

ML

#Loading the packages

```
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

library(tidyr)
library(broom)
library(purrr)
library(ggplot2)
library(plotly)

##
## Attaching package: 'plotly'

## 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

library(rgdal)

## Loading required package: sp

## Please note that rgdal will be retired by the end of 2023,
## plan transition to sf/stars/terra functions using GDAL and PROJ
## at your earliest convenience.
##
## rgdal: version: 1.5-27, (SVN revision 1148)
## Geospatial Data Abstraction Library extensions to R successfully loaded
## Loaded GDAL runtime: GDAL 3.2.1, released 2020/12/29
## Path to GDAL shared files:
```

```

/Users/taliadagan/Library/R/x86_64/4.1/library/rgdal/gdal
## GDAL binary built with GEOS: TRUE
## Loaded PROJ runtime: Rel. 7.2.1, January 1st, 2021, [PJ_VERSION: 721]
## Path to PROJ shared files:
/Users/taliadagan/Library/R/x86_64/4.1/library/rgdal/proj
## PROJ CDN enabled: FALSE
## Linking to sp version:1.4-5
## To mute warnings of possible GDAL/OSR exportToProj4() degradation,
## use options("rgdal_show_exportToProj4_warnings"="none") before loading sp
or rgdal.
## Overwritten PROJ_LIB was
/Users/taliadagan/Library/R/x86_64/4.1/library/rgdal/proj

library(leaflet)
library(RColorBrewer)
library(colorRamps)
library(maps)

##
## Attaching package: 'maps'

## The following object is masked from 'package:purrr':
##
##      map

library(mapproj)
library(formattable)

##
## Attaching package: 'formattable'

## The following object is masked from 'package:plotly':
##
##      style

library(spdep)

## Loading required package: spData

## To access larger datasets in this package, install the spDataLarge
## package with: `install.packages('spDataLarge',
## repos='https://nowosad.github.io/drat/', type='source')`

## Loading required package: sf

## Linking to GEOS 3.8.1, GDAL 3.2.1, PROJ 7.2.1

#Reading the London Crime Dataset

Myfile <- read.csv('london_crime_by_lsoa.csv')
summary(Myfile)

```

```
## lsoa_code          borough          major_category    minor_category
## Length:10555      Length:10555      Length:10555      Length:10555
## Class :character   Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character   Mode  :character
##
##
##
##      value          year          month          Longitude
## Min.   : 0.00      Min.   :2008      Min.   : 1.000      Min.   : -0.45140
## 1st Qu.: 0.00      1st Qu.:2010      1st Qu.: 4.000      1st Qu.: -0.21219
## Median : 0.00      Median :2012      Median : 6.000      Median : -0.11739
## Mean   : 0.49      Mean   :2012      Mean   : 6.506      Mean   : -0.12417
## 3rd Qu.: 1.00      3rd Qu.:2014      3rd Qu.: 9.000      3rd Qu.: -0.01171
## Max.   :72.00      Max.   :2016      Max.   :12.000      Max.   :  0.21276
##
##                               NA's      :7
##      Latitude
## Min.   :51.37
## 1st Qu.:51.46
## Median :51.51
## Mean   :51.52
## 3rd Qu.:51.58
## Max.   :51.67
## NA's   :7
```

#Clustering using Hierarchical Clustering

```
library(sp)
library(rgdal)
library(geosphere)

#Removing missing values from the dataset
X <- na.omit(Myfile)
xy <- X[,8:9]

#converting points into a spatialpoints data frame
spdf <- SpatialPointsDataFrame(coords = xy, data = X,
                               proj4string = CRS("+proj=longlat +datum=WGS84
+ellps=WGS84 +towgs84=0,0,0"))

# use the distm function to generate a geodesic distance matrix in meters
mdist <- distm(spdf)

# cluster all points using hierarchical clustering
hc <- hclust(as.dist(mdist), method="complete")
hc

##
## Call:
```

```

## hclust(d = as.dist(mdist), method = "complete")
##
## Cluster method    : complete
## Number of objects: 10548

# define the distance threshold, in this case an average of 500
d=1000
# define clusters based on a tree "height" cutoff "d" and add them to the
SpDataFrame
spdf$clust <- cutree(hc, h=d)

#visualizing the spatial data
library(sp)
library(rgdal)
data(spdf)

## Warning in data(spdf): data set 'spdf' not found

coordinates(spdf)

##          Longitude Latitude
## 1      -0.09631794  51.38259
## 2       0.01003716  51.49328
## 3       0.01400743  51.41045
## 4       0.08250620  51.59773
## 5      -0.18901141  51.45894
## 6      -0.30342843  51.51473
## 7      -0.30342843  51.51473
## 8      -0.37384439  51.46939
## 9       0.03307815  51.53119
## 10     -0.19514135  51.36602
## 11     -0.11461497  51.59851
## 12     -0.12266768  51.46062
## 13     -0.30320903  51.46316
## 14     -0.18901141  51.45894
## 15     -0.45140058  51.54113
## 16      0.21276082  51.58296
## 17      0.12988840  51.56167
## 18      0.08250620  51.59773
## 19     -0.30138440  51.41824
## 20     -0.19514135  51.36602
## 21      0.08250620  51.59773
## 22     -0.13704033  51.50553
## 23     -0.07450626  51.58104
## 24     -0.11738716  51.66902
## 25     -0.30342843  51.51473
## 26     -0.07450626  51.58104
## 27     -0.33994379  51.58901
## 28     -0.30342843  51.51473
## 29     -0.11461497  51.59851
## 30     -0.01170935  51.44908

```

## 31	-0.30342843	51.51473
## 32	-0.37384439	51.46939
## 33	0.01400743	51.41045
## 34	0.21276082	51.58296
## 35	-0.45140058	51.54113
## 36	-0.27106553	51.57616
## 37	-0.11461497	51.59851
## 38	-0.37384439	51.46939
## 39	-0.12266768	51.46062
## 40	-0.08912003	51.51082
## 41	0.21276082	51.58296
## 42	0.03307815	51.53119
## 43	-0.09631794	51.38259
## 44	-0.09631794	51.38259
## 45	-0.19562056	51.66238
## 46	-0.00902464	51.59495
## 47	-0.13704033	51.50553
## 48	-0.12266768	51.46062
## 49	-0.01170935	51.44908
## 50	0.01400743	51.41045
## 51	-0.30342843	51.51473
## 52	-0.27106553	51.57616
## 53	-0.11461497	51.59851
## 54	-0.16211228	51.55180
## 55	0.15157167	51.44755
## 56	-0.09631794	51.38259
## 57	-0.01170935	51.44908
## 58	-0.37384439	51.46939
## 59	-0.16211228	51.55180
## 60	-0.19246075	51.50498
## 61	-0.37384439	51.46939
## 62	-0.01170935	51.44908
## 63	-0.30138440	51.41824
## 64	-0.27106553	51.57616
## 65	-0.08912003	51.51082
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## 69	-0.00902464	51.59495
## 70	-0.10215668	51.54494
## 71	-0.08912003	51.51082
## 72	0.03307815	51.53119
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## 82	-0.07450626	51.58104
## 83	-0.02797504	51.52616
## 84	-0.09631794	51.38259
## 85	-0.23053203	51.50705
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## 116	0.03307815	51.53119
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## 331 -0.00902464 51.59495
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##	1975	-0.33994379	51.58901
##	1976	-0.11461497	51.59851
##	1977	-0.01170935	51.44908
##	1978	-0.30138440	51.41824
##	1979	0.01003716	51.49328
##	1980	-0.19562056	51.66238
##	1981	-0.08912003	51.51082
##	1982	-0.11738716	51.66902

