.001724456
## 14795	40.73047	-73.98048	1	-0.554322504
## 14797	40.70514	-74.00914	2	0.339240298
## 14798	40.78051	-73.94809	2	0.350997703
## 14800	40.74755	-74.00317	1	-0.624866936
## 14802	40.76450	-73.98788	2	1.820673363
## 14803	40.71843	-73.99817	2	-0.072268887
## 14805	40.76337	-73.98730	2	0.339240298
## 14807	40.72205	-73.99699	2	1.409164178
## 14808	40.73485	-74.00313	2	0.680205051
## 14810	40.79574	-73.94684	1	-0.530807693
## 14812	40.71591	-73.99721	2	-0.060511482
## 14813	40.75953	-73.98938	2	0.245181055
## 14815	40.75526	-73.99719	1	-0.883529852
## 14817	40.74554	-74.00595	2	0.233423650
## 14818	40.77742	-73.94687	1	-0.707168773
## 14820	40.73021	-74.00091	1	-0.225115156
## 14822	40.82789	-73.93812	1	-0.824742825
## 14823	40.85199	-73.93701	1	-0.472020667
## 14825	40.78488	-73.97325	2	0.139364408
## 14827	40.74104	-73.98134	2	0.233423650
## 14828	40.80226	-73.93583	2	0.527358782
## 14830	40.75361	-73.97202	2	2.455573248
## 14832	40.75255	-74.00118	2	2.584904706
## 14833	40.78117	-73.95688	1	-0.295659588
## 14835	40.80310	-73.95654	1	-0.601352125
## 14837	40.79836	-73.94272	1	-0.954074283
## 14838	40.73578	-73.99682	2	1.997034442
## 14840	40.73928	-73.98638	1	-0.013481861
## 14842	40.74912	-73.99739	2	-0.436748451
## 14843	40.79666	-73.97334	2	1.056442020
## 14845	40.86139	-73.92744	1	-0.824742825
## 14847	40.85268	-73.92716	2	-0.413233640
## 14848	40.81162	-73.95199	2	2.584904706
## 14850	40.78549	-73.94895	2	0.821293914

## 14852	40.78497	-73.95201	2	0.233423650
## 14853	40.77713	-73.95309	2	-0.413233640
## 14855	40.73801	-73.98815	2	3.172774970
## 14857	40.72159	-73.98959	2	0.786021698
## 14858	40.81915	-73.94250	2	-0.213357751
## 14860	40.78837	-73.96821	2	1.350377152
## 14862	40.73639	-73.99318	1	0.821293914
## 14863	40.76384	-73.98822	2	2.925869459
## 14865	40.81493	-73.93953	2	0.527358782
## 14867	40.73215	-73.98660	2	1.115229046
## 14868	40.81540	-73.94677	2	0.527358782
## 14870	40.77943	-73.95456	3	-0.472020667
## 14872	40.75453	-73.96841	1	-0.119298508
## 14873	40.71714	-73.99815	1	-0.589594720
## 14875	40.76066	-73.96397	2	0.233423650
## 14877	40.72658	-73.97753	2	0.327482892
## 14878	40.81658	-73.93994	2	0.233423650
## 14880	40.74462	-73.97838	2	0.668447645
## 14882	40.82005	-73.93949	1	-0.765955799
## 14883	40.72194	-73.99557	1	-0.119298508
## 14885	40.78348	-73.98383	2	0.209908839
## 14887	40.71586	-73.98908	2	0.821293914
## 14888	40.82862	-73.93832	2	-0.530807693
## 14890	40.80147	-73.94432	2	1.703099310
## 14892	40.78954	-73.95076	1	-0.236872561
## 14893	40.72264	-73.99120	2	0.233423650
## 14895	40.73397	-74.00168	2	0.703719861
## 14897	40.76209	-73.99875	2	1.997034442
## 14898	40.80033	-73.94201	3	-0.954074283
## 14900	40.75658	-73.99568	1	-0.354446614
## 14902	40.75611	-73.99370	2	0.586145808
## 14903	40.76938	-73.95212	2	1.997034442
## 14905	40.79709	-73.93586	1	-0.812985420
## 14907	40.74264	-73.98361	2	0.809536509
## 14908	40.73202	-74.00348	1	0.233423650
## 14910	40.73223	-74.00499	2	1.879460389
## 14912	40.74858	-73.98341	3	-0.801228015
## 14913	40.73384	-74.00011	2	0.527358782
## 14915	40.76315	-73.99235	2	0.821293914
## 14917	40.76398	-73.99087	2	1.409164178
## 14918	40.74752	-73.98679	2	0.115849597
## 14920	40.74631	-73.98502	1	0.174636624
## 14922	40.74690	-73.98438	2	1.279832720
## 14923	40.74681	-73.98488	2	1.279832720
## 14925	40.80597	-73.95348	2	0.821293914
## 14927	40.79873	-73.94052	3	-0.954074283
## 14928	40.79900	-73.94107	3	-0.954074283
## 14930	40.76856	-73.95367	2	0.233423650
## 14932	40.74186	-73.99769	3	-0.530807693
## 14933	40.74705	-73.98268	2	1.279832720
## 14935	40.74658	-73.98298	2	1.750128931
## 14937	40.75452	-73.96256	2	1.279832720
## 14938	40.79409	-73.94007	1	0.233423650
## 14940	40.83341	-73.94154	2	1.409164178

## 14942	40.73213	-74.00865	1	-0.354446614
## 14943	40.80913	-73.94614	1	-1.001103905
## 14945	40.75497	-73.96289	2	0.868323535
## 14947	40.70788	-74.00459	2	0.633175430
## 14948	40.83005	-73.93992	2	-0.131055914
## 14950	40.70797	-74.00550	2	1.350377152
## 14952	40.82280	-73.94442	1	-0.636624341
## 14953	40.73641	-73.99929	2	1.409164178
## 14955	40.73918	-73.99753	2	0.586145808
## 14957	40.72307	-73.98369	2	0.809536509
## 14958	40.75216	-73.97172	2	1.997034442
## 14960	40.71310	-74.00527	2	-0.707168773
## 14962	40.76043	-73.97075	1	0.233423650
## 14963	40.72099	-73.99921	1	-0.354446614
## 14965	40.75710	-73.98014	1	-0.413233640
## 14967	40.76399	-73.98077	1	0.104092192
## 14968	40.74186	-74.00372	2	0.586145808
## 14970	40.72957	-73.97715	2	0.691962456
## 14972	40.79372	-73.97431	2	0.115849597
## 14973	40.76292	-73.99219	2	2.584904706
## 14975	40.73340	-74.00323	2	0.586145808
## 14977	40.81010	-73.94453	2	1.115229046
## 14978	40.82996	-73.94714	1	-0.472020667
## 14980	40.75537	-73.99500	1	-0.895287257
## 14982	40.77041	-73.96109	2	1.997034442
## 14983	40.76383	-73.98922	2	1.761886337
## 14985	40.71409	-73.99575	2	0.057062571
## 14987	40.73086	-74.00498	1	-0.001724456
## 14988	40.71392	-74.00754	1	0.821293914
## 14990	40.75991	-73.96105	2	0.350997703
## 14992	40.76261	-73.99143	2	1.997034442
## 14993	40.76168	-74.00079	2	1.115229046
## 14995	40.76511	-73.98714	2	3.102230539
## 14997	40.76030	-73.98822	1	0.221666245
## 14998	40.73723	-74.00845	2	0.985897588
## 15000	40.86524	-73.92195	1	-1.001103905
## 15002	40.79236	-73.94689	2	3.172774970
## 15003	40.74371	-73.97946	2	0.821293914
## 15005	40.73241	-74.00722	2	0.586145808
## 15007	40.72795	-73.97768	2	1.115229046
## 15008	40.73765	-74.00157	2	0.115849597
## 15010	40.74336	-73.97628	1	0.233423650
## 15012	40.84536	-73.93564	1	-0.683653962
## 15013	40.74404	-73.98263	2	1.409164178
## 15015	40.77936	-73.95180	2	0.527358782
## 15017	40.79422	-73.94421	2	-0.636624341
## 15018	40.73580	-73.98060	2	0.350997703
## 15020	40.78807	-73.93988	1	-0.366204019
## 15022	40.73011	-74.00198	2	0.468571756
## 15023	40.76325	-73.95893	1	-0.366204019
## 15025	40.77727	-73.97950	2	1.997034442
## 15027	40.75622	-73.99405	1	-0.354446614
## 15028	40.70402	-74.00964	1	0.233423650
## 15030	40.84521	-73.94160	1	-0.977589094

## 15032	40.71823	-73.98537	2	0.233423650
## 15033	40.85053	-73.93027	1	-0.707168773
## 15035	40.74769	-73.98850	2	0.821293914
## 15037	40.74517	-73.98924	1	-0.765955799
## 15038	40.78089	-73.98406	1	0.057062571
## 15040	40.81695	-73.94335	1	-0.601352125
## 15042	40.70427	-74.00964	2	1.820673363
## 15043	40.80313	-73.96745	1	-0.589594720
## 15045	40.74680	-73.98329	2	1.279832720
## 15047	40.70619	-74.00640	2	0.456814350
## 15048	40.85508	-73.92779	2	-0.236872561
## 15050	40.80375	-73.95501	2	0.821293914
## 15052	40.75759	-73.99006	1	-1.001103905
## 15053	40.79103	-73.97632	1	-0.601352125
## 15055	40.70611	-74.00626	2	1.985277037
## 15057	40.80656	-73.93709	1	-0.589594720
## 15058	40.76106	-73.98574	2	3.290349023
## 15060	40.73642	-73.99240	2	0.821293914
## 15062	40.79726	-73.93164	1	-0.754198394
## 15063	40.73039	-74.00208	1	0.115849597
## 15065	40.77006	-73.95589	1	0.233423650
## 15067	40.72244	-73.98194	2	-0.119298508
## 15068	40.73281	-74.00688	2	2.878839838
## 15070	40.79009	-73.94741	1	-0.389718830
## 15072	40.81084	-73.94482	2	1.115229046
## 15073	40.73087	-73.98631	2	1.467951205
## 15075	40.82175	-73.95109	1	-0.860015041
## 15077	40.80281	-73.94748	2	0.350997703
## 15078	40.72899	-73.98334	2	0.350997703
## 15080	40.79863	-73.93461	1	-0.413233640
## 15082	40.78932	-73.95343	1	0.233423650
## 15083	40.85295	-73.93595	2	1.409164178
## 15085	40.76557	-73.99174	1	-0.119298508
## 15087	40.76202	-73.99679	2	1.409164178
## 15088	40.78195	-73.97670	2	1.115229046
## 15090	40.79912	-73.97064	1	-0.413233640
## 15092	40.75534	-73.99668	1	-0.648381746
## 15093	40.77078	-73.98344	2	0.574388403
## 15095	40.72668	-74.00252	1	-0.354446614
## 15097	40.78315	-73.94693	2	0.809536509
## 15098	40.72387	-74.00423	2	1.397406773
## 15100	40.82380	-73.94794	2	0.174636624
## 15102	40.72177	-73.98898	2	1.997034442
## 15103	40.73314	-73.98380	1	-0.178085535
## 15105	40.81773	-73.94357	2	-0.648381746
## 15107	40.79706	-73.93473	2	1.409164178
## 15108	40.82761	-73.94192	1	-0.530807693
## 15110	40.72445	-73.97683	1	0.221666245
## 15112	40.73865	-73.97880	1	-0.001724456
## 15113	40.74830	-73.97360	1	-0.295659588
## 15115	40.80579	-73.95606	2	-0.178085535
## 15117	40.82302	-73.94259	2	1.056442020
## 15118	40.76671	-73.98413	1	-0.283902182
## 15120	40.78883	-73.96848	2	0.809536509

## 15122	40.79824	-73.94014	2	1.997034442
## 15123	40.80720	-73.94383	2	0.221666245
## 15125	40.76125	-73.99389	2	2.584904706
## 15127	40.71768	-73.99068	2	0.821293914
## 15128	40.82293	-73.94249	1	-0.589594720
## 15130	40.82240	-73.94136	1	-0.707168773
## 15132	40.75545	-73.99652	1	-0.119298508
## 15133	40.76646	-73.99132	2	1.632554878
## 15135	40.73142	-74.00275	2	1.997034442
## 15137	40.70438	-74.01708	2	1.562010447
## 15138	40.79993	-73.95485	1	-0.648381746
## 15140	40.74299	-73.99777	2	1.115229046
## 15142	40.70600	-74.00770	1	-0.178085535
## 15143	40.72774	-74.00326	1	0.057062571
## 15145	40.83385	-73.94013	2	0.691962456
## 15147	40.72803	-73.97961	1	-0.354446614
## 15148	40.74389	-73.98033	1	-0.119298508
## 15150	40.80094	-73.96163	2	0.586145808
## 15152	40.74360	-73.98122	2	0.409784729
## 15153	40.77619	-73.95325	1	-0.472020667
## 15155	40.72907	-73.98388	2	0.762506888
## 15157	40.74138	-73.99729	2	0.527358782
## 15158	40.72124	-73.99425	1	-0.730683583
## 15160	40.75952	-73.98368	2	-0.542565099
## 15162	40.80737	-73.95055	1	-0.707168773
## 15163	40.82332	-73.93979	1	-0.119298508
## 15165	40.73941	-73.99777	2	-0.236872561
## 15167	40.75224	-73.96526	2	3.748887829
## 15168	40.73659	-74.00495	2	2.290969574
## 15170	40.72749	-73.98994	2	1.409164178
## 15172	40.77878	-73.95694	1	-0.001724456
## 15173	40.777016	-73.95632	1	0.221666245
## 15175	40.74721	-73.97398	1	-0.354446614
## 15177	40.71821	-73.98914	2	1.115229046
## 15178	40.70999	-74.01100	1	0.574388403
## 15180	40.81249	-73.94957	2	2.290969574
## 15182	40.72615	-74.00325	2	1.820673363
## 15183	40.74040	-73.99485	2	0.821293914
## 15185	40.75417	-73.99578	1	-0.366204019
## 15187	40.74197	-73.98012	2	0.174636624
## 15188	40.81214	-73.96488	2	0.233423650
## 15190	40.78471	-73.97160	2	0.809536509
## 15192	40.71624	-73.99995	1	-0.354446614
## 15193	40.84241	-73.94087	2	-0.765955799
## 15195	40.777054	-73.99305	2	-0.389718830
## 15197	40.777953	-73.98421	2	-0.354446614
## 15198	40.72381	-74.00183	2	3.208047186
## 15200	40.777902	-73.98709	2	0.057062571
## 15202	40.76088	-73.98971	2	2.584904706
## 15203	40.76539	-73.98329	2	0.456814350
## 15205	40.76542	-73.98754	2	1.997034442
## 15207	40.76485	-73.98525	2	4.007550745
## 15208	40.82146	-73.94598	1	-0.942316878
## 15210	40.80212	-73.95732	1	-0.413233640

## 15212 40.74299 -73.99436	2 2.902354649
## 15213 40.74250 -73.99427	2 1.397406773
## 15215 40.80459 -73.95580	1 0.233423650
## 15217 40.82306 -73.94046	1 -0.707168773
## 15218 40.76309 -73.99154	1 -0.060511482
## 15220 40.78550 -73.97584	1 -0.377961425
## 15222 40.82195 -73.93680	2 1.409164178
## 15223 40.82445 -73.95218	1 0.821293914
## 15225 40.76435 -73.98750	2 0.809536509
## 15227 40.72977 -73.98529	1 -0.613109530
## 15228 40.79012 -73.96896	2 -0.036996671
## 15230 40.74716 -73.98454	2 1.115229046
## 15232 40.74536 -73.97506	1 2.643691733
## 15233 40.74584 -73.98474	2 1.256317909
## 15235 40.78581 -73.97179	2 0.409784729
## 15237 40.72707 -73.98530	2 1.291590125
## 15238 40.71638 -74.00419	1 -0.119298508
## 15240 40.76357 -73.98906	1 0.233423650
## 15242 40.74704 -73.97356	2 1.409164178
## 15243 40.76539 -73.99145	1 0.233423650
## 15245 40.76282 -73.98847	1 0.174636624
## 15247 40.80720 -73.94513	1 -0.883529852
## 15248 40.71120 -74.00940	2 0.927110562
## 15250 40.74971 -73.98682	2 -0.260387372
## 15252 40.79517 -73.97392	2 1.997034442
## 15253 40.77771 -73.98023	2 0.174636624
## 15255 40.75584 -73.99559	1 -0.119298508
## 15257 40.74894 -73.98673	2 0.468571756
## 15258 40.79368 -73.93492	1 -0.413233640
## 15260 40.71079 -73.99304	2 0.057062571
## 15262 40.77601 -73.95114	1 -0.472020667
## 15263 40.78285 -73.97487	2 0.821293914
## 15265 40.85428 -73.93204	2 0.691962456
## 15267 40.74040 -74.00497	1 -0.601352125
## 15268 40.81574 -73.94212	1 -1.071648336
## 15270 40.75499 -73.97121	1 2.349756601
## 15272 40.72615 -73.98905	1 0.115849597
## 15273 40.79695 -73.93560	2 1.703099310
## 15275 40.73113 -74.00831	1 1.938247416
## 15277 40.78781 -73.94549	1 -0.648381746
## 15278 40.74497 -74.00571	2 1.115229046
## 15280 40.70565 -74.00666	2 0.104092192
## 15282 40.81148 -73.95140	2 1.997034442
## 15283 40.76419 -73.98949	2 2.290969574
## 15285 40.72205 -74.00121	2 2.643691733
## 15287 40.82608 -73.94231	2 -0.366204019
## 15288 40.75729 -73.96807	3 -0.648381746
## 15290 40.74184 -74.00108	1 -0.460263262
## 15292 40.70815 -74.00438	2 0.809536509
## 15293 40.85104 -73.93979	1 -0.824742825
## 15295 40.80141 -73.93814	2 -0.648381746
## 15297 40.80774 -73.94939	1 -0.801228015
## 15298 40.76226 -73.98537	2 0.527358782
## 15300 40.74223 -73.98286	2 1.985277037

## 15302	40.71862	-73.99677	1	-0.178085535
## 15303	40.71064	-74.00754	2	0.644932835
## 15305	40.72615	-73.98477	2	-0.836500231
## 15307	40.73106	-74.00301	1	-0.060511482
## 15308	40.80839	-73.94375	2	0.821293914
## 15310	40.72370	-73.98514	1	-0.060511482
## 15312	40.72443	-73.98406	2	2.690721354
## 15313	40.73278	-73.99712	2	0.527358782
## 15315	40.72984	-73.98588	2	-0.060511482
## 15317	40.72925	-73.98459	2	0.233423650
## 15318	40.72608	-74.00336	2	2.584904706
## 15320	40.76831	-73.95629	1	0.221666245
## 15322	40.72277	-74.00464	2	1.703099310
## 15323	40.81511	-73.95998	2	0.115849597
## 15325	40.74670	-73.99335	2	1.855945579
## 15327	40.70417	-74.00928	1	-0.354446614
## 15328	40.85157	-73.93936	1	-0.824742825
## 15330	40.84578	-73.93902	2	-0.754198394
## 15332	40.73161	-74.00172	2	2.114608495
## 15333	40.70734	-74.00837	2	1.997034442
## 15335	40.80226	-73.93734	1	-0.554322504
## 15337	40.75396	-73.96559	2	2.937626865
## 15338	40.72396	-74.00393	1	0.527358782
## 15340	40.78689	-73.94500	1	-0.683653962
## 15342	40.81759	-73.93724	1	-0.707168773
## 15343	40.75896	-73.96251	2	1.232803099
## 15345	40.72699	-73.98548	1	0.104092192
## 15347	40.72957	-73.98723	1	-0.530807693
## 15348	40.75430	-73.99697	1	0.233423650
## 15350	40.72135	-73.99426	1	0.115849597
## 15352	40.76035	-73.96045	1	-0.589594720
## 15353	40.80702	-73.95334	2	1.644312284
## 15355	40.74952	-73.97089	2	2.690721354
## 15357	40.71795	-73.99708	1	0.644932835
## 15358	40.70545	-74.00840	1	-0.131055914
## 15360	40.74542	-74.00133	2	0.762506888
## 15362	40.75927	-73.99390	2	0.245181055
## 15363	40.72259	-73.98472	2	4.089852582
## 15365	40.72522	-73.97786	1	-0.530807693
## 15367	40.75378	-73.97156	1	2.584904706
## 15368	40.71614	-73.99085	2	1.409164178
## 15370	40.82365	-73.93786	2	-0.589594720
## 15372	40.74552	-74.00021	2	1.985277037
## 15373	40.80756	-73.94855	2	0.174636624
## 15375	40.72039	-73.99851	1	1.397406773
## 15377	40.76488	-73.98060	1	0.233423650
## 15378	40.71717	-73.99815	2	1.291590125
## 15380	40.75417	-73.96437	2	1.409164178
## 15382	40.72071	-73.98764	2	1.997034442
## 15383	40.84577	-73.93731	1	-0.707168773
## 15385	40.74400	-73.99721	1	-0.765955799
## 15387	40.82921	-73.93802	2	-0.060511482
## 15388	40.76892	-73.96321	2	0.350997703
## 15390	40.74822	-73.98730	2	1.291590125

## 15392	40.83912	-73.94327	1	0.115849597
## 15393	40.74463	-73.99230	2	0.821293914
## 15395	40.81664	-73.94267	1	0.233423650
## 15397	40.71938	-73.99448	2	-0.001724456
## 15398	40.75603	-73.99214	2	-0.060511482
## 15400	40.71447	-73.99737	1	-0.060511482
## 15402	40.71824	-73.99796	1	-0.413233640
## 15403	40.73199	-73.98857	1	-0.472020667
## 15405	40.79639	-73.96889	2	0.233423650
## 15407	40.80879	-73.94813	2	1.409164178
## 15408	40.82580	-73.95392	1	-0.119298508
## 15410	40.80771	-73.93853	1	-0.754198394
## 15412	40.78857	-73.97072	2	1.938247416
## 15413	40.79574	-73.96192	1	-0.707168773
## 15415	40.71241	-73.98913	1	-0.119298508
## 15417	40.80445	-73.96373	1	-0.648381746
## 15418	40.72300	-73.97753	2	-0.213357751
## 15420	40.72725	-74.00245	2	-0.483778072
## 15422	40.85277	-73.92916	2	-0.119298508
## 15423	40.73551	-73.98546	2	2.584904706
## 15425	40.73069	-73.99320	2	2.584904706
## 15427	40.70538	-74.00742	3	0.233423650
## 15428	40.72182	-73.99963	1	0.045305165
## 15430	40.71050	-74.00845	2	1.397406773
## 15432	40.72614	-74.00076	1	-0.178085535
## 15433	40.77708	-73.98791	2	0.092334787
## 15435	40.77003	-73.95018	2	0.809536509
## 15437	40.72904	-73.99344	2	1.115229046
## 15438	40.73255	-74.00173	2	0.315725487
## 15440	40.77345	-73.95386	1	-0.354446614
## 15442	40.82452	-73.94427	1	-0.871772446
## 15443	40.76731	-73.95843	2	0.292210676
## 15445	40.70494	-74.00964	2	1.056442020
## 15447	40.72759	-73.98786	2	-0.060511482
## 15448	40.86565	-73.92348	1	-0.942316878
## 15450	40.71148	-74.01283	2	1.174016072
## 15452	40.79566	-73.96954	2	1.703099310
## 15453	40.79511	-73.93730	2	1.056442020
## 15455	40.79055	-73.94867	1	-0.530807693
## 15457	40.74228	-73.97601	2	0.527358782
## 15458	40.72876	-73.98655	2	0.668447645
## 15460	40.75138	-73.98143	2	1.997034442
## 15462	40.74472	-73.97932	2	-0.060511482
## 15463	40.73261	-73.98398	2	0.586145808
## 15465	40.78540	-73.97532	2	0.997654993
## 15467	40.73288	-73.98251	1	-0.836500231
## 15468	40.72074	-73.98487	2	0.762506888
## 15470	40.74889	-74.00132	2	2.232182548
## 15472	40.78579	-73.97148	2	0.233423650
## 15473	40.72784	-73.98473	1	-0.824742825
## 15475	40.76219	-73.99493	3	-0.718926178
## 15477	40.80324	-73.96555	1	-0.707168773
## 15478	40.78731	-73.94889	1	-0.236872561
## 15480	40.72449	-73.98384	2	-0.189842940

## 15482	40.81295	-73.95304	1	-0.824742825
## 15483	40.72839	-73.99225	2	1.115229046
## 15485	40.80055	-73.95501	2	0.233423650
## 15487	40.82494	-73.94280	1	-0.589594720
## 15488	40.71451	-73.98789	1	-0.613109530
## 15490	40.72405	-74.00073	2	0.750749482
## 15492	40.80303	-73.96336	1	-0.589594720
## 15493	40.80423	-73.96334	1	-0.648381746
## 15495	40.78892	-73.97402	2	1.338619746
## 15497	40.80173	-73.94517	2	1.761886337
## 15498	40.72870	-73.99184	2	1.115229046
## 15500	40.71271	-73.99084	1	0.233423650
## 15502	40.76437	-73.98775	3	-0.354446614
## 15503	40.72789	-73.98236	2	1.291590125
## 15505	40.73031	-73.98018	2	0.174636624
## 15507	40.70604	-74.00869	1	2.820052812
## 15508	40.85712	-73.92770	1	-0.472020667
## 15510	40.73079	-74.00268	2	0.762506888
## 15512	40.83096	-73.95016	1	-0.483778072
## 15513	40.71962	-73.99682	2	0.233423650
## 15515	40.86261	-73.92295	1	-0.354446614
## 15517	40.71145	-73.99607	1	-0.001724456
## 15518	40.71751	-73.99849	2	1.174016072
## 15520	40.71827	-73.98836	1	-0.754198394
## 15522	40.74584	-73.98894	1	-0.060511482
## 15523	40.83773	-73.94415	1	-0.060511482
## 15525	40.73386	-73.98307	1	-0.142813319
## 15527	40.78108	-73.95439	2	0.997654993
## 15528	40.79325	-73.97237	2	2.290969574
## 15530	40.79954	-73.96263	2	-0.366204019
## 15532	40.81954	-73.94713	1	-0.530807693
## 15533	40.75484	-73.97235	1	2.878839838
## 15535	40.71477	-73.98575	2	1.409164178
## 15537	40.70860	-74.01266	1	1.644312284
## 15538	40.76481	-73.96001	1	0.527358782
## 15540	40.73122	-73.98652	2	1.291590125
## 15542	40.73395	-73.98210	2	0.057062571
## 15543	40.77691	-73.98263	2	1.514980826
## 15545	40.73327	-74.00157	2	1.997034442
## 15547	40.84539	-73.93968	3	-1.059890931
## 15548	40.80759	-73.94103	2	-0.366204019
## 15550	40.75613	-73.97056	1	3.466710102
## 15552	40.72706	-74.00572	1	-0.013481861
## 15553	40.78177	-73.97878	1	-0.530807693
## 15555	40.71250	-73.99661	1	-0.472020667
## 15557	40.74440	-73.97946	2	-0.060511482
## 15558	40.72751	-74.00180	1	1.409164178
## 15560	40.77123	-73.95490	2	0.527358782
## 15562	40.76520	-73.95834	1	-0.248629967
## 15563	40.76408	-73.95686	2	1.409164178
## 15565	40.75358	-73.99707	1	0.409784729
## 15567	40.81376	-73.95954	1	-0.530807693
## 15568	40.81454	-73.96086	1	-0.377961425
## 15570	40.72872	-73.99199	2	0.574388403

## 15572	40.74303	-73.99727	2	0.821293914
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## 15575	40.76597	-73.98177	2	0.586145808
## 15577	40.74011	-73.99745	2	0.527358782
## 15578	40.72653	-73.98501	2	0.445056945
## 15580	40.75674	-73.97201	1	2.337999195
## 15582	40.81502	-73.94183	1	-0.472020667
## 15583	40.76289	-73.98003	1	-0.178085535
## 15585	40.74757	-73.98671	3	-0.765955799
## 15587	40.76105	-73.96294	1	-0.589594720
## 15588	40.80630	-73.94484	1	-0.707168773
## 15590	40.80903	-73.94307	1	-0.389718830
## 15592	40.72849	-73.98002	2	0.233423650
## 15593	40.72342	-73.99408	2	1.409164178
## 15595	40.72726	-73.97934	2	1.997034442
## 15597	40.74870	-73.99678	1	-0.354446614
## 15598	40.81861	-73.94565	2	1.761886337
## 15600	40.84534	-73.93479	3	-0.060511482
## 15602	40.74684	-73.98698	1	-0.648381746
## 15603	40.71489	-73.98511	2	0.409784729
## 15605	40.72877	-73.98938	2	0.115849597
## 15607	40.80413	-73.96416	2	1.279832720
## 15608	40.72185	-73.98451	2	1.467951205
## 15610	40.76199	-73.99253	1	-0.801228015
## 15612	40.83284	-73.94461	1	-0.648381746
## 15613	40.83513	-73.94738	1	-0.366204019
## 15615	40.81226	-73.94137	1	-1.001103905
## 15617	40.72908	-73.98912	2	1.997034442
## 15618	40.72230	-73.99607	2	0.586145808
## 15620	40.75524	-73.97269	1	1.985277037
## 15622	40.75968	-73.95963	2	1.985277037
## 15623	40.73740	-74.00409	2	1.467951205
## 15625	40.76382	-73.98815	2	-0.154570724
## 15627	40.74936	-73.97836	1	0.268695866
## 15628	40.81296	-73.94217	1	-1.106920552
## 15630	40.76390	-73.99083	2	2.526117680
## 15632	40.72145	-73.97881	1	-0.648381746
## 15633	40.76614	-73.98484	2	0.586145808
## 15635	40.85416	-73.92920	2	-0.119298508
## 15637	40.82153	-73.94612	2	0.115849597
## 15638	40.70626	-74.00481	1	0.198151434
## 15640	40.81223	-73.95284	2	1.973519632
## 15642	40.82267	-73.95044	2	-0.589594720
## 15643	40.78552	-73.94153	2	0.174636624
## 15645	40.76464	-73.95831	1	-0.366204019
## 15647	40.82827	-73.94257	2	-0.260387372
## 15648	40.80392	-73.96556	1	-0.119298508
## 15650	40.70496	-74.00964	2	0.468571756
## 15652	40.83469	-73.94604	2	-0.013481861
## 15653	40.77327	-73.94939	2	0.409784729
## 15655	40.79468	-73.94194	2	0.821293914
## 15657	40.78014	-73.97974	2	0.821293914
## 15658	40.75651	-73.99807	2	0.891838346
## 15660	40.84701	-73.93949	1	-1.083405742

## 15662	40.72576	-73.97685	1	-0.060511482
## 15663	40.72322	-73.98689	1	-0.483778072
## 15665	40.76434	-73.98199	2	1.997034442
## 15667	40.71491	-73.99878	2	0.821293914
## 15668	40.73429	-73.99675	2	0.821293914
## 15670	40.70486	-74.01546	1	-0.824742825
## 15672	40.76975	-73.95240	2	1.526738231
## 15673	40.78260	-73.98006	2	-0.472020667
## 15675	40.77063	-73.95819	2	-0.084026293
## 15677	40.80840	-73.94439	1	-0.765955799
## 15678	40.74749	-73.98816	2	1.526738231
## 15680	40.77873	-73.97845	2	1.820673363
## 15682	40.72455	-73.97830	2	1.585525257
## 15683	40.79487	-73.96304	1	0.350997703
## 15685	40.72498	-74.00262	2	0.468571756
## 15687	40.71180	-74.01678	2	-0.060511482
## 15688	40.76186	-73.98851	1	-0.366204019
## 15690	40.81798	-73.94157	1	-1.059890931
## 15692	40.77664	-73.95749	1	0.821293914
## 15693	40.72766	-73.97715	2	0.233423650
## 15695	40.80420	-73.96491	1	-0.472020667
## 15697	40.76289	-73.99487	2	1.409164178
## 15698	40.76310	-73.95866	2	0.233423650
## 15700	40.76279	-73.97494	2	3.161017565
## 15702	40.72243	-74.00027	1	-0.589594720
## 15703	40.75024	-73.99686	2	0.691962456
## 15705	40.76381	-73.99190	1	-0.119298508
## 15707	40.75983	-73.99064	2	0.821293914
## 15708	40.83414	-73.94565	2	-0.060511482
## 15710	40.72399	-73.98261	2	0.762506888
## 15712	40.79112	-73.93606	2	-0.413233640
## 15713	40.71555	-73.98949	2	0.409784729
## 15715	40.79896	-73.96183	1	-0.236872561
## 15717	40.72434	-73.98018	2	-0.236872561
## 15718	40.79896	-73.96027	1	0.174636624
## 15720	40.72197	-74.00401	1	0.821293914
## 15722	40.75565	-73.96340	2	2.349756601
## 15723	40.74595	-73.98509	1	-0.765955799
## 15725	40.71431	-73.99275	2	0.468571756
## 15727	40.76620	-73.94676	2	1.409164178
## 15728	40.82723	-73.94217	1	-1.059890931
## 15730	40.79018	-73.94014	1	-0.613109530
## 15732	40.72085	-73.98945	1	-0.319174398
## 15733	40.84726	-73.93866	2	-0.472020667
## 15735	40.80434	-73.96490	1	-0.589594720
## 15737	40.76629	-73.98816	2	0.021790355
## 15738	40.73798	-73.99253	2	0.821293914
## 15740	40.80254	-73.96723	1	-0.707168773
## 15742	40.80602	-73.95627	2	1.409164178
## 15743	40.72100	-73.99218	2	2.584904706
## 15745	40.73492	-73.99604	2	1.997034442
## 15747	40.72316	-73.98703	1	-0.883529852
## 15748	40.74355	-73.97936	3	-1.071648336
## 15750	40.73881	-74.00398	2	3.161017565

## 15752	40.77828	-73.95492	1	1.703099310
## 15753	40.76370	-73.97422	1	0.715477267
## 15755	40.76579	-73.98557	1	0.115849597
## 15757	40.85155	-73.92967	1	-1.036376120
## 15758	40.83627	-73.94329	1	-1.059890931
## 15760	40.74633	-73.97586	2	0.292210676
## 15762	40.80430	-73.96342	1	-0.648381746
## 15763	40.79078	-73.94547	2	-0.354446614
## 15765	40.76458	-73.98686	1	-0.377961425
## 15767	40.77384	-73.98917	2	1.526738231
## 15768	40.73207	-74.00322	2	0.350997703
## 15770	40.80679	-73.95105	1	-0.648381746
## 15772	40.72611	-74.00252	2	0.821293914
## 15773	40.80475	-73.95081	1	-0.601352125
## 15775	40.79927	-73.95384	1	-0.483778072
## 15777	40.82064	-73.95370	1	0.233423650
## 15778	40.75175	-73.98499	2	1.938247416
## 15780	40.74406	-73.98003	1	-0.366204019
## 15782	40.73176	-74.00428	2	0.574388403
## 15783	40.79875	-73.93643	1	-0.060511482
## 15785	40.75514	-73.96746	2	1.409164178
## 15787	40.71707	-73.98931	2	0.821293914
## 15788	40.80728	-73.94619	1	-0.589594720
## 15790	40.76263	-73.96881	2	1.585525257
## 15792	40.79439	-73.96315	2	2.114608495
## 15793	40.85358	-73.93526	1	-0.472020667
## 15795	40.82812	-73.94219	2	0.821293914
## 15797	40.71731	-73.99862	2	0.527358782
## 15798	40.75988	-73.99123	1	0.057062571
## 15800	40.80075	-73.95676	1	-0.413233640
## 15802	40.77702	-73.95538	2	-0.295659588
## 15803	40.82431	-73.94291	2	0.844808725
## 15805	40.80528	-73.95928	2	0.233423650
## 15807	40.71918	-73.98525	2	-0.836500231
## 15808	40.75938	-73.98986	1	0.174636624
## 15810	40.78790	-73.95418	1	-0.472020667
## 15812	40.73328	-73.99431	1	0.233423650
## 15813	40.80536	-73.95434	2	0.233423650
## 15815	40.73022	-73.97998	2	1.056442020
## 15817	40.78179	-73.94693	2	-0.366204019
## 15818	40.70731	-74.00871	2	0.292210676
## 15820	40.72361	-73.99301	2	-0.001724456
## 15822	40.80312	-73.95378	1	-0.530807693
## 15823	40.73002	-74.00107	2	1.115229046
## 15825	40.82173	-73.94831	2	-0.001724456
## 15827	40.71965	-73.98448	2	1.409164178
## 15828	40.81004	-73.95271	2	0.821293914
## 15830	40.76061	-73.99038	1	0.468571756
## 15832	40.79202	-73.96887	2	0.527358782
## 15833	40.70724	-74.01438	2	0.762506888
## 15835	40.76328	-73.96598	2	-0.013481861
## 15837	40.72753	-73.98285	2	3.161017565
## 15838	40.73018	-73.98229	2	0.809536509
## 15840	40.76197	-73.96139	2	0.762506888

## 15842	40.76000	-73.98377	2	0.962382777
## 15843	40.75855	-73.96961	2	0.115849597
## 15845	40.79010	-73.94111	1	-0.660139151
## 15847	40.74992	-73.98772	1	-0.236872561
## 15848	40.76505	-73.98919	1	-0.013481861
## 15850	40.80114	-73.95696	1	-0.472020667
## 15852	40.73687	-73.98668	2	0.409784729
## 15853	40.72207	-73.98726	2	-0.366204019
## 15855	40.72841	-74.00045	2	1.997034442
## 15857	40.75500	-73.99784	1	1.397406773
## 15858	40.74273	-73.97998	2	-0.354446614
## 15860	40.75511	-73.99532	1	-0.648381746
## 15862	40.79481	-73.96437	1	-0.542565099
## 15863	40.74942	-73.99593	1	-0.530807693
## 15865	40.73646	-74.00761	2	0.409784729
## 15867	40.75284	-73.97170	1	2.161638116
## 15868	40.72557	-74.00190	2	3.161017565
## 15870	40.71655	-73.99537	1	-0.730683583
## 15872	40.71341	-73.98981	2	1.409164178
## 15873	40.76495	-73.98313	2	0.527358782
## 15875	40.76232	-73.97512	1	1.209288288
## 15877	40.76194	-73.97459	2	1.714856715
## 15878	40.76239	-73.97444	2	1.714856715
## 15880	40.79074	-73.94276	2	0.115849597
## 15882	40.76464	-73.95930	1	-0.178085535
## 15883	40.75964	-73.99002	3	-0.707168773
## 15885	40.82528	-73.95313	1	0.997654993
## 15887	40.74938	-73.98020	2	0.821293914
## 15888	40.76544	-73.95850	2	2.937626865
## 15890	40.81022	-73.94547	2	0.021790355
## 15892	40.84353	-73.94072	1	-0.942316878
## 15893	40.74419	-74.00067	2	-0.060511482
## 15895	40.85359	-73.92982	1	-1.118677957
## 15897	40.75922	-73.99690	1	-0.295659588
## 15898	40.80630	-73.95580	2	2.584904706
## 15900	40.73649	-73.99927	2	3.172774970
## 15902	40.79758	-73.93808	2	-0.377961425
## 15903	40.82687	-73.94364	2	-0.472020667
## 15905	40.80004	-73.96088	1	-0.942316878
## 15907	40.86268	-73.92380	2	0.821293914
## 15908	40.79655	-73.96285	2	-0.377961425
## 15910	40.75652	-73.96859	1	-0.354446614
## 15912	40.70903	-74.00596	2	0.409784729
## 15913	40.78570	-73.97459	1	-0.472020667
## 15915	40.81662	-73.93687	2	-0.648381746
## 15917	40.76477	-73.97592	2	0.809536509
## 15918	40.76651	-73.98289	2	0.833051319
## 15920	40.72831	-73.99327	2	0.574388403
## 15922	40.74283	-73.99273	1	-0.589594720
## 15923	40.76192	-73.99698	2	3.172774970
## 15925	40.82437	-73.95177	2	-0.413233640
## 15927	40.79821	-73.96058	1	-0.707168773
## 15928	40.82484	-73.95271	2	-0.178085535
## 15930	40.71864	-73.98470	2	0.350997703