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##	1985	-0.19562056	51.66238
##	1986	-0.33994379	51.58901
##	1987	-0.30320903	51.46316
##	1988	-0.45140058	51.54113
##	1989	-0.19246075	51.50498
##	1990	-0.11738716	51.66902
##	1991	-0.23053203	51.50705
##	1992	-0.13704033	51.50553
##	1993	-0.08912003	51.51082
##	1994	-0.19246075	51.50498
##	1995	0.08250620	51.59773
##	1996	0.03307815	51.53119
##	1997	0.08250620	51.59773
##	1998	0.21276082	51.58296
##	1999	-0.21219045	51.41654
##	2000	-0.02797504	51.52616
##	2001	-0.07450626	51.58104
##	2002	-0.19514135	51.36602
##	2003	-0.08912003	51.51082
##	2004	0.15157167	51.44755
##	2005	-0.23053203	51.50705
##	2006	-0.18901141	51.45894
##	2007	-0.11738716	51.66902
##	2008	-0.33994379	51.58901
##	2009	-0.08912003	51.51082
##	2010	-0.09631794	51.38259
##	2011	-0.19514135	51.36602
##	2012	0.03307815	51.53119
##	2013	0.01400743	51.41045
##	2014	-0.12266768	51.46062
##	2015	-0.13704033	51.50553
##	2016	-0.27106553	51.57616
##	2017	-0.19562056	51.66238
##	2018	-0.08912003	51.51082
##	2019	-0.11738716	51.66902
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##	2023	-0.11738716	51.66902
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##	2025	-0.18901141	51.45894
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##	2027	-0.08912003	51.51082
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## 10248 0.01400743 51.41045
## 10249 -0.33994379 51.58901
## 10250 -0.19562056 51.66238
## 10251 -0.08912003 51.51082
## 10252 -0.16211228 51.55180
## 10253 -0.09631794 51.38259
## 10254 0.03307815 51.53119
## 10255 0.01003716 51.49328
## 10256 -0.30320903 51.46316
## 10257 0.15157167 51.44755
## 10258 0.15157167 51.44755
## 10259 -0.30342843 51.51473
## 10260 -0.02797504 51.52616
## 10261 -0.30320903 51.46316
## 10262 -0.11738716 51.66902
## 10263 -0.37384439 51.46939
## 10264 0.21276082 51.58296
## 10265 -0.21219045 51.41654
## 10266 -0.21219045 51.41654
## 10267 -0.10215668 51.54494
## 10268 0.12988840 51.56167
## 10269 -0.16211228 51.55180
## 10270 -0.19246075 51.50498
## 10271 -0.30320903 51.46316
## 10272 -0.19514135 51.36602
## 10273 -0.45140058 51.54113
## 10274 -0.12266768 51.46062
## 10275 -0.11738716 51.66902
## 10276 -0.13704033 51.50553
## 10277 -0.27106553 51.57616
## 10278 -0.45140058 51.54113
## 10279 -0.11738716 51.66902
## 10280 -0.00902464 51.59495
## 10281 -0.11461497 51.59851
## 10282 -0.30342843 51.51473
## 10283 -0.07450626 51.58104
## 10284 -0.11738716 51.66902
## 10285 -0.19514135 51.36602
## 10286 -0.07450626 51.58104
## 10287 -0.11461497 51.59851
```

10288 0.12988840 51.56167
10289 -0.10215668 51.54494
10290 0.01003716 51.49328
10291 -0.12266768 51.46062
10292 -0.01170935 51.44908
10293 -0.30320903 51.46316
10294 -0.12266768 51.46062
10295 -0.02797504 51.52616
10296 -0.11738716 51.66902
10297 0.12988840 51.56167
10298 0.21276082 51.58296
10299 -0.21219045 51.41654
10300 -0.02797504 51.52616
10301 -0.02797504 51.52616
10302 -0.01170935 51.44908
10303 -0.19562056 51.66238
10304 0.03307815 51.53119
10305 0.15157167 51.44755
10306 0.01003716 51.49328
10307 -0.02797504 51.52616
10308 -0.00902464 51.59495
10309 -0.12266768 51.46062
10310 -0.11738716 51.66902
10311 0.12988840 51.56167
10312 -0.10215668 51.54494
10313 -0.23053203 51.50705
10314 -0.45140058 51.54113
10315 0.08250620 51.59773
10316 0.08250620 51.59773
10317 0.15157167 51.44755
10318 0.15157167 51.44755
10319 0.01003716 51.49328
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10321 -0.02797504 51.52616
10322 -0.37384439 51.46939
10323 -0.19246075 51.50498
10324 -0.09631794 51.38259
10325 0.01003716 51.49328
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10327 -0.11738716 51.66902
10328 0.08250620 51.59773
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10330 -0.19562056 51.66238
10331 0.01003716 51.49328
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10333 0.15157167 51.44755
10334 -0.01170935 51.44908
10335 -0.11738716 51.66902
10336 -0.30138440 51.41824
10337 -0.16211228 51.55180

10338 -0.00902464 51.59495
10339 0.01400743 51.41045
10340 -0.01170935 51.44908
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10344 -0.11461497 51.59851
10345 -0.18901141 51.45894
10346 0.15157167 51.44755
10347 -0.45140058 51.54113
10348 0.03307815 51.53119
10349 -0.18901141 51.45894
10350 0.21276082 51.58296
10351 0.08250620 51.59773
10352 -0.30342843 51.51473
10353 0.01400743 51.41045
10354 -0.09631794 51.38259
10355 0.01400743 51.41045
10356 0.01003716 51.49328
10357 -0.30320903 51.46316
10358 -0.01170935 51.44908
10359 0.01400743 51.41045
10360 -0.19562056 51.66238
10361 -0.09631794 51.38259
10362 -0.10215668 51.54494
10363 -0.19562056 51.66238
10364 -0.01170935 51.44908
10365 -0.01170935 51.44908
10366 -0.33994379 51.58901
10367 -0.16211228 51.55180
10368 -0.37384439 51.46939
10369 0.12988840 51.56167
10370 0.01400743 51.41045
10371 -0.19562056 51.66238
10372 -0.08912003 51.51082
10373 -0.18901141 51.45894
10374 0.01400743 51.41045
10375 0.21276082 51.58296
10376 -0.19562056 51.66238
10377 0.08250620 51.59773
10378 0.01003716 51.49328
10379 -0.13704033 51.50553
10380 -0.45140058 51.54113
10381 0.21276082 51.58296
10382 -0.16211228 51.55180
10383 0.01003716 51.49328
10384 -0.27106553 51.57616
10385 -0.07450626 51.58104
10386 -0.19246075 51.50498
10387 -0.09631794 51.38259

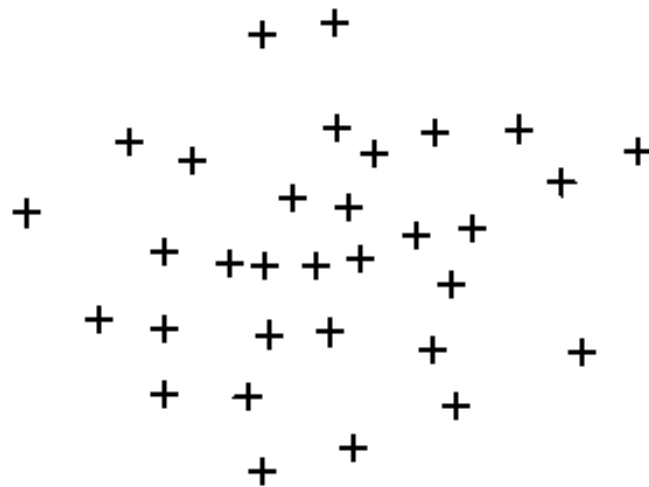
10388 -0.19246075 51.50498
10389 -0.10215668 51.54494
10390 -0.30138440 51.41824
10391 0.15157167 51.44755
10392 -0.13704033 51.50553
10393 -0.10215668 51.54494
10394 -0.07450626 51.58104
10395 -0.30342843 51.51473
10396 -0.19246075 51.50498
10397 -0.19246075 51.50498
10398 -0.12266768 51.46062
10399 -0.37384439 51.46939
10400 -0.18901141 51.45894
10401 -0.11738716 51.66902
10402 -0.00902464 51.59495
10403 0.15157167 51.44755
10404 -0.45140058 51.54113
10405 0.08250620 51.59773
10406 -0.11461497 51.59851
10407 -0.27106553 51.57616
10408 -0.08912003 51.51082
10409 -0.19562056 51.66238
10410 -0.27106553 51.57616
10411 -0.08912003 51.51082
10412 -0.11738716 51.66902
10413 -0.02797504 51.52616
10414 -0.37384439 51.46939
10415 0.08250620 51.59773
10416 -0.18901141 51.45894
10417 -0.30342843 51.51473
10418 0.21276082 51.58296
10419 -0.12266768 51.46062
10420 -0.30138440 51.41824
10421 -0.30320903 51.46316
10422 -0.13704033 51.50553
10423 0.08250620 51.59773
10424 -0.12266768 51.46062
10425 -0.07450626 51.58104
10426 -0.19562056 51.66238
10427 0.03307815 51.53119
10428 -0.11738716 51.66902
10429 -0.08912003 51.51082
10430 -0.45140058 51.54113
10431 -0.13704033 51.50553
10432 0.15157167 51.44755
10433 -0.45140058 51.54113
10434 -0.19246075 51.50498
10435 -0.27106553 51.57616
10436 0.01003716 51.49328
10437 0.15157167 51.44755

10438 -0.09631794 51.38259
10439 -0.09631794 51.38259
10440 -0.19246075 51.50498
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10442 -0.08912003 51.51082
10443 -0.30342843 51.51473
10444 -0.12266768 51.46062
10445 -0.18901141 51.45894
10446 -0.33994379 51.58901
10447 -0.00902464 51.59495
10448 0.01003716 51.49328
10449 -0.30320903 51.46316
10450 -0.00902464 51.59495
10451 -0.11738716 51.66902
10452 -0.30320903 51.46316
10453 -0.13704033 51.50553
10454 0.01003716 51.49328
10455 0.01400743 51.41045
10456 0.21276082 51.58296
10457 -0.19514135 51.36602
10458 -0.27106553 51.57616
10459 -0.10215668 51.54494
10460 0.01400743 51.41045
10461 -0.09631794 51.38259
10462 -0.00902464 51.59495
10463 -0.27106553 51.57616
10464 0.03307815 51.53119
10465 -0.02797504 51.52616
10466 -0.08912003 51.51082
10467 -0.18901141 51.45894
10468 -0.30320903 51.46316
10469 0.12988840 51.56167
10470 0.01003716 51.49328
10471 -0.33994379 51.58901
10472 -0.13704033 51.50553
10473 -0.01170935 51.44908
10474 0.08250620 51.59773
10475 -0.37384439 51.46939
10476 -0.09631794 51.38259
10477 -0.19562056 51.66238
10478 -0.02797504 51.52616
10479 -0.01170935 51.44908
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10481 -0.11461497 51.59851
10482 -0.00902464 51.59495
10483 0.03307815 51.53119
10484 -0.30342843 51.51473
10485 -0.19514135 51.36602
10486 -0.02797504 51.52616
10487 -0.30138440 51.41824

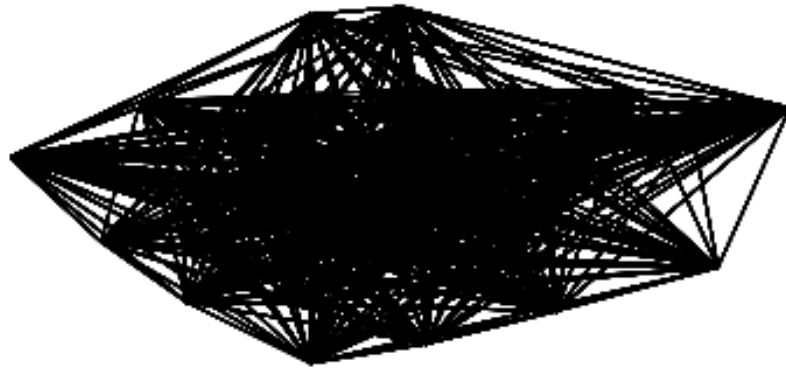
10488 -0.07450626 51.58104
10489 -0.45140058 51.54113
10490 -0.45140058 51.54113
10491 0.21276082 51.58296
10492 -0.33994379 51.58901
10493 -0.08912003 51.51082
10494 -0.11738716 51.66902
10495 0.21276082 51.58296
10496 0.08250620 51.59773
10497 0.03307815 51.53119
10498 -0.18901141 51.45894
10499 -0.13704033 51.50553
10500 -0.19562056 51.66238
10501 -0.01170935 51.44908
10502 0.08250620 51.59773
10503 -0.07450626 51.58104
10504 -0.33994379 51.58901
10505 -0.18901141 51.45894
10506 -0.21219045 51.41654
10507 0.08250620 51.59773
10508 -0.23053203 51.50705
10509 -0.19246075 51.50498
10510 0.01400743 51.41045
10511 -0.30342843 51.51473
10512 -0.27106553 51.57616
10513 -0.11738716 51.66902
10514 -0.45140058 51.54113
10515 -0.10215668 51.54494
10516 -0.08912003 51.51082
10517 0.01400743 51.41045
10518 -0.11461497 51.59851
10519 -0.09631794 51.38259
10520 -0.08912003 51.51082
10521 -0.37384439 51.46939
10522 -0.30342843 51.51473
10523 0.01003716 51.49328
10524 -0.19246075 51.50498
10525 -0.23053203 51.50705
10526 -0.33994379 51.58901
10527 -0.08912003 51.51082
10528 0.12988840 51.56167
10529 -0.23053203 51.50705
10530 -0.16211228 51.55180
10531 0.12988840 51.56167
10532 0.03307815 51.53119
10533 -0.30320903 51.46316
10534 -0.01170935 51.44908
10535 -0.01170935 51.44908
10536 -0.19514135 51.36602
10537 -0.30138440 51.41824

```
## 10538  0.12988840 51.56167
## 10539 -0.01170935 51.44908
## 10540 -0.19562056 51.66238
## 10541  0.21276082 51.58296
## 10542 -0.19514135 51.36602
## 10543 -0.07450626 51.58104
## 10544 -0.21219045 51.41654
## 10545  0.12988840 51.56167
## 10546 -0.30342843 51.51473
## 10547  0.08250620 51.59773
## 10548 -0.09631794 51.38259
## 10549  0.01400743 51.41045
## 10550  0.01400743 51.41045
## 10551 -0.30342843 51.51473
## 10552 -0.07450626 51.58104
## 10553  0.15157167 51.44755
## 10554 -0.11738716 51.66902
## 10555 -0.09631794 51.38259
```

```
# by default plots the points
plot(spdf)
```



```
cc <- coordinates(spdf)
m.sl <- SpatialLines(list(Lines(list(Line(cc)), "line1")))
# plots lines connecting all the points
plot(m.sl)
```



```
library(dismo)

## Loading required package: raster

##
## Attaching package: 'raster'

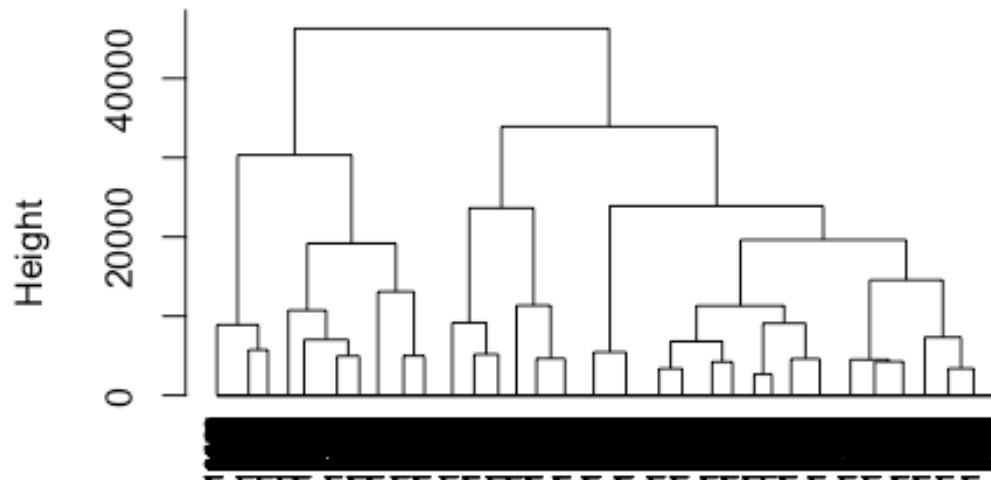
## The following object is masked from 'package:plotly':
##
##     select

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

library(rgeos)

## rgeos version: 0.5-8, (SVN revision 679)
## GEOS runtime version: 3.8.1-CAPI-1.13.3
## Please note that rgeos will be retired by the end of 2023,
```


Dendrogram of Coordinates

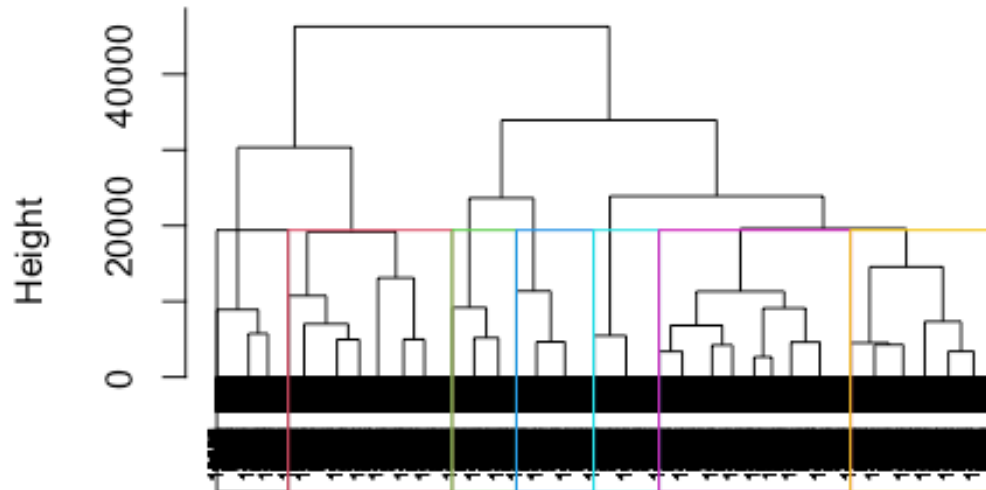


```
as.dist(mdist)  
hclust (*, "complete")
```

##Based on the dendrogram, you can see that 7 clusters are appropriate for this data set.

```
#plotting dendrogram  
plot(hc, cex = .5)  
rect.hclust(hc, k=7, border= 1:7)
```

Cluster Dendrogram



```
as.dist(mdist)
hclust (*, "complete")
```

#Using cutree to identify the clusters

```
clust <- cutree(hc, k=7)
table(clust)
```

```
## clust
##    1    2    3    4    5    6    7
## 965 1979 1045  869 2589 2217  884
```

##Clustering using K-Means method.

```
library(caret)
```

```
## Loading required package: lattice
```

```
##
```

```
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
```

```
##
```

```
## lift
```

```
library(reshape)
```

```
##
```

```
## Attaching package: 'reshape'
```

```
## The following object is masked from 'package:plotly':
##
##      rename

## The following objects are masked from 'package:tidyr':
##
##      expand, smiths

## The following object is masked from 'package:dplyr':
##
##      rename

library(e1071)

##
## Attaching package: 'e1071'

## The following object is masked from 'package:raster':
##
##      interpolate

library(naivebayes)

## naivebayes 0.9.7 loaded

library(klaR)