## 15932	40.82765	-73.94625	1	-0.366204019
## 15933	40.75989	-73.99227	1	-0.530807693
## 15935	40.72863	-74.00125	1	-1.024618715
## 15937	40.70425	-74.00856	2	2.290969574
## 15938	40.70497	-74.00746	2	1.609040068
## 15940	40.82358	-73.95178	2	1.997034442
## 15942	40.75125	-73.97105	2	0.174636624
## 15943	40.777919	-73.95182	2	0.233423650
## 15945	40.77751	-73.95174	2	0.233423650
## 15947	40.73015	-73.98447	2	2.584904706
## 15948	40.72880	-73.98058	2	0.821293914
## 15950	40.78105	-73.97633	2	1.397406773
## 15952	40.72042	-73.98414	1	0.339240298
## 15953	40.70772	-74.01489	1	1.056442020
## 15955	40.71762	-73.98606	2	3.760645234
## 15957	40.75638	-73.96750	1	-0.354446614
## 15958	40.79672	-73.96169	2	0.233423650
## 15960	40.85229	-73.93940	1	-0.389718830
## 15962	40.77196	-73.95175	2	1.467951205
## 15963	40.70462	-74.00912	2	1.385649368
## 15965	40.74687	-73.98836	2	1.056442020
## 15967	40.75551	-73.99236	2	1.997034442
## 15968	40.72865	-73.99148	2	0.574388403
## 15970	40.72514	-73.98504	2	0.527358782
## 15972	40.77717	-73.95404	2	0.609660619
## 15973	40.77487	-73.95654	2	-0.084026293
## 15975	40.80945	-73.94183	2	0.527358782
## 15977	40.81691	-73.94124	1	-0.707168773
## 15978	40.78918	-73.94834	2	-0.236872561
## 15980	40.70815	-74.00513	1	-0.178085535
## 15982	40.85970	-73.92748	1	-0.648381746
## 15983	40.86159	-73.92686	1	-0.824742825
## 15985	40.75070	-74.00261	2	0.468571756
## 15987	40.82199	-73.95632	2	-0.119298508
## 15988	40.73334	-74.00098	2	1.291590125
## 15990	40.80741	-73.96658	2	0.233423650
## 15992	40.76193	-73.99147	2	4.336758093
## 15993	40.82411	-73.95441	1	-0.977589094
## 15995	40.78006	-73.95046	1	0.233423650
## 15997	40.75753	-73.99701	1	0.809536509
## 15998	40.76831	-73.95929	2	0.821293914
## 16000	40.83856	-73.94186	1	-0.248629967
## 16002	40.81756	-73.94520	1	-0.366204019
## 16003	40.84440	-73.93654	1	-1.212737200
## 16005	40.73630	-74.00494	2	2.467330653
## 16007	40.80055	-73.96876	1	-0.589594720
## 16008	40.71022	-73.99163	2	0.762506888
## 16010	40.76812	-73.95093	2	0.233423650
## 16012	40.75975	-73.99440	1	0.997654993
## 16013	40.72355	-74.00320	2	0.821293914
## 16015	40.71436	-73.98856	1	-0.589594720
## 16017	40.72815	-73.98455	2	-0.119298508
## 16018	40.72018	-74.00451	1	-0.707168773
## 16020	40.75438	-73.99759	1	0.927110562

## 16022	40.74656	-74.00441	1	-0.189842940
## 16023	40.76375	-73.99201	2	1.409164178
## 16025	40.70701	-74.01510	2	-0.189842940
## 16027	40.75693	-73.96583	2	0.891838346
## 16028	40.82420	-73.95370	2	-0.119298508
## 16030	40.71508	-73.99750	1	-0.648381746
## 16032	40.74957	-73.97683	2	-0.225115156
## 16033	40.80909	-73.93726	1	0.821293914
## 16035	40.82982	-73.94661	1	-0.248629967
## 16037	40.72154	-73.99727	2	1.997034442
## 16038	40.74079	-74.00383	2	1.409164178
## 16040	40.81112	-73.94289	1	-0.354446614
## 16042	40.76481	-73.99220	2	1.632554878
## 16043	40.83815	-73.94385	1	-1.059890931
## 16045	40.76802	-73.99060	1	-0.001724456
## 16047	40.75876	-73.96153	2	0.374512513
## 16048	40.74172	-73.99937	1	-0.754198394
## 16050	40.72746	-73.99288	2	0.233423650
## 16052	40.74337	-73.99423	1	-0.530807693
## 16053	40.80348	-73.95775	1	-0.942316878
## 16055	40.82293	-73.93958	1	-0.707168773
## 16057	40.80521	-73.95592	1	-0.789470609
## 16058	40.80447	-73.95589	1	-0.789470609
## 16060	40.71261	-73.99475	1	-0.801228015
## 16062	40.72829	-73.98452	2	-0.448505856
## 16063	40.71629	-73.98975	1	1.703099310
## 16065	40.84216	-73.94227	1	-0.942316878
## 16067	40.85042	-73.93649	2	-0.119298508
## 16068	40.73181	-74.00606	2	1.997034442
## 16070	40.77066	-73.94993	2	0.115849597
## 16072	40.72141	-73.98111	2	0.045305165
## 16073	40.70816	-74.00840	2	0.762506888
## 16075	40.78430	-73.95745	2	3.760645234
## 16077	40.76044	-73.96097	2	0.691962456
## 16078	40.75606	-73.99662	1	0.809536509
## 16080	40.75520	-73.99672	1	0.574388403
## 16082	40.71501	-73.98478	1	-0.413233640
## 16083	40.71284	-73.98861	1	-0.648381746
## 16085	40.71983	-73.98686	2	1.938247416
## 16087	40.72828	-73.98823	2	-0.060511482
## 16088	40.73031	-73.98666	2	0.104092192
## 16090	40.73045	-74.00266	1	-0.472020667
## 16092	40.70771	-74.00641	2	1.162258667
## 16093	40.74057	-73.99908	2	0.821293914
## 16095	40.76186	-73.99737	2	0.233423650
## 16097	40.77553	-73.95507	2	2.526117680
## 16098	40.79535	-73.96410	1	-0.119298508
## 16100	40.76383	-73.98979	2	0.644932835
## 16102	40.74453	-73.99196	1	0.233423650
## 16103	40.75714	-73.96748	1	-0.472020667
## 16105	40.80402	-73.96345	2	1.597282663
## 16107	40.82022	-73.95309	1	0.233423650
## 16108	40.71532	-74.00645	2	2.032306658
## 16110	40.72573	-73.98841	2	-0.354446614

## 16112	40.70542	-74.00678	1	-0.295659588
## 16113	40.76826	-73.98719	2	0.527358782
## 16115	40.75523	-73.99827	1	-0.272144777
## 16117	40.73331	-74.00502	2	0.409784729
## 16118	40.74749	-73.98690	2	0.609660619
## 16120	40.72566	-73.98500	2	1.902975200
## 16122	40.74779	-73.98859	2	0.057062571
## 16123	40.76734	-73.95233	1	-0.354446614
## 16125	40.74903	-73.98528	2	2.878839838
## 16127	40.74875	-73.99697	2	0.527358782
## 16128	40.77112	-73.95652	3	-0.954074283
## 16130	40.75421	-73.96834	2	1.362134557
## 16132	40.71246	-73.99069	1	2.643691733
## 16133	40.73138	-73.99976	1	-0.060511482
## 16135	40.82206	-73.95573	1	-0.942316878
## 16137	40.75844	-73.98965	1	0.821293914
## 16138	40.76732	-73.95179	2	0.233423650
## 16140	40.78139	-73.94678	2	0.233423650
## 16142	40.76127	-73.95034	1	-0.472020667
## 16143	40.72097	-73.99274	1	-0.119298508
## 16145	40.77883	-73.98250	3	0.104092192
## 16147	40.72866	-74.00130	2	1.503223420
## 16148	40.72129	-73.99271	2	1.409164178
## 16150	40.86171	-73.92945	1	-0.765955799
## 16152	40.74941	-73.99589	2	0.104092192
## 16153	40.80855	-73.93841	2	1.197530883
## 16155	40.86184	-73.92757	1	-0.765955799
## 16157	40.74250	-73.97704	2	1.409164178
## 16158	40.77754	-73.95114	3	-0.883529852
## 16160	40.77497	-73.98788	2	0.080577381
## 16162	40.83324	-73.94072	1	-0.707168773
## 16163	40.82521	-73.94037	2	-0.389718830
## 16165	40.73807	-74.00468	1	-0.589594720
## 16167	40.77262	-73.95010	2	1.056442020
## 16168	40.72607	-74.00166	2	1.985277037
## 16170	40.79855	-73.97170	2	-0.648381746
## 16172	40.71700	-73.99717	1	-0.354446614
## 16173	40.73785	-73.99214	1	2.584904706
## 16175	40.79939	-73.95218	1	-0.530807693
## 16177	40.72445	-73.98922	1	0.762506888
## 16178	40.80177	-73.96930	2	1.115229046
## 16180	40.82251	-73.95120	1	-0.213357751
## 16182	40.81403	-73.94957	2	0.821293914
## 16183	40.75907	-73.99558	2	1.585525257
## 16185	40.81875	-73.93691	1	-0.836500231
## 16187	40.76211	-73.99791	2	4.336758093
## 16188	40.76093	-73.99924	2	4.336758093
## 16190	40.76171	-73.99793	2	3.161017565
## 16192	40.76136	-73.99205	1	-0.472020667
## 16193	40.77655	-73.94787	2	1.573767852
## 16195	40.76935	-73.95340	2	1.703099310
## 16197	40.73598	-73.99903	2	0.821293914
## 16198	40.76168	-73.98969	2	0.586145808
## 16200	40.80453	-73.95015	2	-0.178085535

## 16202 40.73734 -73.99327	2	2.385028816
## 16203 40.80401 -73.96635	1	-0.707168773
## 16205 40.80384 -73.95754	1	-0.789470609
## 16207 40.82388 -73.95527	1	-1.059890931
## 16208 40.72577 -73.98535	2	3.161017565
## 16210 40.79181 -73.96747	2	2.584904706
## 16212 40.75993 -73.99089	1	-0.236872561
## 16213 40.71826 -73.99338	2	-0.060511482
## 16215 40.70743 -74.00443	2	1.197530883
## 16217 40.73857 -73.97972	2	0.586145808
## 16218 40.80623 -73.95343	2	0.821293914
## 16220 40.73034 -74.01022	2	0.821293914
## 16222 40.81443 -73.95688	1	-0.707168773
## 16223 40.72190 -73.97819	1	-0.707168773
## 16225 40.71147 -73.98714	3	-1.118677957
## 16227 40.71025 -73.98703	3	-1.118677957
## 16228 40.79422 -73.94383	2	-0.707168773
## 16230 40.73212 -73.98247	1	0.233423650
## 16232 40.78687 -73.97189	2	0.527358782
## 16233 40.78384 -73.97696	1	-0.413233640
## 16235 40.77396 -73.98925	2	1.526738231
## 16237 40.76593 -73.99186	1	0.586145808
## 16238 40.84710 -73.93996	1	-0.589594720
## 16240 40.72269 -73.98306	2	-0.648381746
## 16242 40.71446 -73.99112	1	-0.413233640
## 16243 40.73094 -73.99900	3	-0.236872561
## 16245 40.72976 -74.00387	2	2.584904706
## 16247 40.77833 -73.98469	2	3.784160045
## 16248 40.76017 -73.98509	2	2.290969574
## 16250 40.71284 -74.00844	2	1.820673363
## 16252 40.72870 -74.00327	2	3.137502754
## 16253 40.77804 -73.98409	2	1.797158552
## 16255 40.74143 -73.99469	2	2.502602869
## 16257 40.76258 -73.98768	2	2.020549253
## 16258 40.70617 -74.00842	2	2.232182548
## 16260 40.74499 -73.97937	2	1.844188174
## 16262 40.75231 -73.98924	2	1.268075315
## 16263 40.71479 -74.00671	2	1.891217795
## 16265 40.73918 -73.99616	2	2.032306658
## 16267 40.72945 -74.00321	2	2.655449138
## 16268 40.76159 -73.98544	2	1.961762226
## 16270 40.73899 -73.99749	2	1.891217795
## 16272 40.75988 -73.98568	2	2.138123306
## 16273 40.72300 -73.98415	2	2.138123306
## 16275 40.73767 -73.99739	2	2.243939953
## 16277 40.72232 -73.98543	2	2.138123306
## 16278 40.71856 -73.99061	2	2.161638116
## 16280 40.79094 -73.97235	2	1.268075315
## 16282 40.75973 -73.99574	2	1.891217795
## 16283 40.76923 -73.98627	2	1.562010447
## 16285 40.74164 -73.97859	2	1.444436394
## 16287 40.76393 -73.98721	2	0.950625372
## 16288 40.77779 -73.98459	2	2.067578874
## 16290 40.71519 -74.00654	2	2.138123306

## 16292 40.75335 -73.99029	2	1.609040068
## 16293 40.73929 -73.99777	2	2.138123306
## 16295 40.75995 -73.98728	2	1.738371526
## 16297 40.74805 -73.97351	2	1.315104936
## 16298 40.73786 -73.99770	2	2.678963948
## 16300 40.73897 -73.99637	2	1.761886337
## 16302 40.76087 -73.99563	2	2.761265785
## 16303 40.74053 -73.97874	2	1.679584500
## 16305 40.74072 -73.97794	2	2.079336279
## 16307 40.71609 -74.00501	2	1.703099310
## 16308 40.73003 -74.00215	2	3.125745349
## 16310 40.71626 -74.00694	2	2.678963948
## 16312 40.73169 -73.98932	2	3.407923076
## 16313 40.73774 -73.99725	2	1.797158552
## 16315 40.74094 -73.99464	2	1.467951205
## 16317 40.74005 -73.97884	2	1.879460389
## 16318 40.75965 -73.98582	2	2.196910332
## 16320 40.75149 -73.99080	2	0.891838346
## 16322 40.73021 -74.00379	2	2.055821469
## 16323 40.75963 -73.98595	2	2.185152927
## 16325 40.71488 -74.00687	2	2.373271411
## 16327 40.71479 -74.00621	2	1.632554878
## 16328 40.74108 -73.97788	2	1.350377152
## 16330 40.70887 -74.01446	2	1.209288288
## 16332 40.77640 -73.98387	2	1.656069689
## 16333 40.73870 -73.99699	2	2.161638116
## 16335 40.70601 -74.00960	2	2.185152927
## 16337 40.74737 -73.97626	2	1.550253041
## 16338 40.76178 -73.98547	2	2.349756601
## 16340 40.73944 -74.00563	2	3.795917450
## 16342 40.77639 -73.98269	2	1.926490010
## 16343 40.72303 -73.98545	2	2.337999195
## 16345 40.73939 -73.99613	2	2.502602869
## 16347 40.76010 -73.98504	2	1.738371526
## 16348 40.72277 -73.98419	2	2.138123306
## 16350 40.73035 -74.00324	2	2.396786222
## 16352 40.74261 -73.99457	2	2.655449138
## 16353 40.73934 -73.99737	2	1.738371526
## 16355 40.71508 -74.00628	2	1.691341905
## 16357 40.77670 -73.98291	2	3.948763719
## 16358 40.76190 -73.98530	2	2.185152927
## 16360 40.70513 -74.00900	2	1.656069689
## 16362 40.71659 -74.00653	2	3.031686107
## 16363 40.72960 -74.00246	2	2.479088059
## 16365 40.74070 -73.99478	2	1.385649368
## 16367 40.73920 -73.99578	2	2.161638116
## 16368 40.70593 -74.00910	2	1.420921583
## 16370 40.73960 -73.97938	2	1.291590125
## 16372 40.76103 -73.98666	2	2.337999195
## 16373 40.70631 -74.00886	2	1.585525257
## 16375 40.73935 -73.99691	2	1.609040068
## 16377 40.73795 -73.99753	2	2.185152927
## 16378 40.70571 -74.01509	2	0.691962456
## 16380 40.73924 -73.99586	2	2.725993570

## 16382	40.73567	-73.98403	3	-0.718926178
## 16383	40.76334	-73.97809	2	0.821293914
## 16385	40.74697	-73.98693	2	1.291590125
## 16387	40.77225	-73.95326	2	-0.707168773
## 16388	40.72235	-73.98911	2	2.149880711
## 16390	40.80666	-73.95691	1	-0.472020667
## 16392	40.75399	-73.99764	2	1.326862341
## 16393	40.75893	-73.96751	2	1.879460389
## 16395	40.82631	-73.95201	1	-1.177464984
## 16397	40.75294	-73.97105	1	-0.707168773
## 16398	40.82060	-73.93779	1	-0.765955799
## 16400	40.72080	-74.01097	2	1.997034442
## 16402	40.81223	-73.94156	2	0.821293914
## 16403	40.76602	-73.98766	2	0.233423650
## 16405	40.72579	-73.98301	1	-0.001724456
## 16407	40.76782	-73.95918	2	0.527358782
## 16408	40.73563	-74.00659	2	0.997654993
## 16410	40.75472	-73.99713	1	0.809536509
## 16412	40.75508	-73.99696	1	0.809536509
## 16413	40.75541	-73.99634	1	0.809536509
## 16415	40.75659	-73.99867	1	0.574388403
## 16417	40.75505	-73.99811	1	0.574388403
## 16418	40.75610	-73.99855	1	0.574388403
## 16420	40.76160	-73.95052	1	-0.883529852
## 16422	40.73293	-73.99460	1	-0.977589094
## 16423	40.79895	-73.96128	1	-0.413233640
## 16425	40.76243	-73.99901	1	0.903595751
## 16427	40.74130	-73.98145	2	1.703099310
## 16428	40.77566	-73.94747	1	-0.354446614
## 16430	40.80155	-73.96498	2	-0.119298508
## 16432	40.72877	-73.98249	2	0.691962456
## 16433	40.72662	-73.99423	2	2.584904706
## 16435	40.74815	-73.98374	3	-0.472020667
## 16437	40.72715	-73.98480	2	0.527358782
## 16438	40.71107	-73.99509	1	-0.601352125
## 16440	40.72336	-73.98465	2	3.678343397
## 16442	40.80466	-73.95635	2	-0.213357751
## 16443	40.76424	-73.98143	1	2.584904706
## 16445	40.82008	-73.94057	1	-0.942316878
## 16447	40.80017	-73.96882	2	-0.178085535
## 16448	40.76326	-73.99018	2	1.573767852
## 16450	40.85245	-73.93273	1	-0.354446614
## 16452	40.72030	-73.99548	1	-0.377961425
## 16453	40.82625	-73.94859	1	-0.918802068
## 16455	40.76708	-73.94607	1	-0.354446614
## 16457	40.75890	-73.99165	1	-0.718926178
## 16458	40.78695	-73.94218	2	0.997654993
## 16460	40.78549	-73.97535	2	0.821293914
## 16462	40.75054	-73.98386	2	2.761265785
## 16463	40.72579	-73.98344	2	-0.354446614
## 16465	40.78191	-73.95292	2	1.703099310
## 16467	40.79283	-73.97500	2	0.586145808
## 16468	40.81281	-73.94475	1	-0.765955799
## 16470	40.76557	-73.98384	2	0.997654993

## 16472	40.72531	-73.97973	1	-0.295659588
## 16473	40.77604	-73.94524	2	-0.060511482
## 16475	40.72646	-73.98686	2	1.526738231
## 16477	40.83644	-73.94231	1	-1.059890931
## 16478	40.75611	-73.99386	2	-0.001724456
## 16480	40.85502	-73.92763	2	0.233423650
## 16482	40.76756	-73.96856	2	-0.354446614
## 16483	40.80861	-73.95451	2	-0.413233640
## 16485	40.85025	-73.94105	1	-1.059890931
## 16487	40.82089	-73.94791	1	-0.942316878
## 16488	40.77203	-73.95988	2	1.808915958
## 16490	40.85127	-73.92985	1	-1.165707579
## 16492	40.71787	-73.99640	2	3.149260160
## 16493	40.81981	-73.94326	2	1.997034442
## 16495	40.73963	-73.98002	2	0.821293914
## 16497	40.77469	-73.95067	2	-0.330931804
## 16498	40.72696	-73.99501	2	3.055200917
## 16500	40.81785	-73.93989	2	-0.895287257
## 16502	40.80152	-73.96673	1	-0.236872561
## 16503	40.75030	-73.97747	1	-0.648381746
## 16505	40.75622	-73.99683	1	0.574388403
## 16507	40.80368	-73.96662	2	0.033547760
## 16508	40.72007	-73.99695	2	1.409164178
## 16510	40.82576	-73.94454	1	-1.024618715
## 16512	40.72367	-73.98244	2	0.527358782
## 16513	40.78900	-73.94798	2	-0.472020667
## 16515	40.74551	-73.98744	2	0.233423650
## 16517	40.73888	-73.99782	2	1.844188174
## 16518	40.72149	-73.98918	2	-0.366204019
## 16520	40.74005	-74.00525	2	0.880080940
## 16522	40.74511	-73.99468	1	0.092334787
## 16523	40.72365	-73.98643	2	-0.236872561
## 16525	40.75833	-73.99190	2	1.291590125
## 16527	40.81254	-73.94199	1	-1.165707579
## 16528	40.72176	-73.98825	1	0.233423650
## 16530	40.72183	-73.99903	1	-0.472020667
## 16532	40.74374	-73.97998	2	0.821293914
## 16533	40.79179	-73.93524	1	-0.918802068
## 16535	40.76991	-73.95327	1	0.527358782
## 16537	40.72860	-73.97952	1	-0.718926178
## 16538	40.79519	-73.94543	2	0.057062571
## 16540	40.74315	-73.98222	2	1.409164178
## 16542	40.82565	-73.94815	1	-0.413233640
## 16543	40.76475	-73.98662	1	0.350997703
## 16545	40.76718	-73.95715	1	-0.589594720
## 16547	40.71997	-73.98491	1	-0.530807693
## 16548	40.78484	-73.97862	1	-0.119298508
## 16550	40.82314	-73.94505	1	-0.883529852
## 16552	40.73945	-73.97934	2	-0.142813319
## 16553	40.75501	-73.96594	2	1.056442020
## 16555	40.70860	-74.01376	1	-0.354446614
## 16557	40.76021	-73.96075	2	1.914732605
## 16558	40.76157	-73.99358	2	0.703719861
## 16560	40.76348	-73.99391	1	-0.060511482

## 16562	40.72182	-73.99567	2	1.409164178
## 16563	40.76011	-73.99087	2	1.985277037
## 16565	40.75641	-73.99710	1	0.927110562
## 16567	40.76117	-73.96019	1	-0.401476235
## 16568	40.74160	-73.99782	2	1.997034442
## 16570	40.75600	-73.99804	2	0.409784729
## 16572	40.71890	-73.98263	1	0.527358782
## 16573	40.71114	-73.99977	2	0.527358782
## 16575	40.72608	-74.00022	2	1.291590125
## 16577	40.72446	-73.99966	1	0.409784729
## 16578	40.76333	-73.98917	2	0.492086566
## 16580	40.77510	-73.95294	1	-0.060511482
## 16582	40.80822	-73.94051	1	-0.472020667
## 16583	40.80847	-73.94044	1	-0.472020667
## 16585	40.82495	-73.94023	2	0.233423650
## 16587	40.79819	-73.94294	1	-0.483778072
## 16588	40.83477	-73.94293	1	-0.648381746
## 16590	40.81234	-73.94512	1	-0.765955799
## 16592	40.74832	-73.98915	1	-0.001724456
## 16593	40.75106	-73.97485	1	0.492086566
## 16595	40.78791	-73.97404	2	0.586145808
## 16597	40.76564	-73.94528	1	-1.024618715
## 16598	40.70418	-74.01695	2	1.056442020
## 16600	40.72246	-73.99549	2	1.150501262
## 16602	40.73153	-74.00469	2	0.280453271
## 16603	40.73433	-74.00301	1	0.821293914
## 16605	40.74056	-73.97910	2	0.233423650
## 16607	40.70822	-74.00885	1	0.586145808
## 16608	40.77995	-73.96056	2	0.821293914
## 16610	40.76719	-73.95253	2	0.821293914
## 16612	40.82410	-73.94682	1	-0.413233640
## 16613	40.71240	-73.99054	1	-0.589594720
## 16615	40.77730	-73.97736	2	2.584904706
## 16617	40.74929	-73.98120	1	-0.836500231
## 16618	40.75816	-73.97004	2	0.221666245
## 16620	40.72583	-73.97528	1	-0.707168773
## 16622	40.77221	-73.95528	1	-0.601352125
## 16623	40.71140	-73.99354	1	0.339240298
## 16625	40.73103	-74.00197	2	0.292210676
## 16627	40.75994	-73.96473	1	0.233423650
## 16628	40.75585	-73.96502	2	0.703719861
## 16630	40.72217	-73.98139	2	1.279832720
## 16632	40.72213	-73.98122	2	2.584904706
## 16633	40.78305	-73.94532	2	-0.366204019
## 16635	40.74986	-73.98709	2	0.586145808
## 16637	40.74841	-73.98768	2	1.056442020
## 16638	40.82224	-73.95402	2	0.233423650
## 16640	40.74566	-73.99673	1	0.092334787
## 16642	40.70427	-74.01533	2	-0.166328130
## 16643	40.80442	-73.94756	2	-0.060511482
## 16645	40.72168	-73.98686	2	0.821293914
## 16647	40.79420	-73.94091	2	2.584904706
## 16648	40.83701	-73.94577	1	-0.765955799
## 16650	40.70580	-74.01559	2	0.586145808

## 16652	40.76174	-73.96066	1	-0.765955799
## 16653	40.74435	-73.99535	2	0.350997703
## 16655	40.77861	-73.94628	2	0.821293914
## 16657	40.75568	-73.99661	1	0.339240298
## 16658	40.78168	-73.98099	2	1.409164178
## 16660	40.71981	-73.98895	2	3.549011939
## 16662	40.82591	-73.95144	1	0.703719861
## 16663	40.76707	-73.98591	1	0.010032950
## 16665	40.72728	-73.98256	2	1.115229046
## 16667	40.78012	-73.98279	1	-0.013481861
## 16668	40.75169	-73.97162	2	0.115849597
## 16670	40.75158	-73.97151	2	-0.001724456
## 16672	40.75934	-73.99563	1	0.350997703
## 16673	40.75874	-73.99605	1	-0.001724456
## 16675	40.82621	-73.94125	2	-0.472020667
## 16677	40.75467	-73.99657	1	0.809536509
## 16678	40.80236	-73.96604	1	-0.472020667
## 16680	40.72500	-73.98236	2	2.573147301
## 16682	40.75410	-73.97056	2	0.456814350
## 16683	40.75506	-73.99715	1	0.809536509
## 16685	40.83109	-73.94714	2	0.644932835
## 16687	40.76156	-73.99006	2	1.115229046
## 16688	40.73284	-73.97635	1	-0.119298508
## 16690	40.74312	-73.98447	1	-0.483778072
## 16692	40.75790	-73.95256	2	0.644932835
## 16693	40.76436	-73.98779	1	-0.119298508
## 16695	40.74488	-73.97389	2	1.656069689
## 16697	40.74175	-73.98135	2	1.997034442
## 16698	40.82263	-73.95470	1	-0.765955799
## 16700	40.76588	-73.95834	1	-0.589594720
## 16702	40.76499	-73.95831	1	-0.589594720
## 16703	40.76547	-73.99032	2	1.820673363
## 16705	40.73245	-74.00328	2	0.703719861
## 16707	40.81573	-73.94036	2	0.762506888
## 16708	40.80511	-73.96572	2	-0.824742825
## 16710	40.75805	-73.99292	2	3.760645234
## 16712	40.74657	-73.98685	2	1.291590125
## 16713	40.74293	-73.99922	1	-0.589594720
## 16715	40.73879	-73.98135	2	1.056442020
## 16717	40.74103	-73.97451	2	0.586145808
## 16718	40.85573	-73.93987	2	0.115849597
## 16720	40.70947	-74.01329	2	1.409164178
## 16722	40.74130	-74.00429	2	2.584904706
## 16723	40.80602	-73.95508	2	0.586145808
## 16725	40.80449	-73.96426	2	-0.589594720
## 16727	40.72747	-73.98409	1	0.527358782
## 16728	40.72710	-74.00286	2	-0.248629967
## 16730	40.76428	-73.98988	2	-0.060511482
## 16732	40.75718	-73.99807	2	2.878839838
## 16733	40.78415	-73.95248	2	-0.354446614
## 16735	40.76568	-73.98760	1	-0.354446614
## 16737	40.73280	-74.00468	2	0.586145808
## 16738	40.76574	-73.95830	1	-0.589594720
## 16740	40.74981	-73.98585	1	2.584904706

## 16742	40.70559	-74.00669	2	3.407923076
## 16743	40.79469	-73.94351	2	1.056442020
## 16745	40.72628	-74.00236	2	2.937626865
## 16747	40.81963	-73.93879	1	-0.942316878
## 16748	40.76011	-73.97051	2	-0.166328130
## 16750	40.74733	-73.98447	1	0.586145808
## 16752	40.76326	-73.98582	2	0.574388403
## 16753	40.71581	-73.99056	2	1.761886337
## 16755	40.76194	-73.99122	1	-0.554322504
## 16757	40.79977	-73.96198	1	-0.883529852
## 16758	40.74792	-73.97614	2	1.550253041
## 16760	40.74845	-73.97446	2	1.350377152
## 16762	40.76037	-73.99744	2	0.644932835
## 16763	40.74884	-73.97589	2	1.432678989
## 16765	40.74896	-73.97472	2	1.150501262
## 16767	40.74846	-73.97448	2	1.303347531
## 16768	40.74871	-73.97446	2	1.585525257
## 16770	40.74909	-73.97585	2	1.326862341
## 16772	40.79737	-73.96217	2	0.586145808
## 16773	40.81325	-73.96122	2	-0.589594720
## 16775	40.71943	-73.99712	1	0.233423650
## 16777	40.76358	-73.94761	1	0.233423650
## 16778	40.76732	-73.98482	1	-0.483778072
## 16780	40.76560	-73.98822	3	-0.589594720
## 16782	40.71909	-73.99343	2	4.336758093
## 16783	40.72712	-73.97803	1	-0.648381746
## 16785	40.72890	-73.98091	2	0.527358782
## 16787	40.71966	-73.98184	2	-0.330931804
## 16788	40.76389	-73.98671	3	-0.366204019
## 16790	40.80798	-73.95544	1	0.233423650
## 16792	40.72103	-73.98040	2	1.938247416
## 16793	40.77608	-73.94665	2	0.586145808
## 16795	40.84457	-73.94065	1	-0.824742825
## 16797	40.76333	-73.98806	3	-0.589594720
## 16798	40.75878	-73.99011	2	1.056442020
## 16800	40.77581	-73.95072	1	-0.119298508
## 16802	40.72918	-73.98154	2	0.586145808
## 16803	40.76356	-73.98956	2	1.174016072
## 16805	40.76111	-73.99461	2	0.104092192
## 16807	40.72288	-73.98344	2	2.584904706
## 16808	40.71324	-73.99881	2	3.290349023
## 16810	40.72740	-74.00260	2	0.621418024
## 16812	40.80720	-73.94747	1	-0.718926178
## 16813	40.75050	-73.99608	2	0.880080940
## 16815	40.74228	-73.99488	2	2.067578874
## 16817	40.72316	-73.99577	1	3.161017565
## 16818	40.81734	-73.95428	1	-0.354446614
## 16820	40.72173	-73.99180	1	-0.060511482
## 16822	40.71687	-73.99074	1	0.233423650
## 16823	40.77564	-73.94551	1	-0.354446614
## 16825	40.76558	-73.98787	2	0.057062571
## 16827	40.75313	-73.98863	2	1.138743857
## 16828	40.74382	-74.00463	2	1.409164178
## 16830	40.76676	-73.98953	2	0.821293914

## 16832	40.82171	-73.95346	1	-0.883529852
## 16833	40.80719	-73.94088	2	1.409164178
## 16835	40.82220	-73.95416	1	-0.848257636
## 16837	40.85257	-73.94161	2	0.350997703
## 16838	40.79931	-73.95238	2	0.221666245
## 16840	40.82331	-73.95454	1	-0.483778072
## 16842	40.82219	-73.95381	1	-0.483778072
## 16843	40.72199	-73.99534	2	0.409784729
## 16845	40.75094	-73.98100	2	-0.354446614
## 16847	40.75589	-73.99642	1	1.397406773
## 16848	40.76102	-73.98874	2	3.161017565
## 16850	40.77018	-73.95502	1	-0.060511482
## 16852	40.77391	-73.98874	2	0.821293914
## 16853	40.81425	-73.94549	1	-1.200979794
## 16855	40.75318	-73.98649	2	1.997034442
## 16857	40.82584	-73.95024	1	1.938247416
## 16858	40.72435	-73.98715	2	1.115229046
## 16860	40.71696	-74.00689	2	2.855325028
## 16862	40.72785	-73.99933	2	2.114608495
## 16863	40.75600	-73.99783	1	0.927110562
## 16865	40.86856	-73.92623	2	1.997034442
## 16867	40.71744	-73.99559	2	0.691962456
## 16868	40.76186	-73.99608	2	1.997034442
## 16870	40.74366	-73.98343	2	0.174636624
## 16872	40.78591	-73.94234	1	-0.707168773
## 16873	40.76101	-73.99431	2	0.350997703
## 16875	40.72790	-73.97797	3	-0.765955799
## 16877	40.83310	-73.94007	1	-0.236872561
## 16878	40.71973	-74.00232	2	1.855945579
## 16880	40.73017	-73.98668	2	-0.001724456
## 16882	40.80556	-73.96503	1	-0.942316878
## 16883	40.80456	-73.95033	2	-0.178085535
## 16885	40.73583	-73.98037	2	0.292210676
## 16887	40.74110	-73.99669	1	0.821293914
## 16888	40.73732	-73.99033	1	0.821293914
## 16890	40.76416	-73.98685	1	-0.354446614
## 16892	40.80696	-73.94931	1	-0.483778072
## 16893	40.74061	-73.98063	2	3.760645234
## 16895	40.71327	-73.99019	1	-0.824742825
## 16897	40.83414	-73.94380	1	-0.707168773
## 16898	40.70770	-74.01555	2	1.997034442
## 16900	40.72176	-73.99218	2	0.809536509
## 16902	40.77711	-73.95059	2	1.044684614
## 16903	40.70991	-73.98835	3	-1.118677957
## 16905	40.71113	-73.98667	3	-1.118677957
## 16907	40.76756	-73.95643	2	0.997654993
## 16908	40.70763	-74.00671	2	-0.236872561
## 16910	40.79721	-73.96875	1	-0.366204019
## 16912	40.82511	-73.94031	2	-0.354446614
## 16913	40.74393	-74.00444	2	0.703719861
## 16915	40.75017	-73.97241	1	1.409164178
## 16917	40.71013	-73.98822	3	-1.118677957
## 16918	40.76939	-73.95436	3	-1.118677957
## 16920	40.76580	-73.95812	1	-0.942316878

## 16922	40.72467	-73.98878	2	1.409164178
## 16923	40.77016	-73.95293	1	-0.119298508
## 16925	40.82865	-73.95069	1	-0.707168773
## 16927	40.75495	-73.99825	1	0.927110562
## 16928	40.77096	-73.95512	3	-1.177464984
## 16930	40.82765	-73.95012	1	-0.589594720
## 16932	40.72722	-73.97698	1	-0.178085535
## 16933	40.76314	-73.94864	2	-0.354446614
## 16935	40.74384	-73.97852	1	-0.236872561
## 16937	40.79158	-73.95168	2	-0.354446614
## 16938	40.82490	-73.94585	1	-0.824742825
## 16940	40.81577	-73.94711	1	-0.824742825
## 16942	40.72405	-73.98450	2	0.668447645
## 16943	40.79132	-73.95083	1	-0.530807693
## 16945	40.71685	-73.99074	1	-0.683653962
## 16947	40.78501	-73.97579	2	-0.354446614
## 16948	40.78981	-73.94200	2	0.350997703
## 16950	40.82575	-73.95177	1	-0.448505856
## 16952	40.73136	-73.98659	1	-0.730683583
## 16953	40.76138	-73.99825	2	-0.307416993
## 16955	40.72657	-73.98135	1	-0.483778072
## 16957	40.74891	-73.99573	2	1.985277037
## 16958	40.77447	-73.98853	2	1.997034442
## 16960	40.75975	-73.99533	1	0.233423650
## 16962	40.79618	-73.94142	2	3.760645234
## 16963	40.75414	-73.96595	2	-0.236872561
## 16965	40.72846	-73.98457	2	3.161017565
## 16967	40.72943	-73.98443	2	-0.225115156
## 16968	40.77959	-73.94685	1	-0.765955799
## 16970	40.79465	-73.94935	1	3.161017565
## 16972	40.79628	-73.94126	1	-0.472020667
## 16973	40.75341	-73.97116	2	0.821293914
## 16975	40.71727	-73.98634	2	-0.119298508
## 16977	40.75634	-73.99641	1	1.397406773
## 16978	40.83032	-73.94210	2	-0.119298508
## 16980	40.75638	-73.98834	2	1.526738231
## 16982	40.74285	-74.00196	2	0.703719861
## 16983	40.74535	-73.97898	3	-1.071648336
## 16985	40.77441	-73.95571	2	0.821293914
## 16987	40.74412	-73.99684	2	1.703099310
## 16988	40.75681	-73.99865	1	0.809536509
## 16990	40.73245	-74.00355	2	1.115229046
## 16992	40.73772	-73.98758	1	-0.765955799
## 16993	40.80240	-73.96496	1	-0.836500231
## 16995	40.75494	-73.96437	1	1.997034442
## 16997	40.71790	-73.98192	1	-0.472020667
## 16998	40.76509	-73.99508	2	0.574388403
## 17000	40.79249	-73.96627	1	0.233423650
## 17002	40.77905	-73.95350	2	0.233423650
## 17003	40.77951	-73.95075	1	-0.354446614
## 17005	40.80334	-73.94681	1	-0.624866936
## 17007	40.75483	-73.99405	2	0.303968082
## 17008	40.83307	-73.93515	1	-0.354446614
## 17010	40.79554	-73.94835	1	-0.189842940

## 17012	40.79430	-73.95003	1	-0.166328130
## 17013	40.79575	-73.94960	1	-0.342689209
## 17015	40.86772	-73.92057	1	-0.765955799
## 17017	40.75599	-73.99185	1	0.821293914
## 17018	40.72833	-73.99331	2	4.289728472
## 17020	40.83340	-73.94327	2	-0.707168773
## 17022	40.75660	-73.99725	2	0.104092192
## 17023	40.72482	-73.98242	2	-0.295659588
## 17025	40.71916	-73.99754	2	1.162258667
## 17027	40.71509	-74.00779	2	3.172774970
## 17028	40.70768	-74.00603	2	0.786021698
## 17030	40.81970	-73.94576	2	0.174636624
## 17032	40.72672	-74.00066	2	0.821293914
## 17033	40.77811	-73.95186	1	0.233423650
## 17035	40.73169	-74.00214	1	-0.236872561
## 17037	40.78754	-73.94186	1	-0.648381746
## 17038	40.70889	-74.00701	2	0.586145808
## 17040	40.72166	-73.98842	1	-0.060511482
## 17042	40.82823	-73.94971	2	0.174636624
## 17043	40.70491	-74.00978	2	1.656069689
## 17045	40.82645	-73.95235	1	-0.519050288
## 17047	40.82964	-73.94271	2	-0.589594720
## 17048	40.81660	-73.94070	1	-0.589594720
## 17050	40.82503	-73.93767	1	-0.707168773
## 17052	40.79020	-73.94630	1	-0.718926178
## 17053	40.81027	-73.94306	2	0.527358782
## 17055	40.76270	-73.96422	2	0.115849597
## 17057	40.73318	-74.00473	2	0.233423650
## 17058	40.85085	-73.94134	1	-0.942316878
## 17060	40.78680	-73.95228	1	-0.942316878
## 17062	40.81859	-73.93997	1	-0.824742825
## 17063	40.77463	-73.94972	2	2.079336279
## 17065	40.72466	-73.98373	2	1.232803099
## 17067	40.85065	-73.93188	1	-1.001103905
## 17068	40.78480	-73.95687	1	-1.036376120
## 17070	40.80870	-73.94157	2	0.233423650
## 17072	40.72377	-73.97963	1	1.867702984
## 17073	40.80761	-73.94366	2	1.409164178
## 17075	40.76616	-73.98228	2	1.115229046
## 17077	40.70417	-74.01709	2	-0.178085535
## 17078	40.80454	-73.94635	2	3.172774970
## 17080	40.81272	-73.94710	2	-0.236872561
## 17082	40.76263	-73.97664	2	1.985277037
## 17083	40.76137	-73.95992	2	3.172774970
## 17085	40.76539	-73.98336	2	1.115229046
## 17087	40.74859	-73.99685	1	-0.448505856
## 17088	40.71261	-73.99506	2	1.409164178
## 17090	40.78132	-73.94723	1	-0.648381746
## 17092	40.78062	-73.95173	1	-0.483778072
## 17093	40.78001	-73.95180	1	-0.366204019
## 17095	40.78140	-73.95206	3	-0.942316878
## 17097	40.76495	-73.96679	2	1.985277037
## 17098	40.82049	-73.94505	1	-0.648381746
## 17100	40.84282	-73.94133	1	-1.001103905

## 17102	40.79876	-73.93763	1	-1.059890931
## 17103	40.81878	-73.95302	1	-0.624866936
## 17105	40.72475	-73.98345	1	-0.119298508
## 17107	40.76462	-73.98734	1	-0.236872561
## 17108	40.83419	-73.94638	2	0.057062571
## 17110	40.77714	-73.98810	1	0.586145808
## 17112	40.79933	-73.96794	2	-0.001724456
## 17113	40.84623	-73.93578	1	-0.707168773
## 17115	40.74562	-74.00538	1	-0.519050288
## 17117	40.80410	-73.95600	1	-0.824742825
## 17118	40.83899	-73.93979	2	-0.707168773
## 17120	40.75749	-73.98921	2	-0.025239266
## 17122	40.79445	-73.93183	2	-0.860015041
## 17123	40.85442	-73.93266	2	-0.530807693
## 17125	40.72749	-74.00180	2	0.880080940
## 17127	40.80745	-73.93955	1	-0.683653962
## 17128	40.75218	-73.99541	2	0.974140183
## 17130	40.71865	-73.99587	2	0.703719861
## 17132	40.75636	-73.99675	1	0.809536509
## 17133	40.75641	-73.99706	1	-0.013481861
## 17135	40.75504	-73.99716	1	0.809536509
## 17137	40.72939	-74.00064	1	-0.589594720
## 17138	40.81893	-73.94512	1	-0.648381746
## 17140	40.80630	-73.94540	1	-0.295659588
## 17142	40.77330	-73.98913	1	-0.942316878
## 17143	40.77112	-73.95405	2	0.527358782
## 17145	40.70438	-74.01657	1	-0.695411367
## 17147	40.72963	-74.00330	2	1.409164178
## 17148	40.82636	-73.94985	2	-0.413233640
## 17150	40.71991	-73.98505	2	-0.236872561
## 17152	40.75320	-73.97141	1	-0.131055914
## 17153	40.77694	-73.94994	2	1.409164178
## 17155	40.74144	-73.98079	2	0.821293914
## 17157	40.79385	-73.96351	2	-0.119298508
## 17158	40.73315	-73.98688	2	0.433299540
## 17160	40.78966	-73.97760	2	-0.272144777
## 17162	40.71444	-73.99344	1	-0.530807693
## 17163	40.76497	-73.98191	2	1.115229046
## 17165	40.73792	-73.98306	2	1.056442020
## 17167	40.75979	-73.96463	1	-0.354446614
## 17168	40.84290	-73.93858	1	-0.765955799
## 17170	40.81633	-73.96069	1	-0.942316878
## 17172	40.73409	-74.00464	2	1.985277037
## 17173	40.73386	-74.00038	2	0.997654993
## 17175	40.74827	-73.98865	2	1.174016072
## 17177	40.79397	-73.97200	1	-0.589594720
## 17178	40.81953	-73.95476	2	1.409164178
## 17180	40.81207	-73.94335	2	-0.589594720
## 17182	40.80272	-73.96916	1	-0.589594720
## 17183	40.83583	-73.93847	2	-0.119298508
## 17185	40.72210	-73.98304	2	-0.154570724
## 17187	40.80384	-73.95765	1	-0.883529852
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## 17190	40.72760	-74.00275	1	-0.589594720

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## 17197 40.76315 -73.98711	1 0.233423650
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## 17200 40.77809 -73.97962	2 0.644932835
## 17202 40.71085 -74.01801	2 0.821293914
## 17203 40.72451 -74.00385	2 0.021790355
## 17205 40.80515 -73.95651	1 -0.836500231
## 17207 40.70988 -73.98686	1 -0.671896557
## 17208 40.70961 -73.98679	1 -0.671896557
## 17210 40.82049 -73.95268	1 -0.942316878
## 17212 40.77567 -73.95961	2 4.289728472
## 17213 40.74158 -73.98593	2 0.821293914
## 17215 40.73943 -73.98532	1 -0.765955799
## 17217 40.81339 -73.93617	1 -0.648381746
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## 17220 40.72043 -73.97923	1 -0.542565099
## 17222 40.85548 -73.93741	2 -0.483778072
## 17223 40.82335 -73.94939	2 0.174636624
## 17225 40.78136 -73.94709	1 -0.507292883
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## 17230 40.76175 -73.97592	2 1.609040068
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## 17258 40.70493 -74.01020	1 -0.131055914
## 17260 40.72845 -73.98158	2 -0.201600345
## 17262 40.80636 -73.95780	2 -0.601352125
## 17263 40.80385 -73.95294	1 -0.824742825
## 17265 40.74595 -73.98439	2 1.409164178
## 17267 40.76474 -73.98924	1 -0.589594720
## 17268 40.77388 -73.98798	2 1.703099310
## 17270 40.77537 -73.98938	2 1.997034442
## 17272 40.71947 -73.99723	1 -0.119298508
## 17273 40.82441 -73.95323	1 -0.824742825
## 17275 40.76243 -73.98621	1 -0.119298508
## 17277 40.75490 -73.99679	1 1.985277037
## 17278 40.75628 -73.99643	1 1.985277037
## 17280 40.71839 -73.99729	2 -0.001724456

## 17282 40.76467 -73.98277	2 -0.178085535
## 17283 40.73935 -73.98025	2 1.526738231
## 17285 40.83026 -73.94455	1 -0.824742825
## 17287 40.73972 -73.98412	1 2.643691733
## 17288 40.71416 -73.99161	1 -0.648381746
## 17290 40.83488 -73.94452	1 -0.883529852
## 17292 40.80393 -73.95740	1 -0.824742825
## 17293 40.72157 -73.99432	2 0.809536509
## 17295 40.80902 -73.94186	2 0.527358782
## 17297 40.71957 -73.98538	2 0.586145808
## 17298 40.72609 -74.00035	2 1.409164178
## 17300 40.80042 -73.96147	1 -0.824742825
## 17302 40.70760 -74.00740	2 2.102851090
## 17303 40.72744 -73.98336	2 0.703719861
## 17305 40.74540 -74.00427	2 3.760645234
## 17307 40.86622 -73.92233	1 -0.965831689
## 17308 40.82272 -73.95478	1 -0.707168773
## 17310 40.71825 -73.99651	1 0.456814350
## 17312 40.71910 -73.99513	2 1.409164178
## 17313 40.81650 -73.94438	1 -0.824742825
## 17315 40.79840 -73.94014	2 3.760645234
## 17317 40.72026 -73.98787	1 -0.589594720
## 17318 40.82350 -73.95391	1 -1.177464984
## 17320 40.75702 -73.96503	2 3.760645234
## 17322 40.72267 -73.98520	1 0.233423650
## 17323 40.80996 -73.94191	1 -0.907044662
## 17325 40.71918 -73.99536	1 -0.060511482
## 17327 40.72813 -73.99258	2 3.172774970
## 17328 40.76364 -73.99506	2 -0.472020667
## 17330 40.72703 -73.99264	2 0.691962456
## 17332 40.84725 -73.94274	1 -0.530807693
## 17333 40.82065 -73.95483	1 -1.118677957
## 17335 40.82051 -73.95291	1 -0.907044662
## 17337 40.76318 -73.99335	2 -0.001724456
## 17338 40.72233 -73.99334	1 -0.530807693
## 17340 40.73365 -73.99727	2 0.339240298
## 17342 40.75445 -73.96471	2 0.339240298
## 17343 40.71214 -73.99643	1 -0.389718830
## 17345 40.71208 -73.99410	1 -0.436748451
## 17347 40.80245 -73.94426	1 -0.401476235
## 17348 40.86886 -73.92407	2 -0.354446614
## 17350 40.73028 -74.00015	2 1.056442020
## 17352 40.74928 -73.99633	2 0.586145808
## 17353 40.71984 -73.98625	1 -0.354446614
## 17355 40.75943 -73.98756	2 0.821293914
## 17357 40.80577 -73.94480	1 -0.883529852
## 17358 40.72764 -73.99060	1 -0.824742825
## 17360 40.75483 -73.96991	2 1.938247416
## 17362 40.78081 -73.94866	2 0.527358782
## 17363 40.71939 -73.99662	2 0.233423650
## 17365 40.72882 -73.98103	2 0.350997703
## 17367 40.70713 -74.01043	1 -0.060511482
## 17368 40.78140 -73.94771	1 -0.730683583
## 17370 40.76273 -73.99420	2 0.644932835

## 17372 40.81990 -73.95248	2	0.409784729
## 17373 40.74084 -74.00425	2	0.586145808
## 17375 40.76379 -73.98720	2	0.468571756
## 17377 40.72330 -73.98062	2	0.233423650
## 17378 40.79097 -73.97412	1	0.586145808
## 17380 40.82796 -73.94088	1	-0.530807693
## 17382 40.76483 -73.99248	2	1.761886337
## 17383 40.73778 -73.99616	1	-0.366204019
## 17385 40.81105 -73.95241	1	-0.589594720
## 17387 40.70900 -74.01221	2	0.350997703
## 17388 40.74468 -74.00157	2	2.961141675
## 17390 40.76470 -73.99516	2	1.409164178
## 17392 40.75173 -73.99869	2	-0.354446614
## 17393 40.75231 -73.97331	1	1.997034442
## 17395 40.76106 -73.98694	2	0.468571756
## 17397 40.75828 -73.96829	2	1.409164178
## 17398 40.81332 -73.95309	1	-0.718926178
## 17400 40.81384 -73.95315	3	-0.718926178
## 17402 40.74338 -73.98557	2	0.938867967
## 17403 40.70584 -74.01060	2	1.350377152
## 17405 40.70658 -74.01036	1	0.821293914
## 17407 40.70564 -74.01162	1	0.868323535
## 17408 40.79973 -73.94567	2	0.303968082
## 17410 40.70641 -74.01047	2	1.221045694
## 17412 40.70752 -74.01046	2	1.232803099
## 17413 40.75977 -73.99062	2	1.409164178
## 17415 40.70714 -74.01233	2	3.078715728
## 17417 40.70644 -74.01214	2	1.185773478
## 17418 40.70624 -74.01076	2	0.750749482
## 17420 40.70750 -74.01023	2	1.162258667
## 17422 40.70587 -74.01092	2	4.019308151
## 17423 40.70727 -74.01072	1	1.479708610
## 17425 40.79196 -73.95048	1	-0.413233640
## 17427 40.85355 -73.93232	2	-0.060511482
## 17428 40.71543 -74.00647	2	1.785401147
## 17430 40.70615 -74.01243	1	1.550253041
## 17432 40.70714 -74.01225	2	0.856566130
## 17433 40.70795 -74.01046	2	1.373891962
## 17435 40.70586 -74.01078	2	1.162258667
## 17437 40.70740 -74.01175	2	1.150501262
## 17438 40.70650 -74.01171	2	3.219804591
## 17440 40.70648 -74.01241	2	1.162258667
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## 17452 40.70569 -74.01183	2	1.221045694
## 17453 40.70574 -74.01023	2	0.833051319
## 17455 40.70766 -74.01114	2	1.338619746
## 17457 40.70748 -74.01042	2	3.772402640
## 17458 40.70581 -74.01226	2	1.303347531
## 17460 40.70644 -74.01188	2	1.409164178

## 17462 40.70599 -74.01201	2	1.150501262
## 17463 40.70731 -74.01021	2	1.315104936
## 17465 40.70651 -74.01252	2	0.856566130
## 17467 40.70775 -74.01050	2	0.997654993
## 17468 40.70706 -74.01036	2	0.797779103
## 17470 40.70563 -74.01097	2	1.138743857
## 17472 40.70595 -74.01180	2	1.338619746
## 17473 40.70637 -74.01199	2	1.385649368
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## 17477 40.70722 -74.01023	2	1.174016072
## 17478 40.70740 -74.01043	2	1.138743857
## 17480 40.70757 -74.01111	2	0.680205051
## 17482 40.70748 -74.01081	2	1.056442020
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## 17485 40.70782 -74.01227	2	3.125745349
## 17487 40.70796 -74.01206	2	0.774264293
## 17488 40.70751 -74.01066	2	2.937626865
## 17490 40.70620 -74.01192	2	4.325000688
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## 17495 40.70656 -74.01094	2	1.150501262
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## 17507 40.75880 -73.99220	2	0.233423650
## 17508 40.72576 -73.98309	1	-0.730683583
## 17510 40.72716 -73.97830	2	0.950625372
## 17512 40.76218 -73.94897	1	-0.530807693
## 17513 40.79616 -73.93343	1	-0.883529852
## 17515 40.79658 -73.93284	2	-0.025239266
## 17517 40.72694 -73.98501	2	1.997034442
## 17518 40.74101 -73.99471	2	0.997654993
## 17520 40.82869 -73.94468	2	-0.119298508
## 17522 40.75629 -73.96548	2	0.057062571
## 17523 40.76218 -73.96633	2	0.068819976
## 17525 40.77995 -73.98464	2	1.056442020
## 17527 40.80521 -73.95137	1	0.174636624
## 17528 40.73957 -74.00241	2	0.762506888
## 17530 40.71270 -73.98854	1	-0.648381746
## 17532 40.76262 -73.98865	2	0.550873593
## 17533 40.71701 -73.98874	2	0.115849597
## 17535 40.82666 -73.95175	1	0.115849597
## 17537 40.71996 -73.99548	2	-0.060511482
## 17538 40.76332 -73.99150	2	2.925869459
## 17540 40.74930 -73.97376	2	2.243939953
## 17542 40.73938 -74.00176	2	3.172774970
## 17543 40.77202 -73.95821	1	0.233423650
## 17545 40.75337 -73.97334	2	0.350997703
## 17547 40.70399 -74.00662	2	1.397406773
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## 17552	40.80511	-73.95824	1	1.997034442
## 17553	40.80108	-73.94602	1	-0.601352125
## 17555	40.77422	-73.97778	1	-0.413233640
## 17557	40.72498	-73.97604	1	-0.413233640
## 17558	40.80526	-73.93818	2	-0.413233640
## 17560	40.74361	-73.97523	2	1.279832720
## 17562	40.70399	-74.00908	2	2.067578874
## 17563	40.81461	-73.94635	2	-0.236872561
## 17565	40.72186	-73.99696	2	0.492086566
## 17567	40.76188	-73.99925	2	1.409164178
## 17568	40.72888	-73.98109	2	1.291590125
## 17570	40.80047	-73.96064	2	0.821293914
## 17572	40.83591	-73.94033	1	-0.648381746
## 17573	40.75169	-73.97302	1	1.409164178
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## 17582	40.85326	-73.93813	2	-0.589594720
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## 17590	40.74720	-73.97418	2	0.727234672
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## 17595	40.74915	-73.97557	2	0.492086566
## 17597	40.74781	-73.97601	2	0.844808725
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## 17600	40.82420	-73.95106	2	-0.213357751
## 17602	40.86470	-73.92353	1	-1.189222389
## 17603	40.77180	-73.95556	1	0.233423650
## 17605	40.72835	-74.00053	1	-0.613109530
## 17607	40.80134	-73.96897	2	-0.119298508
## 17608	40.76259	-73.98667	2	0.703719861
## 17610	40.76193	-73.98573	2	2.114608495
## 17612	40.77883	-73.95050	2	0.891838346
## 17613	40.78139	-73.95379	1	-0.507292883
## 17615	40.83528	-73.94179	2	1.820673363
## 17617	40.72088	-73.99312	1	-0.519050288
## 17618	40.71933	-73.99431	1	-0.636624341
## 17620	40.74757	-73.98564	2	0.174636624
## 17622	40.71358	-73.99091	2	0.233423650
## 17623	40.72004	-73.99486	1	-0.801228015
## 17625	40.77705	-73.96038	1	-0.472020667
## 17627	40.75480	-73.99818	1	-0.472020667
## 17628	40.76450	-73.98862	1	-0.707168773
## 17630	40.71907	-73.99685	2	0.350997703
## 17632	40.76063	-73.99863	2	1.938247416
## 17633	40.79660	-73.97428	1	-0.060511482
## 17635	40.71612	-73.99273	2	1.985277037
## 17637	40.72956	-73.98113	2	0.362755108
## 17638	40.76607	-73.98260	2	0.115849597
## 17640	40.74974	-73.98094	1	0.821293914

## 17642 40.72621 -73.99028	1 -0.836500231
## 17643 40.72013 -73.99524	1 -0.836500231
## 17645 40.71411 -73.99375	2 0.174636624
## 17647 40.85019 -73.93004	2 -0.942316878
## 17648 40.74149 -73.99701	2 0.104092192
## 17650 40.79467 -73.96923	2 0.057062571
## 17652 40.72734 -73.98389	2 2.808295407
## 17653 40.81393 -73.93632	1 -1.118677957
## 17655 40.73180 -73.97999	1 -0.060511482
## 17657 40.73251 -73.99602	2 -0.001724456
## 17658 40.72781 -74.00039	2 0.644932835
## 17660 40.75619 -73.96540	2 0.057062571
## 17662 40.74862 -73.97531	2 1.326862341
## 17663 40.82931 -73.94183	1 -0.765955799
## 17665 40.75978 -73.99183	1 -0.178085535
## 17667 40.74921 -73.97395	2 2.091093684
## 17668 40.85240 -73.94214	1 -0.707168773
## 17670 40.71919 -73.99654	2 -0.119298508
## 17672 40.82899 -73.94185	1 -0.566079909
## 17673 40.84377 -73.94094	1 -1.095163147
## 17675 40.74763 -73.97524	2 2.185152927
## 17677 40.80193 -73.93866	1 -0.601352125
## 17678 40.72608 -74.00031	1 -0.413233640
## 17680 40.82916 -73.94980	2 0.350997703
## 17682 40.74493 -73.97860	2 2.573147301
## 17683 40.73767 -73.97384	2 0.233423650
## 17685 40.80551 -73.93654	1 -0.648381746
## 17687 40.76746 -73.95861	2 0.809536509
## 17688 40.75616 -73.99408	2 0.021790355
## 17690 40.82928 -73.94054	2 0.057062571
## 17692 40.70598 -74.01193	2 0.950625372
## 17693 40.70795 -74.01096	2 3.031686107
## 17695 40.70759 -74.01242	2 3.466710102
## 17697 40.70778 -74.01074	2 0.880080940
## 17698 40.70604 -74.01216	2 1.385649368
## 17700 40.70624 -74.01227	2 2.890597244
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## 17703 40.85117 -73.94065	1 -0.942316878
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## 17708 40.81072 -73.94236	1 -0.942316878
## 17710 40.76852 -73.98895	1 -0.472020667
## 17712 40.79872 -73.96069	1 -0.742440988
## 17713 40.72530 -73.98401	2 1.409164178
## 17715 40.87618 -73.91268	1 -1.059890931
## 17717 40.77756 -73.95408	2 0.080577381
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## 17720 40.76829 -73.98298	1 1.703099310
## 17722 40.74422 -73.97309	2 0.515601377
## 17723 40.74855 -74.00074	3 -0.765955799
## 17725 40.72681 -73.97955	1 0.644932835
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## 17730 40.74769 -73.97592	2 0.409784729

## 17732	40.74214	-73.99912	2	0.821293914
## 17733	40.76060	-73.98408	2	2.690721354
## 17735	40.77180	-73.99421	2	0.468571756
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## 17738	40.76916	-73.95365	2	-0.060511482
## 17740	40.74913	-73.99128	1	-0.354446614
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## 17745	40.74851	-73.99062	1	-0.354446614
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## 17748	40.75781	-73.98903	1	4.336758093
## 17750	40.75828	-73.98876	1	0.809536509
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## 17757	40.78111	-73.97923	1	0.927110562
## 17758	40.78162	-73.97941	1	1.409164178
## 17760	40.78189	-73.98138	1	1.174016072
## 17762	40.78130	-73.97922	1	1.761886337
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## 17767	40.76033	-73.98636	1	2.279212169
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## 17770	40.76026	-73.98747	1	2.690721354
## 17772	40.75106	-73.99792	2	0.221666245
## 17773	40.81891	-73.93786	2	-0.671896557
## 17775	40.75215	-73.97269	2	2.173395521
## 17777	40.72412	-73.98891	1	-0.354446614
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## 17782	40.75700	-73.96906	2	0.809536509
## 17783	40.73018	-73.97981	1	-0.824742825
## 17785	40.80226	-73.95211	2	-0.201600345
## 17787	40.74389	-73.98537	2	0.233423650
## 17788	40.76077	-74.00020	2	2.020549253
## 17790	40.76212	-73.99810	2	2.584904706
## 17792	40.72202	-73.98858	2	0.468571756
## 17793	40.74123	-73.98058	1	-0.424991046
## 17795	40.86428	-73.92199	1	-1.212737200
## 17797	40.80252	-73.95470	1	-0.589594720
## 17798	40.71432	-73.99866	2	0.245181055
## 17800	40.71867	-73.99082	2	0.233423650
## 17802	40.77313	-73.94824	2	-0.225115156
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## 17805	40.74835	-73.97612	2	1.338619746
## 17807	40.74060	-74.00620	2	1.021169804
## 17808	40.73219	-73.98503	2	1.056442020
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## 17813	40.80299	-73.95443	2	0.597903214
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## 17823	40.72412	-73.98283	2	0.327482892
## 17825	40.76341	-73.99306	2	0.174636624
## 17827	40.77032	-73.95498	2	0.174636624
## 17828	40.73190	-74.00489	2	0.527358782
## 17830	40.86411	-73.92353	1	-1.142192768
## 17832	40.71899	-73.98968	1	-0.648381746
## 17833	40.74072	-73.97764	2	0.809536509
## 17835	40.72400	-73.98933	2	0.703719861
## 17837	40.74655	-74.00134	2	0.104092192
## 17838	40.82786	-73.94845	1	-0.942316878
## 17840	40.74750	-73.97569	2	1.185773478
## 17842	40.74851	-73.97431	2	0.409784729
## 17843	40.82908	-73.94096	1	-0.789470609
## 17845	40.72981	-73.98638	1	-0.883529852
## 17847	40.76494	-73.95808	2	1.115229046
## 17848	40.73598	-74.00480	2	0.445056945
## 17850	40.71952	-73.99167	1	-0.060511482
## 17852	40.76649	-73.98727	2	4.219184040
## 17853	40.70966	-74.01644	1	-0.718926178
## 17855	40.73885	-73.98786	1	-0.366204019
## 17857	40.777041	-73.99242	1	0.233423650
## 17858	40.74056	-73.98077	1	-0.718926178
## 17860	40.74940	-73.97840	2	1.056442020
## 17862	40.73379	-73.97754	1	-0.883529852
## 17863	40.70600	-74.01068	2	1.068199425
## 17865	40.76414	-73.98652	2	0.456814350
## 17867	40.76035	-73.98587	1	2.279212169
## 17868	40.79368	-73.94294	1	-0.648381746
## 17870	40.76195	-73.98771	2	1.526738231
## 17872	40.73040	-74.00301	2	2.243939953
## 17873	40.76926	-73.98746	1	-0.413233640
## 17875	40.75628	-73.97072	1	2.878839838
## 17877	40.80220	-73.96660	2	2.290969574
## 17878	40.78493	-73.97294	2	0.527358782
## 17880	40.74896	-73.97521	2	0.962382777
## 17882	40.73341	-74.00444	2	0.786021698
## 17883	40.75493	-73.99676	1	0.821293914
## 17885	40.74184	-73.99810	2	0.586145808
## 17887	40.82757	-73.94915	1	-0.777713204
## 17888	40.72504	-73.98327	1	-0.730683583
## 17890	40.75731	-73.98326	2	0.550873593
## 17892	40.73882	-73.98291	2	1.044684614
## 17893	40.76094	-73.99129	1	-0.119298508
## 17895	40.82195	-73.95572	1	-0.918802068
## 17897	40.82791	-73.94752	1	-0.765955799
## 17898	40.84505	-73.93779	1	-1.001103905
## 17900	40.76186	-73.99714	2	3.713615613
## 17902	40.78331	-73.94646	2	-0.366204019
## 17903	40.72690	-73.98368	2	-0.025239266
## 17905	40.72950	-73.98327	2	0.033547760
## 17907	40.80598	-73.94792	2	2.290969574
## 17908	40.73867	-73.98039	2	-0.883529852
## 17910	40.73488	-73.98585	2	0.703719861

## 17912 40.77912 -73.98029	2	1.056442020
## 17913 40.77760 -73.94634	2	0.409784729
## 17915 40.71253 -73.99599	1	0.174636624
## 17917 40.80808 -73.94050	1	-0.472020667
## 17918 40.76306 -73.98867	3	-0.765955799
## 17920 40.72527 -74.00043	1	-0.295659588
## 17922 40.83713 -73.94827	1	-0.765955799
## 17923 40.74286 -73.99436	2	0.927110562
## 17925 40.77872 -73.98435	2	-0.213357751
## 17927 40.82943 -73.94690	1	-0.942316878
## 17928 40.76694 -73.98773	2	1.985277037
## 17930 40.78317 -73.94559	2	0.644932835
## 17932 40.72697 -74.00409	2	0.233423650
## 17933 40.72222 -73.99692	1	0.233423650
## 17935 40.80100 -73.96696	1	-0.601352125
## 17937 40.76049 -73.97066	2	1.115229046
## 17938 40.72997 -73.98553	1	-0.801228015
## 17940 40.72932 -73.98474	1	-0.730683583
## 17942 40.72821 -73.98633	1	-0.801228015
## 17943 40.82008 -73.93863	1	-0.648381746
## 17945 40.70754 -74.00683	2	0.762506888
## 17947 40.76448 -73.98895	3	-0.648381746
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## 17950 40.76592 -73.98769	3	-0.648381746
## 17952 40.76089 -73.98709	1	1.985277037
## 17953 40.76057 -73.98455	2	2.502602869
## 17955 40.71500 -73.98633	1	-0.519050288
## 17957 40.80392 -73.95829	1	-0.354446614
## 17958 40.82039 -73.94402	1	-0.942316878
## 17960 40.72213 -73.97791	1	1.397406773
## 17962 40.74284 -73.97967	2	0.233423650
## 17963 40.82400 -73.95229	1	-0.942316878
## 17965 40.72583 -73.97945	2	0.445056945
## 17967 40.76156 -73.98749	2	0.350997703
## 17968 40.76213 -73.94893	2	0.350997703
## 17970 40.76038 -73.95085	1	-0.589594720
## 17972 40.71190 -73.99364	2	1.409164178
## 17973 40.70690 -74.00606	2	0.762506888
## 17975 40.74885 -73.98698	2	1.526738231
## 17977 40.76291 -73.98750	2	1.409164178
## 17978 40.74613 -73.97528	2	0.527358782
## 17980 40.82576 -73.94861	1	-0.671896557
## 17982 40.74620 -73.97296	2	0.350997703
## 17983 40.74392 -73.98072	3	-1.118677957
## 17985 40.74758 -73.98276	2	1.985277037
## 17987 40.75492 -73.98027	1	2.961141675
## 17988 40.73508 -74.00004	2	0.868323535
## 17990 40.74362 -73.98207	2	3.031686107
## 17992 40.76329 -73.96119	1	-0.248629967
## 17993 40.73242 -74.00404	2	3.172774970
## 17995 40.80031 -73.96775	1	-0.707168773
## 17997 40.73161 -73.98438	2	1.056442020
## 17998 40.75024 -74.00213	2	0.527358782
## 18000 40.72625 -73.99014	2	2.584904706

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## 18005	40.71728	-73.99085	1	-0.542565099
## 18007	40.82808	-73.94563	2	0.209908839
## 18008	40.76655	-73.99216	1	2.584904706
## 18010	40.77390	-73.94937	2	2.820052812
## 18012	40.82734	-73.94718	2	-0.530807693
## 18013	40.80071	-73.96616	1	-0.589594720
## 18015	40.71420	-73.99254	2	0.233423650
## 18017	40.76582	-73.97958	2	3.161017565
## 18018	40.70522	-74.00925	1	0.233423650
## 18020	40.86507	-73.92348	1	-1.118677957
## 18022	40.76309	-73.98063	2	0.703719861
## 18023	40.82311	-73.94749	2	-0.001724456
## 18025	40.80143	-73.93803	1	-0.942316878
## 18027	40.78910	-73.94906	2	0.586145808
## 18028	40.77424	-73.98827	2	1.526738231
## 18030	40.71171	-73.99077	2	-0.060511482
## 18032	40.78909	-73.94956	2	0.586145808
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## 18035	40.72853	-73.98173	2	-0.483778072
## 18037	40.77362	-73.99133	2	1.409164178
## 18038	40.76054	-73.96449	2	-0.001724456
## 18040	40.75475	-73.97243	1	3.161017565
## 18042	40.80880	-73.94527	1	-0.354446614
## 18043	40.81072	-73.94235	1	-0.530807693
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## 18047	40.77927	-73.95165	1	-0.377961425
## 18048	40.70529	-74.00653	1	1.914732605
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## 18058	40.79415	-73.94156	1	-0.472020667
## 18060	40.86208	-73.92690	1	-0.354446614
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## 18063	40.86387	-73.92711	1	0.586145808
## 18065	40.76430	-73.98199	2	2.114608495
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## 18092 40.75833 -73.99516	1 0.938867967
## 18093 40.72808 -73.98273	2 0.409784729
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## 18097 40.75893 -73.99485	1 1.961762226
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## 18100 40.75885 -73.99595	1 0.057062571
## 18102 40.74225 -73.97943	3 -1.118677957
## 18103 40.72345 -73.98152	2 1.761886337
## 18105 40.74825 -73.99542	1 -0.648381746
## 18107 40.74197 -73.99703	2 -0.119298508
## 18108 40.79781 -73.93599	1 -0.060511482
## 18110 40.76446 -73.98123	1 -0.413233640
## 18112 40.85487 -73.92759	1 -1.153950173
## 18113 40.79583 -73.93328	2 0.350997703
## 18115 40.78520 -73.97140	1 -0.225115156
## 18117 40.77884 -73.98591	2 0.586145808
## 18118 40.81323 -73.94220	2 0.409784729
## 18120 40.78540 -73.94981	2 1.409164178
## 18122 40.76218 -73.95858	2 0.233423650
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## 18125 40.81749 -73.93875	1 -0.648381746
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## 18130 40.78075 -73.95108	2 -0.060511482
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## 18170 40.76088 -73.99081	2 0.162879218
## 18172 40.70956 -74.00713	1 1.409164178
## 18173 40.82868 -73.94678	2 0.339240298
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## 18197 40.72044 -73.98335	2 1.291590125
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## 18200 40.75277 -73.96594	2 3.396165671
## 18202 40.71099 -73.99442	1 0.233423650
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## 18207 40.76838 -73.98723	3 -0.413233640
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## 18210 40.72191 -73.97869	2 0.350997703
## 18212 40.86774 -73.92401	2 -0.366204019
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## 18232 40.80119 -73.95749	2 0.115849597
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## 18237 40.75450 -73.97067	2 1.526738231
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## 18385	40.70645	-74.01180	2	1.291590125
## 18387	40.70793	-74.01043	2	1.162258667
## 18388	40.70784	-74.01070	2	1.162258667
## 18390	40.74805	-73.97855	2	0.821293914
## 18392	40.84661	-73.93444	1	-0.824742825
## 18393	40.70723	-74.01086	2	1.162258667
## 18395	40.76440	-73.96330	2	0.398027324
## 18397	40.71492	-74.01154	2	2.643691733
## 18398	40.76291	-73.96448	2	0.233423650
## 18400	40.76490	-73.96795	2	3.113987944
## 18402	40.75104	-73.99544	2	0.821293914
## 18403	40.81824	-73.93919	1	-0.530807693
## 18405	40.85768	-73.92855	1	-0.707168773
## 18407	40.73272	-74.00797	2	0.292210676
## 18408	40.76223	-73.97588	2	0.339240298
## 18410	40.72235	-73.97772	2	0.409784729
## 18412	40.81482	-73.95192	1	-0.930559473
## 18413	40.74922	-73.99680	1	-0.366204019
## 18415	40.73131	-74.00619	2	0.280453271
## 18417	40.75452	-73.97092	2	1.409164178
## 18418	40.70563	-74.00919	2	2.290969574
## 18420	40.87079	-73.91961	1	-0.707168773
## 18422	40.77620	-73.98028	2	1.691341905
## 18423	40.73036	-73.98701	2	-0.001724456
## 18425	40.75280	-73.97092	2	0.233423650
## 18427	40.80717	-73.94386	2	-0.236872561
## 18428	40.72241	-73.98554	2	0.586145808
## 18430	40.79834	-73.94337	2	1.997034442
## 18432	40.75625	-73.96416	1	-0.131055914
## 18433	40.78582	-73.95546	2	0.174636624
## 18435	40.74501	-73.98319	1	0.233423650
## 18437	40.74469	-73.98037	2	-0.119298508
## 18438	40.81342	-73.95650	2	0.409784729
## 18440	40.76130	-73.96152	2	1.056442020
## 18442	40.76124	-74.00059	2	0.809536509
## 18443	40.75661	-73.96396	1	-0.354446614
## 18445	40.76037	-73.99171	1	-0.236872561
## 18447	40.74263	-73.97639	1	-0.354446614
## 18448	40.72152	-73.98625	3	-0.154570724
## 18450	40.77203	-73.95344	3	-0.648381746

## 18452	40.77019	-73.95449	3	-0.648381746
## 18453	40.76661	-73.99082	3	-0.530807693
## 18455	40.72919	-73.98151	2	1.879460389
## 18457	40.79961	-73.95961	1	-0.824742825
## 18458	40.76996	-73.95771	2	1.409164178
## 18460	40.79848	-73.95983	1	-0.824742825
## 18462	40.79834	-73.96117	1	-0.824742825
## 18463	40.80004	-73.96066	1	-0.824742825
## 18465	40.79972	-73.96107	1	-0.824742825
## 18467	40.72554	-73.98875	1	-0.354446614
## 18468	40.80037	-73.95940	1	-0.824742825
## 18470	40.80035	-73.96106	1	-0.824742825
## 18472	40.70713	-74.01205	2	1.467951205
## 18473	40.70621	-74.01199	2	1.162258667
## 18475	40.80006	-73.96095	1	-0.824742825
## 18477	40.70779	-74.01249	2	3.055200917
## 18478	40.80238	-73.96737	2	0.115849597
## 18480	40.72825	-74.00330	1	0.233423650
## 18482	40.75966	-73.99277	2	2.584904706
## 18483	40.76853	-73.96407	1	-0.601352125
## 18485	40.74034	-74.00084	2	0.374512513
## 18487	40.76347	-73.98776	2	3.407923076
## 18488	40.86202	-73.92771	1	-1.001103905
## 18490	40.79580	-73.93766	1	-0.472020667
## 18492	40.85719	-73.93048	1	-1.118677957
## 18493	40.76236	-73.96482	1	0.350997703
## 18495	40.82032	-73.94464	1	-0.836500231
## 18497	40.76412	-73.99173	2	1.632554878
## 18498	40.74945	-73.99511	2	-0.366204019
## 18500	40.81153	-73.96112	3	-1.130435363
## 18502	40.75114	-73.99843	2	0.233423650
## 18503	40.81003	-73.94535	2	-0.354446614
## 18505	40.71715	-74.00368	2	2.526117680
## 18507	40.75886	-73.96596	2	0.821293914
## 18508	40.83532	-73.94428	1	-0.977589094
## 18510	40.76491	-73.98659	2	0.409784729
## 18512	40.72777	-73.97951	1	0.586145808
## 18513	40.78548	-73.97078	2	2.608419517
## 18515	40.77127	-73.99237	2	2.702478759
## 18517	40.71697	-73.98605	2	2.290969574
## 18518	40.78995	-73.94603	1	-0.354446614
## 18520	40.77318	-73.98836	2	1.997034442
## 18522	40.777414	-73.95301	2	0.115849597
## 18523	40.84150	-73.93750	1	-0.883529852
## 18525	40.85531	-73.92830	1	-0.648381746
## 18527	40.81482	-73.94477	1	-0.648381746
## 18528	40.83266	-73.94140	1	-1.001103905
## 18530	40.76650	-73.98943	3	-0.530807693
## 18532	40.80332	-73.94853	1	-0.413233640
## 18533	40.80144	-73.96409	1	-1.012861310
## 18535	40.76597	-73.98930	1	-0.377961425
## 18537	40.78222	-73.94560	1	-0.413233640
## 18538	40.74578	-73.99091	1	-0.001724456
## 18540	40.71983	-73.98981	1	0.057062571

## 18542	40.72359	-73.98519	2	0.115849597
## 18543	40.82185	-73.94130	1	-0.366204019
## 18545	40.78364	-73.94586	2	0.527358782
## 18547	40.83588	-73.93978	1	-0.765955799
## 18548	40.73198	-74.00526	2	0.221666245
## 18550	40.73286	-74.00463	2	0.350997703
## 18552	40.81431	-73.93994	2	-0.001724456
## 18553	40.72811	-73.99893	1	-0.472020667
## 18555	40.80958	-73.95743	2	-0.001724456
## 18557	40.82715	-73.94667	1	-0.883529852
## 18558	40.80337	-73.96511	1	-0.718926178
## 18560	40.76447	-73.99103	3	-0.718926178
## 18562	40.72200	-73.98256	2	0.574388403
## 18563	40.73193	-73.97971	1	-0.178085535
## 18565	40.72827	-73.98041	1	-0.554322504
## 18567	40.74483	-73.99649	1	-0.236872561
## 18568	40.73367	-74.00497	2	1.409164178
## 18570	40.82289	-73.95400	1	-0.119298508
## 18572	40.85075	-73.93982	2	-0.119298508
## 18573	40.82609	-73.94948	1	-0.954074283
## 18575	40.70714	-74.01208	2	1.479708610
## 18577	40.70754	-74.01206	2	1.291590125
## 18578	40.70701	-74.01176	2	1.467951205
## 18580	40.77341	-73.98120	2	0.421542134
## 18582	40.72670	-73.98316	1	-0.366204019
## 18583	40.83611	-73.94162	2	0.362755108
## 18585	40.74818	-73.98247	2	1.985277037
## 18587	40.80237	-73.96695	2	-0.119298508
## 18588	40.72222	-73.98221	2	0.703719861
## 18590	40.73431	-73.98167	1	-0.836500231
## 18592	40.70700	-74.01208	2	3.266834213
## 18593	40.74694	-74.00130	2	-0.354446614
## 18595	40.74546	-73.98679	2	2.902354649
## 18597	40.73850	-73.98200	2	2.161638116
## 18598	40.73905	-73.98225	2	2.161638116
## 18600	40.81597	-73.94114	1	-0.472020667
## 18602	40.82361	-73.94599	1	-0.836500231
## 18603	40.75364	-73.99291	2	0.221666245
## 18605	40.70735	-74.01221	2	0.997654993
## 18607	40.74073	-73.99884	2	0.586145808
## 18608	40.72625	-73.98625	2	0.456814350
## 18610	40.72080	-73.98959	1	-0.472020667
## 18612	40.71833	-73.98936	1	-0.366204019
## 18613	40.77362	-73.94886	2	-0.001724456
## 18615	40.72611	-74.00337	2	0.750749482
## 18617	40.77507	-73.94785	2	0.233423650
## 18618	40.72935	-73.98260	2	-0.001724456
## 18620	40.78046	-73.97840	2	0.233423650
## 18622	40.80665	-73.96062	2	-0.178085535
## 18623	40.76245	-73.99831	2	0.797779103
## 18625	40.80514	-73.95561	1	0.115849597
## 18627	40.84405	-73.93714	1	-0.954074283
## 18628	40.74999	-74.00205	2	0.762506888
## 18630	40.83489	-73.94587	1	-0.530807693