## Loading required package: MASS

##
## Attaching package: 'MASS'

## The following objects are masked from 'package:raster':
##
##      area, select

## The following object is masked from 'package:formattable':
##
##      area

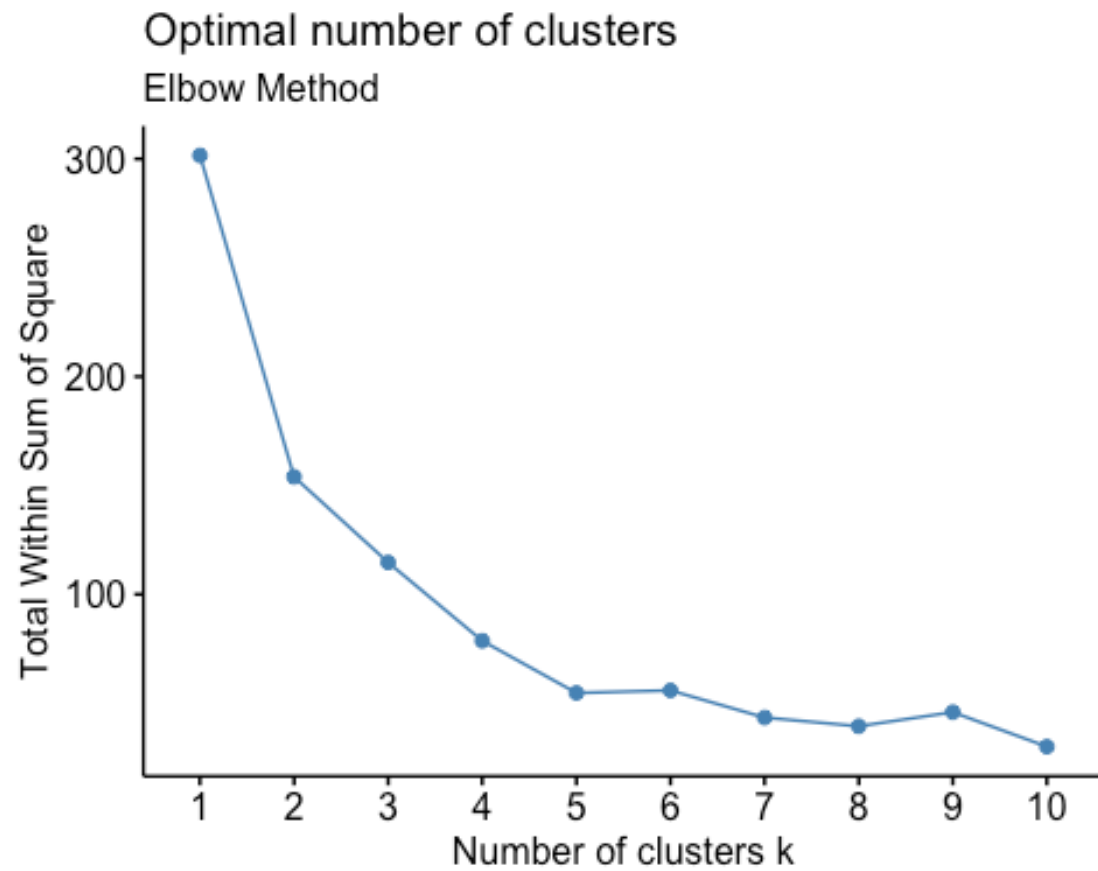
## The following object is masked from 'package:plotly':
##
##      select

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

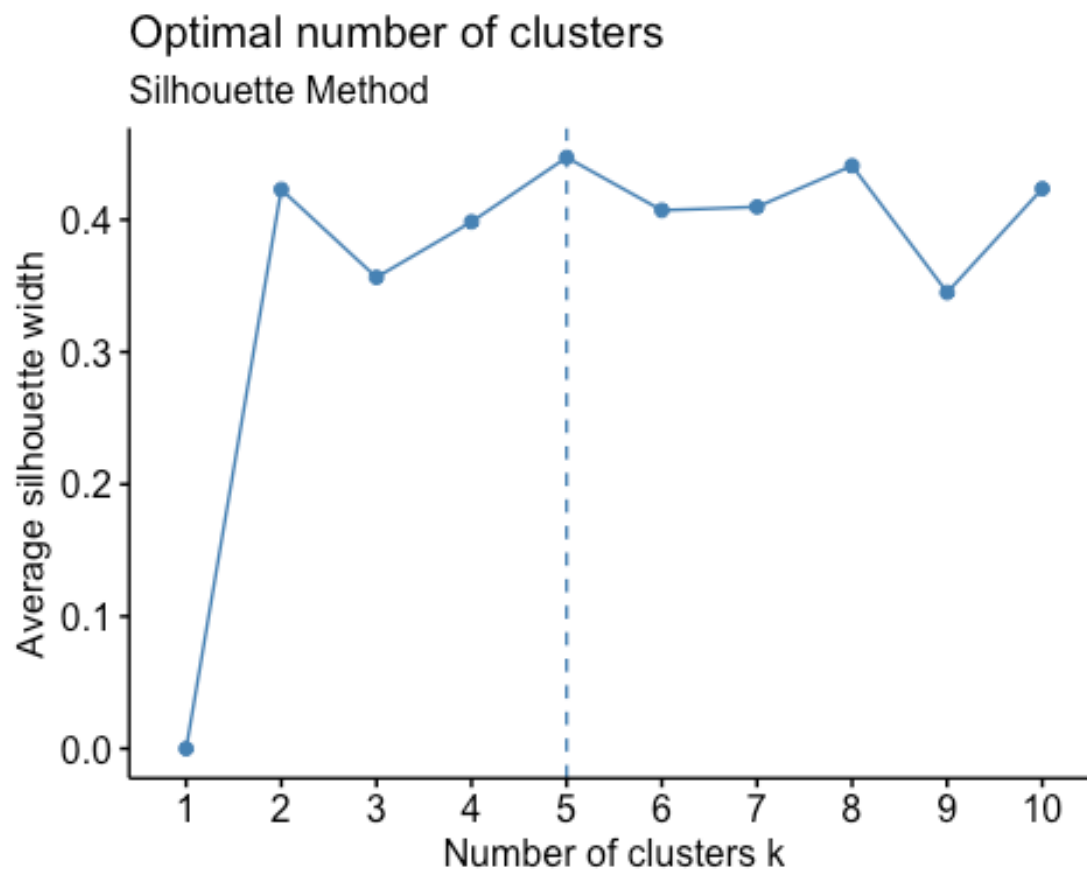
library(bnclassify)

##
## Attaching package: 'bnclassify'
```

```
## The following objects are masked from 'package:raster':  
##  
##      cv, values  
  
## The following object is masked from 'package:ggplot2':  
##  
##      vars  
  
## The following object is masked from 'package:dplyr':  
##  
##      vars  
  
library(rmarkdown)  
library(tinytex)  
library(cluster)  
  
##  
## Attaching package: 'cluster'  
  
## The following object is masked from 'package:maps':  
##  
##      votes.repub  
  
library(factoextra)  
  
## Welcome! Want to learn more? See two factoextra-related books at  
https://goo.gl/ve3WBa  
  
library(NbClust)  
  
#determining the number of clusters using elbow and silhouette method  
  
fviz_nbclust(xy, kmeans, method= "wss") + labs(subtitle = "Elbow Method")
```



```
fviz_nbclust(xy, kmeans, method = "silhouette") + labs(subtitle = "Silhouette Method")
```



##Looking at the plots produced above in the silhouette method you can see that 5 clusters are appropriate.