## 18632	40.79787	-73.93568	1	-0.472020667
## 18633	40.84387	-73.93969	1	-0.836500231
## 18635	40.70816	-74.00190	2	2.761265785
## 18637	40.76461	-73.98997	2	0.233423650
## 18638	40.71588	-73.99099	2	0.057062571
## 18640	40.83466	-73.94029	1	-0.824742825
## 18642	40.76303	-73.98894	2	0.221666245
## 18643	40.76601	-73.98414	2	0.703719861
## 18645	40.80181	-73.96683	2	3.760645234
## 18647	40.81808	-73.93671	1	-1.001103905
## 18648	40.70649	-74.01217	2	1.338619746
## 18650	40.70712	-74.01201	2	0.644932835
## 18652	40.70803	-74.00639	2	-0.354446614
## 18653	40.70722	-74.00499	2	0.398027324
## 18655	40.75797	-73.96356	2	1.115229046
## 18657	40.75618	-73.99321	2	1.409164178
## 18658	40.80495	-73.96439	1	-0.942316878
## 18660	40.75603	-73.99511	1	3.525497129
## 18662	40.75720	-73.99482	1	3.055200917
## 18663	40.75702	-73.99382	1	3.290349023
## 18665	40.81622	-73.94276	1	-1.083405742
## 18667	40.71655	-73.99224	2	0.821293914
## 18668	40.80383	-73.96724	1	-0.836500231
## 18670	40.72720	-73.98993	1	-0.671896557
## 18672	40.76229	-73.99994	1	0.809536509
## 18673	40.77860	-73.95028	2	-0.119298508
## 18675	40.76654	-73.95825	1	-1.083405742
## 18677	40.70560	-74.01190	2	1.479708610
## 18678	40.70659	-74.01105	2	3.972278529
## 18680	40.70736	-74.01250	2	1.021169804
## 18682	40.77132	-73.94829	2	-0.036996671
## 18683	40.77348	-73.94601	1	-1.095163147
## 18685	40.77167	-73.95529	1	-0.119298508
## 18687	40.80084	-73.94514	3	-1.118677957
## 18688	40.76310	-73.98963	1	-0.648381746
## 18690	40.76413	-73.97691	2	0.691962456
## 18692	40.71691	-74.00511	2	1.609040068
## 18693	40.74269	-73.99911	2	2.185152927
## 18695	40.70586	-74.00904	2	1.550253041
## 18697	40.83248	-73.94177	1	-0.942316878
## 18698	40.70776	-74.01239	2	3.995793340
## 18700	40.70744	-74.01048	2	1.162258667
## 18702	40.70713	-74.01248	2	1.150501262
## 18703	40.74411	-73.98209	2	1.279832720
## 18705	40.79325	-73.93386	2	0.233423650
## 18707	40.74781	-73.99436	2	2.937626865
## 18708	40.84237	-73.93914	2	1.997034442
## 18710	40.74430	-73.97519	2	2.044064063
## 18712	40.72555	-73.98499	2	1.997034442
## 18713	40.81864	-73.94108	1	-0.824742825
## 18715	40.74301	-73.99370	2	1.397406773
## 18717	40.78198	-73.97571	2	1.397406773
## 18718	40.74511	-73.97407	2	4.336758093
## 18720	40.71456	-73.98986	2	1.409164178

## 18722	40.71633	-74.00521	2	3.478467508
## 18723	40.86473	-73.92641	1	-0.824742825
## 18725	40.72729	-73.97618	1	1.409164178
## 18727	40.81249	-73.94175	1	-0.472020667
## 18728	40.71910	-73.99671	2	0.233423650
## 18730	40.75923	-73.98669	2	1.079956830
## 18732	40.76802	-73.99298	2	1.397406773
## 18733	40.86594	-73.92487	1	-0.989346499
## 18735	40.74375	-73.97372	2	4.336758093
## 18737	40.76152	-73.98587	2	0.315725487
## 18738	40.76417	-73.99334	1	0.174636624
## 18740	40.78422	-73.97754	2	1.985277037
## 18742	40.70630	-74.01254	2	1.373891962
## 18743	40.74360	-73.97680	2	2.126365900
## 18745	40.74624	-73.97250	2	1.985277037
## 18747	40.75338	-73.99822	2	2.820052812
## 18748	40.75526	-73.99450	2	0.762506888
## 18750	40.75029	-73.99492	1	-0.013481861
## 18752	40.76514	-73.96176	1	-1.083405742
## 18753	40.78967	-73.94199	2	0.174636624
## 18755	40.74285	-73.99595	2	1.726614121
## 18757	40.74455	-73.97162	2	0.374512513
## 18758	40.70800	-74.01485	1	-0.918802068
## 18760	40.76166	-73.99691	2	0.609660619
## 18762	40.76061	-73.99670	2	0.691962456
## 18763	40.74889	-73.99656	1	0.809536509
## 18765	40.75022	-73.99632	1	0.809536509
## 18767	40.75059	-73.99670	1	0.809536509
## 18768	40.74914	-73.99471	1	0.809536509
## 18770	40.74975	-73.99610	1	-0.013481861
## 18772	40.74940	-73.99519	1	0.221666245
## 18773	40.70709	-74.01241	2	1.491466015
## 18775	40.75055	-73.99482	1	0.221666245
## 18777	40.74899	-73.99605	1	0.339240298
## 18778	40.74882	-73.99663	1	0.339240298
## 18780	40.74913	-73.99513	1	0.339240298
## 18782	40.77052	-73.96683	2	1.397406773
## 18783	40.76241	-73.99606	2	0.609660619
## 18785	40.81672	-73.94746	1	0.057062571
## 18787	40.76218	-73.99646	2	0.691962456
## 18788	40.76182	-73.99600	2	0.668447645
## 18790	40.74883	-73.97520	2	0.821293914
## 18792	40.76198	-73.99644	2	0.633175430
## 18793	40.76229	-73.99628	2	0.668447645
## 18795	40.74695	-73.97615	2	0.821293914
## 18797	40.75548	-73.99513	2	1.115229046
## 18798	40.74693	-73.97582	2	0.868323535
## 18800	40.78161	-73.94852	2	3.760645234
## 18802	40.74673	-73.98191	2	1.997034442
## 18803	40.81548	-73.94556	1	0.057062571
## 18805	40.71333	-73.99419	2	1.997034442
## 18807	40.72325	-73.98776	2	-0.119298508
## 18808	40.80378	-73.96619	1	-0.942316878
## 18810	40.76760	-73.98609	1	-0.236872561

## 18812	40.74320	-73.97703	2	0.703719861
## 18813	40.76273	-73.99192	2	1.397406773
## 18815	40.74475	-74.00108	2	0.045305165
## 18817	40.81250	-73.95305	1	-0.707168773
## 18818	40.74895	-73.99652	2	2.937626865
## 18820	40.73521	-74.00528	2	0.586145808
## 18822	40.72249	-73.99758	2	4.336758093
## 18823	40.75514	-73.96773	1	-0.248629967
## 18825	40.80078	-73.94335	3	-0.824742825
## 18827	40.72301	-74.00229	2	0.350997703
## 18828	40.71300	-73.99645	2	0.821293914
## 18830	40.76459	-73.98167	1	3.113987944
## 18832	40.82672	-73.94948	1	-0.942316878
## 18833	40.71815	-73.99756	1	-0.930559473
## 18835	40.71786	-73.99790	1	-0.836500231
## 18837	40.80168	-73.96143	1	-0.824742825
## 18838	40.70685	-74.00698	2	-0.001724456
## 18840	40.80800	-73.96643	2	0.821293914
## 18842	40.77796	-73.98191	2	1.174016072
## 18843	40.72492	-73.99496	2	1.409164178
## 18845	40.777904	-73.98786	2	0.586145808
## 18847	40.70767	-74.00495	2	0.574388403
## 18848	40.71508	-73.99112	2	0.057062571
## 18850	40.74357	-73.97647	2	1.985277037
## 18852	40.72859	-73.97977	2	1.409164178
## 18853	40.74287	-73.99785	2	4.336758093
## 18855	40.78728	-73.94710	2	-1.118677957
## 18857	40.70965	-74.01388	2	0.445056945
## 18858	40.75607	-73.96768	2	2.290969574
## 18860	40.72693	-73.98374	1	-0.354446614
## 18862	40.72995	-73.98453	2	1.656069689
## 18863	40.73137	-73.98504	2	1.820673363
## 18865	40.76324	-73.98985	2	3.748887829
## 18867	40.73002	-73.98356	2	1.973519632
## 18868	40.73551	-74.00167	2	2.584904706
## 18870	40.76215	-73.99589	1	-0.213357751
## 18872	40.80000	-73.96026	2	3.619556371
## 18873	40.76118	-73.98628	2	0.280453271
## 18875	40.86234	-73.92705	1	-0.472020667
## 18877	40.73077	-73.98322	2	1.985277037
## 18878	40.74229	-73.99590	2	0.927110562
## 18880	40.70597	-74.01258	2	3.913491503
## 18882	40.76169	-73.99626	2	0.668447645
## 18883	40.75965	-73.98652	2	0.997654993
## 18885	40.70641	-74.00674	2	-0.001724456
## 18887	40.78402	-73.95201	2	3.161017565
## 18888	40.72223	-73.99544	2	0.821293914
## 18890	40.72650	-73.98220	2	2.479088059
## 18892	40.80036	-73.95598	2	1.985277037
## 18893	40.77567	-73.98800	2	0.703719861
## 18895	40.77033	-73.98521	2	0.703719861
## 18897	40.74386	-73.99344	1	-0.530807693
## 18898	40.77633	-73.95266	1	-0.424991046
## 18900	40.72925	-73.98005	2	1.409164178

## 18902	40.74054	-73.98681	2	3.043443512
## 18903	40.74392	-74.00301	2	0.339240298
## 18905	40.70781	-74.00525	2	0.574388403
## 18907	40.74781	-74.00084	2	0.762506888
## 18908	40.78599	-73.94256	1	-1.001103905
## 18910	40.75966	-73.98928	2	0.127607002
## 18912	40.75568	-73.96675	2	1.291590125
## 18913	40.83052	-73.95014	1	-0.354446614
## 18915	40.83416	-73.94327	1	-0.883529852
## 18917	40.76360	-73.96201	2	0.233423650
## 18918	40.71329	-73.98787	1	-0.483778072
## 18920	40.81155	-73.94339	2	0.409784729
## 18922	40.79805	-73.93399	2	2.925869459
## 18923	40.75861	-73.98231	1	0.821293914
## 18925	40.80625	-73.94694	1	-0.178085535
## 18927	40.70708	-74.00992	2	1.174016072
## 18928	40.70796	-74.00288	1	1.644312284
## 18930	40.76956	-73.95632	2	3.161017565
## 18932	40.81791	-73.94246	1	-0.765955799
## 18933	40.74141	-73.97684	1	-0.354446614
## 18935	40.76059	-73.99650	2	1.879460389
## 18937	40.76154	-73.95797	2	0.362755108
## 18938	40.71634	-74.00694	2	2.055821469
## 18940	40.77984	-73.95231	2	-0.201600345
## 18942	40.73916	-74.00511	2	1.409164178
## 18943	40.76173	-73.96216	2	1.985277037
## 18945	40.73745	-73.98168	2	3.161017565
## 18947	40.85090	-73.93345	1	-0.648381746
## 18948	40.85115	-73.93223	1	0.233423650
## 18950	40.77650	-73.95458	2	0.821293914
## 18952	40.84942	-73.93223	1	0.233423650
## 18953	40.80360	-73.95308	1	0.233423650
## 18955	40.80249	-73.96588	2	2.408543627
## 18957	40.70581	-74.00784	2	2.232182548
## 18958	40.80735	-73.95938	2	0.233423650
## 18960	40.70532	-74.00681	2	2.467330653
## 18962	40.75845	-73.98026	1	2.290969574
## 18963	40.76220	-73.99119	2	4.172154419
## 18965	40.80948	-73.95514	2	0.209908839
## 18967	40.74566	-73.99579	2	1.997034442
## 18968	40.76163	-73.96523	2	0.221666245
## 18970	40.75610	-73.99097	2	1.997034442
## 18972	40.78032	-73.97812	1	-0.883529852
## 18973	40.70471	-74.00870	2	0.350997703
## 18975	40.74557	-74.00825	2	1.761886337
## 18977	40.76330	-73.98780	2	0.821293914
## 18978	40.71977	-73.98423	1	-0.025239266
## 18980	40.85112	-73.93851	2	-0.460263262
## 18982	40.71911	-73.98414	2	1.409164178
## 18983	40.73731	-74.00929	2	0.115849597
## 18985	40.86191	-73.92726	1	-0.060511482
## 18987	40.74532	-73.97534	3	-1.024618715
## 18988	40.80068	-73.94072	2	1.761886337
## 18990	40.77157	-73.99309	1	0.233423650

## 18992	40.82990	-73.94361	1	-0.718926178
## 18993	40.77024	-73.99213	2	0.468571756
## 18995	40.74443	-73.99166	1	0.115849597
## 18997	40.71967	-73.98530	2	-0.001724456
## 18998	40.78958	-73.97940	2	0.409784729
## 19000	40.72791	-73.98485	2	0.233423650
## 19002	40.75745	-73.98596	1	-0.354446614
## 19003	40.75588	-73.98700	1	-0.354446614
## 19005	40.75750	-73.98728	1	-0.354446614
## 19007	40.75590	-73.98562	1	-0.354446614
## 19008	40.75612	-73.98622	1	-0.354446614
## 19010	40.81257	-73.94444	2	0.562630998
## 19012	40.74129	-74.00457	1	-0.248629967
## 19013	40.74052	-74.00310	1	0.809536509
## 19015	40.74006	-74.00248	1	0.339240298
## 19017	40.70562	-74.00712	2	2.232182548
## 19018	40.76421	-73.99132	2	1.879460389
## 19020	40.75732	-73.95314	2	1.467951205
## 19022	40.81396	-73.94488	2	0.350997703
## 19023	40.73098	-73.99361	2	0.527358782
## 19025	40.76470	-73.97452	1	-0.354446614
## 19027	40.76443	-73.97588	1	2.584904706
## 19028	40.76425	-73.97642	1	4.054580366
## 19030	40.76535	-73.97556	1	3.466710102
## 19032	40.76427	-73.97618	1	2.878839838
## 19033	40.76490	-73.97602	1	3.760645234
## 19035	40.76393	-73.97580	1	3.760645234
## 19037	40.76559	-73.97632	1	3.466710102
## 19038	40.72243	-74.00430	1	-0.354446614
## 19040	40.72172	-74.00436	1	-0.354446614
## 19042	40.72324	-74.00401	1	-0.354446614
## 19043	40.72390	-74.00379	1	-0.354446614
## 19045	40.76476	-73.98246	1	-0.354446614
## 19047	40.76413	-73.98431	1	-0.354446614
## 19048	40.76352	-73.98280	1	-0.354446614
## 19050	40.76413	-73.98435	1	-0.354446614
## 19052	40.75466	-73.98487	1	-0.354446614
## 19053	40.75481	-73.98560	1	-0.354446614
## 19055	40.75645	-73.98500	1	-0.354446614
## 19057	40.75491	-73.98507	1	-0.354446614
## 19058	40.75631	-73.98383	1	-0.354446614
## 19060	40.76581	-73.98350	1	-0.354446614
## 19062	40.76574	-73.98201	1	-0.354446614
## 19063	40.76547	-73.98252	1	-0.354446614
## 19065	40.76156	-73.98471	1	-0.354446614
## 19067	40.76251	-73.98455	1	1.997034442
## 19068	40.76248	-73.98584	1	-0.354446614
## 19070	40.76246	-73.98396	1	-0.354446614
## 19072	40.76179	-73.98399	1	-0.354446614
## 19073	40.76187	-73.98413	1	-0.354446614
## 19075	40.75608	-73.98915	1	-0.354446614
## 19077	40.75612	-73.98864	1	-0.354446614
## 19078	40.75513	-73.98772	1	-0.354446614
## 19080	40.75609	-73.98724	1	-0.354446614

## 19082	40.75657	-73.98810	1	-0.354446614
## 19083	40.75471	-73.98781	1	-0.354446614
## 19085	40.75661	-73.98757	1	-0.354446614
## 19087	40.75569	-73.98933	1	-0.354446614
## 19088	40.76275	-73.98429	1	-0.354446614
## 19090	40.76267	-73.98390	1	-0.354446614
## 19092	40.76270	-73.98437	1	-0.354446614
## 19093	40.76251	-73.98392	1	-0.354446614
## 19095	40.76112	-73.98377	1	-0.354446614
## 19097	40.76262	-73.98305	1	-0.354446614
## 19098	40.76203	-73.98191	1	-0.354446614
## 19100	40.76055	-73.98362	1	-0.354446614
## 19102	40.76547	-73.97952	2	1.409164178
## 19103	40.72709	-73.98582	2	0.233423650
## 19105	40.75562	-73.99459	2	0.527358782
## 19107	40.76297	-73.98951	2	0.574388403
## 19108	40.72859	-73.98008	2	0.233423650
## 19110	40.74894	-73.99466	2	1.761886337
## 19112	40.76703	-73.95556	2	0.292210676
## 19113	40.76622	-73.95295	2	0.821293914
## 19115	40.70719	-74.00664	2	0.997654993
## 19117	40.75697	-73.96312	2	2.467330653
## 19118	40.74611	-73.98228	2	2.584904706
## 19120	40.70669	-74.01650	1	-0.354446614
## 19122	40.70497	-74.01721	1	-0.354446614
## 19123	40.70622	-74.01651	1	-0.354446614
## 19125	40.70515	-74.01851	1	-0.354446614
## 19127	40.70494	-74.01692	1	-0.354446614
## 19128	40.85584	-73.93364	1	-0.295659588
## 19130	40.74478	-73.98618	1	1.997034442
## 19132	40.74433	-73.98555	1	1.409164178
## 19133	40.74476	-73.98551	1	2.584904706
## 19135	40.74501	-73.98668	1	2.584904706
## 19137	40.74312	-73.98589	1	2.584904706
## 19138	40.81816	-73.93932	1	0.233423650
## 19140	40.76412	-73.99141	1	0.115849597
## 19142	40.81142	-73.93748	2	-0.119298508
## 19143	40.80058	-73.96287	2	3.172774970
## 19145	40.77728	-73.98062	2	1.985277037
## 19147	40.70571	-74.00784	2	1.985277037
## 19148	40.70512	-74.00719	2	2.102851090
## 19150	40.71952	-73.98546	2	1.409164178
## 19152	40.83326	-73.94314	1	-0.883529852
## 19153	40.81721	-73.94593	1	-0.954074283
## 19155	40.76761	-73.99208	2	2.114608495
## 19157	40.73512	-73.99445	2	0.468571756
## 19158	40.77707	-73.95405	2	2.573147301
## 19160	40.79238	-73.94402	2	-0.119298508
## 19162	40.76739	-73.98504	2	0.233423650
## 19163	40.80032	-73.95998	2	1.820673363
## 19165	40.70714	-74.00525	2	-0.354446614
## 19167	40.74871	-73.97413	2	2.020549253
## 19168	40.70658	-74.00684	2	-0.354446614
## 19170	40.70713	-74.00483	2	-0.354446614

## 19172	40.70798	-74.00498	2	-0.001724456
## 19173	40.74305	-73.99415	2	1.456193799
## 19175	40.77702	-73.98052	2	1.103471641
## 19177	40.81775	-73.94931	1	-0.648381746
## 19178	40.76239	-73.99003	2	1.997034442
## 19180	40.78222	-73.97676	2	2.949384270
## 19182	40.73388	-73.98311	2	1.985277037
## 19183	40.72517	-73.99274	2	2.067578874
## 19185	40.73301	-73.99819	2	3.407923076
## 19187	40.74411	-74.00166	2	1.350377152
## 19188	40.76125	-73.98167	2	3.172774970
## 19190	40.82300	-73.93966	1	-0.954074283
## 19192	40.74412	-73.97609	2	0.809536509
## 19193	40.81942	-73.95796	2	-0.366204019
## 19195	40.79466	-73.94032	1	-1.130435363
## 19197	40.76134	-73.99299	2	0.233423650
## 19198	40.77212	-73.98641	2	0.527358782
## 19200	40.77221	-73.98085	1	-0.448505856
## 19202	40.77706	-73.98383	2	1.409164178
## 19203	40.79905	-73.94453	3	-0.648381746
## 19205	40.71761	-73.98233	2	1.409164178
## 19207	40.73437	-74.00739	2	0.527358782
## 19208	40.75893	-73.99000	2	2.584904706
## 19210	40.72877	-73.98848	2	0.821293914
## 19212	40.73676	-73.98685	2	1.409164178
## 19213	40.76762	-73.95693	2	0.938867967
## 19215	40.75896	-73.98216	1	-0.460263262
## 19217	40.76767	-73.98914	1	-0.377961425
## 19218	40.73170	-74.00395	2	0.233423650
## 19220	40.74798	-73.98751	1	-0.519050288
## 19222	40.82414	-73.95393	1	-1.059890931
## 19223	40.72472	-73.98251	2	0.586145808
## 19225	40.82978	-73.94022	1	-0.824742825
## 19227	40.76436	-73.95669	2	0.938867967
## 19228	40.78673	-73.97304	2	-0.001724456
## 19230	40.74674	-74.00316	2	2.385028816
## 19232	40.71713	-73.98541	2	0.821293914
## 19233	40.86284	-73.92704	1	-0.824742825
## 19235	40.76103	-73.97996	2	1.409164178
## 19237	40.75450	-73.99954	2	-0.354446614
## 19238	40.76465	-73.98812	2	3.748887829
## 19240	40.72757	-73.98336	2	0.233423650
## 19242	40.76200	-73.96340	2	1.997034442
## 19243	40.80672	-73.95712	1	-0.671896557
## 19245	40.71098	-73.99426	1	-0.589594720
## 19247	40.70721	-74.00559	2	-0.354446614
## 19248	40.80317	-73.95559	2	2.584904706
## 19250	40.74493	-73.98484	1	-0.001724456
## 19252	40.72904	-74.00119	2	1.409164178
## 19253	40.80641	-73.95518	1	-0.589594720
## 19255	40.73283	-73.98228	1	-0.765955799
## 19257	40.75445	-73.99707	2	1.632554878
## 19258	40.72861	-73.98252	2	2.173395521
## 19260	40.70679	-74.00689	2	-0.001724456

## 19262	40.72030	-73.99679	2	0.104092192
## 19263	40.70826	-74.00475	2	-0.236872561
## 19265	40.70863	-74.00541	2	-0.236872561
## 19267	40.75613	-73.96904	2	4.336758093
## 19268	40.86592	-73.92170	1	-0.354446614
## 19270	40.74125	-73.98297	2	3.878219287
## 19272	40.80902	-73.96716	1	-0.765955799
## 19273	40.71461	-73.98755	1	-0.483778072
## 19275	40.74829	-73.98715	1	-0.354446614
## 19277	40.77111	-73.99128	2	0.492086566
## 19278	40.74024	-74.00484	2	1.056442020
## 19280	40.81151	-73.94159	1	-0.860015041
## 19282	40.73501	-74.00835	2	0.586145808
## 19283	40.78747	-73.96844	1	-0.836500231
## 19285	40.74708	-73.98513	1	-0.354446614
## 19287	40.80508	-73.95088	2	0.233423650
## 19288	40.76590	-73.98764	2	1.867702984
## 19290	40.71384	-73.99278	2	0.962382777
## 19292	40.78592	-73.94837	1	-0.566079909
## 19293	40.72810	-73.98354	2	1.044684614
## 19295	40.77064	-73.95606	2	1.409164178
## 19297	40.79614	-73.94838	2	-0.084026293
## 19298	40.80535	-73.96307	2	0.115849597
## 19300	40.73682	-74.00406	2	1.409164178
## 19302	40.76066	-73.96639	2	4.101609988
## 19303	40.85798	-73.92855	2	-0.530807693
## 19305	40.84433	-73.93948	1	-0.824742825
## 19307	40.71482	-73.98911	2	0.527358782
## 19308	40.79632	-73.96900	1	-0.601352125
## 19310	40.72600	-73.97861	1	-0.424991046
## 19312	40.76403	-73.98913	3	-0.648381746
## 19313	40.76417	-73.94865	3	-0.883529852
## 19315	40.79966	-73.95390	2	2.290969574
## 19317	40.75435	-73.99801	2	4.336758093
## 19318	40.74437	-74.00007	2	4.336758093
## 19320	40.85374	-73.93198	2	-0.472020667
## 19322	40.77388	-73.95680	2	1.021169804
## 19323	40.77176	-73.94903	2	0.233423650
## 19325	40.72504	-73.97908	1	-0.707168773
## 19327	40.76612	-73.98749	3	-0.648381746
## 19328	40.76714	-73.98784	2	1.397406773
## 19330	40.80126	-73.95037	1	-0.707168773
## 19332	40.72611	-73.98208	2	-0.530807693
## 19333	40.80859	-73.95132	2	-0.472020667
## 19335	40.83468	-73.93714	2	1.997034442
## 19337	40.75316	-73.97099	2	1.997034442
## 19338	40.76047	-73.99202	2	0.809536509
## 19340	40.75534	-73.96446	2	0.821293914
## 19342	40.75540	-73.96474	2	0.821293914
## 19343	40.75523	-73.96342	2	1.997034442
## 19345	40.75568	-73.96474	2	1.997034442
## 19347	40.75669	-73.96199	2	1.997034442
## 19348	40.75643	-73.96375	2	1.997034442
## 19350	40.78345	-73.94751	2	0.821293914

## 19352	40.75935	-73.96471	2	1.867702984
## 19353	40.75967	-73.99219	2	4.336758093
## 19355	40.86025	-73.92647	1	-1.248009415
## 19357	40.77621	-73.96160	2	0.586145808
## 19358	40.71758	-73.99792	2	-0.413233640
## 19360	40.74473	-73.99213	2	2.114608495
## 19362	40.77629	-73.98017	2	1.397406773
## 19363	40.72081	-73.99069	2	-0.236872561
## 19365	40.85423	-73.93215	1	-0.013481861
## 19367	40.78932	-73.97359	2	1.409164178
## 19368	40.74743	-73.99136	2	3.643071182
## 19370	40.75978	-73.96629	2	4.219184040
## 19372	40.71292	-73.99819	1	0.409784729
## 19373	40.77374	-73.95153	2	1.997034442
## 19375	40.75850	-73.98221	1	1.997034442
## 19377	40.76885	-73.98611	2	1.867702984
## 19378	40.73684	-73.98420	2	-0.154570724
## 19380	40.70670	-74.00546	1	0.233423650
## 19382	40.76957	-73.99292	2	1.162258667
## 19383	40.74830	-73.97444	2	1.585525257
## 19385	40.79355	-73.96752	2	0.821293914
## 19387	40.76189	-73.98765	2	0.821293914
## 19388	40.76735	-73.95433	2	-0.001724456
## 19390	40.76377	-73.98730	2	0.821293914
## 19392	40.76233	-73.96193	2	0.527358782
## 19393	40.72649	-73.98433	2	1.703099310
## 19395	40.80497	-73.94152	2	-0.283902182
## 19397	40.75951	-73.98898	2	0.809536509
## 19398	40.72748	-74.00080	2	1.985277037
## 19400	40.82870	-73.94687	2	-0.119298508
## 19402	40.84721	-73.93321	1	-0.883529852
## 19403	40.78645	-73.94873	2	0.233423650
## 19405	40.75175	-73.97382	1	0.115849597
## 19407	40.72605	-73.98269	2	0.527358782
## 19408	40.82862	-73.94938	1	-0.895287257
## 19410	40.70641	-74.00532	2	0.080577381
## 19412	40.70782	-74.00616	2	0.080577381
## 19413	40.70722	-74.00482	2	-0.154570724
## 19415	40.70659	-74.00632	2	0.080577381
## 19417	40.76106	-73.99733	2	1.409164178
## 19418	40.76113	-73.99504	2	0.821293914
## 19420	40.72916	-73.98228	2	1.409164178
## 19422	40.74312	-73.98977	2	3.866461882
## 19423	40.74257	-73.98146	2	2.584904706
## 19425	40.72104	-73.98845	1	-0.295659588
## 19427	40.85873	-73.92937	1	-1.153950173
## 19428	40.78298	-73.94671	1	-0.413233640
## 19430	40.76814	-73.99148	2	0.703719861
## 19432	40.72627	-74.00104	1	-0.530807693
## 19433	40.77581	-73.96285	2	0.938867967
## 19435	40.74561	-73.97784	2	0.057062571
## 19437	40.81376	-73.95250	1	-0.836500231
## 19438	40.77086	-73.95131	2	0.233423650
## 19440	40.76989	-73.94961	2	0.174636624

## 19442	40.78707	-73.95121	2	0.174636624
## 19443	40.77045	-73.94959	2	0.174636624
## 19445	40.77031	-73.95007	2	0.174636624
## 19447	40.76805	-73.94929	2	0.233423650
## 19448	40.76615	-73.98882	2	1.279832720
## 19450	40.72222	-73.99443	1	-0.354446614
## 19452	40.71801	-73.99430	2	4.336758093
## 19453	40.81872	-73.94363	2	1.997034442
## 19455	40.81981	-73.94523	2	0.821293914
## 19457	40.72376	-73.98623	2	1.409164178
## 19458	40.74751	-73.98051	2	1.997034442
## 19460	40.71323	-73.99063	2	1.409164178
## 19462	40.74876	-73.98143	2	1.997034442
## 19463	40.74385	-73.97789	2	0.703719861
## 19465	40.74882	-73.98041	2	0.233423650
## 19467	40.77927	-73.97649	1	-0.354446614
## 19468	40.76537	-73.98487	2	0.503843971
## 19470	40.79058	-73.97246	2	0.233423650
## 19472	40.73866	-73.98322	2	0.350997703
## 19473	40.75375	-73.97416	2	0.703719861
## 19475	40.72660	-73.98750	2	0.527358782
## 19477	40.71805	-73.99714	2	-0.013481861
## 19478	40.72657	-73.98796	2	0.010032950
## 19480	40.78948	-73.97228	2	1.879460389
## 19482	40.78940	-73.97381	2	0.468571756
## 19483	40.74344	-74.00747	2	4.336758093
## 19485	40.74372	-74.00601	2	3.725373019
## 19487	40.72500	-73.97903	2	2.232182548
## 19488	40.80676	-73.94884	1	-0.765955799
## 19490	40.74900	-73.98052	2	0.233423650
## 19492	40.74616	-73.97522	1	-0.131055914
## 19493	40.74400	-73.97359	2	1.997034442
## 19495	40.75869	-73.96725	2	0.762506888
## 19497	40.74457	-73.97168	2	0.938867967
## 19498	40.74442	-73.97170	2	1.115229046
## 19500	40.74463	-73.97307	2	1.409164178
## 19502	40.79830	-73.96115	2	3.760645234
## 19503	40.74886	-73.98184	2	0.233423650
## 19505	40.75661	-73.97186	2	3.161017565
## 19507	40.80529	-73.94718	2	1.997034442
## 19508	40.74458	-73.97146	2	0.821293914
## 19510	40.73159	-73.97472	1	-0.683653962
## 19512	40.82578	-73.95397	2	-0.354446614
## 19513	40.74833	-73.98162	1	0.233423650
## 19515	40.70799	-74.00627	2	-0.354446614
## 19517	40.70811	-74.00616	2	-0.354446614
## 19518	40.70575	-74.00621	2	2.020549253
## 19520	40.76067	-73.99771	2	0.586145808
## 19522	40.70745	-74.00613	2	0.527358782
## 19523	40.74808	-73.98340	1	0.174636624
## 19525	40.74673	-73.98305	3	-0.824742825
## 19527	40.75600	-73.98195	2	1.174016072
## 19528	40.75547	-73.98245	2	0.550873593
## 19530	40.76307	-73.96295	2	0.633175430

## 19532	40.74899	-73.97541	2	0.821293914
## 19533	40.74725	-73.97607	2	0.844808725
## 19535	40.74295	-73.99521	2	1.726614121
## 19537	40.75954	-73.98604	2	1.021169804
## 19538	40.78263	-73.97623	2	0.586145808
## 19540	40.76299	-73.99478	2	3.172774970
## 19542	40.76275	-73.99271	2	3.501982318
## 19543	40.78012	-73.95079	2	-0.225115156
## 19545	40.78307	-73.94578	1	-0.718926178
## 19547	40.76089	-74.00030	2	0.821293914
## 19548	40.78873	-73.97381	2	0.233423650
## 19550	40.79970	-73.95946	2	2.349756601
## 19552	40.76010	-73.97042	2	0.574388403
## 19553	40.76365	-73.96187	2	0.644932835
## 19555	40.84732	-73.93747	1	-0.942316878
## 19557	40.76514	-73.98775	3	-0.648381746
## 19558	40.75547	-73.96248	2	1.997034442
## 19560	40.76392	-73.98805	2	0.292210676
## 19562	40.74669	-73.98749	2	0.586145808
## 19563	40.74847	-73.98629	2	0.586145808
## 19565	40.82204	-73.95566	1	-0.824742825
## 19567	40.76501	-73.98892	3	-0.601352125
## 19568	40.76356	-73.98814	3	-0.624866936
## 19570	40.70861	-74.00479	2	0.080577381
## 19572	40.76424	-73.98916	3	-0.718926178
## 19573	40.76404	-73.98973	1	-0.119298508
## 19575	40.76113	-73.98557	1	0.586145808
## 19577	40.73891	-73.98657	2	0.068819976
## 19578	40.84176	-73.93738	1	-0.765955799
## 19580	40.74525	-73.97225	2	2.996413891
## 19582	40.75624	-73.97171	3	-0.366204019
## 19583	40.74781	-73.98769	2	1.526738231
## 19585	40.75484	-73.99390	2	1.703099310
## 19587	40.76044	-73.97012	2	0.809536509
## 19588	40.74392	-73.97741	2	0.597903214
## 19590	40.82132	-73.95441	1	-0.860015041
## 19592	40.72604	-73.98843	2	1.467951205
## 19593	40.80098	-73.94261	2	0.586145808
## 19595	40.76329	-73.96235	2	1.409164178
## 19597	40.81149	-73.94024	2	0.233423650
## 19598	40.76284	-73.99003	2	0.350997703
## 19600	40.73435	-74.00392	1	0.233423650
## 19602	40.76256	-73.99040	2	3.055200917
## 19603	40.80619	-73.94174	2	-0.060511482
## 19605	40.74125	-73.98125	2	1.926490010
## 19607	40.71752	-73.99387	2	1.938247416
## 19608	40.72765	-74.00213	2	-0.483778072
## 19610	40.76795	-73.98381	2	0.809536509
## 19612	40.77166	-73.94665	2	0.233423650
## 19613	40.76194	-73.99074	2	2.584904706
## 19615	40.78891	-73.94399	2	0.245181055
## 19617	40.76077	-73.99427	2	3.466710102
## 19618	40.75971	-73.99256	2	3.701858208
## 19620	40.77198	-73.98931	2	1.056442020

## 19622	40.80190	-73.95924	1	0.938867967
## 19623	40.76063	-73.95938	2	0.115849597
## 19625	40.78373	-73.97182	2	2.455573248
## 19627	40.84709	-73.93525	1	-0.765955799
## 19628	40.83050	-73.94824	2	0.057062571
## 19630	40.76024	-74.00046	2	3.760645234
## 19632	40.72059	-73.98500	2	0.527358782
## 19633	40.76277	-73.99594	2	1.997034442
## 19635	40.76102	-73.96431	2	0.938867967
## 19637	40.75871	-73.96948	2	1.232803099
## 19638	40.75340	-73.97283	1	1.997034442
## 19640	40.73847	-73.99835	2	1.397406773
## 19642	40.70751	-74.01025	2	0.821293914
## 19643	40.72363	-73.99832	2	2.584904706
## 19645	40.76591	-73.99155	2	0.233423650
## 19647	40.72612	-73.98946	1	-0.236872561
## 19648	40.76593	-73.98087	1	3.161017565
## 19650	40.76183	-73.99160	2	1.409164178
## 19652	40.76550	-73.98237	1	3.161017565
## 19653	40.76420	-73.98035	1	3.161017565
## 19655	40.74546	-73.99099	2	1.985277037
## 19657	40.70797	-74.00534	2	-0.072268887
## 19658	40.76320	-73.98712	2	3.407923076
## 19660	40.77242	-73.95452	2	1.750128931
## 19662	40.78373	-73.97321	2	0.233423650
## 19663	40.77625	-73.95580	2	1.162258667
## 19665	40.73863	-73.99965	2	4.336758093
## 19667	40.76401	-73.98051	1	2.761265785
## 19668	40.72280	-73.98035	2	2.220425143
## 19670	40.72450	-74.00444	1	0.233423650
## 19672	40.81024	-73.94362	2	-0.366204019
## 19673	40.81979	-73.95297	1	-0.883529852
## 19675	40.76022	-73.96607	2	1.162258667
## 19677	40.80173	-73.93347	1	-0.354446614
## 19678	40.76366	-73.98880	2	0.927110562
## 19680	40.75518	-73.99904	2	0.938867967
## 19682	40.70690	-74.00920	2	1.138743857
## 19683	40.79908	-73.93291	1	0.115849597
## 19685	40.74200	-73.98154	2	0.010032950
## 19687	40.72608	-73.98161	2	2.561389896
## 19688	40.81675	-73.93696	1	0.339240298
## 19690	40.76645	-73.99101	2	0.821293914
## 19692	40.777957	-73.95475	2	0.139364408
## 19693	40.80346	-73.95702	2	0.797779103
## 19695	40.81393	-73.94365	1	-1.118677957
## 19697	40.75550	-73.99399	2	0.233423650
## 19698	40.74900	-74.00244	2	1.997034442
## 19700	40.80103	-73.97060	2	0.233423650
## 19702	40.71814	-73.98357	1	-0.660139151
## 19703	40.80176	-73.95663	1	-0.354446614
## 19705	40.73359	-73.99772	2	1.409164178
## 19707	40.79230	-73.94613	2	1.409164178
## 19708	40.75803	-73.96224	2	2.584904706
## 19710	40.76028	-73.99665	2	3.113987944

## 19712	40.71083	-74.00803	2	1.761886337
## 19713	40.72842	-73.98097	2	1.115229046
## 19715	40.75917	-73.99785	2	2.055821469
## 19717	40.82128	-73.93909	2	-0.189842940
## 19718	40.72375	-73.98949	2	0.527358782
## 19720	40.71929	-73.98826	1	-0.001724456
## 19722	40.72670	-73.97965	2	0.880080940
## 19723	40.74791	-73.97957	2	3.172774970
## 19725	40.74682	-73.97983	2	2.079336279
## 19727	40.76768	-73.95455	2	2.232182548
## 19728	40.76578	-73.99101	3	-0.530807693
## 19730	40.74442	-73.98047	2	1.115229046
## 19732	40.73258	-73.98648	2	1.115229046
## 19733	40.76169	-73.99070	2	0.468571756
## 19735	40.72697	-73.98050	1	3.055200917
## 19737	40.70473	-74.01582	1	-0.472020667
## 19738	40.75287	-73.98631	2	2.584904706
## 19740	40.75392	-73.96862	2	3.866461882
## 19742	40.72685	-73.98349	2	-0.236872561
## 19743	40.80618	-73.94618	2	0.574388403
## 19745	40.72993	-73.98319	1	-0.613109530
## 19747	40.79523	-73.94956	1	-0.942316878
## 19748	40.74575	-74.01052	2	2.373271411
## 19750	40.80486	-73.94754	1	-0.942316878
## 19752	40.73129	-74.00661	1	-0.354446614
## 19753	40.79164	-73.97361	2	0.456814350
## 19755	40.70912	-74.00671	2	1.397406773
## 19757	40.85457	-73.92778	1	-0.754198394
## 19758	40.81494	-73.96041	1	-0.248629967
## 19760	40.82155	-73.93927	1	-0.942316878
## 19762	40.78481	-73.95303	1	-0.613109530
## 19763	40.84853	-73.93805	1	-0.601352125
## 19765	40.73081	-74.00089	1	0.821293914
## 19767	40.70694	-74.00700	2	1.409164178
## 19768	40.82512	-73.93817	1	-0.589594720
## 19770	40.76928	-73.96675	2	1.409164178
## 19772	40.76615	-73.95639	1	-0.530807693
## 19773	40.80224	-73.94231	2	2.961141675
## 19775	40.80224	-73.95168	2	-0.472020667
## 19777	40.76650	-73.98673	2	0.174636624
## 19778	40.74550	-73.99714	2	1.397406773
## 19780	40.72896	-73.99201	2	0.809536509
## 19782	40.79798	-73.93972	2	-0.942316878
## 19783	40.74505	-74.00298	2	1.115229046
## 19785	40.74667	-73.98513	1	-0.119298508
## 19787	40.76828	-73.98755	2	1.409164178
## 19788	40.85640	-73.92703	1	-0.754198394
## 19790	40.74972	-73.99655	2	2.349756601
## 19792	40.74006	-74.00071	2	0.762506888
## 19793	40.73735	-73.98425	2	1.409164178
## 19795	40.77618	-73.98395	2	0.409784729
## 19797	40.76350	-73.98780	2	0.174636624
## 19798	40.76665	-73.95398	1	0.115849597
## 19800	40.75144	-73.97090	2	1.056442020

## 19802	40.73207	-74.01087	2	1.644312284
## 19803	40.80211	-73.94365	2	2.584904706
## 19805	40.74216	-73.99363	2	0.586145808
## 19807	40.74217	-73.98398	2	1.985277037
## 19808	40.72832	-73.98984	1	0.586145808
## 19810	40.73006	-74.00713	2	1.409164178
## 19812	40.81144	-73.94386	1	-0.530807693
## 19813	40.80474	-73.94118	2	-0.236872561
## 19815	40.76372	-73.98182	1	2.678963948
## 19817	40.74800	-73.98831	1	-0.883529852
## 19818	40.76124	-73.99611	2	3.760645234
## 19820	40.73125	-73.99933	2	1.997034442
## 19822	40.76299	-73.96100	2	1.879460389
## 19823	40.70757	-74.01386	2	2.243939953
## 19825	40.81369	-73.94239	1	-0.413233640
## 19827	40.80778	-73.94561	2	0.821293914
## 19828	40.71262	-74.00698	2	0.527358782
## 19830	40.76285	-73.98609	2	0.691962456
## 19832	40.76527	-73.98139	1	1.985277037
## 19833	40.74850	-73.97419	1	0.233423650
## 19835	40.72837	-73.98171	1	-0.942316878
## 19837	40.76015	-73.99341	2	1.703099310
## 19838	40.85609	-73.93166	2	0.350997703
## 19840	40.79147	-73.96644	1	-0.366204019
## 19842	40.81852	-73.93810	1	-0.119298508
## 19843	40.75994	-73.99591	2	1.938247416
## 19845	40.76212	-73.99265	2	0.703719861
## 19847	40.72317	-74.00245	2	0.480329161
## 19848	40.71192	-73.99539	1	-0.624866936
## 19850	40.74535	-73.97753	2	2.573147301
## 19852	40.84274	-73.94219	1	-0.472020667
## 19853	40.84414	-73.94099	1	-0.472020667
## 19855	40.71678	-73.99492	2	3.172774970
## 19857	40.70678	-74.00910	2	0.468571756
## 19858	40.76426	-73.98945	1	-0.424991046
## 19860	40.82521	-73.93811	1	-1.059890931
## 19862	40.71232	-74.00689	2	0.644932835
## 19863	40.72699	-73.98576	2	1.126986451
## 19865	40.72697	-73.98373	2	1.409164178
## 19867	40.75949	-73.99367	2	1.409164178
## 19868	40.72016	-73.98968	2	1.409164178
## 19870	40.73265	-73.98435	2	1.409164178
## 19872	40.81658	-73.93800	2	-0.613109530
## 19873	40.74052	-73.98188	2	3.760645234
## 19875	40.75711	-73.99674	1	-0.131055914
## 19877	40.77401	-73.94993	2	1.056442020
## 19878	40.76269	-73.98928	2	0.703719861
## 19880	40.86542	-73.92092	2	-0.354446614
## 19882	40.73523	-73.98142	2	0.350997703
## 19883	40.75431	-73.99459	2	0.644932835
## 19885	40.76308	-73.98482	2	3.760645234
## 19887	40.77474	-73.94943	2	1.397406773
## 19888	40.76125	-73.98848	2	-0.119298508
## 19890	40.86639	-73.92369	2	0.233423650

## 19892	40.79836	-73.96784	2	0.057062571
## 19893	40.76288	-73.99150	2	1.091714236
## 19895	40.78037	-73.94657	2	-0.119298508
## 19897	40.79136	-73.93979	2	1.997034442
## 19898	40.76276	-73.98950	2	3.760645234
## 19900	40.80348	-73.95671	1	-0.483778072
## 19902	40.80485	-73.95810	1	-0.495535477
## 19903	40.80494	-73.95588	1	-0.483778072
## 19905	40.80315	-73.95616	1	-0.495535477
## 19907	40.71301	-74.00481	2	0.492086566
## 19908	40.80322	-73.95673	1	-0.483778072
## 19910	40.71654	-73.99485	2	0.844808725
## 19912	40.76021	-73.99976	2	2.055821469
## 19913	40.71703	-73.99800	1	-0.660139151
## 19915	40.72973	-74.00166	2	1.397406773
## 19917	40.76437	-73.99184	2	0.938867967
## 19918	40.80092	-73.96195	1	-0.354446614
## 19920	40.72175	-73.98259	2	3.172774970
## 19922	40.70701	-74.01007	2	0.527358782
## 19923	40.76397	-73.99078	2	1.044684614
## 19925	40.74055	-73.98522	2	3.760645234
## 19927	40.74032	-73.98801	2	1.997034442
## 19928	40.77664	-73.95481	2	2.573147301
## 19930	40.74399	-73.97753	2	1.985277037
## 19932	40.72087	-73.99647	2	0.856566130
## 19933	40.75765	-73.99247	2	0.950625372
## 19935	40.75493	-73.99458	2	2.232182548
## 19937	40.74637	-74.00020	2	1.291590125
## 19938	40.74509	-73.99135	2	2.290969574
## 19940	40.70629	-74.01535	2	0.821293914
## 19942	40.83833	-73.94539	1	-1.130435363
## 19943	40.77005	-73.95926	2	-0.131055914
## 19945	40.76581	-73.98867	2	0.233423650
## 19947	40.73325	-74.00583	2	0.821293914
## 19948	40.76430	-73.98760	2	3.113987944
## 19950	40.70595	-74.00974	2	1.409164178
## 19952	40.74536	-73.97222	2	0.691962456
## 19953	40.76333	-73.99141	1	-0.060511482
## 19955	40.80140	-73.96563	1	-0.001724456
## 19957	40.74704	-74.00239	1	-0.295659588
## 19958	40.80069	-73.96431	3	1.997034442
## 19960	40.76453	-73.95867	2	0.350997703
## 19962	40.75117	-73.99783	2	1.056442020
## 19963	40.70612	-74.00464	1	0.174636624
## 19965	40.80857	-73.93951	1	-0.472020667
## 19967	40.72438	-74.00114	2	1.397406773
## 19968	40.72367	-74.00229	2	0.586145808
## 19970	40.78642	-73.97723	1	-0.472020667
## 19972	40.71496	-73.99063	2	-0.119298508
## 19973	40.74400	-73.97364	2	0.786021698
## 19975	40.72070	-74.00034	1	-0.354446614
## 19977	40.72085	-73.99966	1	-0.354446614
## 19978	40.72254	-73.99985	1	-0.354446614
## 19980	40.74441	-74.00765	2	1.985277037

## 19982	40.72076	-73.98850	2	0.468571756
## 19983	40.80695	-73.96540	2	1.409164178
## 19985	40.84655	-73.93332	1	-0.824742825
## 19987	40.81868	-73.93937	1	-0.742440988
## 19988	40.73975	-73.98511	2	-0.354446614
## 19990	40.77842	-73.95026	2	0.057062571
## 19992	40.76209	-73.96181	2	-0.060511482
## 19993	40.80434	-73.95515	2	0.409784729
## 19995	40.75563	-73.96621	2	0.527358782
## 19997	40.78986	-73.94783	1	-0.765955799
## 19998	40.70737	-74.00622	1	0.174636624
## 20000	40.80102	-73.96669	1	-0.824742825
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## 20005	40.80482	-73.96493	1	-0.707168773
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## 20013	40.70517	-74.00907	2	0.997654993
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## 20022	40.71891	-74.00024	2	3.513739723
## 20023	40.82623	-73.95271	2	0.057062571
## 20025	40.76537	-73.98375	2	2.232182548
## 20027	40.80099	-73.96514	2	2.055821469
## 20028	40.82593	-73.95075	2	0.162879218
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## 20032	40.72304	-73.98372	2	0.339240298
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## 20037	40.74307	-73.98386	2	0.468571756
## 20038	40.74385	-73.97219	2	3.172774970
## 20040	40.75351	-73.99523	2	0.527358782
## 20042	40.74336	-73.97143	2	2.584904706
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## 20062	40.81173	-73.94213	1	-0.589594720
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## 20070	40.76617	-73.99169	3	3.172774970

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## 20078 40.73035 -73.98450      2  1.938247416
## 20080 40.76391 -73.98028      1  2.678963948
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## 20087 40.76370 -73.99184      2  0.233423650
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## 20225	40.72555	-73.98198	2	0.174636624
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## 20232	40.74833	-73.97253	2	1.761886337
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## 20235	40.75161	-73.97025	2	0.527358782
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## 20250	40.82024	-73.94362	2	-0.060511482

## 20252	40.71658	-73.99065	1	-0.483778072
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## 20258	40.73054	-74.00061	2	2.267454764
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## 20265	40.70802	-74.00642	2	0.586145808
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## 20270	40.80413	-73.96556	1	-0.954074283
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## 20512	40.80739	-73.96068	2	0.233423650
## 20513	40.73061	-73.98409	2	0.997654993
## 20515	40.81795	-73.94099	1	-0.354446614
## 20517	40.75732	-73.99312	2	1.162258667
## 20518	40.80128	-73.93991	1	-0.613109530
## 20520	40.77649	-73.98800	1	0.762506888

## 20522	40.76358	-73.97825	2	0.586145808
## 20523	40.77883	-73.98146	2	0.374512513
## 20525	40.80064	-73.96778	2	1.409164178
## 20527	40.80041	-73.94615	1	-0.836500231
## 20528	40.77824	-73.98325	2	1.703099310
## 20530	40.85139	-73.92952	2	-0.119298508
## 20532	40.74995	-73.99711	2	1.221045694
## 20533	40.75264	-73.99785	2	1.115229046
## 20535	40.83967	-73.94189	1	-0.707168773
## 20537	40.72823	-73.97967	1	-0.354446614
## 20538	40.74991	-73.98854	1	0.233423650
## 20540	40.81458	-73.93696	1	0.233423650
## 20542	40.74714	-73.99117	3	-0.742440988
## 20543	40.76135	-73.96139	2	1.409164178
## 20545	40.77735	-73.98072	2	1.291590125
## 20547	40.80658	-73.95736	1	0.092334787
## 20548	40.75512	-73.99437	1	-0.530807693
## 20550	40.71984	-73.98650	2	1.397406773
## 20552	40.72309	-73.99412	2	1.644312284
## 20553	40.82913	-73.94484	2	0.809536509
## 20555	40.73580	-73.99074	2	0.233423650
## 20557	40.77439	-73.95047	2	1.315104936
## 20558	40.73619	-73.98022	1	-0.495535477
## 20560	40.81546	-73.95823	2	0.233423650
## 20562	40.75987	-73.99615	1	-0.060511482
## 20563	40.74612	-73.97960	2	1.056442020
## 20565	40.72384	-73.98791	2	0.821293914
## 20567	40.73258	-73.98039	1	-0.366204019
## 20568	40.76595	-73.98661	2	0.703719861
## 20570	40.73929	-73.98183	1	0.057062571
## 20572	40.77574	-73.95324	3	-0.354446614
## 20573	40.70583	-74.01038	2	0.468571756
## 20575	40.77469	-73.95181	2	1.174016072
## 20577	40.76703	-73.96979	2	1.115229046
## 20578	40.72627	-73.98543	2	0.903595751
## 20580	40.70847	-74.00498	1	-0.860015041
## 20582	40.77488	-73.94934	2	0.938867967
## 20583	40.84467	-73.94289	1	-0.472020667
## 20585	40.73123	-73.98896	2	3.172774970
## 20587	40.75906	-73.99049	2	1.997034442
## 20588	40.73916	-74.00060	2	0.597903214
## 20590	40.70974	-74.01774	2	-0.295659588
## 20592	40.84817	-73.93848	1	-0.413233640
## 20593	40.84762	-73.93898	1	-1.001103905
## 20595	40.74767	-73.99256	2	-0.248629967
## 20597	40.86830	-73.92161	2	2.573147301
## 20598	40.72797	-73.98155	1	-0.683653962
## 20600	40.83851	-73.94579	1	-0.119298508
## 20602	40.76288	-73.95828	2	1.632554878
## 20603	40.76302	-73.95769	2	1.632554878
## 20605	40.76806	-73.99254	2	2.232182548
## 20607	40.81758	-73.94008	1	-0.648381746
## 20608	40.72413	-73.97277	1	-0.648381746
## 20610	40.81488	-73.93458	1	-0.765955799

## 20612	40.72654	-74.00201	2	1.820673363
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## 20620	40.74451	-73.99939	2	3.419680481
## 20622	40.73670	-74.00105	2	2.385028816
## 20623	40.81893	-73.95417	2	0.844808725
## 20625	40.75286	-73.99297	1	-0.119298508
## 20627	40.76887	-73.95894	2	0.680205051
## 20628	40.74753	-73.99080	3	-0.648381746
## 20630	40.80260	-73.95373	1	-0.648381746
## 20632	40.79913	-73.94226	1	-0.472020667
## 20633	40.80995	-73.93801	1	0.997654993
## 20635	40.70603	-74.01084	2	-0.648381746
## 20637	40.75896	-73.99153	2	1.997034442
## 20638	40.77150	-73.98770	2	1.291590125
## 20640	40.74049	-73.98184	1	-0.860015041
## 20642	40.83225	-73.94496	1	-0.824742825
## 20643	40.80109	-73.94364	1	0.233423650
## 20645	40.80281	-73.96550	2	-0.236872561
## 20647	40.70664	-74.01258	1	-0.860015041
## 20648	40.77792	-73.94476	2	1.409164178
## 20650	40.72597	-73.97645	1	-0.530807693
## 20652	40.81954	-73.94277	1	-1.059890931
## 20653	40.83423	-73.94723	1	-0.660139151
## 20655	40.78332	-73.95155	2	-0.354446614
## 20657	40.73896	-73.99935	2	2.584904706
## 20658	40.73684	-73.98797	2	1.985277037
## 20660	40.70822	-74.01418	2	1.115229046
## 20662	40.76443	-73.98516	1	-0.495535477
## 20663	40.75113	-74.00231	2	3.760645234
## 20665	40.72129	-73.98585	2	0.821293914
## 20667	40.74271	-73.99554	2	0.997654993
## 20668	40.79031	-73.94269	2	0.104092192
## 20670	40.75988	-73.96591	2	2.290969574
## 20672	40.80078	-73.95079	2	0.080577381
## 20673	40.81991	-73.95750	3	-0.824742825
## 20675	40.77739	-73.94916	2	3.090473133
## 20677	40.76082	-73.99709	2	2.996413891
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## 20680	40.72388	-73.98354	2	0.562630998
## 20682	40.71825	-73.99019	2	0.233423650
## 20683	40.81274	-73.94357	1	-0.236872561
## 20685	40.83331	-73.94547	1	-0.942316878
## 20687	40.80505	-73.94894	2	-0.472020667
## 20688	40.72874	-73.98344	2	0.797779103
## 20690	40.75174	-73.97343	2	2.808295407
## 20692	40.79873	-73.96938	2	0.233423650
## 20693	40.75288	-73.97269	1	2.937626865
## 20695	40.79266	-73.94740	1	-0.942316878
## 20697	40.80268	-73.94244	1	-0.354446614
## 20698	40.79268	-73.94577	1	-1.059890931
## 20700	40.77840	-73.95670	2	1.409164178

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## 20702 40.71466 -73.98676      1 -0.589594720
## 20703 40.74954 -74.00466      2  1.115229046
## 20705 40.75343 -74.00208      2  0.292210676
## 20707 40.70597 -74.01562      1 -0.366204019
## 20708 40.81589 -73.95346      2 -0.354446614
## 20710 40.77889 -73.97668      2  0.151121813
## 20712 40.81951 -73.94161      1 -0.942316878
## 20713 40.74757 -73.98118      1  0.821293914
## 20715 40.72626 -73.98729      1 -0.589594720
## 20717 40.83734 -73.94326      2 -0.472020667
## 20718 40.74607 -73.98599      2  0.809536509
## 20720 40.82258 -73.95464      1 -0.824742825
## 20722 40.82126 -73.95458      1 -0.707168773
## 20723 40.75204 -74.00292      2  2.584904706
## 20725 40.80951 -73.95347      2 -0.765955799
## 20727 40.73444 -74.00335      1  0.844808725
## 20728 40.79753 -73.96155      3 -0.883529852
## 20730 40.76688 -73.94688      2  0.174636624
## 20732 40.77192 -73.95369      1 -0.413233640
## 20733 40.86845 -73.92449      1 -0.589594720
## 20735 40.76236 -73.99255      2  1.526738231
## 20737 40.78749 -73.94749      1  0.115849597
## 20738 40.80953 -73.95410      1 -0.824742825
## 20740 40.79633 -73.93605      1 -0.648381746
## 20742 40.76392 -73.99183      1 -0.060511482
## 20743 40.81475 -73.94867      2 -0.178085535
## 20745 40.76404 -73.98933      1 -0.472020667

```

`train_neig_room`

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##      latitude longitude      price
## 2     40.76489 -73.98493 -0.601352125
## 3     40.80178 -73.96723 -0.601352125
## 5     40.79826 -73.96113 -0.530807693
## 7     40.86754 -73.92639 -0.589594720
## 8     40.86482 -73.92106 -1.012861310
## 10    40.81305 -73.95466 -0.918802068
## 12    40.72290 -73.98199 -0.730683583
## 13    40.79009 -73.97927  0.057062571
## 15    40.75531 -73.99293 -0.718926178
## 17    40.72649 -73.97904 -0.589594720
## 18    40.72298 -73.98474 -0.366204019
## 20    40.83139 -73.94095 -0.765955799
## 22    40.74138 -74.00197  0.233423650
## 23    40.71140 -73.98794 -0.424991046
## 25    40.72912 -73.98057 -0.942316878
## 27    40.74008 -74.00271 -0.377961425
## 28    40.82279 -73.95139 -0.824742825
## 30    40.80920 -73.94421 -0.354446614
## 32    40.85879 -73.93128 -0.530807693
## 33    40.76754 -73.98399 -0.001724456
## 35    40.79295 -73.93997 -0.718926178
## 37    40.80549 -73.95924 -0.366204019
## 38    40.76834 -73.95334 -0.648381746
## 40    40.72319 -73.99201 -0.554322504

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## 42 40.80234 -73.95603 0.821293914
## 43 40.79958 -73.94275 -0.354446614
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## 47 40.76193 -73.95010 -0.119298508
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## 50 40.80335 -73.95750 -0.589594720
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## 53 40.72321 -73.98157 -0.730683583
## 55 40.71904 -73.99392 -0.413233640
## 57 40.80082 -73.96520 -0.248629967
## 58 40.82976 -73.94867 -0.530807693
## 60 40.73198 -73.98881 -0.765955799
## 62 40.72329 -73.98486 -0.695411367
## 63 40.71271 -73.99776 -0.413233640
## 65 40.82773 -73.95231 -0.824742825
## 67 40.75835 -73.99193 -0.530807693
## 68 40.82399 -73.95328 -0.765955799
## 70 40.73067 -73.98702 -0.507292883
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## 73 40.72217 -73.98419 -0.401476235
## 75 40.81156 -73.94571 -0.883529852
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## 78 40.74346 -73.99882 0.233423650
## 80 40.80525 -73.95916 -0.648381746
## 82 40.82411 -73.94934 -0.765955799
## 83 40.80224 -73.94558 0.468571756
## 85 40.80518 -73.95359 -0.483778072
## 87 40.72019 -73.98217 -0.119298508
## 88 40.73712 -74.00166 -0.354446614
## 90 40.74695 -74.00454 1.467951205
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## 97 40.71300 -73.99752 -0.413233640
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## 110 40.72645 -73.98035 -0.483778072
## 112 40.72599 -74.00168 1.644312284
## 113 40.75575 -73.96842 -0.236872561
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## 117 40.81068 -73.94288 -0.060511482
## 118 40.78558 -73.97260 0.115849597
## 120 40.81512 -73.94692 -0.577837314
## 122 40.70523 -74.01345 -0.342689209
## 123 40.74025 -74.00161 -0.413233640
## 125 40.72534 -73.98591 -0.495535477
## 127 40.70741 -74.00102 -0.765955799
## 128 40.79111 -73.94466 -0.366204019
## 130 40.80285 -73.95166 -0.366204019

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## 220 40.86345 -73.92039 -0.883529852

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## 310 40.71230 -73.99946 -0.354446614

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## 1668 40.78856 -73.97368 -0.178085535
## 1670 40.74553 -73.97302 -0.354446614
## 1672 40.80266 -73.96465 -0.495535477
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## 1675 40.71460 -73.98423 -0.483778072
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## 1680 40.71343 -73.99532 -0.824742825
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## 1692 40.85415 -73.93108 -1.059890931
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## 1772 40.80316 -73.95447 -0.589594720
## 1773 40.78406 -73.95294 -0.424991046
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## 1838 40.85120 -73.93693 -0.648381746
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## 1858 40.76060 -73.97181 -0.519050288
## 1860 40.82827 -73.94930 -1.106920552
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## 1865 40.74526 -73.99545  0.115849597
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## 1870 40.76620 -73.98321 -0.824742825
## 1872 40.72403 -73.97741 -0.472020667
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## 1875 40.77616 -73.98974  1.997034442
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## 1878 40.78107 -73.97817 -0.648381746
## 1880 40.76331 -73.97911  1.997034442
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## 1883 40.71244 -73.98756 -0.566079909
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## 1887 40.74702 -73.98778  0.339240298
## 1888 40.75261 -73.97063 -0.366204019
## 1890 40.76046 -73.99010  0.057062571
## 1892 40.75249 -73.97412 -0.707168773
## 1893 40.79912 -73.95204 -0.472020667
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## 1897 40.72518 -73.98439 -0.354446614
## 1898 40.83819 -73.94373 -0.236872561
## 1900 40.71514 -73.98293 -0.413233640
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## 1913 40.75925 -73.99136 -0.119298508
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## 1917 40.74379 -73.97803  0.233423650
## 1918 40.79668 -73.93379 -0.824742825
## 1920 40.76168 -73.95059 -0.824742825
## 1922 40.74350 -73.97907 -0.413233640
## 1923 40.82402 -73.94560 -0.707168773
## 1925 40.77557 -73.94615 -0.801228015
## 1927 40.72278 -73.98878 -0.178085535
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## 1952 40.76689 -73.94564 -0.589594720
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## 1978 40.81613 -73.94546 -0.789470609
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## 1985 40.72401 -73.98061 -0.648381746
## 1987 40.80219 -73.96618 -0.765955799
## 1988 40.83625 -73.93753 -0.942316878
## 1990 40.80508 -73.96262 -0.883529852
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## 2007 40.80023 -73.96678 -0.530807693
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## 2013 40.82195 -73.95373 -0.801228015
## 2015 40.76675 -73.95144  0.057062571
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## 2018 40.76496 -73.95801 -0.354446614
## 2020 40.82347 -73.93944 -1.095163147

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## 2032 40.72030 -73.98698 -0.366204019
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## 2037 40.87663 -73.91041 -0.942316878
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## 2045 40.71504 -73.98879 -1.001103905
## 2047 40.79827 -73.97321 -0.072268887
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## 7383 40.76267 -73.98557 -0.354446614
## 7385 40.76251 -73.98392 -0.354446614
## 7387 40.76112 -73.98377 -0.354446614
## 7388 40.76245 -73.98339 -0.354446614
## 7390 40.76203 -73.98191 -0.354446614
## 7392 40.76055 -73.98362 -0.354446614
## 7393 40.83620 -73.94063 -0.765955799
## 7395 40.85762 -73.93175 -0.178085535
## 7397 40.85768 -73.93247 -0.295659588
## 7398 40.70497 -74.01721 -0.354446614
## 7400 40.70486 -74.01799 -0.354446614
## 7402 40.70680 -74.01775 -0.354446614
## 7403 40.70494 -74.01692 -0.354446614
## 7405 40.74365 -73.98717 2.584904706
## 7407 40.74366 -73.98607 1.409164178
## 7408 40.74433 -73.98555 1.409164178
## 7410 40.74311 -73.98675 1.997034442
## 7412 40.74291 -73.98680 3.172774970
## 7413 40.74312 -73.98589 2.584904706
## 7415 40.76412 -73.99141 0.115849597
## 7417 40.79155 -73.94141 -0.530807693
## 7418 40.83326 -73.94314 -0.883529852
## 7420 40.74286 -73.97680 -0.613109530

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## 7422 40.81775 -73.94931 -0.648381746
## 7423 40.82300 -73.93966 -0.954074283
## 7425 40.79466 -73.94032 -1.130435363
## 7427 40.76215 -73.95056 -0.424991046
## 7428 40.75896 -73.98216 -0.460263262
## 7430 40.76767 -73.98914 -0.377961425
## 7432 40.74798 -73.98751 -0.519050288
## 7433 40.82414 -73.95393 -1.059890931
## 7435 40.82978 -73.94022 -0.824742825
## 7437 40.71760 -73.99728 -0.530807693
## 7438 40.80672 -73.95712 -0.671896557
## 7440 40.71098 -73.99426 -0.589594720
## 7442 40.74493 -73.98484 -0.001724456
## 7443 40.80641 -73.95518 -0.589594720
## 7445 40.74822 -73.98555 -0.354446614
## 7447 40.86592 -73.92170 -0.354446614
## 7448 40.79419 -73.97350 0.586145808
## 7450 40.71461 -73.98755 -0.483778072
## 7452 40.74677 -73.98660 -0.354446614
## 7453 40.81151 -73.94159 -0.860015041
## 7455 40.78747 -73.96844 -0.836500231
## 7457 40.74708 -73.98513 -0.354446614
## 7458 40.76494 -73.98983 -0.236872561
## 7460 40.82802 -73.94482 -0.765955799
## 7462 40.71716 -73.99716 -0.472020667
## 7463 40.80015 -73.95387 -0.942316878
## 7465 40.84433 -73.93948 -0.824742825
## 7467 40.79632 -73.96900 -0.601352125
## 7468 40.72600 -73.97861 -0.424991046
## 7470 40.80126 -73.95037 -0.707168773
## 7472 40.82509 -73.95220 -0.648381746
## 7473 40.85423 -73.93215 -0.013481861
## 7475 40.75850 -73.98221 1.997034442
## 7477 40.77838 -73.94792 -0.060511482
## 7478 40.84721 -73.93321 -0.883529852
## 7480 40.74125 -73.99926 -0.483778072
## 7482 40.76460 -73.99045 0.233423650
## 7483 40.72276 -73.98741 -0.613109530
## 7485 40.85911 -73.93087 -0.942316878
## 7487 40.78298 -73.94671 -0.413233640
## 7488 40.75235 -73.97077 0.527358782
## 7490 40.81376 -73.95250 -0.836500231
## 7492 40.72222 -73.99443 -0.354446614
## 7493 40.77927 -73.97649 -0.354446614
## 7495 40.74329 -73.98253 -0.330931804
## 7497 40.80676 -73.94884 -0.765955799
## 7498 40.74616 -73.97522 -0.131055914
## 7500 40.74833 -73.98162 0.233423650
## 7502 40.74808 -73.98340 0.174636624
## 7503 40.75949 -73.99567 0.597903214
## 7505 40.72657 -73.98757 -0.354446614
## 7507 40.82204 -73.95566 -0.824742825
## 7508 40.75476 -73.97118 0.057062571
## 7510 40.76404 -73.98973 -0.119298508

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## 7512 40.76113 -73.98557  0.586145808
## 7513 40.82172 -73.95618 -0.824742825
## 7515 40.75455 -73.96950 -0.060511482
## 7517 40.73435 -74.00392  0.233423650
## 7518 40.82622 -73.93489 -0.942316878
## 7520 40.80190 -73.95924  0.938867967
## 7522 40.75340 -73.97283  1.997034442
## 7523 40.72612 -73.98946 -0.236872561
## 7525 40.76386 -73.98222  3.161017565
## 7527 40.76420 -73.98035  3.161017565
## 7528 40.81557 -73.95702 -0.824742825
## 7530 40.76401 -73.98051  2.761265785
## 7532 40.72450 -74.00444  0.233423650
## 7533 40.81979 -73.95297 -0.883529852
## 7535 40.74421 -73.99093 -0.060511482
## 7537 40.79908 -73.93291  0.115849597
## 7538 40.81675 -73.93696  0.339240298
## 7540 40.82200 -73.95582 -0.836500231
## 7542 40.80176 -73.95663 -0.354446614
## 7543 40.82136 -73.95606 -0.836500231
## 7545 40.71929 -73.98826 -0.001724456
## 7547 40.70473 -74.01582 -0.472020667
## 7548 40.74614 -74.00168  0.233423650
## 7550 40.72993 -73.98319 -0.613109530
## 7552 40.80486 -73.94754 -0.942316878
## 7553 40.73129 -74.00661 -0.354446614
## 7555 40.85457 -73.92778 -0.754198394
## 7557 40.81489 -73.95842 -0.248629967
## 7558 40.82155 -73.93927 -0.942316878
## 7560 40.84853 -73.93805 -0.601352125
## 7562 40.82512 -73.93817 -0.589594720
## 7563 40.76615 -73.95639 -0.530807693
## 7565 40.74667 -73.98513 -0.119298508
## 7567 40.76665 -73.95398  0.115849597
## 7568 40.82238 -73.95476 -0.519050288
## 7570 40.72832 -73.98984  0.586145808
## 7572 40.76372 -73.98182  2.678963948
## 7573 40.74800 -73.98831 -0.883529852
## 7575 40.81433 -73.94255 -0.648381746
## 7577 40.81389 -73.94239 -0.354446614
## 7578 40.76527 -73.98139  1.985277037
## 7580 40.72837 -73.98171 -0.942316878
## 7582 40.81852 -73.93810 -0.119298508
## 7583 40.71192 -73.99539 -0.624866936
## 7585 40.84274 -73.94219 -0.472020667
## 7587 40.76426 -73.98945 -0.424991046
## 7588 40.82521 -73.93811 -1.059890931
## 7590 40.75711 -73.99674 -0.131055914
## 7592 40.80463 -73.95655 -0.495535477
## 7593 40.80348 -73.95671 -0.483778072
## 7595 40.80494 -73.95588 -0.483778072
## 7597 40.80445 -73.95670 -0.495535477
## 7598 40.80322 -73.95673 -0.483778072
## 7600 40.80092 -73.96195 -0.354446614

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## 7602 40.72208 -74.00389 -0.707168773
## 7603 40.83833 -73.94539 -1.130435363
## 7605 40.76333 -73.99141 -0.060511482
## 7607 40.85681 -73.92655 -0.942316878
## 7608 40.74704 -74.00239 -0.295659588
## 7610 40.82817 -73.94598 -0.883529852
## 7612 40.82784 -73.94559 -0.883529852
## 7613 40.78642 -73.97723 -0.472020667
## 7615 40.72070 -74.00034 -0.354446614
## 7617 40.72085 -73.99966 -0.354446614
## 7618 40.72254 -73.99985 -0.354446614
## 7620 40.76369 -73.98891 -0.354446614
## 7622 40.81290 -73.94391 -0.472020667
## 7623 40.78986 -73.94783 -0.765955799
## 7625 40.80102 -73.96669 -0.824742825
## 7627 40.80478 -73.96665 -0.707168773
## 7628 40.80482 -73.96493 -0.707168773
## 7630 40.73613 -73.99870 -0.060511482
## 7632 40.78850 -73.95093 -0.589594720
## 7633 40.78460 -73.97636 -0.472020667
## 7635 40.73894 -74.00087 -0.366204019
## 7637 40.81173 -73.94213 -0.589594720
## 7638 40.80144 -73.94463  0.586145808
## 7640 40.84330 -73.93616 -1.118677957
## 7642 40.81858 -73.94524 -0.060511482
## 7643 40.76073 -73.99032  0.115849597
## 7645 40.76553 -73.98148  2.678963948
## 7647 40.76954 -73.94959 -0.648381746
## 7648 40.86114 -73.92717 -0.836500231
## 7650 40.73775 -73.97368 -0.413233640
## 7652 40.75625 -73.99357 -0.789470609
## 7653 40.80775 -73.93767  0.938867967
## 7655 40.72352 -73.97493 -0.530807693
## 7657 40.76814 -73.96088 -0.060511482
## 7658 40.82178 -73.93946 -0.930559473
## 7660 40.81395 -73.94199 -0.648381746
## 7662 40.76565 -73.99392  0.233423650
## 7663 40.76390 -73.99542  0.233423650
## 7665 40.76542 -73.98192  1.997034442
## 7667 40.76546 -73.98060  1.997034442
## 7668 40.80760 -73.94886 -0.589594720
## 7670 40.80347 -73.93522 -0.707168773
## 7672 40.72247 -73.99473 -0.413233640
## 7673 40.73638 -74.00057 -0.060511482
## 7675 40.80528 -73.96547 -0.707168773
## 7677 40.73243 -74.00333  0.350997703
## 7678 40.73808 -73.98325 -0.530807693
## 7680 40.81566 -73.94174 -1.001103905
## 7682 40.75061 -73.97233 -0.530807693
## 7683 40.72281 -73.98099 -0.754198394
## 7685 40.80911 -73.93698  0.233423650
## 7687 40.73190 -73.98981  0.233423650
## 7688 40.83901 -73.93943 -0.812985420
## 7690 40.75895 -73.99509  0.691962456

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## 7692 40.86471 -73.92474 -0.354446614
## 7693 40.71658 -73.99065 -0.483778072
## 7695 40.75675 -73.98514 -0.707168773
## 7697 40.81226 -73.94349 -0.589594720
## 7698 40.81436 -73.95399 -0.131055914
## 7700 40.80549 -73.95136 -0.589594720
## 7702 40.81561 -73.94823 -0.366204019
## 7703 40.84191 -73.93705 -0.942316878
## 7705 40.80321 -73.93781 -0.589594720
## 7707 40.80494 -73.95463  0.233423650
## 7708 40.76924 -73.95323 -0.354446614
## 7710 40.80701 -73.96619 -0.789470609
## 7712 40.81524 -73.94168 -0.977589094
## 7713 40.74316 -73.98038  3.172774970
## 7715 40.83325 -73.94034 -0.542565099
## 7717 40.79752 -73.93287 -0.765955799
## 7718 40.77297 -73.95530 -0.095783698
## 7720 40.75707 -73.99764  1.115229046
## 7722 40.79906 -73.96517 -0.824742825
## 7723 40.82856 -73.94021 -0.824742825
## 7725 40.74672 -74.00431 -0.295659588
## 7727 40.79900 -73.97012 -0.001724456
## 7728 40.74476 -73.97622  0.821293914
## 7730 40.79584 -73.94747 -0.648381746
## 7732 40.84288 -73.94201 -0.895287257
## 7733 40.84365 -73.94069 -0.824742825
## 7735 40.82806 -73.94537 -0.942316878
## 7737 40.76384 -73.98248 -0.060511482
## 7738 40.82165 -73.95423 -0.965831689
## 7740 40.76769 -73.99129 -0.236872561
## 7742 40.71688 -73.99040 -0.060511482
## 7743 40.75669 -73.96848 -0.354446614
## 7745 40.78189 -73.94550 -0.718926178
## 7747 40.81842 -73.93910 -1.036376120
## 7748 40.82625 -73.94791 -0.648381746
## 7750 40.80199 -73.95779 -0.472020667
## 7752 40.82682 -73.95157 -0.707168773
## 7753 40.71155 -73.99712 -0.707168773
## 7755 40.76843 -73.98940  0.198151434
## 7757 40.74413 -73.97993 -0.472020667
## 7758 40.73835 -73.98121  0.233423650
## 7760 40.75957 -73.99535 -0.013481861
## 7762 40.85269 -73.93616 -0.589594720
## 7763 40.80624 -73.95020 -0.472020667
## 7765 40.84773 -73.94015 -0.824742825
## 7767 40.72548 -74.00210  0.821293914
## 7768 40.82601 -73.93795 -0.824742825
## 7770 40.76054 -73.99936  0.233423650
## 7772 40.81922 -73.95287 -0.942316878
## 7773 40.82808 -73.94126 -1.001103905
## 7775 40.71752 -73.99147  1.526738231
## 7777 40.80128 -73.93991 -0.613109530
## 7778 40.79880 -73.97277  0.821293914
## 7780 40.71197 -73.99019 -0.707168773

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```

## 7782 40.80041 -73.94615 -0.836500231
## 7783 40.83958 -73.94323 -0.707168773
## 7785 40.72823 -73.97967 -0.354446614
## 7787 40.81458 -73.93696  0.233423650
## 7788 40.74943 -73.97173  0.233423650
## 7790 40.75512 -73.99437 -0.530807693
## 7792 40.79993 -73.96475  0.080577381
## 7793 40.73495 -74.00583  0.821293914
## 7795 40.73619 -73.98022 -0.495535477
## 7797 40.73258 -73.98039 -0.366204019
## 7798 40.73929 -73.98183  0.057062571
## 7800 40.70847 -74.00498 -0.860015041
## 7802 40.74010 -73.98256 -0.707168773
## 7803 40.80707 -73.95242 -1.059890931
## 7805 40.84817 -73.93848 -0.413233640
## 7807 40.72797 -73.98155 -0.683653962
## 7808 40.83851 -73.94579 -0.119298508
## 7810 40.72413 -73.97277 -0.648381746
## 7812 40.82539 -73.94880 -0.707168773
## 7813 40.79485 -73.96243 -0.354446614
## 7815 40.80260 -73.95373 -0.648381746
## 7817 40.80995 -73.93801  0.997654993
## 7818 40.81486 -73.95795 -0.836500231
## 7820 40.83225 -73.94496 -0.824742825
## 7822 40.70664 -74.01258 -0.860015041
## 7823 40.72597 -73.97645 -0.530807693
## 7825 40.81954 -73.94277 -1.059890931
## 7827 40.80656 -73.95593 -0.824742825
## 7828 40.73380 -73.97972 -0.707168773
## 7830 40.76170 -73.99815  0.586145808
## 7832 40.83331 -73.94547 -0.942316878
## 7833 40.72146 -73.98279 -0.354446614
## 7835 40.75288 -73.97269  2.937626865
## 7837 40.80268 -73.94244 -0.354446614
## 7838 40.79268 -73.94577 -1.059890931
## 7840 40.71466 -73.98676 -0.589594720
## 7842 40.81697 -73.94225 -1.071648336
## 7843 40.79952 -73.96003 -0.648381746
## 7845 40.74757 -73.98118  0.821293914
## 7847 40.82258 -73.95464 -0.824742825
## 7848 40.82385 -73.93947 -0.589594720
## 7850 40.73444 -74.00335  0.844808725
## 7852 40.77192 -73.95369 -0.413233640
## 7853 40.86845 -73.92449 -0.589594720
## 7855 40.79760 -73.93947 -0.942316878
## 7857 40.80953 -73.95410 -0.824742825
## 7858 40.79755 -73.93614 -0.648381746
## 7860 40.76392 -73.99183 -0.060511482