```
set.seed(100)
```

```
kmeans <- kmeans(xy,centers=5,nstart=25)
```

```
kmeans$centers
```

```
##      Longitude Latitude
```

```
## 1 -0.33506345 51.51738
```

```
## 2  0.14300061 51.55046
```

```
## 3 -0.13082886 51.61048
```

```
## 4 -0.01197093 51.49923
```

```
## 5 -0.16426033 51.44740
```

#5 clusters, data must be fitted to

```
fitkmeans<- kmeans(xy,5)
```

```
library(cluster)
```

```
Y <- data.frame(xy,fitkmeans$cluster)
```

```
Y
```

```
##      Longitude Latitude fitkmeans.cluster
```

```
## 1    -0.09631794 51.38259                1
```

```
## 2     0.01003716 51.49328                1
```

```
## 3     0.01400743 51.41045                1
```

```
## 4     0.08250620 51.59773                5
```

## 5	-0.18901141	51.45894	4
## 6	-0.30342843	51.51473	3
## 7	-0.30342843	51.51473	3
## 8	-0.37384439	51.46939	3
## 9	0.03307815	51.53119	5
## 10	-0.19514135	51.36602	4
## 11	-0.11461497	51.59851	2
## 12	-0.12266768	51.46062	4
## 13	-0.30320903	51.46316	3
## 14	-0.18901141	51.45894	4
## 15	-0.45140058	51.54113	3
## 16	0.21276082	51.58296	5
## 17	0.12988840	51.56167	5
## 18	0.08250620	51.59773	5
## 19	-0.30138440	51.41824	3
## 20	-0.19514135	51.36602	4
## 21	0.08250620	51.59773	5
## 22	-0.13704033	51.50553	4
## 23	-0.07450626	51.58104	2
## 24	-0.11738716	51.66902	2
## 25	-0.30342843	51.51473	3
## 26	-0.07450626	51.58104	2
## 27	-0.33994379	51.58901	3
## 28	-0.30342843	51.51473	3
## 29	-0.11461497	51.59851	2
## 30	-0.01170935	51.44908	1
## 31	-0.30342843	51.51473	3
## 32	-0.37384439	51.46939	3
## 33	0.01400743	51.41045	1
## 34	0.21276082	51.58296	5
## 35	-0.45140058	51.54113	3
## 36	-0.27106553	51.57616	3
## 37	-0.11461497	51.59851	2
## 38	-0.37384439	51.46939	3
## 39	-0.12266768	51.46062	4
## 40	-0.08912003	51.51082	4
## 41	0.21276082	51.58296	5
## 42	0.03307815	51.53119	5
## 43	-0.09631794	51.38259	1
## 44	-0.09631794	51.38259	1
## 45	-0.19562056	51.66238	2
## 46	-0.00902464	51.59495	5
## 47	-0.13704033	51.50553	4
## 48	-0.12266768	51.46062	4
## 49	-0.01170935	51.44908	1
## 50	0.01400743	51.41045	1
## 51	-0.30342843	51.51473	3
## 52	-0.27106553	51.57616	3
## 53	-0.11461497	51.59851	2
## 54	-0.16211228	51.55180	4

## 55	0.15157167	51.44755	5
## 56	-0.09631794	51.38259	1
## 57	-0.01170935	51.44908	1
## 58	-0.37384439	51.46939	3
## 59	-0.16211228	51.55180	4
## 60	-0.19246075	51.50498	4
## 61	-0.37384439	51.46939	3
## 62	-0.01170935	51.44908	1
## 63	-0.30138440	51.41824	3
## 64	-0.27106553	51.57616	3
## 65	-0.08912003	51.51082	4
## 66	-0.33994379	51.58901	3
## 67	0.01400743	51.41045	1
## 68	-0.12266768	51.46062	4
## 69	-0.00902464	51.59495	5
## 70	-0.10215668	51.54494	4
## 71	-0.08912003	51.51082	4
## 72	0.03307815	51.53119	5
## 73	-0.19562056	51.66238	2
## 74	-0.27106553	51.57616	3
## 75	-0.13704033	51.50553	4
## 76	0.01003716	51.49328	1
## 77	0.08250620	51.59773	5
## 78	-0.07450626	51.58104	2
## 79	-0.11461497	51.59851	2
## 80	-0.19514135	51.36602	4
## 81	0.08250620	51.59773	5
## 82	-0.07450626	51.58104	2
## 83	-0.02797504	51.52616	1
## 84	-0.09631794	51.38259	1
## 85	-0.23053203	51.50705	4
## 86	-0.10215668	51.54494	4
## 87	0.03307815	51.53119	5
## 88	-0.33994379	51.58901	3
## 89	-0.27106553	51.57616	3
## 90	0.01400743	51.41045	1
## 91	-0.07450626	51.58104	2
## 92	-0.09631794	51.38259	1
## 93	-0.30342843	51.51473	3
## 94	-0.07450626	51.58104	2
## 95	0.03307815	51.53119	5
## 96	-0.11461497	51.59851	2
## 97	0.21276082	51.58296	5
## 98	-0.19514135	51.36602	4
## 99	0.15157167	51.44755	5
## 100	-0.19562056	51.66238	2
## 101	0.01003716	51.49328	1
## 102	-0.19514135	51.36602	4
## 103	-0.01170935	51.44908	1
## 104	-0.37384439	51.46939	3

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## 110	-0.30138440	51.41824	3
## 111	-0.07450626	51.58104	2
## 112	-0.30320903	51.46316	3
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## 114	-0.08912003	51.51082	4
## 115	-0.30138440	51.41824	3
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## 123	-0.12266768	51.46062	4
## 124	-0.08912003	51.51082	4
## 125	-0.37384439	51.46939	3
## 126	-0.12266768	51.46062	4
## 127	-0.30320903	51.46316	3
## 128	-0.00902464	51.59495	5
## 129	-0.21219045	51.41654	4
## 130	-0.23053203	51.50705	4
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## 136	-0.16211228	51.55180	4
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## 142	-0.01170935	51.44908	1
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## 153	-0.19246075	51.50498	4
## 154	-0.02797504	51.52616	1

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## 157	-0.30138440	51.41824	3
## 158	-0.02797504	51.52616	1
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## 160	-0.08912003	51.51082	4
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## 165	-0.37384439	51.46939	3
## 166	-0.13704033	51.50553	4
## 167	-0.19246075	51.50498	4
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## 171	0.03307815	51.53119	5
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## 173	-0.27106553	51.57616	3
## 174	0.12988840	51.56167	5
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## 177	-0.45140058	51.54113	3
## 178	-0.01170935	51.44908	1
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## 180	-0.19514135	51.36602	4
## 181	0.15157167	51.44755	5
## 182	-0.10215668	51.54494	4
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## 184	0.01400743	51.41045	1
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## 186	-0.45140058	51.54113	3
## 187	-0.09631794	51.38259	1
## 188	-0.13704033	51.50553	4
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## 194	-0.37384439	51.46939	3
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## 198	-0.11738716	51.66902	2
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## 210	-0.37384439	51.46939	3
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## 217	0.08250620	51.59773	5
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## 536	-0.12266768	51.46062	4
## 537	-0.09631794	51.38259	1
## 538	-0.11461497	51.59851	2
## 539	0.08250620	51.59773	5
## 540	-0.11738716	51.66902	2
## 541	-0.19562056	51.66238	2
## 542	0.01400743	51.41045	1
## 543	-0.45140058	51.54113	3
## 544	-0.21219045	51.41654	4
## 545	-0.08912003	51.51082	4
## 546	-0.10215668	51.54494	4
## 547	-0.37384439	51.46939	3
## 548	0.01400743	51.41045	1
## 549	-0.33994379	51.58901	3
## 550	-0.07450626	51.58104	2
## 551	0.01400743	51.41045	1
## 552	-0.01170935	51.44908	1
## 553	-0.30342843	51.51473	3
## 554	-0.27106553	51.57616	3

## 555	-0.37384439	51.46939	3
## 556	-0.37384439	51.46939	3
## 557	-0.11461497	51.59851	2
## 558	0.03307815	51.53119	5
## 559	0.21276082	51.58296	5
## 560	-0.13704033	51.50553	4
## 561	0.03307815	51.53119	5
## 562	0.03307815	51.53119	5
## 563	-0.37384439	51.46939	3
## 564	0.21276082	51.58296	5
## 565	0.12988840	51.56167	5
## 566	0.03307815	51.53119	5
## 567	-0.30320903	51.46316	3
## 568	-0.12266768	51.46062	4
## 569	0.15157167	51.44755	5
## 570	-0.23053203	51.50705	4
## 571	-0.23053203	51.50705	4
## 572	-0.19562056	51.66238	2
## 573	-0.30342843	51.51473	3
## 574	-0.09631794	51.38259	1
## 575	-0.12266768	51.46062	4
## 576	-0.11461497	51.59851	2
## 577	0.08250620	51.59773	5
## 578	-0.11738716	51.66902	2
## 579	-0.07450626	51.58104	2
## 580	-0.11738716	51.66902	2
## 581	-0.33994379	51.58901	3
## 582	0.01003716	51.49328	1
## 583	-0.18901141	51.45894	4
## 584	-0.10215668	51.54494	4
## 585	-0.30320903	51.46316	3
## 586	-0.02797504	51.52616	1
## 587	-0.11461497	51.59851	2
## 588	-0.27106553	51.57616	3
## 589	-0.18901141	51.45894	4
## 590	-0.08912003	51.51082	4
## 591	-0.12266768	51.46062	4
## 592	-0.07450626	51.58104	2
## 593	0.08250620	51.59773	5
## 594	0.01400743	51.41045	1
## 595	0.21276082	51.58296	5
## 596	-0.09631794	51.38259	1
## 597	-0.11461497	51.59851	2
## 598	-0.16211228	51.55180	4
## 599	-0.12266768	51.46062	4
## 600	-0.19562056	51.66238	2
## 601	-0.12266768	51.46062	4
## 602	-0.21219045	51.41654	4
## 603	-0.19514135	51.36602	4
## 604	0.08250620	51.59773	5

## 605	-0.19246075	51.50498	4
## 606	-0.37384439	51.46939	3
## 607	0.01003716	51.49328	1
## 608	-0.10215668	51.54494	4
## 609	-0.00902464	51.59495	5
## 610	-0.08912003	51.51082	4
## 611	-0.30320903	51.46316	3
## 612	-0.19514135	51.36602	4
## 613	-0.27106553	51.57616	3
## 614	-0.00902464	51.59495	5
## 615	-0.10215668	51.54494	4
## 616	-0.09631794	51.38259	1
## 617	-0.00902464	51.59495	5
## 618	-0.19562056	51.66238	2
## 619	0.01400743	51.41045	1
## 620	-0.18901141	51.45894	4
## 621	-0.30342843	51.51473	3
## 622	0.03307815	51.53119	5
## 623	-0.19562056	51.66238	2
## 624	0.01003716	51.49328	1
## 625	-0.45140058	51.54113	3
## 626	-0.09631794	51.38259	1
## 627	-0.16211228	51.55180	4
## 628	-0.45140058	51.54113	3
## 629	-0.45140058	51.54113	3
## 630	-0.45140058	51.54113	3
## 631	-0.18901141	51.45894	4
## 632	-0.00902464	51.59495	5
## 633	-0.08912003	51.51082	4
## 634	0.12988840	51.56167	5
## 635	0.21276082	51.58296	5
## 636	-0.33994379	51.58901	3
## 637	-0.16211228	51.55180	4
## 638	0.15157167	51.44755	5
## 639	-0.37384439	51.46939	3
## 640	-0.18901141	51.45894	4
## 641	-0.33994379	51.58901	3
## 642	-0.21219045	51.41654	4
## 643	-0.30138440	51.41824	3
## 644	0.01003716	51.49328	1
## 645	0.12988840	51.56167	5
## 646	0.12988840	51.56167	5
## 647	-0.19562056	51.66238	2
## 648	-0.45140058	51.54113	3
## 649	-0.18901141	51.45894	4
## 650	-0.23053203	51.50705	4
## 651	-0.21219045	51.41654	4
## 652	-0.10215668	51.54494	4
## 653	-0.45140058	51.54113	3
## 654	-0.45140058	51.54113	3

## 655	-0.08912003	51.51082	4
## 656	-0.30320903	51.46316	3
## 657	0.01400743	51.41045	1
## 658	-0.11738716	51.66902	2
## 659	-0.10215668	51.54494	4
## 660	-0.12266768	51.46062	4
## 661	-0.21219045	51.41654	4
## 662	-0.12266768	51.46062	4
## 663	0.03307815	51.53119	5
## 664	-0.27106553	51.57616	3
## 665	0.15157167	51.44755	5
## 666	-0.30342843	51.51473	3
## 667	-0.30320903	51.46316	3
## 668	-0.30342843	51.51473	3
## 669	-0.30342843	51.51473	3
## 670	-0.10215668	51.54494	4
## 671	-0.16211228	51.55180	4
## 672	-0.30320903	51.46316	3
## 673	-0.30320903	51.46316	3
## 674	0.01400743	51.41045	1
## 675	0.08250620	51.59773	5
## 676	0.08250620	51.59773	5
## 677	-0.09631794	51.38259	1
## 678	-0.18901141	51.45894	4
## 679	-0.01170935	51.44908	1
## 680	0.03307815	51.53119	5
## 681	0.15157167	51.44755	5
## 682	-0.30342843	51.51473	3
## 683	-0.12266768	51.46062	4
## 684	-0.11461497	51.59851	2
## 685	-0.37384439	51.46939	3
## 686	-0.21219045	51.41654	4
## 687	-0.27106553	51.57616	3
## 688	-0.19562056	51.66238	2
## 689	-0.30342843	51.51473	3
## 690	0.08250620	51.59773	5
## 691	-0.30342843	51.51473	3
## 692	-0.01170935	51.44908	1
## 693	-0.23053203	51.50705	4
## 694	-0.09631794	51.38259	1
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## 696	0.01003716	51.49328	1
## 697	-0.12266768	51.46062	4
## 698	-0.13704033	51.50553	4
## 699	-0.19514135	51.36602	4
## 700	-0.09631794	51.38259	1
## 701	-0.13704033	51.50553	4
## 702	-0.45140058	51.54113	3
## 703	-0.13704033	51.50553	4
## 704	0.12988840	51.56167	5

## 705	-0.30138440	51.41824	3
## 706	-0.11738716	51.66902	2
## 707	-0.11461497	51.59851	2
## 708	-0.09631794	51.38259	1
## 709	-0.09631794	51.38259	1
## 710	-0.27106553	51.57616	3
## 711	-0.23053203	51.50705	4
## 712	-0.13704033	51.50553	4
## 713	-0.09631794	51.38259	1
## 714	0.01400743	51.41045	1
## 715	-0.00902464	51.59495	5
## 716	-0.11461497	51.59851	2
## 717	-0.23053203	51.50705	4
## 718	-0.21219045	51.41654	4
## 719	0.01400743	51.41045	1
## 720	0.01003716	51.49328	1
## 721	-0.01170935	51.44908	1
## 722	-0.12266768	51.46062	4
## 723	-0.13704033	51.50553	4
## 724	0.01400743	51.41045	1
## 725	0.08250620	51.59773	5
## 726	-0.16211228	51.55180	4
## 727	-0.19514135	51.36602	4
## 728	-0.21219045	51.41654	4
## 729	0.01003716	51.49328	1
## 730	0.21276082	51.58296	5
## 731	0.03307815	51.53119	5
## 732	-0.12266768	51.46062	4
## 733	-0.01170935	51.44908	1
## 734	-0.30138440	51.41824	3
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## 737	-0.00902464	51.59495	5
## 738	-0.33994379	51.58901	3
## 739	0.01400743	51.41045	1
## 740	-0.01170935	51.44908	1
## 741	0.15157167	51.44755	5
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## 749	-0.27106553	51.57616	3
## 750	-0.18901141	51.45894	4
## 751	0.21276082	51.58296	5
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## 759	-0.02797504	51.52616	1
## 760	-0.11738716	51.66902	2
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## 762	-0.10215668	51.54494	4