```

## LINEAR REGRESSION

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

```

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

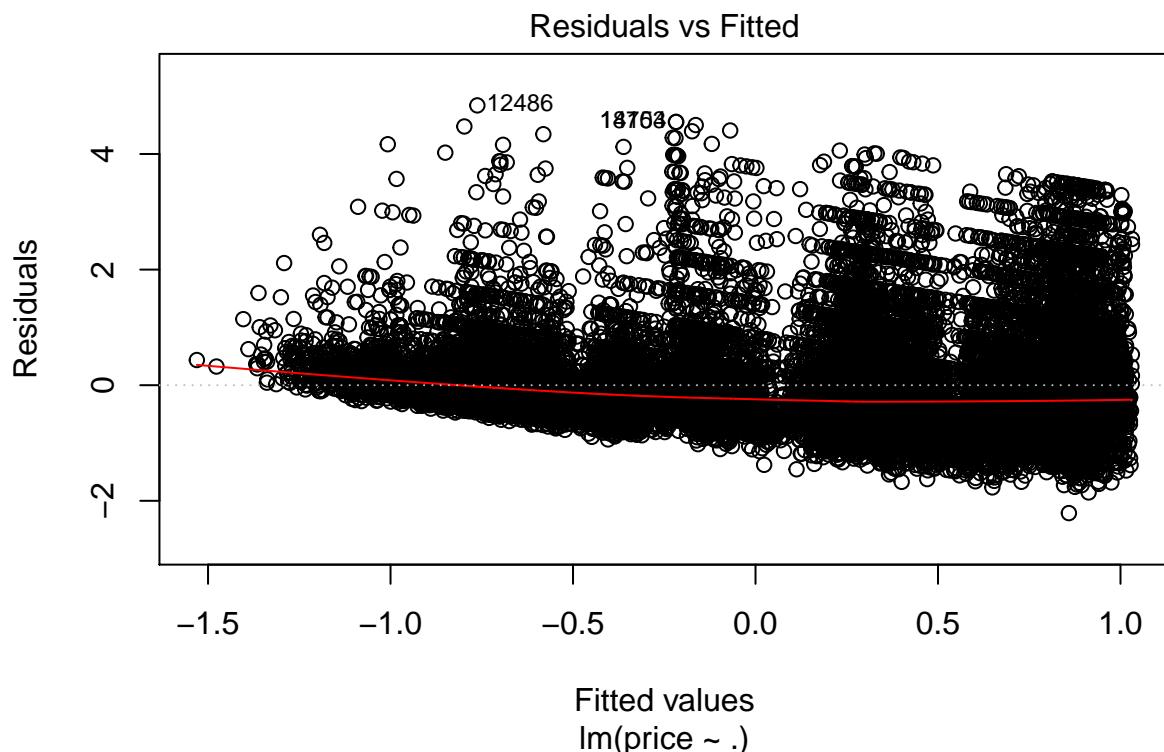
## == Linear Regression without filters ==
lm.fit <- lm(price~., data=train)
summary(lm.fit)

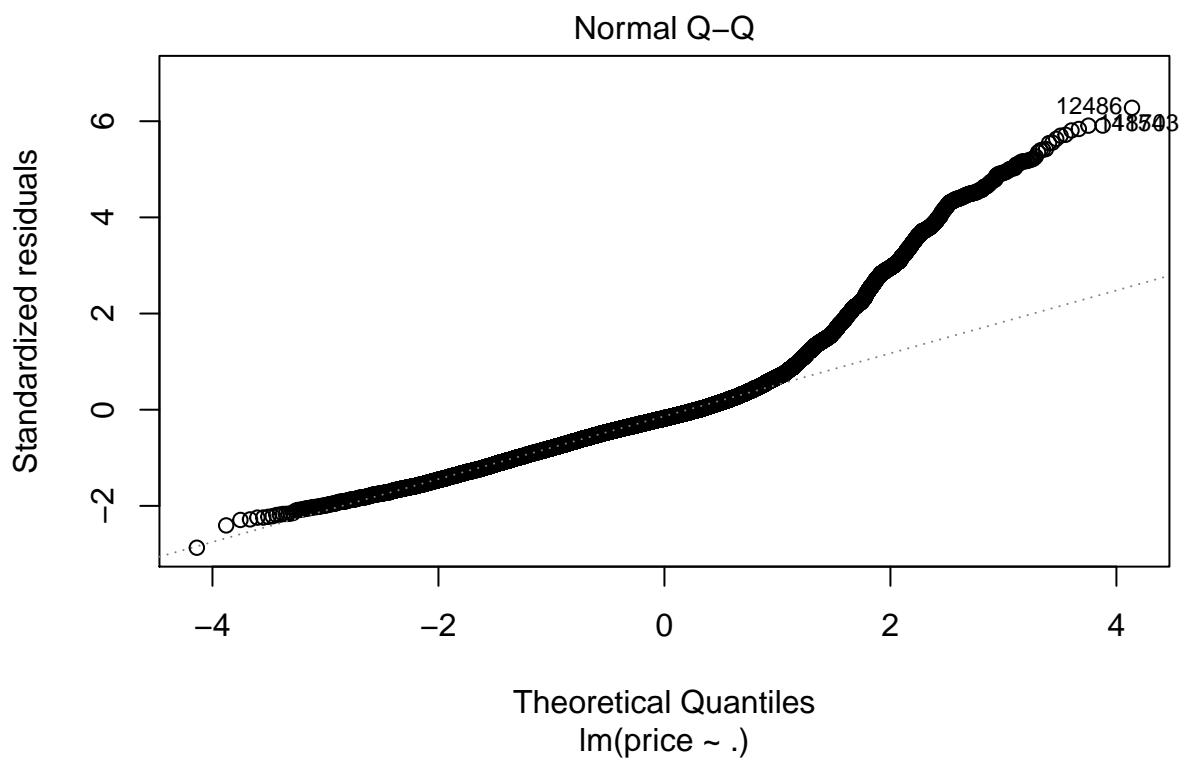
##
## Call:
## lm(formula = price ~ ., data = train)
##
## Residuals:
##     Min      1Q  Median      3Q     Max 
## -2.2801 -0.4440 -0.1359  0.2393  4.8107 
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)           -203.39577   13.91912 -14.613 < 2e-16 ***
## neighbourhood_group2    0.49256    0.01591  30.954 < 2e-16 ***
## neighbourhood_group3    0.23526    0.01943  12.107 < 2e-16 ***
## neighbourhood_group4   -0.91441    0.05715 -16.002 < 2e-16 ***
## neighbourhood_group5    0.27859    0.03804   7.324 2.47e-13 ***
## latitude                 -1.64529   0.13713 -11.998 < 2e-16 ***
## longitude                -3.64634   0.15656 -23.290 < 2e-16 *** 
## room_type2                  1.01524   0.00949 106.983 < 2e-16 *** 
## room_type3                 -0.25607   0.03070  -8.341 < 2e-16 *** 
## ---                        
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7704 on 28565 degrees of freedom
## Multiple R-squared:  0.406, Adjusted R-squared:  0.4058 
## F-statistic: 2441 on 8 and 28565 DF, p-value: < 2.2e-16

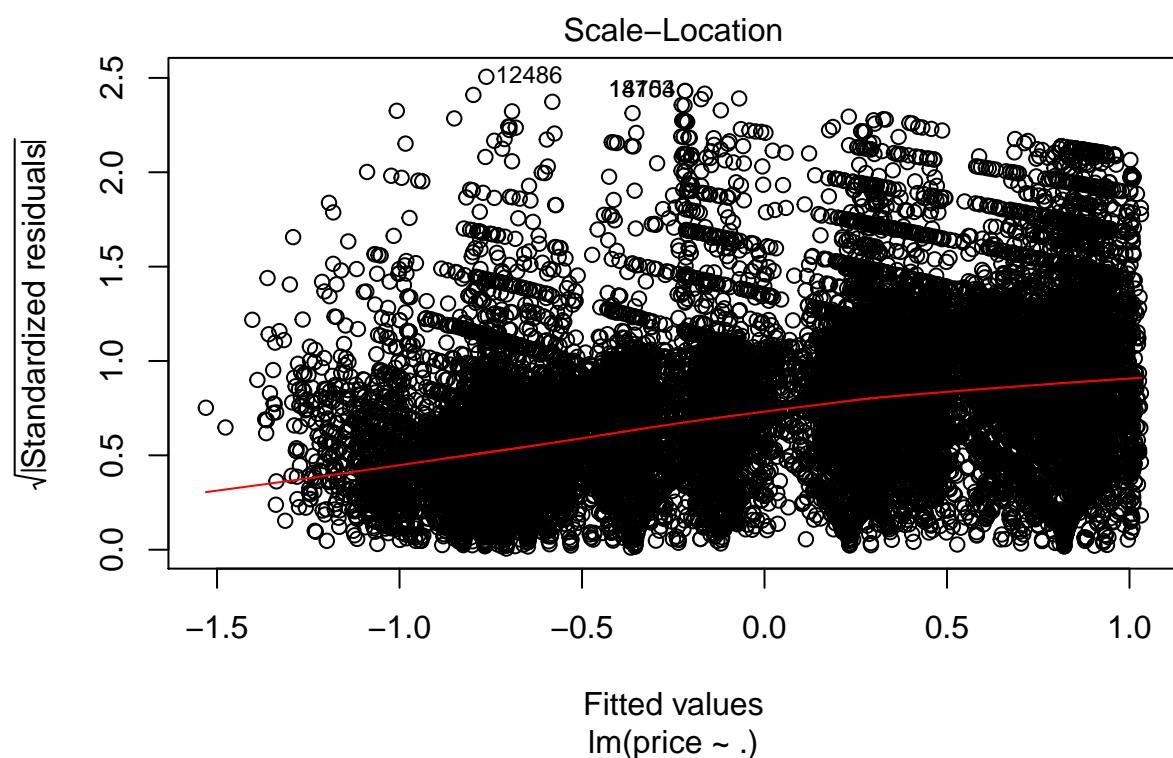
pr.lm <- predict(lm.fit,test)
MSE.lm <- sum((pr.lm - test$price)^2)/nrow(test)
cat("MSE: ",MSE.lm)

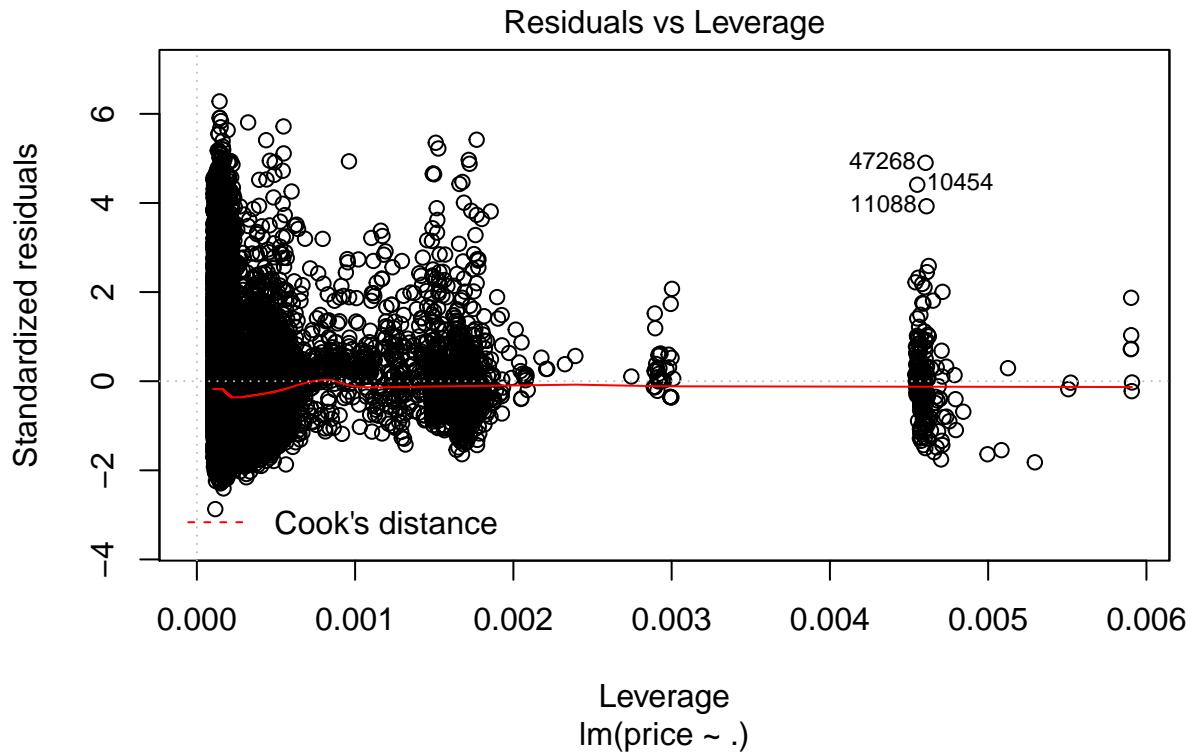
## MSE:  0.5996127
plot(lm.fit)

```









```

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 
## -2.4476 -0.5257 -0.1811  0.3004  4.6109 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) -814.03381   64.21976 -12.676 < 2e-16 ***
## longitude    -0.60512    0.38872  -1.557    0.12    
## room_type2     1.04732    0.01647  63.581 < 2e-16 ***
## 
```

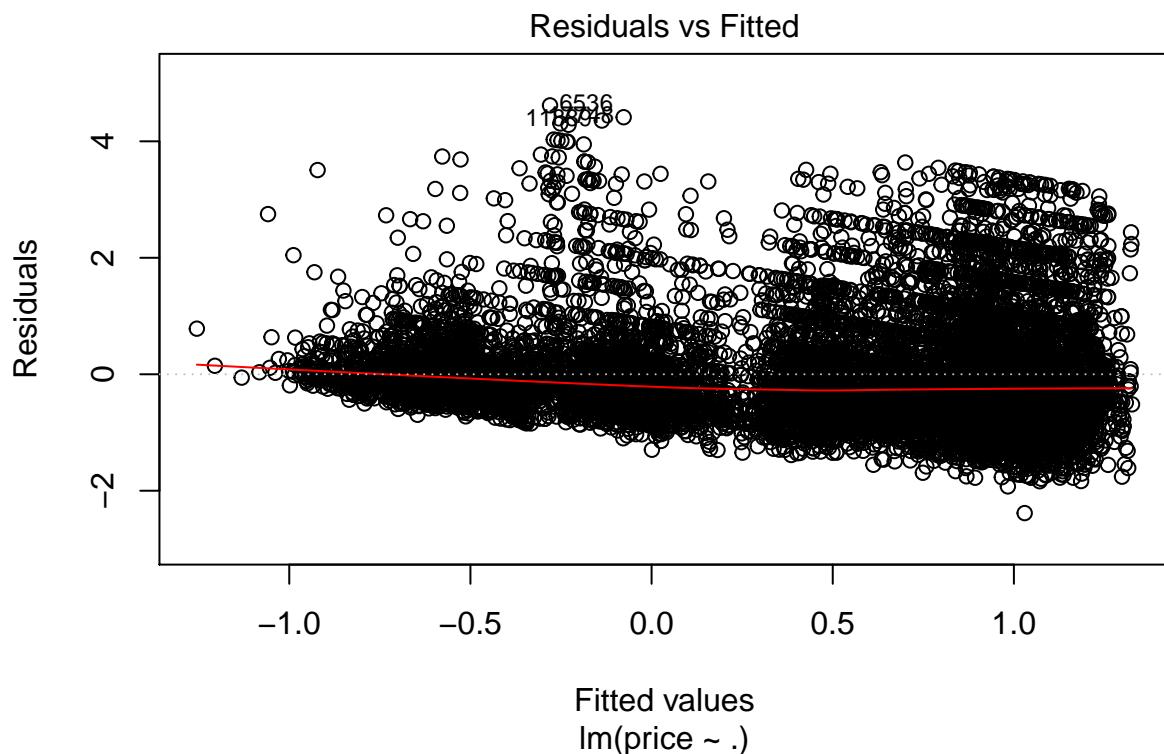
```

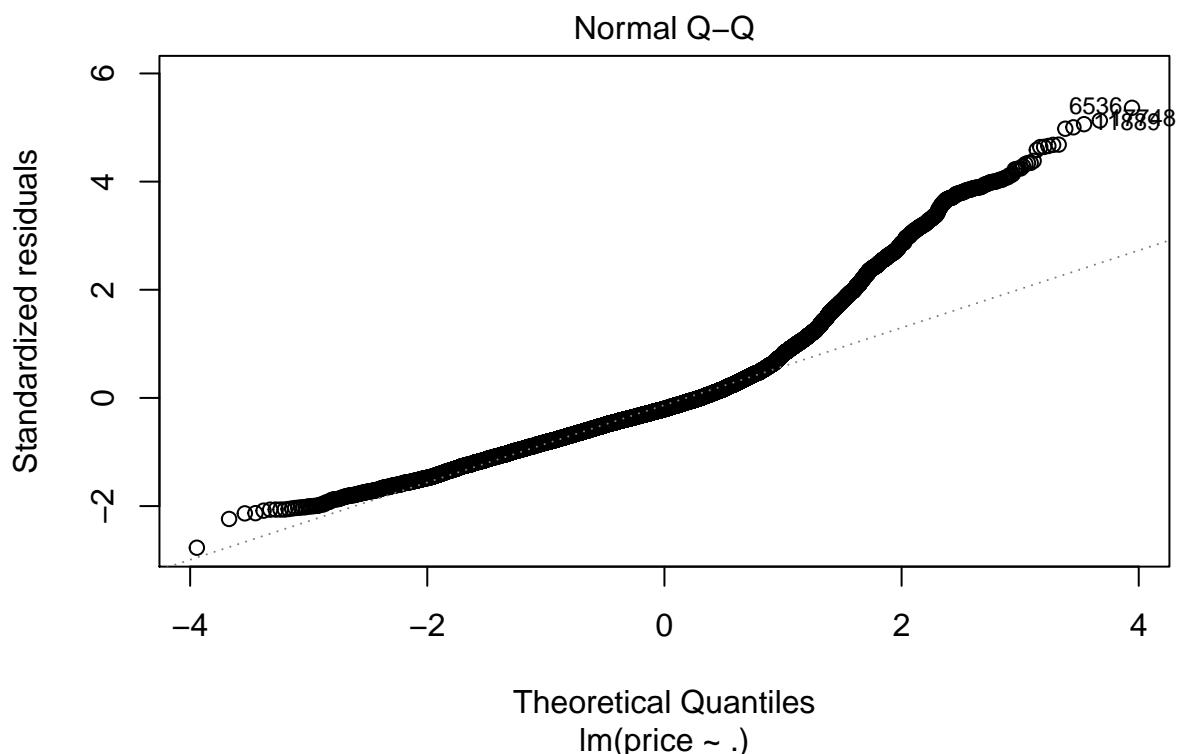
## room_type3    -0.27564     0.05327   -5.174 2.33e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8646 on 12442 degrees of freedom
## Multiple R-squared:  0.3533, Adjusted R-squared:  0.3531
## F-statistic:  1699 on 4 and 12442 DF,  p-value: < 2.2e-16
pr2.lm <- predict(lm2.fit,test_neig)
MSE2.lm <- sum((pr2.lm - test_neig$price)^2)/nrow(test_neig)

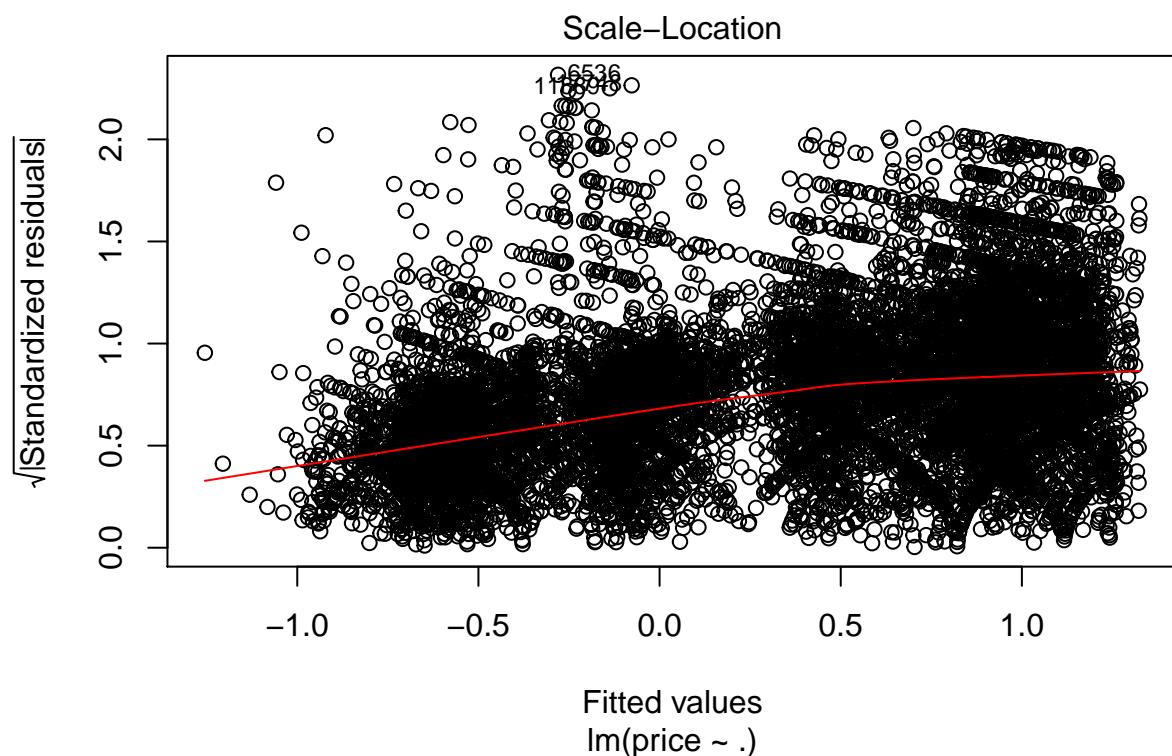
cat("MSE: ",MSE2.lm)

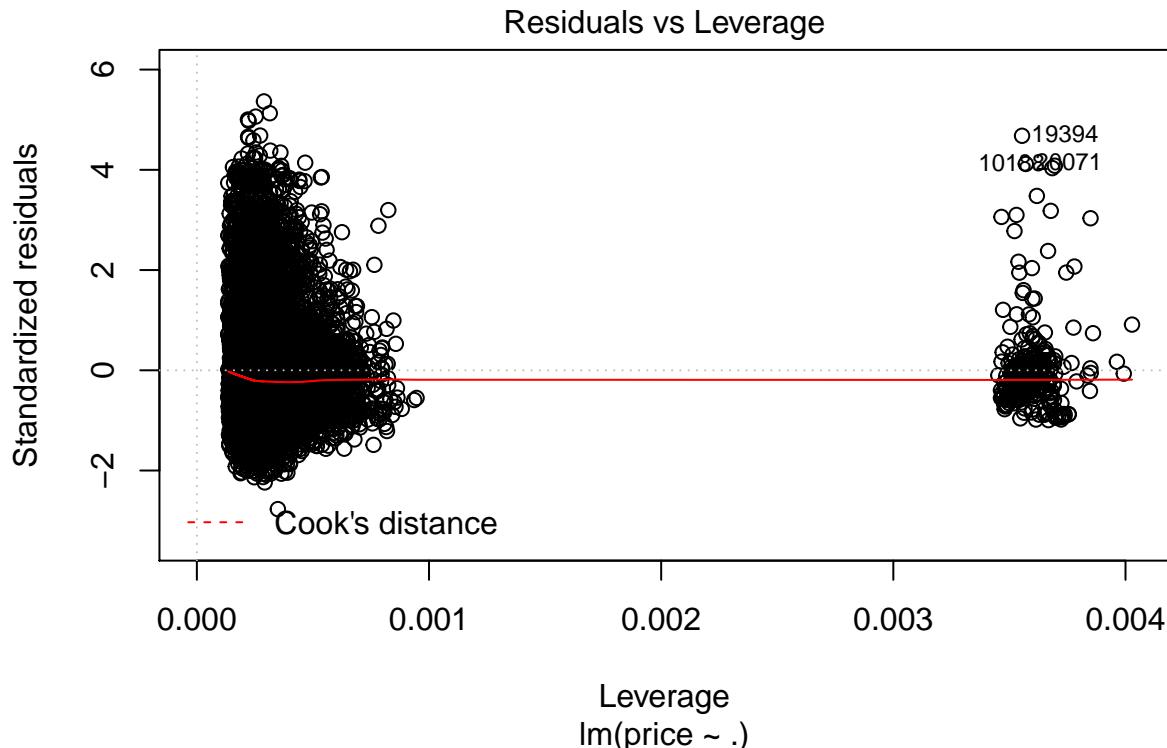
## MSE:  0.7579897
plot(lm2.fit)

```









```

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
## -1.2177 -0.3658 -0.1595  0.1342  4.6126
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -636.4864    82.9750  -7.671 2.06e-14 ***
## latitude     -0.7897    0.4744  -1.664  0.0961 .
## longitude    -9.0358    0.8851 -10.209 < 2e-16 ***
## ---

```

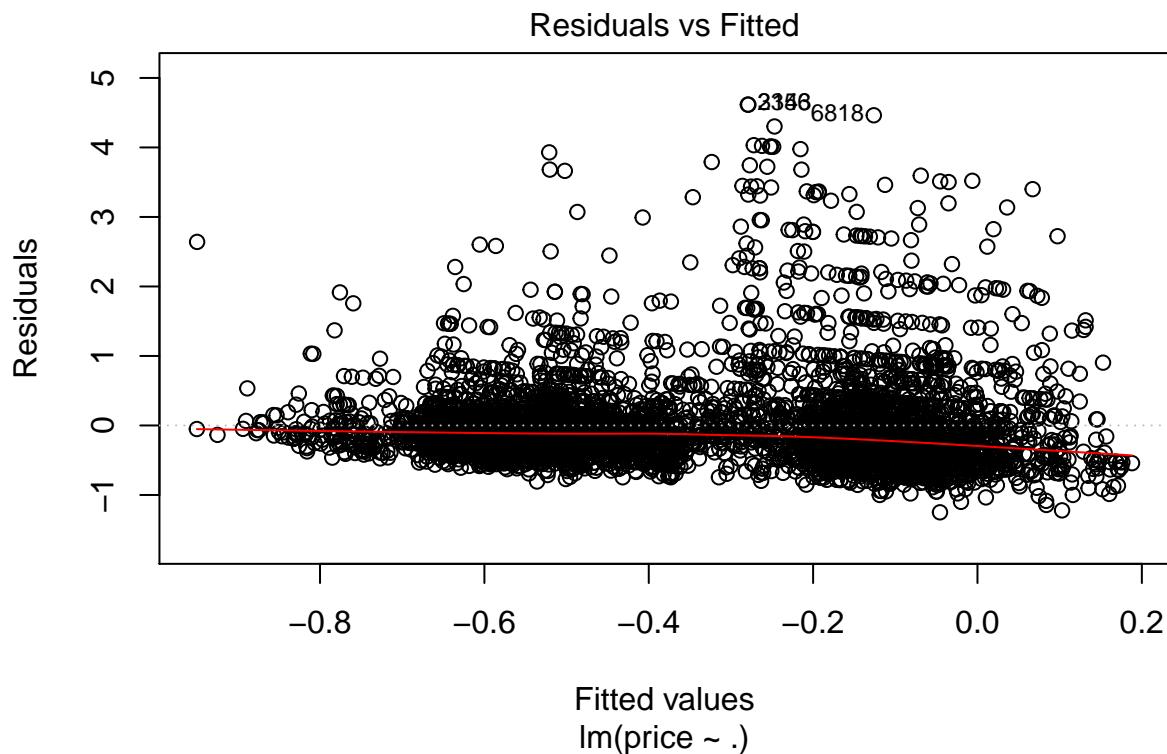
```

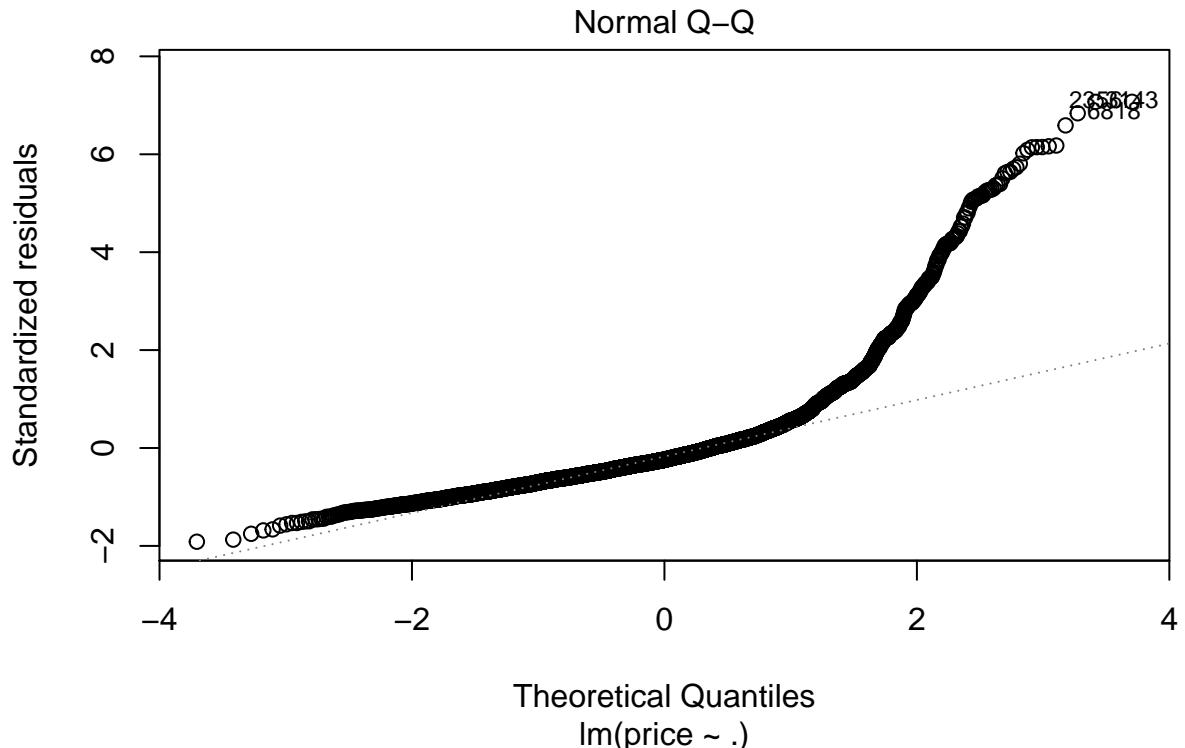
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6596 on 4713 degrees of freedom
## Multiple R-squared:  0.1126, Adjusted R-squared:  0.1122
## F-statistic: 298.9 on 2 and 4713 DF,  p-value: < 2.2e-16
pr3.lm <- predict(lm3.fit,test_neig_room)
MSE3.lm <- sum((pr3.lm - test_neig_room$price)^2)/nrow(test_neig_room)

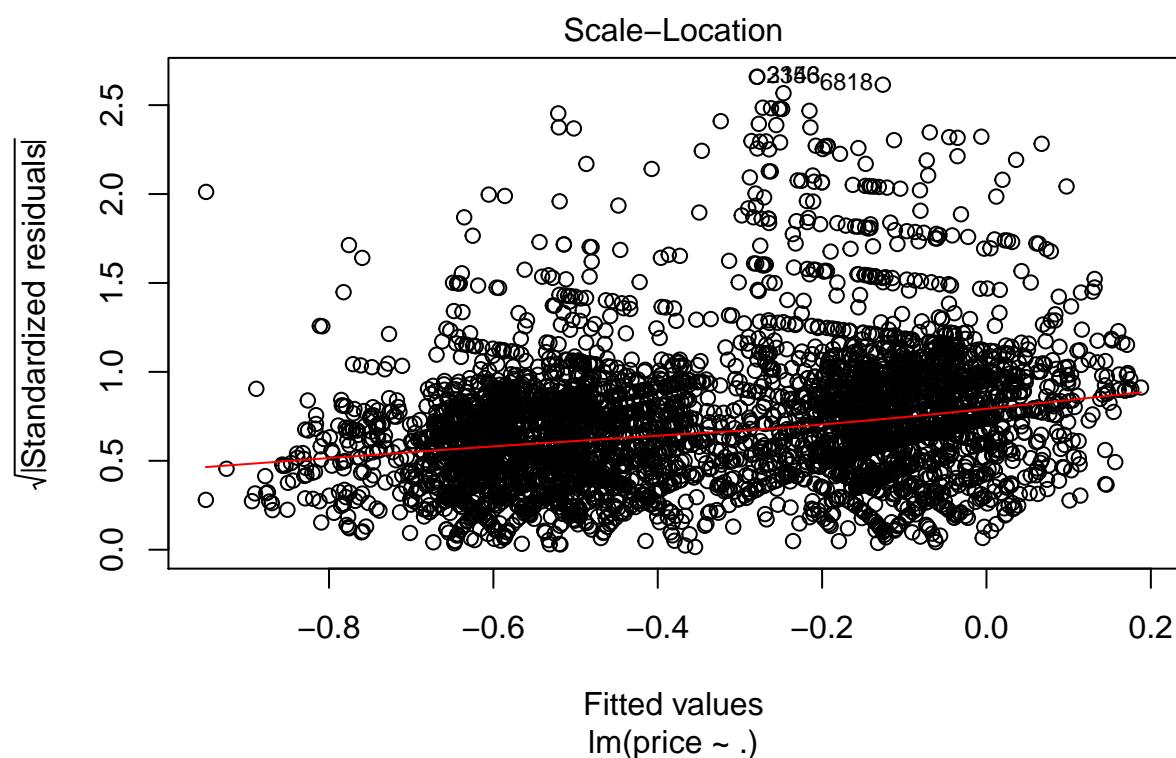
cat("MSE: ",MSE3.lm)

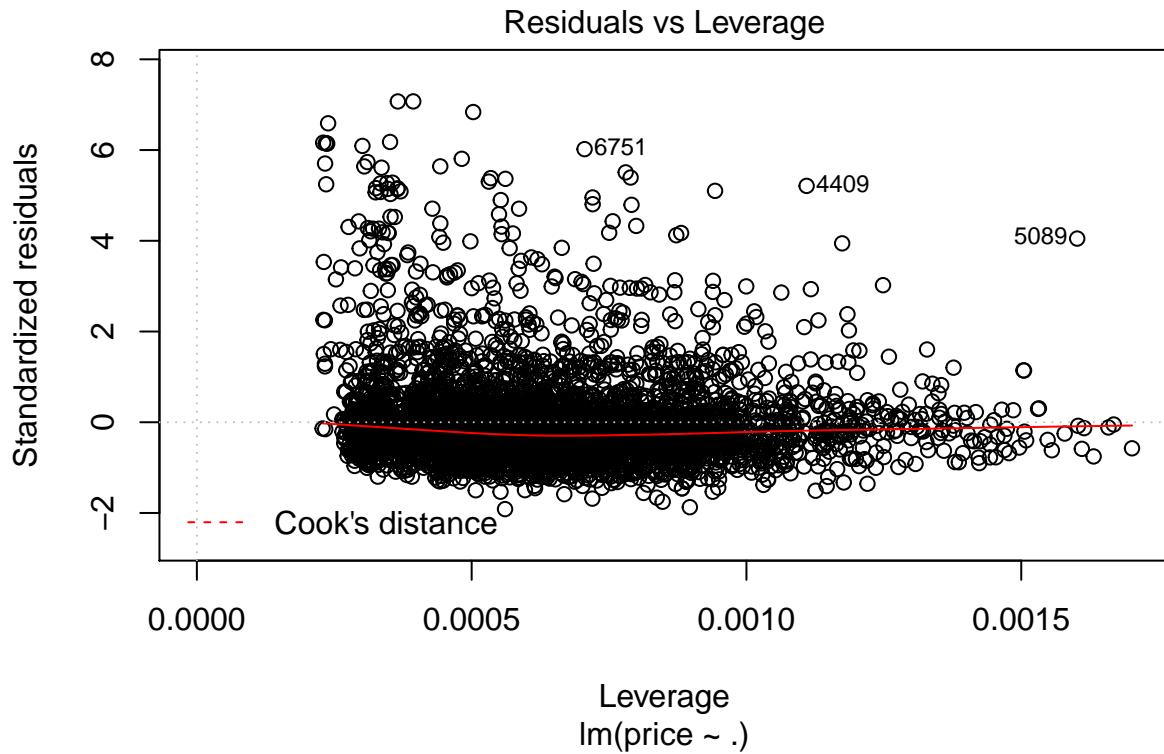
## MSE:  0.4390559
plot(lm3.fit)

```







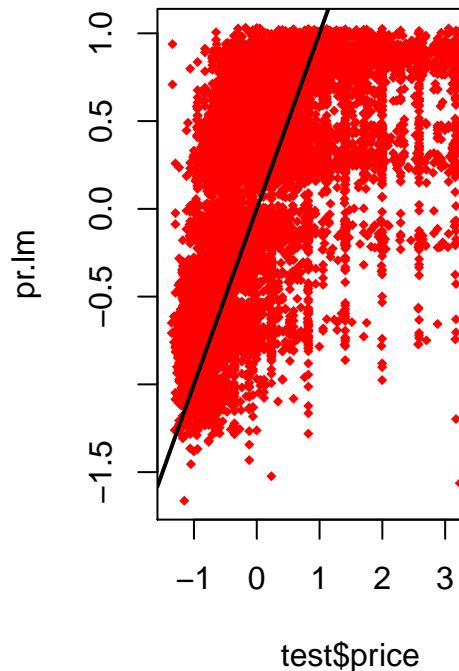


```

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)

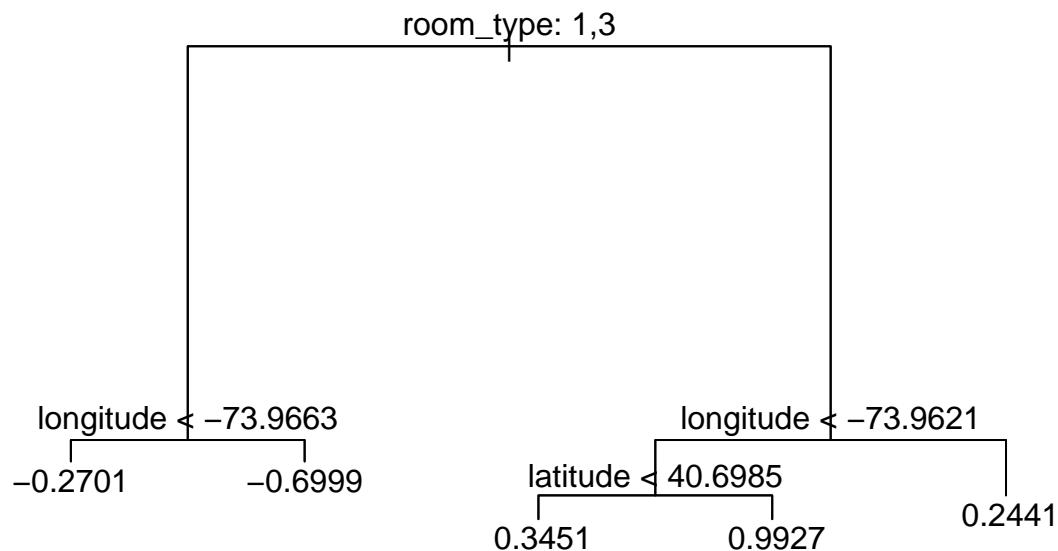
##
```

```

## 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:  0.5874 = 16780 / 28570
## Distribution of residuals:
##    Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.3440 -0.4167 -0.1345 0.0000 0.2300 4.7570
yhat=predict(tree_reg,test)
tree_reg_mse = mean((yhat-test$price)^2)
tree_reg_mse

## [1] 0.5944728
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
##