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## 780	0.12988840	51.56167	5
## 781	-0.30342843	51.51473	3
## 782	-0.30342843	51.51473	3
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## 784	-0.10215668	51.54494	4
## 785	-0.00902464	51.59495	5
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## 798	-0.30342843	51.51473	3
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## 801	-0.07450626	51.58104	2
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## 834	-0.19562056	51.66238	2
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## 837	0.21276082	51.58296	5
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## 839	-0.12266768	51.46062	4
## 840	-0.16211228	51.55180	4
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## 963	-0.19562056	51.66238	2
## 964	-0.08912003	51.51082	4
## 965	-0.10215668	51.54494	4
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## 968	-0.00902464	51.59495	5
## 969	-0.19514135	51.36602	4
## 970	-0.07450626	51.58104	2
## 971	-0.00902464	51.59495	5
## 972	-0.09631794	51.38259	1
## 973	-0.13704033	51.50553	4
## 974	-0.19562056	51.66238	2
## 975	-0.07450626	51.58104	2
## 976	0.01003716	51.49328	1
## 977	-0.45140058	51.54113	3
## 978	-0.45140058	51.54113	3
## 979	-0.21219045	51.41654	4
## 980	0.03307815	51.53119	5
## 981	0.01400743	51.41045	1
## 982	-0.19562056	51.66238	2
## 983	0.12988840	51.56167	5
## 984	0.01003716	51.49328	1
## 985	-0.45140058	51.54113	3
## 986	-0.01170935	51.44908	1
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## 992	-0.33994379	51.58901	3
## 993	-0.30138440	51.41824	3
## 994	-0.19562056	51.66238	2
## 995	-0.16211228	51.55180	4
## 996	-0.09631794	51.38259	1
## 997	-0.33994379	51.58901	3
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## 1002	-0.33994379	51.58901	3
## 1003	-0.11738716	51.66902	2
## 1004	-0.07450626	51.58104	2

## 1005	-0.09631794	51.38259	1
## 1006	-0.37384439	51.46939	3
## 1007	-0.30342843	51.51473	3
## 1008	-0.12266768	51.46062	4
## 1009	-0.12266768	51.46062	4
## 1010	-0.30320903	51.46316	3
## 1011	-0.45140058	51.54113	3
## 1012	-0.11738716	51.66902	2
## 1013	-0.13704033	51.50553	4
## 1014	-0.30138440	51.41824	3
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## 1024	0.15157167	51.44755	5
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## 1026	0.01400743	51.41045	1
## 1027	0.15157167	51.44755	5
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## 1030	-0.01170935	51.44908	1
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## 1033	-0.08912003	51.51082	4
## 1034	-0.45140058	51.54113	3
## 1035	-0.27106553	51.57616	3
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## 1037	-0.10215668	51.54494	4
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## 1039	0.12988840	51.56167	5
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## 1052	-0.08912003	51.51082	4
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## 1054	-0.30320903	51.46316	3

## 1055	-0.07450626	51.58104	2
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## 1057	-0.19246075	51.50498	4
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## 1070	-0.07450626	51.58104	2
## 1071	-0.16211228	51.55180	4
## 1072	0.01003716	51.49328	1
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## 1076	-0.00902464	51.59495	5
## 1077	-0.11738716	51.66902	2
## 1078	-0.19246075	51.50498	4
## 1079	-0.08912003	51.51082	4
## 1080	-0.16211228	51.55180	4
## 1081	-0.11738716	51.66902	2
## 1082	0.21276082	51.58296	5
## 1083	-0.11738716	51.66902	2
## 1084	0.15157167	51.44755	5
## 1085	-0.19246075	51.50498	4
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## 1089	-0.30342843	51.51473	3
## 1090	-0.19562056	51.66238	2
## 1091	-0.19562056	51.66238	2
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## 1097	-0.30138440	51.41824	3
## 1098	-0.02797504	51.52616	1
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## 1109	-0.33994379	51.58901	3
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## 1386	0.01400743	51.41045	1
## 1387	-0.23053203	51.50705	4
## 1388	-0.45140058	51.54113	3
## 1389	-0.30320903	51.46316	3
## 1390	-0.11461497	51.59851	2
## 1391	0.12988840	51.56167	5
## 1392	-0.08912003	51.51082	4
## 1393	-0.11738716	51.66902	2
## 1394	0.21276082	51.58296	5
## 1395	0.01003716	51.49328	1
## 1396	0.12988840	51.56167	5
## 1397	-0.16211228	51.55180	4
## 1398	-0.18901141	51.45894	4
## 1399	0.01400743	51.41045	1
## 1400	-0.11461497	51.59851	2
## 1401	0.01400743	51.41045	1
## 1402	-0.19562056	51.66238	2
## 1403	-0.19562056	51.66238	2
## 1404	-0.09631794	51.38259	1
## 1405	-0.01170935	51.44908	1

## 1406	-0.19562056	51.66238	2
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## 1408	-0.30342843	51.51473	3
## 1409	-0.00902464	51.59495	5
## 1410	-0.16211228	51.55180	4
## 1411	-0.08912003	51.51082	4
## 1412	-0.02797504	51.52616	1
## 1413	-0.19246075	51.50498	4
## 1414	0.01400743	51.41045	1
## 1415	-0.13704033	51.50553	4
## 1416	0.12988840	51.56167	5
## 1417	0.08250620	51.59773	5
## 1418	-0.08912003	51.51082	4
## 1419	-0.30342843	51.51473	3
## 1420	-0.18901141	51.45894	4
## 1421	-0.09631794	51.38259	1
## 1422	-0.07450626	51.58104	2
## 1423	-0.30342843	51.51473	3
## 1424	-0.21219045	51.41654	4
## 1425	0.21276082	51.58296	5
## 1426	-0.12266768	51.46062	4
## 1427	-0.01170935	51.44908	1
## 1428	-0.18901141	51.45894	4
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## 1430	-0.18901141	51.45894	4
## 1431	-0.02797504	51.52616	1
## 1432	-0.16211228	51.55180	4
## 1433	-0.16211228	51.55180	4
## 1434	-0.21219045	51.41654	4
## 1435	0.12988840	51.56167	5
## 1436	-0.19246075	51.50498	4
## 1437	-0.13704033	51.50553	4
## 1438	-0.23053203	51.50705	4
## 1439	0.21276082	51.58296	5
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## 1449	-0.18901141	51.45894	4
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## 1452	-0.30320903	51.46316	3
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## 1460	-0.19514135	51.36602	4
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## 1462	-0.11738716	51.66902	2
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## 1464	-0.37384439	51.46939	3
## 1465	-0.27106553	51.57616	3
## 1466	-0.45140058	51.54113	3
## 1467	-0.30342843	51.51473	3
## 1468	-0.33994379	51.58901	3
## 1469	-0.45140058	51.54113	3
## 1470	-0.30320903	51.46316	3
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## 1472	-0.12266768	51.46062	4
## 1473	-0.10215668	51.54494	4
## 1474	-0.09631794	51.38259	1
## 1475	-0.09631794	51.38259	1
## 1476	0.12988840	51.56167	5
## 1477	-0.45140058	51.54113	3
## 1478	-0.11738716	51.66902	2
## 1479	0.03307815	51.53119	5
## 1480	-0.09631794	51.38259	1
## 1481	-0.21219045	51.41654	4
## 1482	-0.11461497	51.59851	2
## 1483	-0.18901141	51.45894	4
## 1484	-0.37384439	51.46939	3
## 1485	0.01400743	51.41045	1
## 1486	-0.12266768	51.46062	4
## 1487	-0.10215668	51.54494	4
## 1488	-0.23053203	51.50705	4
## 1489	-0.21219045	51.41654	4
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## 1494	0.08250620	51.59773	5
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## 1497	-0.18901141	51.45894	4
## 1498	-0.27106553	51.57616	3
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## 1503	-0.19562056	51.66238	2
## 1504	-0.45140058	51.54113	3
## 1505	-0.30342843	51.51473	3

## 1506	-0.12266768	51.46062	4
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## 1510	-0.23053203	51.50705	4
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## 1806	-0.00902464	51.59495	5

## 1807	-0.11461497	51.59851	2
## 1808	-0.02797504	51.52616	1
## 1809	-0.30320903	51.46316	3
## 1810	-0.01170935	51.44908	1
## 1811	-0.00902464	51.59495	5
## 1812	-0.30138440	51.41824	3
## 1813	-0.33994379	51.58901	3
## 1814	-0.21219045	51.41654	4
## 1815	-0.07450626	51.58104	2
## 1816	-0.27106553	51.57616	3
## 1817	0.12988840	51.56167	5
## 1818	-0.10215668	51.54494	4
## 1819	0.15157167	51.44755	5
## 1820	0.08250620	51.59773	5
## 1821	-0.19562056	51.66238	2
## 1822	-0.09631794	51.38259	1
## 1823	-0.30320903	51.46316	3
## 1824	-0.45140058	51.54113	3
## 1825	-0.16211228	51.55180	4
## 1826	-0.16211228	51.55180	4
## 1827	-0.30320903	51.46316	3
## 1828	-0.08912003	51.51082	4
## 1829	-0.19562056	51.66238	2
## 1830	-0.11461497	51.59851	2
## 1831	-0.00902464	51.59495	5
## 1832	-0.00902464	51.59495	5
## 1833	-0.13704033	51.50553	4
## 1834	-0.21219045	51.41654	4
## 1835	-0.09631794	51.38259	1
## 1836	-0.30342843	51.51473	3
## 1837	-0.01170935	51.44908	1
## 1838	-0.27106553	51.57616	3
## 1839	0.15157167	51.44755	5
## 1840	-0.27106553	51.57616	3
## 1841	-0.19562056	51.66238	2
## 1842	-0.13704033	51.50553	4
## 1843	-0.33994379	51.58901	3
## 1844	0.01003716	51.49328	1
## 1845	0.21276082	51.58296	5
## 1846	-0.30342843	51.51473	3
## 1847	-0.11461497	51.59851	2
## 1848	0.12988840	51.56167	5
## 1849	-0.07450626	51.58104	2
## 1850	-0.23053203	51.50705	4
## 1851	-0.10215668	51.54494	4
## 1852	-0.30342843	51.51473	3
## 1853	-0.27106553	51.57616	3
## 1854	-0.10215668	51.54494	4
## 1855	-0.30320903	51.46316	3
## 1856	-0.19562056	51.66238	2

## 1857	0.21276082	51.58296	5
## 1858	-0.11461497	51.59851	2
## 1859	-0.21219045	51.41654	4
## 1860	0.01003716	51.49328	1
## 1861	-0.16211228	51.55180	4
## 1862	-0.13704033	51.50553	4
## 1863	-0.11461497	51.59851	2
## 1864	-0.11738716	51.66902	2
## 1865	-0.18901141	51.45894	4
## 1866	-0.11461497	51.59851	2
## 1867	0.03307815	51.53119	5
## 1868	-0.11738716	51.66902	2
## 1869	-0.09631794	51.38259	1
## 1870	0.01003716	51.49328	1
## 1871	-0.18901141	51.45894	4
## 1872	0.12988840	51.56167	5
## 1873	-0.23053203	51.50705	4
## 1874	-0.02797504	51.52616	1
## 1875	-0.45140058	51.54113	3
## 1876	-0.19562056	51.66238	2
## 1877	0.03307815	51.53119	5
## 1878	-0.11738716	51.66902	2
## 1879	-0.09631794	51.38259	1
## 1880	-0.11738716	51.66902	2
## 1881	0.01003716	51.49328	1
## 1882	-0.08912003	51.51082	4
## 1883	-0.01170935	51.44908	1
## 1884	-0.11738716	51.66902	2
## 1885	0.03307815	51.53119	5
## 1886	-0.19514135	51.36602	4
## 1887	-0.11461497	51.59851	2
## 1888	-0.30138440	51.41824	3
## 1889	-0.18901141	51.45894	4
## 1890	-0.11461497	51.59851	2
## 1891	0.01003716	51.49328	1
## 1892	-0.27106553	51.57616	3
## 1893	0.01400743	51.41045	1
## 1894	-0.19562056	51.66238	2
## 1895	-0.07450626	51.58104	2
## 1896	0.01003716	51.49328	1
## 1897	-0.19562056	51.66238	2
## 1898	-0.30138440	51.41824	3
## 1899	-0.01170935	51.44908	1
## 1900	-0.23053203	51.50705	4
## 1901	0.01400743	51.41045	1
## 1902	-0.30138440	51.41824	3
## 1903	-0.01170935	51.44908	1
## 1904	-0.11461497	51.59851	2
## 1905	-0.19246075	51.50498	4
## 1906	-0.21219045	51.41654	4

## 1907	-0.09631794	51.38259	1
## 1908	0.03307815	51.53119	5
## 1909	-0.33994379	51.58901	3
## 1910	-0.30138440	51.41824	3
## 1911	-0.45140058	51.54113	3
## 1912	-0.11738716	51.66902	2
## 1913	-0.11738716	51.66902	2
## 1914	-0.19562056	51.66238	2
## 1915	0.01400743	51.41045	1
## 1916	0.01400743	51.41045	1
## 1917	-0.33994379	51.58901	3
## 1918	-0.30320903	51.46316	3
## 1919	-0.11738716	51.66902	2
## 1920	-0.11738716	51.66902	2
## 1921	-0.10215668	51.54494	4
## 1922	-0.30320903	51.46316	3
## 1923	0.21276082	51.58296	5
## 1924	-0.16211228	51.55180	4
## 1925	0.01400743	51.41045	1
## 1926	-0.18901141	51.45894	4
## 1927	-0.30342843	51.51473	3
## 1928	0.01003716	51.49328	1
## 1929	-0.30320903	51.46316	3
## 1930	-0.07450626	51.58104	2
## 1931	-0.27106553	51.57616	3
## 1932	-0.30320903	51.46316	3
## 1933	-0.09631794	51.38259	1
## 1934	-0.30342843	51.51473	3
## 1935	-0.02797504	51.52616	1
## 1936	-0.18901141	51.45894	4
## 1937	-0.19246075	51.50498	4
## 1938	-0.19514135	51.36602	4
## 1939	-0.07450626	51.58104	2
## 1940	0.08250620	51.59773	5
## 1941	-0.16211228	51.55180	4
## 1942	0.08250620	51.59773	5
## 1943	-0.12266768	51.46062	4
## 1944	-0.27106553	51.57616	3
## 1945	-0.02797504	51.52616	1
## 1946	0.12988840	51.56167	5
## 1947	-0.18901141	51.45894	4
## 1948	-0.09631794	51.38259	1
## 1949	0.01003716	51.49328	1
## 1950	-0.02797504	51.52616	1
## 1951	-0.09631794	51.38259	1
## 1952	-0.09631794	51.38259	1
## 1953	-0.30320903	51.46316	3
## 1954	-0.30138440	51.41824	3
## 1955	-0.02797504	51.52616	1
## 1956	0.12988840	51.56167	5

## 1957	-0.11461497	51.59851	2
## 1958	-0.13704033	51.50553	4
## 1959	-0.01170935	51.44908	1
## 1960	-0.19562056	51.66238	2
## 1961	-0.33994379	51.58901	3
## 1962	-0.01170935	51.44908	1
## 1963	0.15157167	51.44755	5
## 1964	-0.09631794	51.38259	1
## 1965	0.21276082	51.58296	5
## 1966	-0.12266768	51.46062	4
## 1967	-0.01170935	51.44908	1
## 1968	-0.27106553	51.57616	3
## 1969	-0.19246075	51.50498	4
## 1970	-0.33994379	51.58901	3
## 1971	-0.01170935	51.44908	1
## 1972	-0.33994379	51.58901	3
## 1973	-0.27106553	51.57616	3
## 1974	-0.02797504	51.52616	1
## 1975	-0.33994379	51.58901	3
## 1976	-0.11461497	51.59851	2
## 1977	-0.01170935	51.44908	1
## 1978	-0.30138440	51.41824	3
## 1979	0.01003716	51.49328	1
## 1980	-0.19562056	51.66238	2
## 1981	-0.08912003	51.51082	4
## 1982	-0.11738716	51.66902	2
## 1983	-0.11738716	51.66902	2
## 1984	-0.08912003	51.51082	4
## 1985	-0.19562056	51.66238	2
## 1986	-0.33994379	51.58901	3
## 1987	-0.30320903	51.46316	3
## 1988	-0.45140058	51.54113	3
## 1989	-0.19246075	51.50498	4
## 1990	-0.11738716	51.66902	2
## 1991	-0.23053203	51.50705	4
## 1992	-0.13704033	51.50553	4
## 1993	-0.08912003	51.51082	4
## 1994	-0.19246075	51.50498	4
## 1995	0.08250620	51.59773	5
## 1996	0.03307815	51.53119	5
## 1997	0.08250620	51.59773	5
## 1998	0.21276082	51.58296	5
## 1999	-0.21219045	51.41654	4
## 2000	-0.02797504	51.52616	1
## 2001	-0.07450626	51.58104	2
## 2002	-0.19514135	51.36602	4
## 2003	-0.08912003	51.51082	4
## 2004	0.15157167	51.44755	5
## 2005	-0.23053203	51.50705	4
## 2006	-0.18901141	51.45894	4

## 2007	-0.11738716	51.66902	2
## 2008	-0.33994379	51.58901	3
## 2009	-0.08912003	51.51082	4
## 2010	-0.09631794	51.38259	1
## 2011	-0.19514135	51.36602	4
## 2012	0.03307815	51.53119	5
## 2013	0.01400743	51.41045	1
## 2014	-0.12266768	51.46062	4
## 2015	-0.13704033	51.50553	4
## 2016	-0.27106553	51.57616	3
## 2017	-0.19562056	51.66238	2
## 2018	-0.08912003	51.51082	4
## 2019	-0.11738716	51.66902	2
## 2020	0.08250620	51.59773	5
## 2021	0.03307815	51.53119	5
## 2022	-0.11738716	51.66902	2
## 2023	-0.11738716	51.66902	2
## 2024	-0.33994379	51.58901	3
## 2025	-0.18901141	51.45894	4
## 2026	0.15157167	51.44755	5
## 2027	-0.08912003	51.51082	4
## 2028	-0.01170935	51.44908	1
## 2029	0.01400743	51.41045	1
## 2030	-0.12266768	51.46062	4
## 2031	0.01400743	51.41045	1
## 2032	-0.30342843	51.51473	3
## 2033	0.03307815	51.53119	5
## 2034	-0.30342843	51.51473	3
## 2035	0.12988840	51.56167	5
## 2036	0.21276082	51.58296	5
## 2037	-0.10215668	51.54494	4
## 2038	-0.08912003	51.51082	4
## 2039	-0.19514135	51.36602	4
## 2040	-0.02797504	51.52616	1
## 2041	-0.19562056	51.66238	2
## 2042	-0.37384439	51.46939	3
## 2043	-0.30342843	51.51473	3
## 2044	0.15157167	51.44755	5
## 2045	-0.21219045	51.41654	4
## 2046	0.15157167	51.44755	5
## 2047	-0.07450626	51.58104	2
## 2048	0.12988840	51.56167	5
## 2049	-0.08912003	51.51082	4
## 2050	0.12988840	51.56167	5
## 2051	-0.09631794	51.38259	1
## 2052	0.21276082	51.58296	5
## 2053	0.01003716	51.49328	1
## 2054	-0.33994379	51.58901	3
## 2055	-0.21219045	51.41654	4
## 2056	-0.33994379	51.58901	3

##	2057	-0.08912003	51.51082	4
##	2058	-0.30342843	51.51473	3
##	2059	-0.07450626	51.58104	2
##	2060	-0.21219045	51.41654	4
##	2061	-0.02797504	51.52616	1
##	2062	-0.37384439	51.46939	3
##	2063	0.01400743	51.41045	1
##	2064	0.21276082	51.58296	5
##	2065	-0.18901141	51.45894	4
##	2066	-0.08912003	51.51082	4
##	2067	-0.33994379	51.58901	3
##	2068	-0.09631794	51.38259	1
##	2069	-0.30138440	51.41824	3
##	2070	-0.30320903	51.46316	3
##	2071	-0.30342843	51.51473	3
##	2072	-0.23053203	51.50705	4
##	2073	-0.10215668	51.54494	4
##	2074	-0.08912003	51.51082	4
##	2075	-0.45140058	51.54113	3
##	2076	-0.30138440	51.41824	3
##	2077	0.03307815	51.53119	5
##	2078	-0.01170935	51.44908	1
##	2079	-0.19246075	51.50498	4
##	2080	-0.08912003	51.51082	4
##	2081	-0.19514135	51.36602	4
##	2082	-0.16211228	51.55180	4
##	2083	-0.33994379	51.58901	3
##	2084	0.21276082	51.58296	5
##	2085	-0.13704033	51.50553	4
##	2086	-0.11738716	51.66902	2
##	2087	-0.12266768	51.46062	4
##	2088	-0.19246075	51.50498	4
##	2089	-0.19562056	51.66238	2
##	2090	0.21276082	51.58296	5
##	2091	0.01003716	51.49328	1
##	2092	0.08250620	51.59773	5
##	2093	0.15157167	51.44755	5
##	2094	-0.33994379	51.58901	3
##	2095	-0.27106553	51.57616	3
##	2096	0.03307815	51.53119	5
##	2097	-0.18901141	51.45894	4
##	2098	0.15157167	51.44755	5
##	2099	-0.27106553	51.57616	3
##	2100	-0.02797504	51.52616	1
##	2101	-0.30342843	51.51473	3
##	2102	-0.30342843	51.51473	3
##	2103	-0.12266768	51.46062	4
##	2104	-0.00902464	51.59495	5
##	2105	-0.10215668	51.54494	4
##	2106	0.03307815	51.53119	5

## 2107	-0.02797504	51.52616	1
## 2108	0.03307815	51.53119	5
## 2109	0.01400743	51.41045	1
## 2110	-0.08912003	51.51082	4
## 2111	-0.07450626	51.58104	2
## 2112	-0.10215668	51.54494	4
## 2113	-0.00902464	51.59495	5
## 2114	-0.00902464	51.59495	5
## 2115	0.01003716	51.49328	1
## 2116	0.01003716	51.49328	1
## 2117	-0.27106553	51.57616	3
## 2118	-0.33994379	51.58901	3
## 2119	-0.01170935	51.44908	1
## 2120	-0.33994379	51.58901	3
## 2121	-0.11738716	51.66902	2
## 2122	-0.11738716	51.66902	2
## 2123	-0.13704033	51.50553	4
## 2124	-0.02797504	51.52616	1
## 2125	-0.37384439	51.46939	3
## 2126	-0.19514135	51.36602	4
## 2127	-0.11461497	51.59851	2
## 2128	0.08250620	51.59773	5
## 2129	-0.02797504	51.52616	1
## 2130	-0.37384439	51.46939	3
## 2131	0.08250620	51.59773	5
## 2132	0.15157167	51.44755	5
## 2133	-0.27106553	51.57616	3
## 2134	0.03307815	51.53119	5
## 2135	-0.30342843	51.51473	3
## 2136	-0.16211228	51.55180	4
## 2137	-0.16211228	51.55180	4
## 2138	0.12988840	51.56167	5
## 2139	-0.08912003	51.51082	4
## 2140	-0.09631794	51.38259	1
## 2141	-0.30342843	51.51473	3
## 2142	-0.16211228	51.55180	4
## 2143	-0.08912003	51.51082	4
## 2144	0.03307815	51.53119	5
## 2145	-0.27106553	51.57616	3
## 2146	-0.45140058	51.54113	3
## 2147	-0.18901141	51.45894	4
## 2148	-0.23053203	51.50705	4
## 2149	0.08250620	51.59773	5
## 2150	-0.00902464	51.59495	5
## 2151	-0.11738716	51.66902	2
## 2152	-0.11738716	51.66902	2
## 2153	-0.45140058	51.54113	3
## 2154	-0.30320903	51.46316	3
## 2155	0.01400743	51.41045	1
## 2156	-0.21219045	51.41654	4

##	2157	-0.11461497	51.59851	2
##	2158	-0.19514135	51.36602	4
##	2159	-0.11461497	51.59851	2
##	2160	-0.00902464	51.59495	5
##	2161	-0.09631794	51.38259	1
##	2162	-0.08912003	51.51082	4
##	2163	-0.13704033	51.50553	4
##	2164	-0.11738716	51.66902	2
##	2165	-0.02797504	51.52616	1
##	2166	0.03307815	51.53119	5
##	2167	-0.01170935	51.44908	1
##	2168	-0.11738716	51.66902	2
##	2169	-0.13704033	51.50553	4
##	2170	-0.33994379	51.58901	3
##	2171	0.15157167	51.44755	5
##	2172	-0.23053203	51.50705	4
##	2173	-0.27106553	51.57616	3
##	2174	-0.08912003	51.51082	4
##	2175	-0.12266768	51.46062	4
##	2176	-0.37384439	51.46939	3
##	2177	0.12988840	51.56167	5
##	2178	-0.18901141	51.45894	4
##	2179	-0.33994379	51.58901	3
##	2180	0.08250620	51.59773	5
##	2181	0.21276082	51.58296	5
##	2182	-0.09631794	51.38259	1
##	2183	-0.18901141	51.45894	4
##	2184	-0.12266768	51.46062	4
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##	2186	-0.18901141	51.45894	4
##	2187	-0.01170935	51.44908	1
##	2188	-0.11738716	51.66902	2
##	2189	-0.01170935	51.44908	1
##	2190	0.01400743	51.41045	1
##	2191	-0.10215668	51.54494	4
##	2192	-0.11461497	51.59851	2
##	2193	-0.30320903	51.46316	3
##	2194	-0.11738716	51.66902	2
##	2195	0.15157167	51.44755	5
##	2196	0.21276082	51.58296	5
##	2197	-0.10215668	51.54494	4
##	2198	-0.12266768	51.46062	4
##	2199	-0.30342843	51.51473	3
##	2200	-0.19562056	51.66238	2
##	2201	-0.21219045	51.41654	4
##	2202	0.21276082	51.58296	5
##	2203	0.01400743	51.41045	1
##	2204	-0.30342843	51.51473	3
##	2205	-0.11738716	51.66902	2
##	2206	-0.16211228	51.55180	4

## 2207	-0.30342843	51.51473	3
## 2208	0.21276082	51.58296	5
## 2209	0.03307815	51.53119	5
## 2210	-0.18901141	51.45894	4
## 2211	-0.13704033	51.50553	4
## 2212	-0.09631794	51.38259	1
## 2213	-0.13704033	51.50553	4
## 2214	-0.19514135	51.36602	4
## 2215	0.15157167	51.44755	5
## 2216	-0.11738716	51.66902	2
## 2217	-0.30342843	51.51473	3
## 2218	0.01003716	51.49328	1
## 2219	-0.19514135	51.36602	4
## 2220	-0.19562056	51.66238	2
## 2221	-0.01170935	51.44908	1
## 2222	0.21276082	51.58296	5
## 2223	-0.08912003	51.51082	4
## 2224	-0.11738716	51.66902	2
## 2225	-0.09631794	51.38259	1
## 2226	-0.11738716	51.66902	2
## 2227	-0.37384439	51.46939	3
## 2228	0.12988840	51.56167	5
## 2229	-0.23053203	51.50705	4
## 2230	-0.11738716	51.66902	2
## 2231	-0.07450626	51.58104	2
## 2232	0.01003716	51.49328	1
## 2233	-0.37384439	51.46939	3
## 2234	-0.07450626	51.58104	2
## 2235	-0.11461497	51.59851	2
## 2236	-0.00902464	51.59495	5
## 2237	-0.11738716	51.66902	2
## 2238	-0.11738716	51.66902	2
## 2239	-0.27106553	51.57616	3
## 2240	-0.18901141	51.45894	4
## 2241	-0.30342843	51.51473	3
## 2242	-0.27106553	51.57616	3
## 2243	0.01400743	51.41045	1
## 2244	-0.00902464	51.59495	5
## 2245	-0.00902464	51.59495	5
## 2246	-0.18901141	51.45894	4
## 2247	0.15157167	51.44755	5
## 2248	-0.11461497	51.59851	2
## 2249	-0.11738716	51.66902	2
## 2250	0.03307815	51.53119	5
## 2251	-0.08912003	51.51082	4
## 2252	-0.12266768	51.46062	4
## 2253	-0.16211228	51.55180	4
## 2254	-0.33994379	51.58901	3
## 2255	-0.19514135	51.36602	4
## 2256	-0.19514135	51.36602	4

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##	2258	-0.23053203	51.50705	4
##	2259	0.08250620	51.59773	5
##	2260	-0.09631794	51.38259	1
##	2261	-0.02797504	51.52616	1
##	2262	-0.09631794	51.38259	1
##	2263	0.03307815	51.53119	5
##	2264	-0.33994379	51.58901	3
##	2265	-0.12266768	51.46062	4
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##	2267	-0.01170935	51.44908	1
##	2268	-0.01170935	51.44908	1
##	2269	-0.19562056	51.66238	2
##	2270	-0.30342843	51.51473	3
##	2271	0.03307815	51.53119	5
##	2272	-0.11738716	51.66902	2
##	2273	0.12988840	51.56167	5
##	2274	-0.37384439	51.46939	3
##	2275	-0.11461497	51.59851	2
##	2276	-0.02797504	51.52616	1
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##	2280	-0.11461497	51.59851	2
##	2281	0.03307815	51.53119	5
##	2282	0.01003716	51.49328	1
##	2283	-0.10215668	51.54494	4
##	2284	-0.45140058	51.54113	3
##	2285	-0.19514135	51.36602	4
##	2286	0.08250620	51.59773	5
##	2287	-0.13704033	51.50553	4
##	2288	-0.23053203	51.50705	4
##	2289	0.21276082	51.58296	5
##	2290	-0.30320903	51.46316	3
##	2291	-0.12266768	51.46062	4
##	2292	0.01400743	51.41045	1
##	2293	-0.10215668	51.54494	4
##	2294	-0.13704033	51.50553	4
##	2295	-0.00902464	51.59495	5
##	2296	0.12988840	51.56167	5
##	2297	-0.11461497	51.59851	2
##	2298	-0.07450626	51.58104	2
##	2299	-0.33994379	51.58901	3
##	2300	-0.07450626	51.58104	2
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##	2302	0.15157167	51.44755	5
##	2303	-0.09631794	51.38259	1
##	2304	-0.19246075	51.50498	4
##	2305	-0.18901141	51.45894	4
##	2306	-0.30342843	51.51473	3

## 2307	-0.02797504	51.52616	1
## 2308	-0.08912003	51.51082	4
## 2309	-0.00902464	51.59495	5
## 2310	0.15157167	51.44755	5
## 2311	-0.11738716	51.66902	2
## 2312	-0.30320903	51.46316	3
## 2313	-0.02797504	51.52616	1
## 2314	0.21276082	51.58296	5
## 2315	-0.30342843	51.51473	3
## 2316	-0.01170935	51.44908	1
## 2317	-0.00902464	51.59495	5
## 2318	-0.01170935	51.44908	1
## 2319	-0.19562056	51.66238	2
## 2320	-0.00902464	51.59495	5
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## 2322	-0.30320903	51.46316	3
## 2323	-0.09631794	51.38259	1
## 2324	0.08250620	51.59773	5
## 2325	-0.23053203	51.50705	4
## 2326	-0.27106553	51.57616	3
## 2327	-0.11738716	51.66902	2
## 2328	-0.27106553	51.57616	3
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## 2330	-0.45140058	51.54113	3
## 2331	-0.11461497	51.59851	2
## 2332	-0.27106553	51.57616	3
## 2333	-0.08912003	51.51082	4
## 2334	-0.27106553	51.57616	3
## 2335	-0.23053203	51.50705	4
## 2336	-0.12266768	51.46062	4
## 2337	-0.11738716	51.66902	2
## 2338	-0.12266768	51.46062	4
## 2339	-0.19246075	51.50498	4
## 2340	0.01400743	51.41045	1
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## 2342	-0.12266768	51.46062	4
## 2343	-0.45140058	51.54113	3
## 2344	-0.30342843	51.51473	3
## 2345	-0.27106553	51.57616	3
## 2346	0.21276082	51.58296	5
## 2347	-0.07450626	51.58104	2
## 2348	-0.19562056	51.66238	2
## 2349	-0.12266768	51.46062	4
## 2350	-0.02797504	51.52616	1
## 2351	-0.12266768	51.46062	4
## 2352	-0.30138440	51.41824	3
## 2353	-0.16211228	51.55180	4
## 2354	-0.00902464	51.59495	5
## 2355	-0.19246075	51.50498	4
## 2356	-0.19246075	51.50498	4

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##	2362	-0.45140058	51.54113	3
##	2363	-0.23053203	51.50705	4
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##	2365	-0.27106553	51.57616	3