```

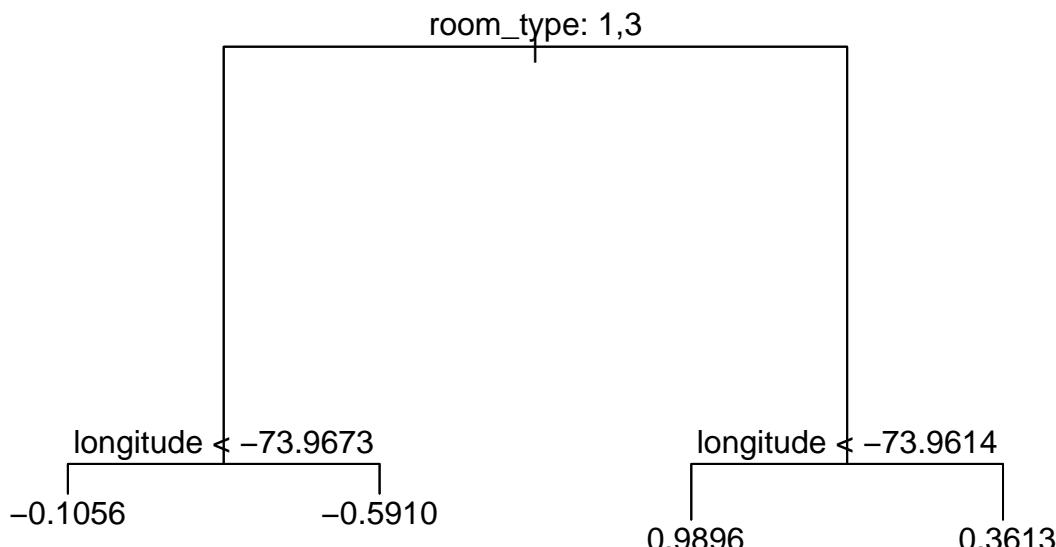
```

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

##
## Regression tree:
## tree(formula = price ~ ., data = train_neig)
## Number of terminal nodes:  4
## Residual mean deviance:  0.7524 = 9362 / 12440
## Distribution of residuals:
##    Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.3330 -0.5192 -0.1772 0.0000 0.3509 4.4660
tree_reg_mse = mean((predict(tree_reg,test_neig)-test_neig$price)^2)
tree_reg_mse

## [1] 0.7642248
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 ")

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

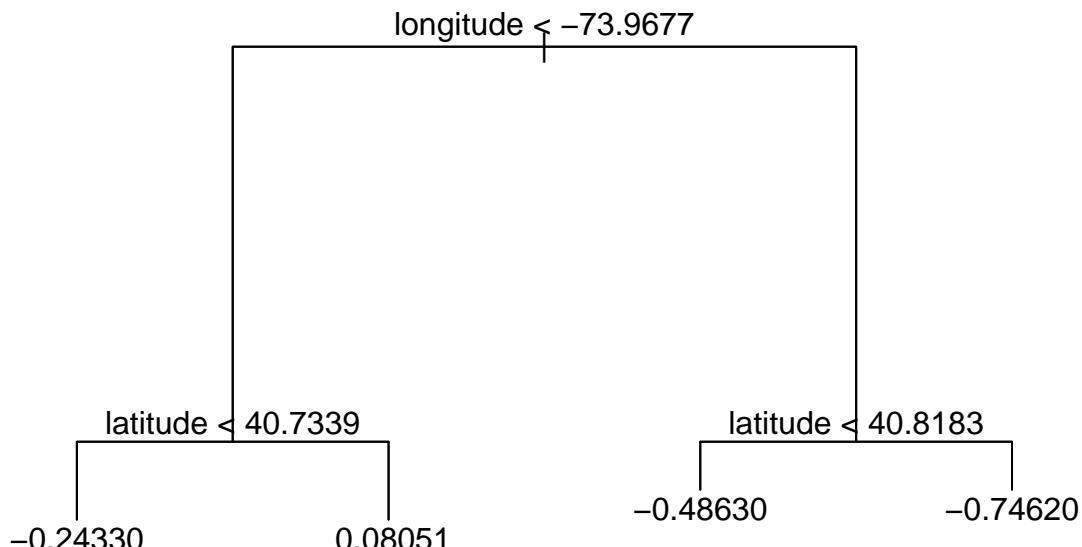
```

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

##
## Regression tree:
## tree(formula = price ~ ., data = train_neig_room)
## Number of terminal nodes:  8
## Residual mean deviance:  0.3533 = 1663 / 4708
## Distribution of residuals:
##    Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.5140 -0.3366 -0.1202 0.0000 0.1337 4.3550
tree_reg_mse = mean((predict(tree_reg,test_neig_room)-test_neig_room$price)^2)
tree_reg_mse

## [1] 0.3824062
plot(tree_reg)
text(tree_reg,pretty=0)

```



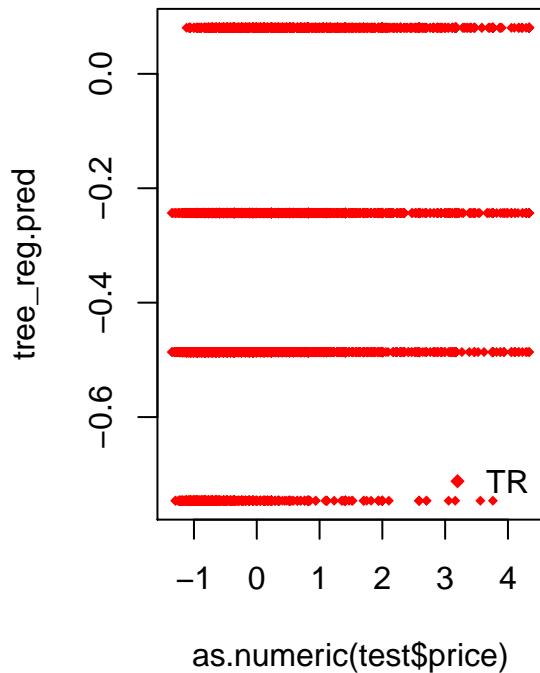
```

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

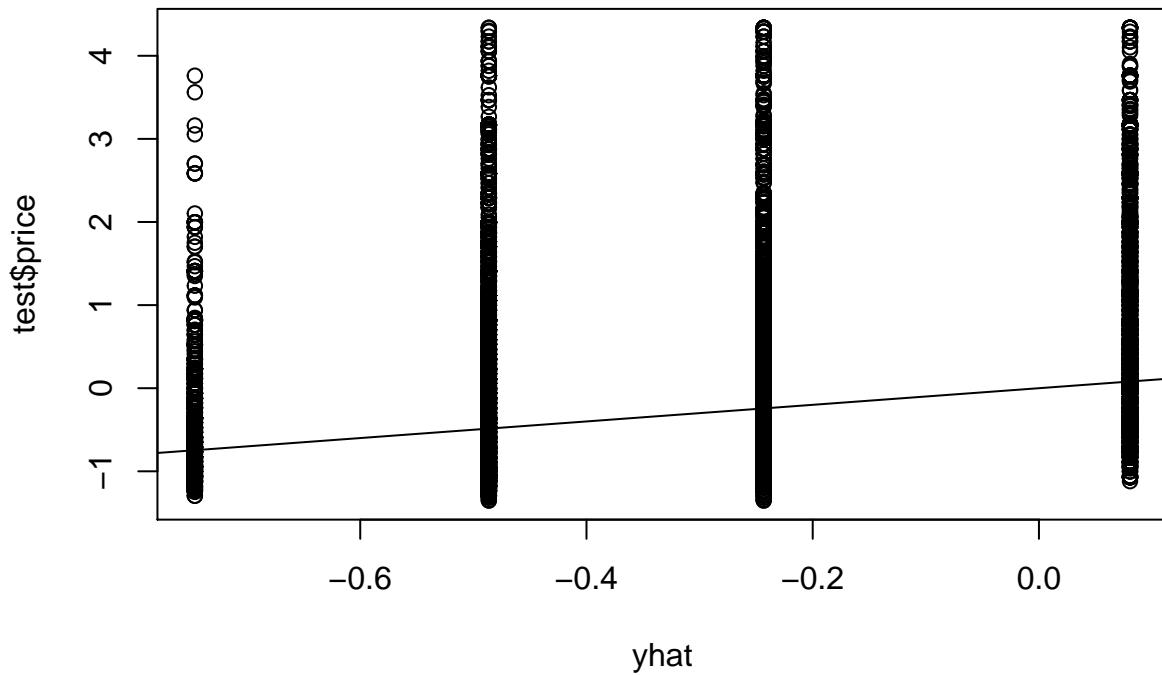
par(mfrow=c(1,2))
plot(as.numeric(test$price),tree_reg.pred,col='red',main='Real vs predicted Tree Regressor',pch=18,cex=
legend('bottomright',legend='TR',pch=18,col='red', bty='n')

```

## Real vs predicted Tree Regression



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



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

```
## [1] 1.020606
```

## 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](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
```

```

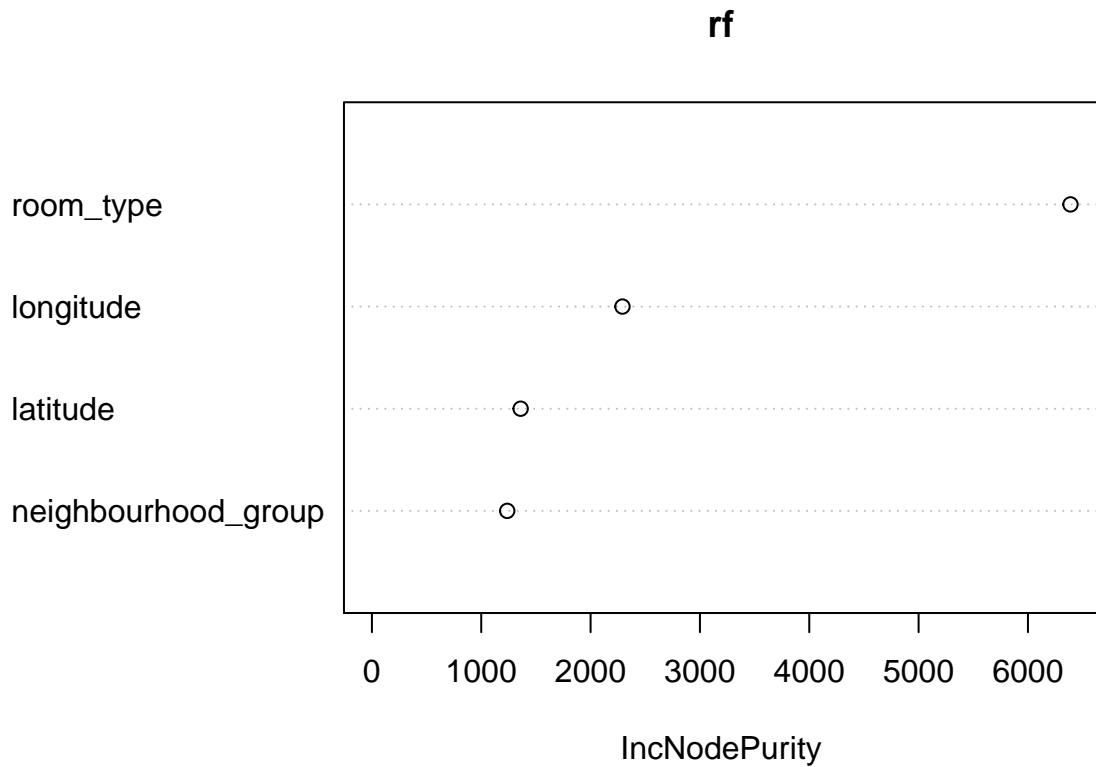
cat(" === Random Forest without filters === \n")

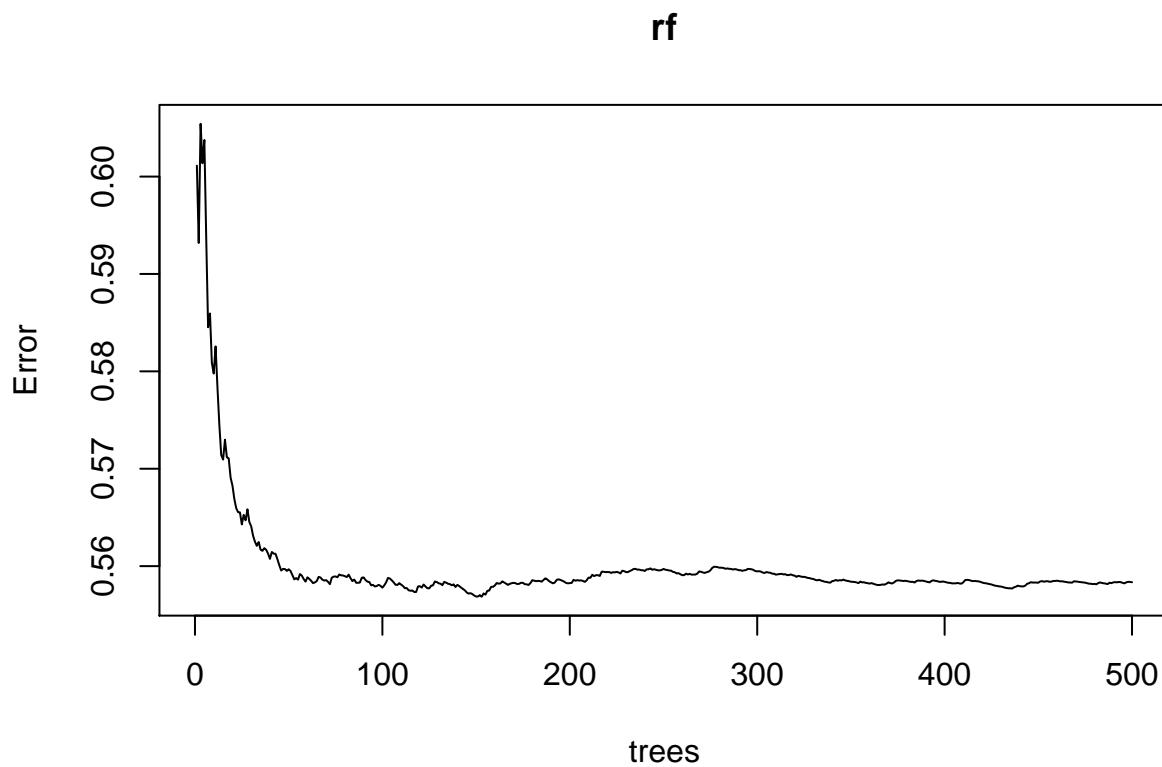
## === Random Forest without filters ===
rf <- randomForest(
  price ~ . ,
  data=train,
)
rf

##
## 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: 0.5599354
##   % Var explained: 43.94

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
## 

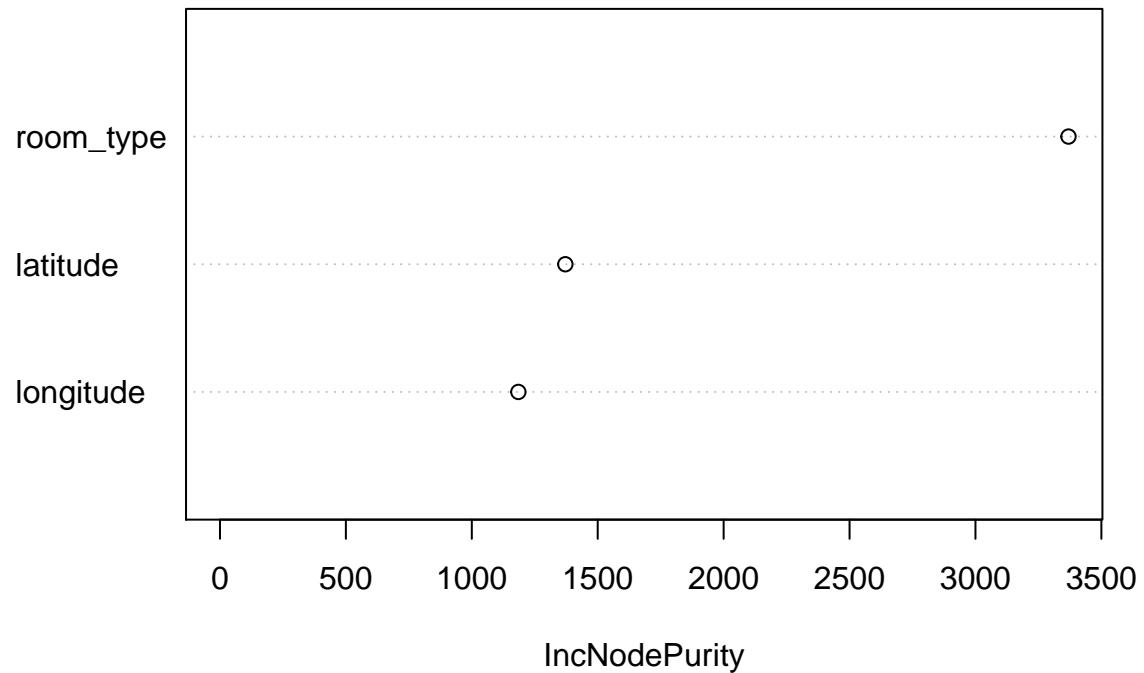
rf2 <- randomForest(
  price ~ .,
  data=train_neig,
  # importance = TRUE
)
rf2

##
## 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: 0.7069744
##           % Var explained: 38.81

varImpPlot(rf2)

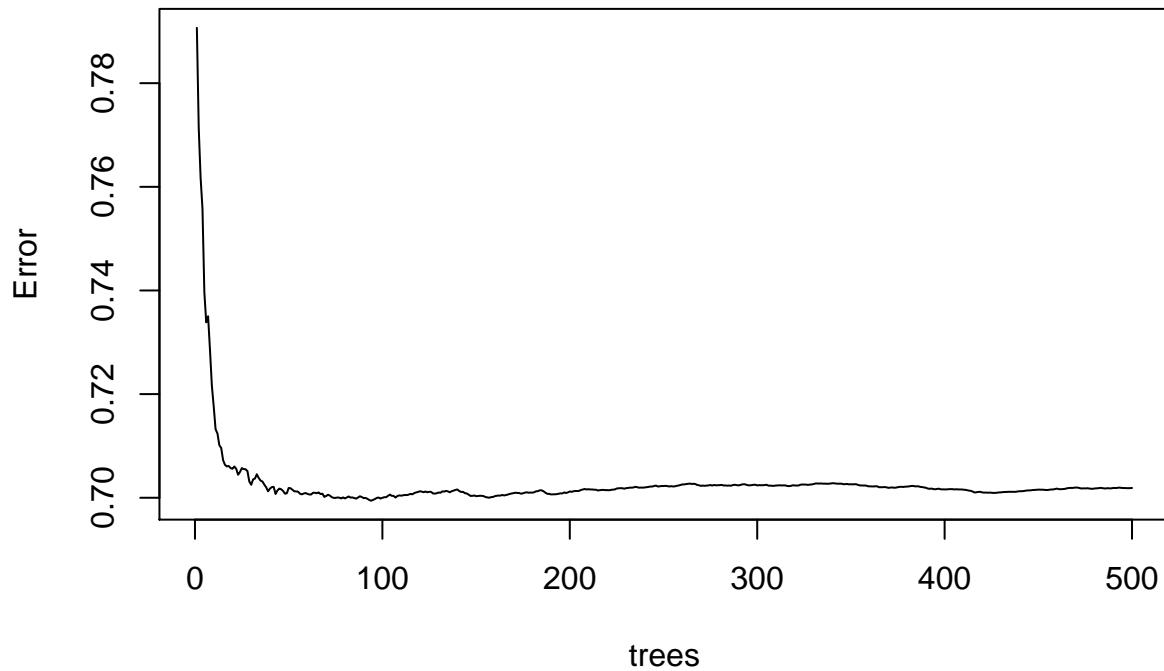
```

**rf2**



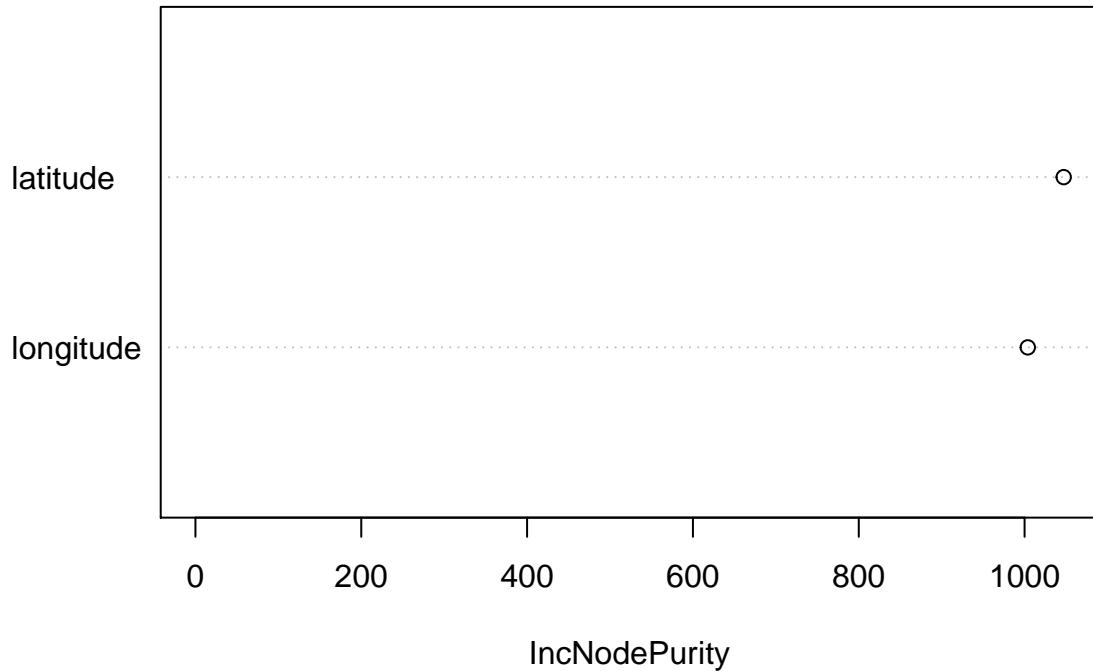
```
plot(rf2)
```

**rf2**



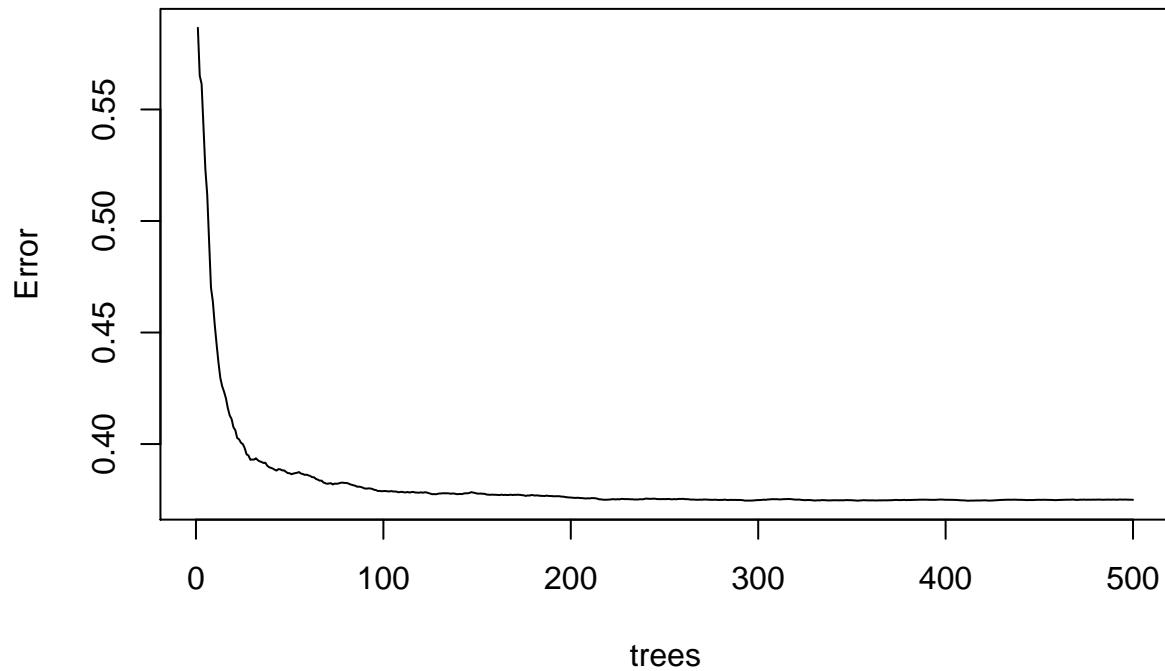
```
cat(" === Random Forest selecting the Neighboorhood group === \n")  
## === Random Forest selecting the Neighboorhood group ===  
cat("Neighboorhood group = Manhattan\n ")  
  
## Neighboorhood group = Manhattan  
##  
rf3 <- randomForest(  
  price ~ .,  
  data=train_neig_room,  
  # importance = 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: 0.3609349  
##                           % Var explained: 26.33  
  
varImpPlot(rf3)
```

**rf3**



```
plot(rf3)
```

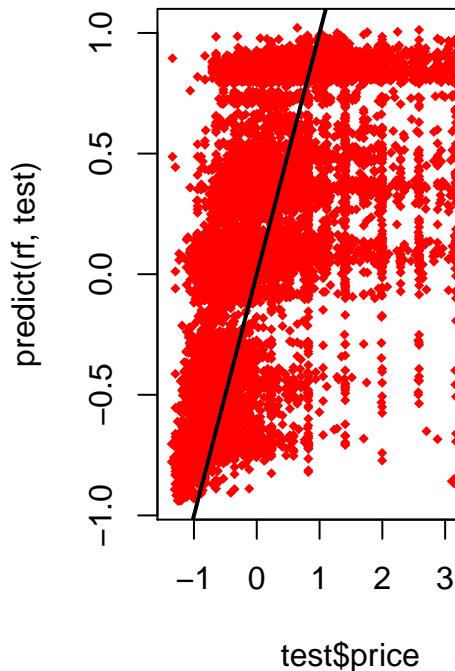
### rf3



```
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')

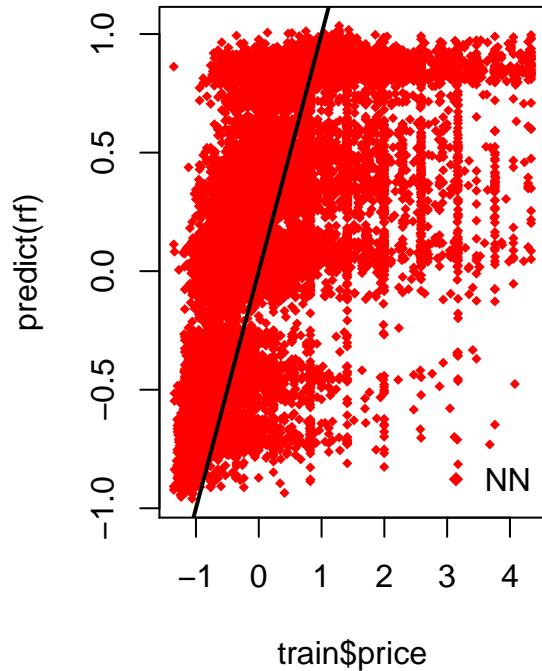
par(mfrow=c(1,2))
```

## 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  0.6684221
## predicteds  0.6684221  1.0000000
head(actuals_preds)

##           actuals predicteds
## 1    0.22166624 -0.6427258
## 4   -0.48377807  0.1822843
## 6    0.82129391  0.8172585
## 9   -0.60135212 -0.2749290
## 11   0.05706257  0.4644131
## 14  -0.53080769 -0.3692570

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

## [1] 0.9059057

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

## [1] -3.245911
```

```

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 4.89512 mins
print("")

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

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

## Random Forest
##
## 4716 samples
##     2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4244, 4244, 4244, 4244, 4245, 4243, ...
## Resampling results:
##
##    RMSE      Rsquared      MAE
##    0.6149827  0.2550829  0.4079441
##
## 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:
## 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

## 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

## 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

## 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

## 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

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

print("-- Time: -- ")

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

## Time difference of 13.37028 mins
print("")

## [1] ""
print(rf_mtry)

## Random Forest
##
## 4716 samples
##     2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4244, 4245, 4244, 4244, 4244, 4244, ...
## Resampling results across tuning parameters:
##
##     mtry   RMSE      Rsquared    MAE
##     1     0.5901457  0.2934782  0.3905151
##     2     0.5972925  0.2839170  0.3961857
##     3     0.5977296  0.2834461  0.3958273
##     4     0.5984390  0.2819715  0.3962537
##     5     0.5981098  0.2825958  0.3959440
##     6     0.5968131  0.2850704  0.3961089
##     7     0.5971835  0.2842688  0.3954687
##     8     0.5977584  0.2833969  0.3957947
##     9     0.5980065  0.2825895  0.3956435
##    10    0.5978012  0.2830716  0.3962187
##
## 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 2.401191 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  0.3879702 0.3974999 0.4018386 0.4060514 0.4192229 0.4287351 0
## 6  0.3876995 0.3950069 0.3994332 0.4038642 0.4152861 0.4285302 0
## 7  0.3863968 0.3944847 0.3991623 0.4035170 0.4154583 0.4276857 0
## 8  0.3855441 0.3940878 0.3991276 0.4031681 0.4149535 0.4274612 0
## 9  0.3838720 0.3939494 0.3987622 0.4023893 0.4131471 0.4260132 0
## 10 0.3823041 0.3923012 0.3975001 0.4011929 0.4114092 0.4264690 0
## 11 0.3808804 0.3903674 0.3967925 0.3994916 0.4087248 0.4249805 0
## 12 0.3822575 0.3893688 0.3958799 0.3987682 0.4073334 0.4250722 0
## 13 0.3816492 0.3893427 0.3962566 0.3985052 0.4066685 0.4250923 0
## 14 0.3814165 0.3900577 0.3952994 0.3984890 0.4063087 0.4254289 0
## 15 0.3806064 0.3887991 0.3964009 0.3983710 0.4072210 0.4247374 0
##
## RMSE
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 5  0.5827965 0.6166286 0.6297439 0.6299194 0.6446492 0.6899678 0
## 6  0.5792634 0.6112112 0.6254066 0.6249607 0.6394611 0.6863022 0
## 7  0.5792320 0.6106582 0.6232294 0.6242131 0.6391995 0.6839419 0
## 8  0.5794216 0.6105175 0.6238380 0.6242727 0.6389923 0.6844217 0
## 9  0.5791086 0.6101537 0.6225783 0.6231689 0.6383402 0.6826464 0
## 10 0.5764695 0.6069399 0.6196961 0.6207638 0.6352435 0.6806885 0
## 11 0.5747763 0.6002699 0.6152472 0.6165809 0.6318926 0.6777159 0
## 12 0.5722149 0.5979271 0.6138474 0.6140887 0.6286118 0.6749760 0
## 13 0.5719006 0.5979235 0.6119936 0.6139422 0.6286907 0.6755483 0
## 14 0.5719100 0.5983991 0.6131377 0.6140003 0.6272114 0.6759572 0
## 15 0.5719878 0.5975120 0.6126456 0.6140526 0.6285407 0.6758678 0
##
## Rsquared
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 5  0.1596073 0.1811829 0.1892492 0.1930764 0.2087353 0.2296756 0
## 6  0.1699282 0.1887024 0.2034525 0.2062605 0.2298464 0.2401918 0
## 7  0.1705021 0.1911108 0.2060050 0.2076664 0.2280758 0.2452989 0
## 8  0.1699247 0.1916035 0.2046961 0.2069361 0.2287733 0.2416161 0
## 9  0.1712202 0.1943693 0.2081662 0.2097404 0.2286387 0.2470308 0
## 10 0.1786243 0.1981410 0.2131223 0.2160590 0.2387575 0.2563367 0
## 11 0.1837025 0.2043846 0.2269572 0.2277771 0.2551217 0.2693290 0
## 12 0.1907105 0.2124639 0.2324633 0.2340084 0.2596301 0.2746564 0
## 13 0.1919975 0.2083478 0.2345665 0.2339638 0.2622510 0.2712985 0
## 14 0.1918470 0.2132021 0.2311326 0.2338492 0.2617963 0.2694442 0
## 15 0.1922110 0.2085163 0.2332164 0.2337673 0.2605237 0.2724130 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 4.70551 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  0.3879702 0.3974999 0.4018386 0.4060514 0.4192229 0.4287351 0
## 6  0.3876995 0.3950069 0.3994332 0.4038642 0.4152861 0.4285302 0
## 7  0.3863968 0.3944847 0.3991623 0.4035170 0.4154583 0.4276857 0
## 8  0.3855441 0.3940878 0.3991276 0.4031681 0.4149535 0.4274612 0
## 9  0.3838720 0.3939494 0.3987622 0.4023893 0.4131471 0.4260132 0
## 10 0.3823041 0.3923012 0.3975001 0.4011929 0.4114092 0.4264690 0
## 11 0.3808804 0.3903674 0.3967925 0.3994916 0.4087248 0.4249805 0
## 12 0.3822575 0.3893688 0.3958799 0.3987682 0.4073334 0.4250722 0
## 13 0.3816492 0.3893427 0.3962566 0.3985052 0.4066685 0.4250923 0
## 14 0.3814165 0.3900577 0.3952994 0.3984890 0.4063087 0.4254289 0
## 15 0.3806064 0.3887991 0.3964009 0.3983710 0.4072210 0.4247374 0
## 16 0.3805002 0.3894225 0.3955406 0.3980576 0.4063653 0.4248592 0
## 17 0.3803014 0.3886129 0.3953019 0.3975639 0.4053240 0.4233046 0
## 18 0.3790316 0.3877844 0.3961487 0.3972724 0.4052706 0.4236941 0
## 19 0.3791860 0.3872664 0.3948665 0.3962273 0.4029593 0.4232486 0
## 20 0.3782354 0.3863585 0.3948715 0.3956197 0.4019224 0.4225964 0
## 21 0.3775233 0.3857628 0.3924909 0.3941804 0.3998002 0.4221936 0
## 22 0.3768937 0.3856489 0.3923985 0.3937764 0.3997754 0.4206433 0
## 23 0.3778526 0.3839359 0.3929654 0.3934798 0.3983359 0.4214113 0
## 24 0.3764012 0.3846349 0.3928077 0.3934006 0.3979546 0.4218826 0
## 25 0.3769508 0.3851877 0.3921155 0.3932359 0.3976226 0.4207826 0

```

```

## 26 0.3763250 0.3845070 0.3923063 0.3932412 0.3978260 0.4214314 0
## 27 0.3765676 0.3847790 0.3924914 0.3931500 0.3984025 0.4201233 0
## 28 0.3764375 0.3846741 0.3922180 0.3930690 0.3982174 0.4198443 0
## 29 0.3765365 0.3839278 0.3928848 0.3929258 0.3974650 0.4205905 0
## 30 0.3756521 0.3835547 0.3916218 0.3924939 0.3976501 0.4206837 0
##
## RMSE
##           Min.   1st Qu.   Median   Mean   3rd Qu.   Max. NA's
## 5  0.5827965 0.6166286 0.6297439 0.6299194 0.6446492 0.6899678 0
## 6  0.5792634 0.6112112 0.6254066 0.6249607 0.6394611 0.6863022 0
## 7  0.5792320 0.6106582 0.6232294 0.6242131 0.6391995 0.6839419 0
## 8  0.5794216 0.6105175 0.6238380 0.6242727 0.6389923 0.6844217 0
## 9  0.5791086 0.6101537 0.6225783 0.6231689 0.6383402 0.6826464 0
## 10 0.5764695 0.6069399 0.6196961 0.6207638 0.6352435 0.6806885 0
## 11 0.5747763 0.6002699 0.6152472 0.6165809 0.6318926 0.6777159 0
## 12 0.5722149 0.5979271 0.6138474 0.6140887 0.6286118 0.6749760 0
## 13 0.5719006 0.5979235 0.6119936 0.6139422 0.6286907 0.6755483 0
## 14 0.5719100 0.5983991 0.6131377 0.6140003 0.6272114 0.6759572 0
## 15 0.5719878 0.5975120 0.6126456 0.6140526 0.6285407 0.6758678 0
## 16 0.5717224 0.5974643 0.6124667 0.6134643 0.6276741 0.6761307 0
## 17 0.5708108 0.5971081 0.6117114 0.6128049 0.6272715 0.6737606 0
## 18 0.5720905 0.5954405 0.6114004 0.6121484 0.6262337 0.6729051 0
## 19 0.5698183 0.5933956 0.6094854 0.6101093 0.6234564 0.6722650 0
## 20 0.5693698 0.5902838 0.6071818 0.6082292 0.6216400 0.6683144 0
## 21 0.5680568 0.5882581 0.6048956 0.6052914 0.6178030 0.6661799 0
## 22 0.5678421 0.5875416 0.6022584 0.6037259 0.6169027 0.6641442 0
## 23 0.5678445 0.5853381 0.6039519 0.6037077 0.6152872 0.6652995 0
## 24 0.5665574 0.5844470 0.6024052 0.6032166 0.6147592 0.6646648 0
## 25 0.5667580 0.5867918 0.6017481 0.6031905 0.6151220 0.6642328 0
## 26 0.5674644 0.5855728 0.6019319 0.6032068 0.6145412 0.6652921 0
## 27 0.5661226 0.5860167 0.6016058 0.6030639 0.6152581 0.6631977 0
## 28 0.5677097 0.5860326 0.6019419 0.6029544 0.6158879 0.6623576 0
## 29 0.5667032 0.5844475 0.6017018 0.6028438 0.6142853 0.6643469 0
## 30 0.5665065 0.5835997 0.6017528 0.6024355 0.6152582 0.6635898 0
##
## Rsquared
##           Min.   1st Qu.   Median   Mean   3rd Qu.   Max. NA's
## 5  0.1596073 0.1811829 0.1892492 0.1930764 0.2087353 0.2296756 0
## 6  0.1699282 0.1887024 0.2034525 0.2062605 0.2298464 0.2401918 0
## 7  0.1705021 0.1911108 0.2060050 0.2076664 0.2280758 0.2452989 0
## 8  0.1699247 0.1916035 0.2046961 0.2069361 0.2287733 0.2416161 0
## 9  0.1712202 0.1943693 0.2081662 0.2097404 0.2286387 0.2470308 0
## 10 0.1786243 0.1981410 0.2131223 0.2160590 0.2387575 0.2563367 0
## 11 0.1837025 0.2043846 0.2269572 0.2277771 0.2551217 0.2693290 0
## 12 0.1907105 0.2124639 0.2324633 0.2340084 0.2596301 0.2746564 0
## 13 0.1919975 0.2083478 0.2345665 0.2339638 0.2622510 0.2712985 0
## 14 0.1918470 0.2132021 0.2311326 0.2338492 0.2617963 0.2694442 0
## 15 0.1922110 0.2085163 0.2332164 0.2337673 0.2605237 0.2724130 0
## 16 0.1925646 0.2119464 0.2343063 0.2349609 0.2624894 0.2736794 0
## 17 0.1953210 0.2119888 0.2357404 0.2367262 0.2637778 0.2757392 0
## 18 0.1920943 0.2127210 0.2383666 0.2381438 0.2665843 0.2761426 0
## 19 0.1980894 0.2174056 0.2437499 0.2435491 0.2718371 0.2866845 0
## 20 0.1993202 0.2244063 0.2473934 0.2484050 0.2770990 0.2900370 0
## 21 0.2029510 0.2394488 0.2521236 0.2560686 0.2822137 0.3085810 0

```

```

## 22 0.2040399 0.2378960 0.2594272 0.2599247 0.2879278 0.3165839 0
## 23 0.2036920 0.2385801 0.2588373 0.2599177 0.2836125 0.3116583 0
## 24 0.2076003 0.2381705 0.2599560 0.2611928 0.2902712 0.3092025 0
## 25 0.2070715 0.2457354 0.2597952 0.2611316 0.2870712 0.3138786 0
## 26 0.2051678 0.2402212 0.2610465 0.2609266 0.2882665 0.3104506 0
## 27 0.2092096 0.2438986 0.2625164 0.2613167 0.2847957 0.3100764 0
## 28 0.2053011 0.2417560 0.2596449 0.2615948 0.2887696 0.3122085 0
## 29 0.2079316 0.2411684 0.2619240 0.2617902 0.2893622 0.3050967 0
## 30 0.2084188 0.2397243 0.2620141 0.2628208 0.2886983 0.3169270 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 4.919534 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  0.3683012 0.3875450 0.3923359 0.3942013 0.4030799 0.4193866 0
## 300  0.3686732 0.3874732 0.3924297 0.3942107 0.4030449 0.4188943 0
## 350  0.3683822 0.3871528 0.3923181 0.3939807 0.4028289 0.4185565 0
## 400  0.3682779 0.3873553 0.3921056 0.3939628 0.4027370 0.4186296 0
## 450  0.3683414 0.3872539 0.3919439 0.3939503 0.4029500 0.4185239 0
## 500  0.3684934 0.3873776 0.3921705 0.3940265 0.4030403 0.4184137 0
## 550  0.3687222 0.3873002 0.3920383 0.3940145 0.4031448 0.4182699 0
## 600  0.3685892 0.3870997 0.3920242 0.3939438 0.4032182 0.4181439 0
## 800  0.3688592 0.3872389 0.3923373 0.3940811 0.4031564 0.4179666 0
## 1000 0.3685156 0.3871403 0.3924657 0.3940072 0.4030532 0.4180788 0
## 2000 0.3685484 0.3872213 0.3925781 0.3940558 0.4030064 0.4181039 0
##
## RMSE
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 250  0.5186135 0.5793677 0.6054724 0.6032159 0.6284461 0.6930706 0
## 300  0.5186102 0.5794018 0.6055643 0.6032484 0.6287253 0.6926727 0
## 350  0.5187791 0.5791112 0.6057999 0.6029398 0.6281480 0.6919738 0
## 400  0.5188105 0.5792793 0.6053829 0.6028927 0.6281246 0.6920740 0
## 450  0.5187201 0.5794970 0.6052652 0.6028936 0.6283193 0.6918713 0
## 500  0.5188847 0.5791303 0.6055902 0.6029850 0.6279427 0.6919808 0
## 550  0.5188967 0.5788044 0.6052957 0.6030161 0.6280933 0.6920634 0
## 600  0.5190098 0.5786312 0.6053287 0.6028908 0.6281282 0.6918899 0
## 800  0.5196051 0.5784415 0.6057771 0.6031218 0.6284408 0.6916822 0
## 1000 0.5194853 0.5780834 0.6059344 0.6030176 0.6281496 0.6920262 0
## 2000 0.5195760 0.5789639 0.6062088 0.6031969 0.6276353 0.6922584 0
##
## Rsquared
##           Min.    1st Qu.     Median      Mean    3rd Qu.      Max. NA's
## 250  0.2028078 0.2225400 0.2658329 0.2587384 0.2740659 0.3215990 0
## 300  0.2038703 0.2215553 0.2656417 0.2585876 0.2737163 0.3215277 0
## 350  0.2057631 0.2216491 0.2659645 0.2593414 0.2757004 0.3243724 0
## 400  0.2054530 0.2225695 0.2657169 0.2594986 0.2757249 0.3245730 0
## 450  0.2059186 0.2229749 0.2653330 0.2594511 0.2759097 0.3238582 0
## 500  0.2054359 0.2223058 0.2657911 0.2592246 0.2751188 0.3228130 0
## 550  0.2052495 0.2231831 0.2665508 0.2592036 0.2743860 0.3222125 0
## 600  0.2056438 0.2232393 0.2666168 0.2595609 0.2754749 0.3232663 0
## 800  0.2059845 0.2222795 0.2662780 0.2588401 0.2747681 0.3222815 0
## 1000 0.2053311 0.2215849 0.2670358 0.2591900 0.2748245 0.3231995 0
## 2000 0.2048099 0.2214371 0.2651652 0.2587138 0.2743690 0.3236600 0

```

## Step 5) Evaluate the model