##	2366	-0.33994379	51.58901	3
##	2367	-0.45140058	51.54113	3
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##	2373	-0.00902464	51.59495	5
##	2374	-0.30320903	51.46316	3
##	2375	-0.12266768	51.46062	4
##	2376	-0.02797504	51.52616	1
##	2377	-0.18901141	51.45894	4
##	2378	-0.07450626	51.58104	2
##	2379	0.03307815	51.53119	5
##	2380	-0.21219045	51.41654	4
##	2381	-0.08912003	51.51082	4
##	2382	-0.23053203	51.50705	4
##	2383	-0.01170935	51.44908	1
##	2384	0.03307815	51.53119	5
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##	2403	-0.19514135	51.36602	4
##	2404	-0.01170935	51.44908	1
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##	2406	-0.18901141	51.45894	4

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## 2408	-0.37384439	51.46939	3
## 2409	-0.19514135	51.36602	4
## 2410	-0.10215668	51.54494	4
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## 2412	0.15157167	51.44755	5
## 2413	-0.01170935	51.44908	1
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## 2415	-0.30138440	51.41824	3
## 2416	-0.10215668	51.54494	4
## 2417	-0.45140058	51.54113	3
## 2418	0.15157167	51.44755	5
## 2419	-0.09631794	51.38259	1
## 2420	-0.18901141	51.45894	4
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## 2434	-0.45140058	51.54113	3
## 2435	-0.37384439	51.46939	3
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## 2437	-0.11738716	51.66902	2
## 2438	-0.30342843	51.51473	3
## 2439	-0.37384439	51.46939	3
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## 2450	-0.18901141	51.45894	4
## 2451	0.12988840	51.56167	5
## 2452	-0.00902464	51.59495	5
## 2453	-0.30342843	51.51473	3
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##	2467	-0.19562056	51.66238	2
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##	2469	-0.09631794	51.38259	1
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## 2608	-0.11738716	51.66902	2
## 2609	-0.09631794	51.38259	1
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## 2625	-0.08912003	51.51082	4
## 2626	-0.13704033	51.50553	4
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## 2644	0.21276082	51.58296	5
## 2645	-0.07450626	51.58104	2
## 2646	0.12988840	51.56167	5
## 2647	-0.19514135	51.36602	4
## 2648	-0.30342843	51.51473	3
## 2649	-0.45140058	51.54113	3
## 2650	-0.01170935	51.44908	1
## 2651	0.01003716	51.49328	1
## 2652	-0.00902464	51.59495	5
## 2653	-0.01170935	51.44908	1
## 2654	0.15157167	51.44755	5
## 2655	0.01400743	51.41045	1
## 2656	-0.37384439	51.46939	3

## 2657	-0.27106553	51.57616	3
## 2658	-0.19514135	51.36602	4
## 2659	-0.10215668	51.54494	4
## 2660	-0.30138440	51.41824	3
## 2661	-0.27106553	51.57616	3
## 2662	-0.30138440	51.41824	3
## 2663	-0.30342843	51.51473	3
## 2664	-0.11738716	51.66902	2
## 2665	-0.23053203	51.50705	4
## 2666	-0.08912003	51.51082	4
## 2667	-0.01170935	51.44908	1
## 2668	-0.11461497	51.59851	2
## 2669	-0.19562056	51.66238	2
## 2670	-0.27106553	51.57616	3
## 2671	-0.19514135	51.36602	4
## 2672	0.03307815	51.53119	5
## 2673	-0.10215668	51.54494	4
## 2674	-0.00902464	51.59495	5
## 2675	-0.27106553	51.57616	3
## 2676	-0.30342843	51.51473	3
## 2677	-0.21219045	51.41654	4
## 2678	0.01003716	51.49328	1
## 2679	-0.27106553	51.57616	3
## 2680	0.15157167	51.44755	5
## 2681	-0.23053203	51.50705	4
## 2682	0.08250620	51.59773	5
## 2683	-0.30320903	51.46316	3
## 2684	-0.09631794	51.38259	1
## 2685	-0.01170935	51.44908	1
## 2686	-0.37384439	51.46939	3
## 2687	-0.13704033	51.50553	4
## 2688	-0.30342843	51.51473	3
## 2689	0.12988840	51.56167	5
## 2690	-0.19514135	51.36602	4
## 2691	-0.18901141	51.45894	4
## 2692	-0.11738716	51.66902	2
## 2693	-0.27106553	51.57616	3
## 2694	-0.02797504	51.52616	1
## 2695	-0.01170935	51.44908	1
## 2696	-0.33994379	51.58901	3
## 2697	-0.11738716	51.66902	2
## 2698	-0.45140058	51.54113	3
## 2699	-0.30320903	51.46316	3
## 2700	0.01400743	51.41045	1
## 2701	0.01003716	51.49328	1
## 2702	-0.30342843	51.51473	3
## 2703	-0.08912003	51.51082	4
## 2704	-0.30342843	51.51473	3
## 2705	-0.27106553	51.57616	3
## 2706	-0.10215668	51.54494	4

## 2707	-0.27106553	51.57616	3
## 2708	-0.00902464	51.59495	5
## 2709	-0.37384439	51.46939	3
## 2710	-0.10215668	51.54494	4
## 2711	-0.19562056	51.66238	2
## 2712	-0.30138440	51.41824	3
## 2713	-0.09631794	51.38259	1
## 2714	-0.08912003	51.51082	4
## 2715	-0.23053203	51.50705	4
## 2716	-0.18901141	51.45894	4
## 2717	-0.08912003	51.51082	4
## 2718	-0.45140058	51.54113	3
## 2719	-0.18901141	51.45894	4
## 2720	0.01003716	51.49328	1
## 2721	-0.00902464	51.59495	5
## 2722	-0.13704033	51.50553	4
## 2723	-0.11461497	51.59851	2
## 2724	-0.09631794	51.38259	1
## 2725	-0.01170935	51.44908	1
## 2726	-0.01170935	51.44908	1
## 2727	-0.01170935	51.44908	1
## 2728	-0.07450626	51.58104	2
## 2729	-0.30342843	51.51473	3
## 2730	-0.30138440	51.41824	3
## 2731	-0.12266768	51.46062	4
## 2732	0.01400743	51.41045	1
## 2733	-0.11461497	51.59851	2
## 2734	-0.18901141	51.45894	4
## 2735	-0.09631794	51.38259	1
## 2736	-0.00902464	51.59495	5
## 2737	-0.01170935	51.44908	1
## 2738	-0.07450626	51.58104	2
## 2739	-0.01170935	51.44908	1
## 2740	-0.11461497	51.59851	2
## 2741	0.01003716	51.49328	1
## 2742	-0.08912003	51.51082	4
## 2743	0.01400743	51.41045	1
## 2744	-0.18901141	51.45894	4
## 2745	-0.02797504	51.52616	1
## 2746	0.21276082	51.58296	5
## 2747	-0.09631794	51.38259	1
## 2748	-0.19562056	51.66238	2
## 2749	-0.08912003	51.51082	4
## 2750	0.03307815	51.53119	5
## 2751	-0.01170935	51.44908	1
## 2752	-0.30342843	51.51473	3
## 2753	-0.09631794	51.38259	1
## 2754	0.03307815	51.53119	5
## 2755	-0.11461497	51.59851	2
## 2756	-0.27106553	51.57616	3

## 2757	0.08250620	51.59773	5
## 2758	-0.02797504	51.52616	1
## 2759	-0.30138440	51.41824	3
## 2760	-0.21219045	51.41654	4
## 2761	-0.12266768	51.46062	4
## 2762	-0.30342843	51.51473	3
## 2763	-0.16211228	51.55180	4
## 2764	-0.08912003	51.51082	4
## 2765	-0.27106553	51.57616	3
## 2766	-0.33994379	51.58901	3
## 2767	-0.01170935	51.44908	1
## 2768	-0.08912003	51.51082	4
## 2769	-0.33994379	51.58901	3
## 2770	-0.11738716	51.66902	2
## 2771	0.12988840	51.56167	5
## 2772	-0.27106553	51.57616	3
## 2773	-0.09631794	51.38259	1
## 2774	-0.00902464	51.59495	5
## 2775	-0.02797504	51.52616	1
## 2776	-0.19514135	51.36602	4
## 2777	0.03307815	51.53119	5
## 2778	-0.12266768	51.46062	4
## 2779	-0.08912003	51.51082	4
## 2780	-0.37384439	51.46939	3
## 2781	-0.18901141	51.45894	4
## 2782	-0.09631794	51.38259	1
## 2783	-0.07450626	51.58104	2
## 2784	-0.37384439	51.46939	3
## 2785	0.01400743	51.41045	1
## 2786	0.03307815	51.53119	5
## 2787	-0.33994379	51.58901	3
## 2788	-0.33994379	51.58901	3
## 2789	-0.23053203	51.50705	4
## 2790	-0.19246075	51.50498	4
## 2791	-0.30138440	51.41824	3
## 2792	-0.18901141	51.45894	4
## 2793	-0.08912003	51.51082	4
## 2794	0.01003716	51.49328	1
## 2795	-0.30320903	51.46316	3
## 2796	0.03307815	51.53119	5
## 2797	0.01400743	51.41045	1
## 2798	-0.21219045	51.41654	4
## 2799	-0.02797504	51.52616	1
## 2800	-0.30138440	51.41824	3
## 2801	-0.09631794	51.38259	1
## 2802	-0.02797504	51.52616	1
## 2803	-0.13704033	51.50553	4
## 2804	-0.08912003	51.51082	4
## 2805	-0.13704033	51.50553	4
## 2806	-0.30138440	51.41824	3

## 2807	-0.11738716	51.66902	2
## 2808	-0.23053203	51.50705	4
## 2809	-0.33994379	51.58901	3
## 2810	-0.13704033	51.50553	4
## 2811	-0.33994379	51.58901	3
## 2812	-0.30320903	51.46316	3
## 2813	0.15157167	51.44755	5
## 2814	-0.10215668	51.54494	4
## 2815	-0.19562056	51.66238	2
## 2816	0.21276082	51.58296	5
## 2817	-0.33994379	51.58901	3
## 2818	0.03307815	51.53119	5
## 2819	-0.33994379	51.58901	3
## 2820	-0.11738716	51.66902	2
## 2821	-0.33994379	51.58901	3
## 2822	0.12988840	51.56167	5
## 2823	-0.27106553	51.57616	3
## 2824	-0.07450626	51.58104	2
## 2825	-0.45140058	51.54113	3
## 2826	-0.00902464	51.59495	5
## 2827	-0.16211228	51.55180	4
## 2828	-0.45140058	51.54113	3
## 2829	-0.12266768	51.46062	4
## 2830	-0.30342843	51.51473	3
## 2831	0.21276082	51.58296	5
## 2832	-0.27106553	51.57616	3
## 2833	0.03307815	51.53119	5
## 2834	-0.30342843	51.51473	3
## 2835	-0.11461497	51.59851	2
## 2836	-0.18901141	51.45894	4
## 2837	-0.16211228	51.55180	4
## 2838	0.12988840	51.56167	5
## 2839	-0.00902464	51.59495	5
## 2840	-0.09631794	51.38259	1
## 2841	-0.30320903	51.46316	3
## 2842	-0.37384439	51.46939	3
## 2843	-0.30320903	51.46316	3
## 2844	-0.00902464	51.59495	5
## 2845	-0.11738716	51.66902	2
## 2846	-0.16211228	51.55180	4
## 2847	0.08250620	51.59773	5
## 2848	0.03307815	51.53119	5
## 2849	0.15157167	51.44755	5
## 2850	-0.16211228	51.55180	4
## 2851	-0.27106553	51.57616	3
## 2852	-0.30320903	51.46316	3
## 2853	0.03307815	51.53119	5
## 2854	-0.19246075	51.50498	4
## 2855	-0.18901141	51.45894	4
## 2856	0.12988840	51.56167	5

## 2857	-0.13704033	51.50553	4
## 2858	-0.12266768	51.46062	4
## 2859	-0.37384439	51.46939	3
## 2860	0.01400743	51.41045	1
## 2861	0.08250620	51.59773	5
## 2862	0.21276082	51.58296	5
## 2863	0.21276082	51.58296	5
## 2864	-0.30138440	51.41824	3
## 2865	-0.37384439	51.46939	3
## 2866	-0.30320903	51.46316	3
## 2867	-0.18901141	51.45894	4
## 2868	-0.07450626	51.58104	2
## 2869	0.01400743	51.41045	1
## 2870	-0.30342843	51.51473	3
## 2871	-0.07450626	51.58104	2
## 2872	-0.09631794	51.38259	1
## 2873	0.01003716	51.49328	1
## 2874	-0.18901141	51.45894	4
## 2875	-0.30342843	51.51473	3
## 2876	-0.30342843	51.51473	3
## 2877	-0.19562056	51.66238	2
## 2878	-0.00902464	51.59495	5
## 2879	-0.11738716	51.66902	2
## 2880	0.15157167	51.44755	5
## 2881	-0.18901141	51.45894	4
## 2882	-0.19562056	51.66238	2
## 2883	-0.01170935	51.44908	1
## 2884	-0.02797504	51.52616	1
## 2885	-0.18901141	51.45894	4
## 2886	-0.18901141	51.45894	4
## 2887	-0.37384439	51.46939	3
## 2888	0.01003716	51.49328	1
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## 2893	-0.09631794	51.38259	1
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## 2896	-0.11461497	51.59851	2
## 2897	-0.23053203	51.50705	4
## 2898	-0.02797504	51.52616	1
## 2899	-0.12266768	51.46062	4
## 2900	0.08250620	51.59773	5
## 2901	-0.33994379	51.58901	3
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## 2903	-0.30342843	51.51473	3
## 2904	-0.19562056	51.66238	2
## 2905	-0.12266768	51.46062	4
## 2906	-0.16211228	51.55180	4

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##	2909	0.15157167	51.44755	5
##	2910	-0.11738716	51.66902	2
##	2911	0.21276082	51.58296	5
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##	2913	-0.30138440	51.41824	3
##	2914	0.01003716	51.49328	1
##	2915	-0.30342843	51.51473	3
##	2916	-0.33994379	51.58901	3
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##	2918	-0.12266768	51.46062	4
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##	2921	0.03307815	51.53119	5
##	2922	-0.21219045	51.41654	4
##	2923	-0.01170935	51.44908	1
##	2924	-0.45140058	51.54113	3
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##	2929	-0.16211228	51.55180	4
##	2930	-0.30342843	51.51473	3
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##	2932	-0.30138440	51.41824	3
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##	2934	-0.12266768	51.46062	4
##	2935	-0.08912003	51.51082	4
##	2936	-0.19246075	51.50498	4
##	2937	-0.19562056	51.66238	2
##	2938	-0.13704033	51.50553	4
##	2939	-0.30138440	51.41824	3
##	2940	0.21276082	51.58296	5
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##	2942	-0.19514135	51.36602	4
##	2943	-0.30342843	51.51473	3
##	2944	-0.09631794	51.38259	1
##	2945	-0.00902464	51.59495	5
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##	2954	-0.12266768	51.46062	4
##	2955	0.03307815	51.53119	5
##	2956	-0.30320903	51.46316	3

##	2957	-0.37384439	51.46939	3
##	2958	-0.18901141	51.45894	4
##	2959	-0.11738716	51.66902	2
##	2960	-0.30342843	51.51473	3
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##	2966	0.21276082	51.58296	5
##	2967	-0.33994379	51.58901	3
##	2968	-0.30342843	51.51473	3
##	2969	0.01400743	51.41045	1
##	2970	-0.01170935	51.44908	1
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##	2972	0.08250620	51.59773	5
##	2973	-0.19562056	51.66238	2
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##	2975	-0.19562056	51.66238	2
##	2976	0.01400743	51.41045	1
##	2977	-0.07450626	51.58104	2
##	2978	-0.30342843	51.51473	3
##	2979	-0.30138440	51.41824	3
##	2980	-0.09631794	51.38259	1
##	2981	-0.19562056	51.66238	2
##	2982	-0.37384439	51.46939	3
##	2983	-0.23053203	51.50705	4
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##	2986	-0.13704033	51.50553	4