```

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

```

```

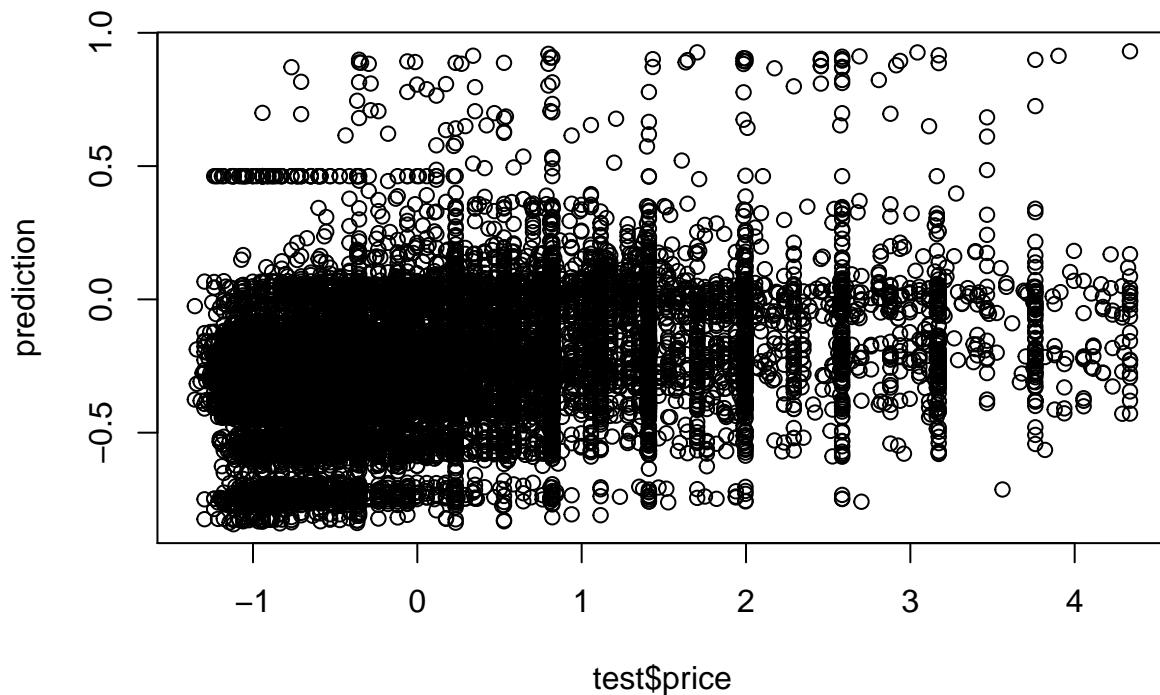
ntree = 800,
maxnodes = 30)

prediction <-predict(fit_rf, test)

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

plot(test$price,prediction)

```



```

print(fit_rf)

## Random Forest
##
## 4716 samples
##      2 predictor
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 4244, 4245, 4245, 4245, 4245, 4244, ...
## Resampling results:
##
##      RMSE      Rsquared      MAE
##      0.6017282  0.2645401  0.392197
##

```

```

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

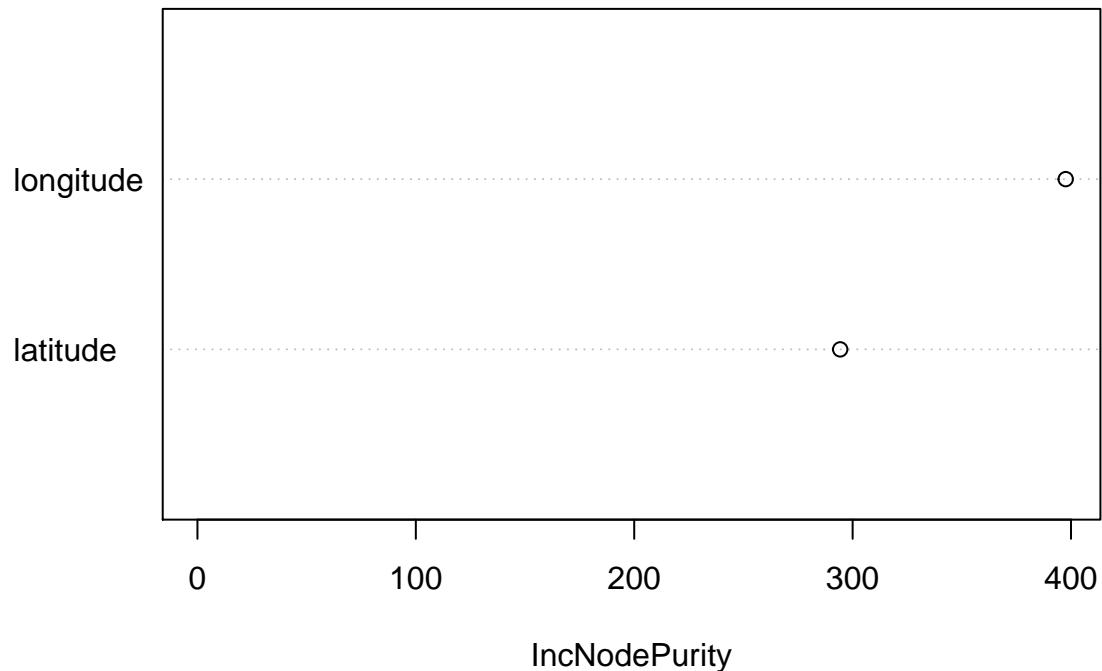
## Step 6) Visualize Result
ele = randomForest::randomForest(
  x = train_neig_room[-3],
  y = train_neig_room$price,
  xtest = test_neig_room[-3],
  ytest = test_neig_room$price,
  mtry = 5,
  maxnodes=30,
  ntree = 800
)

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

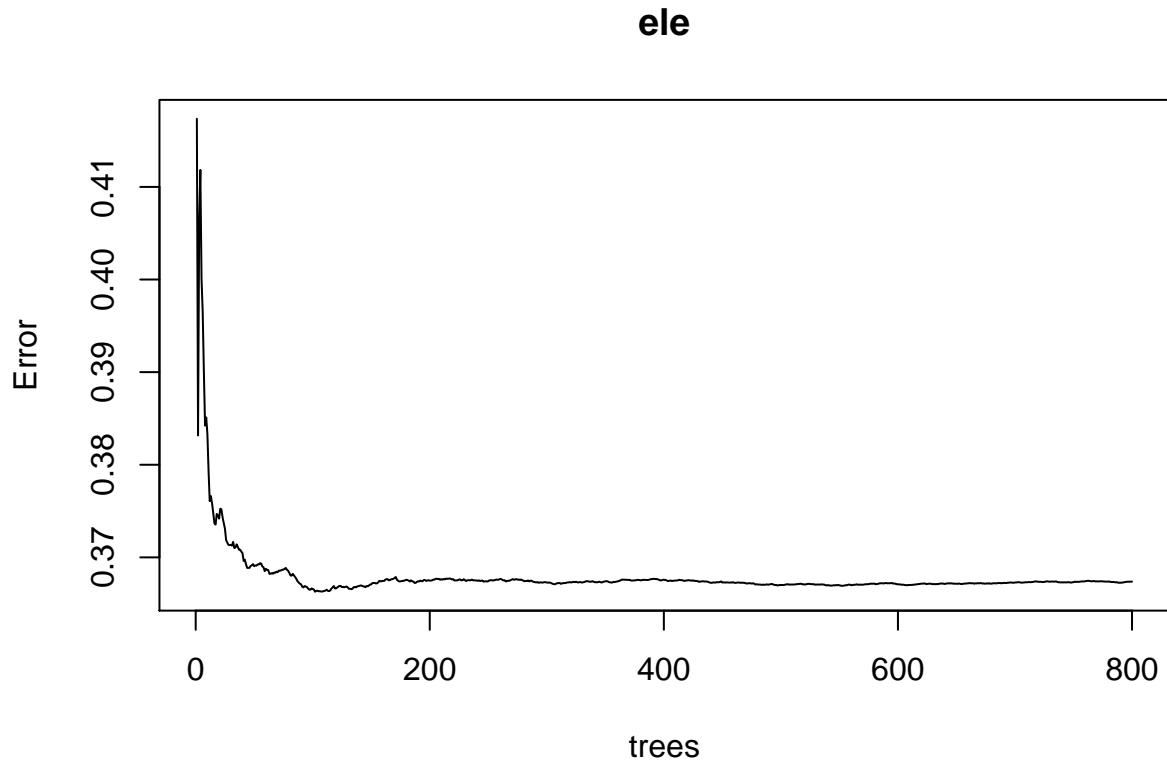
##
## Call:
##   randomForest(x = train_neig_room[-3], y = train_neig_room$price,
##                 Type of random forest: regression
##                           Number of trees: 800
## No. of variables tried at each split: 2
##
##               Mean of squared residuals: 0.3571632
##                         % Var explained: 27.1
##                         Test set MSE: 0.36
##                         % Var explained: 27.02
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 object is masked from 'package:base':
##
##      date

## 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:                28574
## Number of independent variables: 4
## Mtry:                       2
## Target node size:           5
## Variable importance mode:  none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.5296125
## R squared (OOB):            0.4697545

rangerReg_pred = predict(rangerReg, data = test)
rangerReg_pred

## Ranger prediction
##
## Type:                      Regression
## Sample size:                19050
## 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

```

```

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):   0.708851
## R squared (OOB):               0.3865531

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:                4716
## Number of independent variables: 2
## Mtry:                       1
## Target node size:           5
## Variable importance mode:  none
## Splitrule:                  variance
## OOB prediction error (MSE): 0.3606148
## R squared (OOB):            0.264142

rangerReg_pred = predict(rangerReg, data = test_neig_room)
rangerReg_pred

## Ranger prediction
##
## Type:                      Regression

```

```

## Sample size: 3145
## 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: 4M 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=1; min.node.size=296; sample.fraction=0.499 : y = 0.562 : 4.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=5; sample.fraction=0.555 : y = 0.56 : 36.1 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=59; sample.fraction=0.428 : y = 0.529 : 26.5 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=3; sample.fraction=0.74 : y = 0.61 : 70.1 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=969; sample.fraction=0.648 : y = 0.545 : 3.8 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=3; sample.fraction=0.371 : y = 0.546 : 21.2 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=664; sample.fraction=0.642 : y = 0.539 : 7.8 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=11; sample.fraction=0.772 : y = 0.568 : 32.0 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=28; sample.fraction=0.268 : y = 0.561 : 2.5 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=83; sample.fraction=0.276 : y = 0.53 : 6.7 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=1.48e+03; sample.fraction=0.719 : y = 0.569 : 2.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=120; sample.fraction=0.676 : y = 0.532 : 6.7 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=4.29e+03; sample.fraction=0.297 : y = 0.607 : 1.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=45; sample.fraction=0.476 : y = 0.559 : 2.6 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=198; sample.fraction=0.534 : y = 0.531 : 8.0 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=388; sample.fraction=0.879 : y = 0.537 : 7.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=20; sample.fraction=0.221 : y = 0.531 : 6.0 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=16; sample.fraction=0.809 : y = 0.53 : 11.4 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=3.42e+03; sample.fraction=0.527 : y = 0.598 : 2.1 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=7; sample.fraction=0.614 : y = 0.559 : 4.2 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=10; sample.fraction=0.581 : y = 0.556 : 27.1 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=1.21e+03; sample.fraction=0.327 : y = 0.558 : 3.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2.8e+03; sample.fraction=0.709 : y = 0.561 : 3.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=1.9e+03; sample.fraction=0.238 : y = 0.607 : 1.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.395 : y = 0.529 : 7.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=33; sample.fraction=0.852 : y = 0.56 : 2.9 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=4; sample.fraction=0.342 : y = 0.543 : 17.3 secs : initdesign
## [mbo] 0: mtry=4; min.node.size=476; sample.fraction=0.798 : y = 0.538 : 9.0 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2; sample.fraction=0.861 : y = 0.636 : 35.1 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=161; sample.fraction=0.45 : y = 0.535 : 5.3 secs : initdesign
## [mbo] 1: mtry=2; min.node.size=10; sample.fraction=0.399 : y = 0.529 : 6.6 secs : infill_cb

```

```

## [mbo] 2: mtry=2; min.node.size=2; sample.fraction=0.205 : y = 0.529 : 5.4 secs : infill_cb
## [mbo] 3: mtry=2; min.node.size=23; sample.fraction=0.563 : y = 0.529 : 7.3 secs : infill_cb
## [mbo] 4: mtry=4; min.node.size=36; sample.fraction=0.201 : y = 0.528 : 7.7 secs : infill_cb
## [mbo] 5: mtry=4; min.node.size=107; sample.fraction=0.28 : y = 0.531 : 7.5 secs : infill_cb
## [mbo] 6: mtry=2; min.node.size=4; sample.fraction=0.316 : y = 0.528 : 6.2 secs : infill_cb
## [mbo] 7: mtry=3; min.node.size=28; sample.fraction=0.325 : y = 0.527 : 9.8 secs : infill_cb
## [mbo] 8: mtry=2; min.node.size=39; sample.fraction=0.753 : y = 0.53 : 8.1 secs : infill_cb
## [mbo] 9: mtry=3; min.node.size=19; sample.fraction=0.205 : y = 0.526 : 7.3 secs : infill_cb
## [mbo] 10: mtry=4; min.node.size=21; sample.fraction=0.249 : y = 0.527 : 9.9 secs : infill_cb
## [mbo] 11: mtry=3; min.node.size=28; sample.fraction=0.232 : y = 0.527 : 7.5 secs : infill_cb
## [mbo] 12: mtry=2; min.node.size=20; sample.fraction=0.467 : y = 0.529 : 6.6 secs : infill_cb
## [mbo] 13: mtry=4; min.node.size=41; sample.fraction=0.33 : y = 0.528 : 10.8 secs : infill_cb
## [mbo] 14: mtry=3; min.node.size=19; sample.fraction=0.248 : y = 0.527 : 8.3 secs : infill_cb
## [mbo] 15: mtry=3; min.node.size=52; sample.fraction=0.403 : y = 0.528 : 9.8 secs : infill_cb
## [mbo] 16: mtry=3; min.node.size=22; sample.fraction=0.2 : y = 0.527 : 7.1 secs : infill_cb
## [mbo] 17: mtry=4; min.node.size=16; sample.fraction=0.201 : y = 0.527 : 10.4 secs : infill_cb
## [mbo] 18: mtry=2; min.node.size=16; sample.fraction=0.38 : y = 0.529 : 6.7 secs : infill_cb
## [mbo] 19: mtry=3; min.node.size=34; sample.fraction=0.209 : y = 0.527 : 7.3 secs : infill_cb
## [mbo] 20: mtry=4; min.node.size=26; sample.fraction=0.211 : y = 0.527 : 8.4 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

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

## Time difference of 9.095855 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 10S

```

```

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=1; min.node.size=142; sample.fraction=0.715 : y = 0.712 : 1.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=54; sample.fraction=0.691 : y = 0.699 : 4.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=948; sample.fraction=0.265 : y = 0.738 : 0.9 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=833; sample.fraction=0.395 : y = 0.728 : 1.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=7; sample.fraction=0.44 : y = 0.723 : 6.5 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=5; sample.fraction=0.509 : y = 0.741 : 8.0 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=294; sample.fraction=0.532 : y = 0.719 : 1.0 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=389; sample.fraction=0.582 : y = 0.706 : 2.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=3; sample.fraction=0.602 : y = 0.707 : 1.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=210; sample.fraction=0.825 : y = 0.697 : 2.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=28; sample.fraction=0.773 : y = 0.708 : 1.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=9; sample.fraction=0.746 : y = 0.749 : 7.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=97; sample.fraction=0.333 : y = 0.714 : 1.1 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=3; sample.fraction=0.316 : y = 0.712 : 4.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=416; sample.fraction=0.47 : y = 0.709 : 1.5 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=31; sample.fraction=0.895 : y = 0.742 : 8.5 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.501 : y = 0.746 : 7.4 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=79; sample.fraction=0.419 : y = 0.695 : 3.5 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=16; sample.fraction=0.213 : y = 0.692 : 2.6 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=12; sample.fraction=0.655 : y = 0.739 : 8.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=1.88e+03; sample.fraction=0.686 : y = 0.735 : 1.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=19; sample.fraction=0.556 : y = 0.707 : 1.7 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2; sample.fraction=0.835 : y = 0.708 : 1.7 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=153; sample.fraction=0.872 : y = 0.712 : 1.3 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=1.34e+03; sample.fraction=0.272 : y = 0.783 : 0.8 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=638; sample.fraction=0.794 : y = 0.709 : 2.2 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=4; sample.fraction=0.359 : y = 0.719 : 6.3 secs : initdesign
## [mbo] 0: mtry=3; min.node.size=2.03e+03; sample.fraction=0.374 : y = 0.768 : 0.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=5; sample.fraction=0.227 : y = 0.709 : 1.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=48; sample.fraction=0.624 : y = 0.697 : 4.2 secs : initdesign
## [mbo] 1: mtry=3; min.node.size=32; sample.fraction=0.202 : y = 0.693 : 3.0 secs : infill_cb

```

```

## [mbo] 2: mtry=2; min.node.size=56; sample.fraction=0.275 : y = 0.693 : 2.3 secs : infill_cb
## [mbo] 3: mtry=3; min.node.size=20; sample.fraction=0.255 : y = 0.693 : 3.5 secs : infill_cb
## [mbo] 4: mtry=3; min.node.size=16; sample.fraction=0.204 : y = 0.692 : 3.1 secs : infill_cb
## [mbo] 5: mtry=2; min.node.size=31; sample.fraction=0.322 : y = 0.692 : 2.9 secs : infill_cb
## [mbo] 6: mtry=2; min.node.size=25; sample.fraction=0.217 : y = 0.691 : 2.5 secs : infill_cb
## [mbo] 7: mtry=2; min.node.size=96; sample.fraction=0.573 : y = 0.694 : 3.2 secs : infill_cb
## [mbo] 8: mtry=2; min.node.size=48; sample.fraction=0.386 : y = 0.693 : 3.0 secs : infill_cb
## [mbo] 9: mtry=1; min.node.size=2; sample.fraction=0.208 : y = 0.709 : 1.2 secs : infill_cb
## [mbo] 10: mtry=3; min.node.size=46; sample.fraction=0.324 : y = 0.693 : 3.4 secs : infill_cb
## [mbo] 11: mtry=2; min.node.size=31; sample.fraction=0.22 : y = 0.692 : 2.4 secs : infill_cb
## [mbo] 12: mtry=2; min.node.size=17; sample.fraction=0.205 : y = 0.692 : 2.6 secs : infill_cb
## [mbo] 13: mtry=2; min.node.size=25; sample.fraction=0.248 : y = 0.691 : 2.6 secs : infill_cb
## [mbo] 14: mtry=2; min.node.size=21; sample.fraction=0.226 : y = 0.692 : 2.6 secs : infill_cb
## [mbo] 15: mtry=3; min.node.size=26; sample.fraction=0.245 : y = 0.692 : 3.2 secs : infill_cb
## [mbo] 16: mtry=2; min.node.size=26; sample.fraction=0.218 : y = 0.691 : 2.4 secs : infill_cb
## [mbo] 17: mtry=3; min.node.size=77; sample.fraction=0.251 : y = 0.696 : 2.4 secs : infill_cb
## [mbo] 18: mtry=2; min.node.size=35; sample.fraction=0.279 : y = 0.692 : 2.6 secs : infill_cb
## [mbo] 19: mtry=2; min.node.size=29; sample.fraction=0.266 : y = 0.691 : 2.7 secs : infill_cb
## [mbo] 20: mtry=2; min.node.size=23; sample.fraction=0.222 : y = 0.691 : 2.6 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print("-- Time: -- ")

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

## Time difference of 2.617124 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 24S

```

```

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=5; sample.fraction=0.742 : y = 0.387 : 3.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=17; sample.fraction=0.377 : y = 0.343 : 1.1 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=237; sample.fraction=0.335 : y = 0.378 : 0.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=146; sample.fraction=0.552 : y = 0.363 : 0.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=174; sample.fraction=0.503 : y = 0.368 : 0.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=119; sample.fraction=0.655 : y = 0.357 : 0.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=10; sample.fraction=0.625 : y = 0.36 : 2.6 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=29; sample.fraction=0.438 : y = 0.345 : 1.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=3; sample.fraction=0.677 : y = 0.384 : 3.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2; sample.fraction=0.415 : y = 0.35 : 1.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=36; sample.fraction=0.714 : y = 0.351 : 1.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=12; sample.fraction=0.893 : y = 0.367 : 1.9 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=250; sample.fraction=0.287 : y = 0.383 : 0.5 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=327; sample.fraction=0.702 : y = 0.375 : 0.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=4; sample.fraction=0.608 : y = 0.359 : 1.9 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=76; sample.fraction=0.265 : y = 0.363 : 0.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=50; sample.fraction=0.504 : y = 0.348 : 0.9 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=395; sample.fraction=0.294 : y = 0.395 : 0.4 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=2; sample.fraction=0.769 : y = 0.38 : 2.8 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=6; sample.fraction=0.353 : y = 0.343 : 1.3 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=79; sample.fraction=0.582 : y = 0.351 : 1.2 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=20; sample.fraction=0.22 : y = 0.348 : 0.8 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=3; sample.fraction=0.469 : y = 0.359 : 2.6 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=41; sample.fraction=0.787 : y = 0.349 : 1.2 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=626; sample.fraction=0.388 : y = 0.401 : 0.4 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=905; sample.fraction=0.814 : y = 0.394 : 0.4 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=2; sample.fraction=0.851 : y = 0.424 : 4.7 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=556; sample.fraction=0.856 : y = 0.384 : 0.6 secs : initdesign
## [mbo] 0: mtry=2; min.node.size=15; sample.fraction=0.235 : y = 0.343 : 1.1 secs : initdesign
## [mbo] 0: mtry=1; min.node.size=7; sample.fraction=0.549 : y = 0.351 : 1.6 secs : initdesign
## [mbo] 1: mtry=2; min.node.size=4; sample.fraction=0.205 : y = 0.342 : 1.4 secs : infill_cb

```

```

## [mbo] 2: mtry=2; min.node.size=9; sample.fraction=0.317 : y = 0.343 : 1.5 secs : infill_cb
## [mbo] 3: mtry=1; min.node.size=3; sample.fraction=0.2 : y = 0.342 : 1.0 secs : infill_cb
## [mbo] 4: mtry=2; min.node.size=3; sample.fraction=0.202 : y = 0.342 : 1.4 secs : infill_cb
## [mbo] 5: mtry=2; min.node.size=6; sample.fraction=0.206 : y = 0.342 : 1.3 secs : infill_cb
## [mbo] 6: mtry=1; min.node.size=5; sample.fraction=0.206 : y = 0.342 : 1.0 secs : infill_cb
## [mbo] 7: mtry=1; min.node.size=2; sample.fraction=0.203 : y = 0.341 : 1.3 secs : infill_cb
## [mbo] 8: mtry=2; min.node.size=2; sample.fraction=0.201 : y = 0.341 : 1.5 secs : infill_cb
## [mbo] 9: mtry=1; min.node.size=2; sample.fraction=0.204 : y = 0.342 : 1.1 secs : infill_cb
## [mbo] 10: mtry=1; min.node.size=2; sample.fraction=0.208 : y = 0.341 : 1.1 secs : infill_cb
## [mbo] 11: mtry=2; min.node.size=14; sample.fraction=0.363 : y = 0.343 : 1.5 secs : infill_cb
## [mbo] 12: mtry=1; min.node.size=2; sample.fraction=0.2 : y = 0.341 : 1.1 secs : infill_cb
## [mbo] 13: mtry=1; min.node.size=2; sample.fraction=0.202 : y = 0.341 : 1.2 secs : infill_cb
## [mbo] 14: mtry=1; min.node.size=2; sample.fraction=0.208 : y = 0.341 : 1.1 secs : infill_cb
## [mbo] 15: mtry=1; min.node.size=2; sample.fraction=0.235 : y = 0.341 : 1.2 secs : infill_cb
## [mbo] 16: mtry=1; min.node.size=10; sample.fraction=0.312 : y = 0.342 : 1.0 secs : infill_cb
## [mbo] 17: mtry=2; min.node.size=2; sample.fraction=0.2 : y = 0.341 : 1.4 secs : infill_cb
## [mbo] 18: mtry=2; min.node.size=2; sample.fraction=0.201 : y = 0.342 : 1.5 secs : infill_cb
## [mbo] 19: mtry=1; min.node.size=2; sample.fraction=0.23 : y = 0.342 : 1.2 secs : infill_cb
## [mbo] 20: mtry=1; min.node.size=2; sample.fraction=0.211 : y = 0.341 : 1.1 secs : infill_cb
end.time <- Sys.time()
time.taken <- end.time - start.time

print("## Time: -- ")

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

## Time difference of 1.245873 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 = 28574; features = 4
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=3,min.node.size=21

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=25

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 = 4716; features = 2
## Hyperparameters: num.threads=8,verbose=FALSE,respect.unordered.factors=order,mtry=1,min.node.size=2,
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 = 2,
## 
##   ## Type:                      Regression
##   ## Number of trees:          1000
##   ## Sample size:              28574
##   ## Number of independent variables: 4
##   ## Mtry:                     3
##   ## Target node size:        35
##   ## Variable importance mode: none
##   ## Splitrule:                variance
##   ## OOB prediction error (MSE): 0.5275591
##   ## R squared (OOB):         0.4718104

tuned_rangerReg_pred = predict(tuned_rangerReg, data = test)
tuned_rangerReg_pred

## Ranger prediction
##
##   ## Type:                      Regression
##   ## Sample size:              19050
##   ## 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 = 2,
## 
##   ## 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): 0.6914388
## R squared (OOB): 0.4016219
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: 4716
## Number of independent variables: 2
## Mtry: 1
## Target node size: 5
## Variable importance mode: none
## Splitrule: variance
## OOB prediction error (MSE): 0.342632
## R squared (OOB): 0.3008372
tuned_rangerReg_pred3 = predict(tuned_rangerReg3, data = test_neig_room)
tuned_rangerReg_pred3

## Ranger prediction
##
## Type: Regression
## Sample size: 3145
## 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
## 2           1  1.1152290                  1                  0
## 3           1  0.2334236                  1                  0
## 5           1 -0.5895947                  1                  0
## 7           1 -0.8247428                  0                  0
## 8           1 -0.6013521                  1                  0
## 10          1  0.2334236                  1                  0
##      neighbourhood_group4 neighbourhood_group5 room_type2 room_type3 longitude
## 2                 0                      0          1          0 -73.98377
## 3                 0                      0          0          0 -73.94190
## 5                 0                      0          1          0 -73.94399
## 7                 0                      0          0          0 -73.95596
## 8                 0                      0          0          0 -73.98493
## 10                0                      0          1          0 -73.99037
##      latitude
## 2  40.75362
## 3  40.80902
## 5  40.79851
## 7  40.68688
## 8  40.76489
## 10 40.71344

#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(test$price,nn_pred)
plot(test$price,nn_prednet.result)
pr.nn_ <- nn_prednet.result * (max(dataset$price)-min(dataset$price)) + min(dataset$price)

```

## 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/](https://tensorflow.rstudio.com/tutorials/basic-ml/tutorial_basic_regression/) !

For regression : [https://keras.rstudio.com/articles/tutorial\\_basic\\_regression.html](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: 0.616452217102051"
paste0("Loss: ", loss)

## [1] "Loss: 0.541939377784729"
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] 0.6164521

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 6.206958 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 57.28584 secs
```

```

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: 0.614612579345703"
paste0("Loss: ", loss)

## [1] "Loss: 0.527698814868927"
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] 0.614612

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 R packages, the factor variables do not need to be preprocessed in advance and the order of the variables does not matter.  
• k is the number of clusters which has to be pre-specified. Alternatively, it can also be a vector of observation indices or a data frame of prototypes with the same columns as x. If ever at the initialization or during the iteration process identical prototypes do occur, the number of clusters will be reduced accordingly.

- lambda > 0 is a real valued parameter that controls the trade off between Euclidean distance for 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 using the function lambdaest(). Alternatively, a vector of length ncol(x) can be passed to lambda (cf. Section on Extensions to the original algorithm).
- iter.max sets the maximum number of iterations, just as in kmeans(). The algorithm may stop prior to iter.max if 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.margins = unit(0, "mm"))
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: 1456             Min.   :40.52   Min.   :-74.18   1: 717
## 2: 8212            1st Qu.:40.72   1st Qu.:-73.99   2:9589
## 3: 581              Median :40.74   Median :-73.98   3:  41
## 4:  36               Mean   :40.75   Mean   :-73.97
## 5:  62              3rd Qu.:40.77   3rd Qu.:-73.95
##                   Max.   :40.91   Max.   :-73.72
##          price
##  Min.   :-0.2016
##  1st Qu.: 0.2334
##  Median : 0.5861
##  Mean   : 0.5660
##  3rd Qu.: 0.8213
##  Max.   : 1.3739
## [1] "====="

## [1] "==" clust: 2==""
##   neighbourhood_group      latitude      longitude    room_type
## 1:  0             Min.   :40.50   Min.   :-74.24   1:8060
## 2: 8604            1st Qu.:40.74   1st Qu.:-73.99   2:1166
## 3: 869              Median :40.77   Median :-73.96   3: 444
## 4:  46               Mean   :40.78   Mean   :-73.96
## 5: 151              3rd Qu.:40.81   3rd Qu.:-73.94
##                   Max.   :40.91   Max.   :-73.73
##          price

```

```

## Min.   :-1.3538
## 1st Qu.:-0.7189
## Median :-0.5308
## Mean   :-0.5143
## 3rd Qu.:-0.3544
## Max.    : 0.2922
## [1] "====="

## [1] "== clust: 3==="
## neighbourhood_group   latitude      longitude      room_type     price
## 1:1283                 Min.   :40.51   Min.   :-74.24   1: 414   Min.   :1.386
## 2:3588                 1st Qu.:40.71   1st Qu.:-73.99   2:4701  1st Qu.:1.527
## 3: 222                 Median :40.73   Median :-73.98   3:  24   Median :1.997
## 4:  16                  Mean   :40.74   Mean   :-73.97   4:  16   Mean   :2.202
## 5:  30                  3rd Qu.:40.76   3rd Qu.:-73.96   5:  30   3rd Qu.:2.585
##                         Max.   :40.90   Max.   :-73.73   6:  30   Max.   :4.337
## [1] "====="

## [1] "== clust: 4==="
## neighbourhood_group   latitude      longitude      room_type
## 1:9983                 Min.   :40.54   Min.   :-74.17   1:12576
## 2:  0                   1st Qu.:40.68   1st Qu.:-73.96   2:  161
## 3:2642                 Median :40.69   Median :-73.94   3:  595
## 4: 150                 Mean   :40.70   Mean   :-73.93
## 5: 557                 3rd Qu.:40.71   3rd Qu.:-73.91
##                         Max.   :40.91   Max.   :-73.71
##     price
## Min.   :-1.35383
## 1st Qu.:-1.00110
## Median :-0.86001
## Mean   :-0.82284
## 3rd Qu.:-0.70717
## Max.   :-0.06051
## [1] "====="

## [1] "== clust: 5==="
## neighbourhood_group   latitude      longitude      room_type
## 1:7086                 Min.   :40.51   Min.   :-74.24   1: 369
## 2: 341                 1st Qu.:40.67   1st Qu.:-73.96   2:8729
## 3:1311                 Median :40.69   Median :-73.95   3:  38
## 4: 118                 Mean   :40.70   Mean   :-73.94
## 5: 280                 3rd Qu.:40.72   3rd Qu.:-73.93
##                         Max.   :40.90   Max.   :-73.73
##     price
## Min.   :-0.8953
## 1st Qu.:-0.3897
## Median :-0.1311
## Mean   :-0.1345
## 3rd Qu.: 0.1746
## Max.   : 0.6332
## [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  1:2909  Min. :-0.36620
## 1st Qu.:40.73 1st Qu.:-73.99  2:   0  1st Qu.:-0.35445
## Median :40.76 Median :-73.98  3:  52  Median :-0.11930
## Mean   :40.76  Mean  :-73.98      Mean  :-0.01859
## 3rd Qu.:40.78 3rd Qu.:-73.96      3rd Qu.: 0.23342
## Max.   :40.87  Max.  :-73.92      Max.   : 0.93887
## [1] "====="

## [1] "==== clust: 2===="
##   latitude     longitude room_type      price
##   Min. :40.70  Min. :-74.02  1:4581  Min. :-1.3538
## 1st Qu.:40.75 1st Qu.:-73.98  2: 155  1st Qu.:-0.8835
## Median :40.80 Median :-73.95  3: 376  Median :-0.7072
## Mean   :40.79  Mean  :-73.96      Mean  :-0.7270
## 3rd Qu.:40.82 3rd Qu.:-73.94      3rd Qu.: -0.5896
## Max.   :40.88  Max.  :-73.91      Max.   :-0.3780
## [1] "====="

## [1] "==== clust: 3===="
##   latitude     longitude room_type      price
##   Min. :40.70  Min. :-74.02  1: 132  Min. :2.279
## 1st Qu.:40.73 1st Qu.:-74.00  2:1238  1st Qu.:2.585
## Median :40.75 Median :-73.99  3:  10  Median :2.996
## Mean   :40.75  Mean  :-73.98      Mean  :3.066
## 3rd Qu.:40.76 3rd Qu.:-73.97      3rd Qu.:3.408
## Max.   :40.87  Max.  :-73.92      Max.   :4.337
## [1] "====="

## [1] "==== clust: 4===="
##   latitude     longitude room_type      price
##   Min. :40.70  Min. :-74.02  1: 239  Min. :0.8566
## 1st Qu.:40.73 1st Qu.:-74.00  2:3356  1st Qu.:1.1623
## Median :40.75 Median :-73.99  3:  13  Median :1.4092
## Mean   :40.75  Mean  :-73.98      Mean  :1.4789
## 3rd Qu.:40.77 3rd Qu.:-73.98      3rd Qu.:1.8207
```

```

##   Max.    :40.88   Max.    :-73.91           Max.    :2.2675
## [1] "====="

## [1] "== clust: 5==="
##      latitude      longitude      room_type      price
##  Min.  :40.70  Min.  :-74.02  1:   0  Min.  :-0.64838
##  1st Qu.:40.73  1st Qu.:-73.99 2:7662  1st Qu.:-0.07227
##  Median :40.76  Median :-73.98 3:  22  Median : 0.23342
##  Mean   :40.76  Mean   :-73.97          Mean   : 0.23102
##  3rd Qu.:40.79  3rd Qu.:-73.95          3rd Qu.: 0.58615
##  Max.   :40.88  Max.   :-73.91          Max.   : 0.84481
## [1] "====="

lis2$myplot

```

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

```

## [1] "== clust: 1==="
##      latitude      longitude      price
##  Min.  :40.71  Min.  :-74.01  Min.  :1.397
##  1st Qu.:40.74  1st Qu.:-73.99 1st Qu.:1.509
##  Median :40.76  Median :-73.98  Median :1.997
##  Mean   :40.76  Mean   :-73.98  Mean   :2.233
##  3rd Qu.:40.76  3rd Qu.:-73.97 3rd Qu.:2.679
##  Max.   :40.88  Max.   :-73.91  Max.   :4.337
## [1] "====="

## [1] "== clust: 2==="
##      latitude      longitude      price
##  Min.  :40.70  Min.  :-74.02  Min.  :-1.3421
##  1st Qu.:40.79  1st Qu.:-73.96 1st Qu.:-0.9776
##  Median :40.82  Median :-73.95  Median :-0.8835
##  Mean   :40.81  Mean   :-73.95  Mean   :-0.9071
##  3rd Qu.:40.83  3rd Qu.:-73.94 3rd Qu.:-0.8247
##  Max.   :40.88  Max.   :-73.91  Max.   :-0.7424
## [1] "====="

## [1] "== clust: 3==="
##      latitude      longitude      price
##  Min.  :40.70  Min.  :-74.02  Min.  :-0.3897
##  1st Qu.:40.73  1st Qu.:-73.99 1st Qu.:-0.3544
##  Median :40.76  Median :-73.98  Median :-0.2369
##  Mean   :40.76  Mean   :-73.98  Mean   :-0.2164
##  3rd Qu.:40.79  3rd Qu.:-73.96 3rd Qu.:-0.1193
##  Max.   :40.87  Max.   :-73.92  Max.   : 0.1276
## [1] "====="

## [1] "== clust: 4==="

```

```

##      latitude      longitude      price
##  Min.   :40.70   Min.   :-74.02   Min.   :0.1394
##  1st Qu.:40.73   1st Qu.:-73.99   1st Qu.:0.2334
##  Median :40.76   Median :-73.99   Median :0.4098
##  Mean   :40.76   Mean   :-73.98   Mean   :0.4946
##  3rd Qu.:40.78   3rd Qu.:-73.97   3rd Qu.:0.7978
##  Max.   :40.87   Max.   :-73.92   Max.   :1.3621
## [1] "====="

## [1] "==== clust: 5===="
##      latitude      longitude      price
##  Min.   :40.70   Min.   :-74.02   Min.   :-0.7424
##  1st Qu.:40.73   1st Qu.:-73.99   1st Qu.:-0.6484
##  Median :40.78   Median :-73.96   Median :-0.5896
##  Mean   :40.77   Mean   :-73.97   Mean   :-0.5762
##  3rd Qu.:40.81   3rd Qu.:-73.95   3rd Qu.:-0.4838
##  Max.   :40.88   Max.   :-73.91   Max.   :-0.4015
## [1] "====="

lis3$myplot
```

```

library(wesanderson) par(mfrow=c(2,2)) clprofiles(lis$cl, dataset, col = wes_palette("Royal1",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
##          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.
```





```

##          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.

```

```

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

```

```

##          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.
##
## # 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.

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

d <- dist(dataset, method = "euclidean") # distance matrix
fit <- hclust(d, method="complete")
# 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)

# 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] 2 5 5 5 5 3

Cluster size

km.res$size

## [1] 314 864 1194 2488 3001

Cluster means

km.res$centers

##   latitude longitude     price
## 1 40.75522 -73.98148 2.2327442
## 2 40.75901 -73.97988 0.5141997
## 3 40.75774 -73.97903 -0.0865176
## 4 40.80196 -73.95503 -0.8668530
## 5 40.76956 -73.97044 -0.4805850

fviz_cluster(km.res, data = ds_neig_room, palette = c("#00AFBB", "#E9FDF", "#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", "#E9FDF", "#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)

```

```

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-pca-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.famd)
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_screenplot(res.famd)

```

```

var <- get_famd_var(res.famd)
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_famda(res.famda, repel = TRUE)

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

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

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

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

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

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

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

# Contribution to the eighth dimension
fviz_contrib(res.famda, "var", axes = 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.pcamix <- PCAmix(X.quanti=split$X.quanti,
                      X.quali=split$X.quali,
                      rename.level=TRUE,

```

```

graph=FALSE,
ndim=25)

res.pcamix

##
## Call:
## PCAmix(X.quanti = split$X.quanti, X.quali = split$X.quali, 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")

```

## 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:ggpubr':
##
##     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")
```