##	2987	-0.21219045	51.41654	4
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##	2989	0.03307815	51.53119	5
##	2990	-0.12266768	51.46062	4
##	2991	-0.30320903	51.46316	3
##	2992	-0.19562056	51.66238	2
##	2993	0.03307815	51.53119	5
##	2994	-0.19562056	51.66238	2
##	2995	-0.27106553	51.57616	3
##	2996	-0.02797504	51.52616	1
##	2997	0.01003716	51.49328	1
##	2998	-0.27106553	51.57616	3
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##	3000	-0.21219045	51.41654	4
##	3001	-0.09631794	51.38259	1
##	3002	-0.07450626	51.58104	2
##	3003	-0.07450626	51.58104	2
##	3004	-0.11738716	51.66902	2
##	3005	-0.09631794	51.38259	1
##	3006	-0.09631794	51.38259	1

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## 3009	0.01003716	51.49328	1
## 3010	0.01400743	51.41045	1
## 3011	-0.02797504	51.52616	1
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## 3013	-0.30320903	51.46316	3
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## 3015	-0.27106553	51.57616	3
## 3016	0.01400743	51.41045	1
## 3017	0.21276082	51.58296	5
## 3018	-0.21219045	51.41654	4
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## 3021	-0.09631794	51.38259	1
## 3022	-0.11461497	51.59851	2
## 3023	0.01400743	51.41045	1
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## 3026	0.21276082	51.58296	5
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## 3032	-0.16211228	51.55180	4
## 3033	-0.19514135	51.36602	4
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## 3035	-0.30342843	51.51473	3
## 3036	-0.19514135	51.36602	4
## 3037	-0.33994379	51.58901	3
## 3038	-0.10215668	51.54494	4
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## 3042	-0.45140058	51.54113	3
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## 3044	0.01400743	51.41045	1
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## 3050	-0.30320903	51.46316	3
## 3051	-0.09631794	51.38259	1
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## 3054	-0.19514135	51.36602	4
## 3055	-0.27106553	51.57616	3
## 3056	-0.00902464	51.59495	5

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## 3058	-0.37384439	51.46939	3
## 3059	-0.16211228	51.55180	4
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## 3061	-0.27106553	51.57616	3
## 3062	-0.07450626	51.58104	2
## 3063	-0.11738716	51.66902	2
## 3064	-0.16211228	51.55180	4
## 3065	0.21276082	51.58296	5
## 3066	-0.18901141	51.45894	4
## 3067	-0.19562056	51.66238	2
## 3068	0.03307815	51.53119	5
## 3069	-0.45140058	51.54113	3
## 3070	-0.11738716	51.66902	2
## 3071	-0.21219045	51.41654	4
## 3072	-0.37384439	51.46939	3
## 3073	-0.37384439	51.46939	3
## 3074	-0.12266768	51.46062	4
## 3075	0.03307815	51.53119	5
## 3076	-0.19246075	51.50498	4
## 3077	-0.30320903	51.46316	3
## 3078	0.21276082	51.58296	5
## 3079	-0.02797504	51.52616	1
## 3080	0.08250620	51.59773	5
## 3081	-0.30320903	51.46316	3
## 3082	-0.00902464	51.59495	5
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## 3084	-0.19562056	51.66238	2
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## 3086	0.03307815	51.53119	5
## 3087	-0.19562056	51.66238	2
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## 3089	-0.30138440	51.41824	3
## 3090	0.03307815	51.53119	5
## 3091	0.01400743	51.41045	1
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## 3093	-0.09631794	51.38259	1
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## 3096	-0.19562056	51.66238	2
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## 3098	-0.11738716	51.66902	2
## 3099	-0.10215668	51.54494	4
## 3100	0.01003716	51.49328	1
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## 3102	-0.19514135	51.36602	4
## 3103	-0.21219045	51.41654	4
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## 3105	0.12988840	51.56167	5
## 3106	-0.21219045	51.41654	4

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## 3481	-0.27106553	51.57616	3
## 3482	-0.30320903	51.46316	3
## 3483	-0.09631794	51.38259	1
## 3484	0.08250620	51.59773	5
## 3485	-0.13704033	51.50553	4
## 3486	-0.11461497	51.59851	2
## 3487	-0.19514135	51.36602	4
## 3488	0.03307815	51.53119	5
## 3489	-0.23053203	51.50705	4
## 3490	0.03307815	51.53119	5
## 3491	-0.19514135	51.36602	4
## 3492	-0.16211228	51.55180	4
## 3493	-0.00902464	51.59495	5
## 3494	-0.13704033	51.50553	4
## 3495	-0.10215668	51.54494	4
## 3496	-0.33994379	51.58901	3
## 3497	0.01400743	51.41045	1
## 3498	-0.08912003	51.51082	4
## 3499	-0.21219045	51.41654	4
## 3500	-0.01170935	51.44908	1
## 3501	0.08250620	51.59773	5
## 3502	-0.18901141	51.45894	4
## 3503	0.21276082	51.58296	5
## 3504	-0.30342843	51.51473	3
## 3505	-0.11738716	51.66902	2
## 3506	-0.21219045	51.41654	4

## 3507	-0.12266768	51.46062	4
## 3508	-0.01170935	51.44908	1
## 3509	-0.19562056	51.66238	2
## 3510	-0.27106553	51.57616	3
## 3511	-0.45140058	51.54113	3
## 3512	-0.02797504	51.52616	1
## 3513	-0.09631794	51.38259	1
## 3514	-0.30320903	51.46316	3
## 3515	-0.21219045	51.41654	4
## 3516	-0.30320903	51.46316	3
## 3517	-0.27106553	51.57616	3
## 3518	-0.12266768	51.46062	4
## 3519	-0.30342843	51.51473	3
## 3520	-0.27106553	51.57616	3
## 3521	-0.45140058	51.54113	3
## 3522	-0.19246075	51.50498	4
## 3523	0.15157167	51.44755	5
## 3524	-0.19562056	51.66238	2
## 3525	0.21276082	51.58296	5
## 3526	-0.19514135	51.36602	4
## 3527	-0.33994379	51.58901	3
## 3528	0.12988840	51.56167	5
## 3529	0.03307815	51.53119	5
## 3530	-0.23053203	51.50705	4
## 3531	0.01003716	51.49328	1
## 3532	-0.19562056	51.66238	2
## 3533	-0.08912003	51.51082	4
## 3534	-0.19514135	51.36602	4
## 3535	-0.08912003	51.51082	4
## 3536	-0.11461497	51.59851	2
## 3537	-0.11738716	51.66902	2
## 3538	-0.09631794	51.38259	1
## 3539	0.08250620	51.59773	5
## 3540	-0.09631794	51.38259	1
## 3541	-0.09631794	51.38259	1
## 3542	0.01003716	51.49328	1
## 3543	-0.01170935	51.44908	1
## 3544	-0.37384439	51.46939	3
## 3545	-0.19514135	51.36602	4
## 3546	-0.21219045	51.41654	4
## 3547	-0.19562056	51.66238	2
## 3548	-0.01170935	51.44908	1
## 3549	-0.19562056	51.66238	2
## 3550	-0.01170935	51.44908	1
## 3551	0.21276082	51.58296	5
## 3552	-0.21219045	51.41654	4
## 3553	-0.13704033	51.50553	4
## 3554	-0.19514135	51.36602	4
## 3555	0.08250620	51.59773	5
## 3556	-0.02797504	51.52616	1

## 3557	-0.19514135	51.36602	4
## 3558	-0.10215668	51.54494	4
## 3559	-0.12266768	51.46062	4
## 3560	-0.27106553	51.57616	3
## 3561	-0.27106553	51.57616	3
## 3562	-0.30138440	51.41824	3
## 3563	-0.00902464	51.59495	5
## 3564	0.01003716	51.49328	1
## 3565	-0.01170935	51.44908	1
## 3566	-0.19246075	51.50498	4
## 3567	-0.01170935	51.44908	1
## 3568	-0.18901141	51.45894	4
## 3569	0.08250620	51.59773	5
## 3570	-0.16211228	51.55180	4
## 3571	-0.23053203	51.50705	4
## 3572	-0.11738716	51.66902	2
## 3573	-0.19562056	51.66238	2
## 3574	-0.11738716	51.66902	2
## 3575	-0.18901141	51.45894	4
## 3576	-0.19562056	51.66238	2
## 3577	0.01003716	51.49328	1
## 3578	0.03307815	51.53119	5
## 3579	0.08250620	51.59773	5
## 3580	-0.08912003	51.51082	4
## 3581	-0.11738716	51.66902	2
## 3582	-0.01170935	51.44908	1
## 3583	-0.19562056	51.66238	2
## 3584	0.01400743	51.41045	1
## 3585	-0.09631794	51.38259	1
## 3586	-0.11461497	51.59851	2
## 3587	-0.11738716	51.66902	2
## 3588	-0.00902464	51.59495	5
## 3589	-0.11461497	51.59851	2
## 3590	-0.09631794	51.38259	1
## 3591	-0.00902464	51.59495	5
## 3592	-0.11738716	51.66902	2
## 3593	-0.30342843	51.51473	3
## 3594	-0.30138440	51.41824	3
## 3595	-0.30138440	51.41824	3
## 3596	-0.33994379	51.58901	3
## 3597	0.01400743	51.41045	1
## 3598	-0.08912003	51.51082	4
## 3599	0.08250620	51.59773	5
## 3600	-0.30138440	51.41824	3
## 3601	-0.19514135	51.36602	4
## 3602	0.15157167	51.44755	5
## 3603	-0.11461497	51.59851	2
## 3604	-0.10215668	51.54494	4
## 3605	0.03307815	51.53119	5
## 3606	-0.02797504	51.52616	1

## 3607	-0.33994379	51.58901	3
## 3608	-0.07450626	51.58104	2
## 3609	-0.08912003	51.51082	4
## 3610	-0.19246075	51.50498	4
## 3611	-0.23053203	51.50705	4
## 3612	-0.02797504	51.52616	1
## 3613	0.03307815	51.53119	5
## 3614	-0.30342843	51.51473	3
## 3615	-0.02797504	51.52616	1
## 3616	-0.10215668	51.54494	4
## 3617	-0.09631794	51.38259	1
## 3618	-0.10215668	51.54494	4
## 3619	-0.19562056	51.66238	2
## 3620	-0.11738716	51.66902	2
## 3621	-0.07450626	51.58104	2
## 3622	-0.11461497	51.59851	2
## 3623	-0.00902464	51.59495	5
## 3624	-0.19514135	51.36602	4
## 3625	0.01003716	51.49328	1
## 3626	-0.30138440	51.41824	3
## 3627	-0.07450626	51.58104	2
## 3628	-0.19562056	51.66238	2
## 3629	-0.12266768	51.46062	4
## 3630	0.08250620	51.59773	5
## 3631	-0.11738716	51.66902	2
## 3632	-0.30138440	51.41824	3
## 3633	-0.33994379	51.58901	3
## 3634	-0.12266768	51.46062	4
## 3635	-0.19562056	51.66238	2
## 3636	0.08250620	51.59773	5
## 3637	-0.19514135	51.36602	4
## 3638	-0.11738716	51.66902	2
## 3639	-0.08912003	51.51082	4
## 3640	-0.08912003	51.51082	4
## 3641	-0.01170935	51.44908	1
## 3642	-0.33994379	51.58901	3
## 3643	-0.09631794	51.38259	1
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## 3645	-0.07450626	51.58104	2
## 3646	-0.08912003	51.51082	4
## 3647	-0.07450626	51.58104	2
## 3648	-0.07450626	51.58104	2
## 3649	0.01003716	51.49328	1
## 3650	-0.13704033	51.50553	4
## 3651	-0.09631794	51.38259	1
## 3652	-0.18901141	51.45894	4
## 3653	-0.19246075	51.50498	4
## 3654	-0.08912003	51.51082	4
## 3655	-0.00902464	51.59495	5
## 3656	-0.45140058	51.54113	3

## 3657	-0.18901141	51.45894	4
## 3658	0.01400743	51.41045	1
## 3659	-0.09631794	51.38259	1
## 3660	0.12988840	51.56167	5
## 3661	-0.09631794	51.38259	1
## 3662	-0.13704033	51.50553	4
## 3663	0.01400743	51.41045	1
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## 3665	-0.30320903	51.46316	3
## 3666	0.03307815	51.53119	5
## 3667	-0.45140058	51.54113	3
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## 3669	-0.18901141	51.45894	4
## 3670	0.03307815	51.53119	5
## 3671	-0.19514135	51.36602	4
## 3672	-0.11738716	51.66902	2
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## 3675	-0.30138440	51.41824	3
## 3676	-0.01170935	51.44908	1
## 3677	-0.07450626	51.58104	2
## 3678	0.03307815	51.53119	5
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## 3680	-0.13704033	51.50553	4
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## 3683	0.15157167	51.44755	5
## 3684	-0.19514135	51.36602	4
## 3685	-0.16211228	51.55180	4
## 3686	-0.27106553	51.57616	3
## 3687	-0.09631794	51.38259	1
## 3688	-0.45140058	51.54113	3
## 3689	0.21276082	51.58296	5
## 3690	-0.19562056	51.66238	2
## 3691	-0.23053203	51.50705	4
## 3692	-0.00902464	51.59495	5
## 3693	-0.09631794	51.38259	1
## 3694	-0.11738716	51.66902	2
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## 3696	0.21276082	51.58296	5
## 3697	-0.09631794	51.38259	1
## 3698	-0.37384439	51.46939	3
## 3699	-0.10215668	51.54494	4
## 3700	-0.33994379	51.58901	3
## 3701	-0.45140058	51.54113	3
## 3702	-0.08912003	51.51082	4
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## 3710	0.12988840	51.56167	5
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## 3717	-0.19246075	51.50498	4
## 3718	-0.18901141	51.45894	4
## 3719	0.01400743	51.41045	1
## 3720	-0.01170935	51.44908	1
## 3721	-0.00902464	51.59495	5
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## 3723	-0.11738716	51.66902	2
## 3724	-0.19514135	51.36602	4
## 3725	0.12988840	51.56167	5
## 3726	-0.23053203	51.50705	4
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## 3734	-0.00902464	51.59495	5
## 3735	-0.11738716	51.66902	2
## 3736	-0.30320903	51.46316	3
## 3737	0.01400743	51.41045	1
## 3738	0.21276082	51.58296	5
## 3739	-0.19562056	51.66238	2
## 3740	-0.12266768	51.46062	4
## 3741	0.08250620	51.59773	5
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## 3743	-0.16211228	51.55180	4
## 3744	-0.19562056	51.66238	2
## 3745	-0.30342843	51.51473	3
## 3746	-0.13704033	51.50553	4
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## 3750	0.03307815	51.53119	5
## 3751	-0.19514135	51.36602	4
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## 3755	-0.23053203	51.50705	4
## 3756	0.01400743	51.41045	1

## 3757	-0.21219045	51.41654	4
## 3758	-0.16211228	51.55180	4
## 3759	-0.45140058	51.54113	3
## 3760	-0.30342843	51.51473	3
## 3761	0.01003716	51.49328	1
## 3762	-0.11738716	51.66902	2
## 3763	-0.19246075	51.50498	4
## 3764	-0.02797504	51.52616	1
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## 3773	-0.09631794	51.38259	1
## 3774	-0.27106553	51.57616	3
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## 3776	-0.10215668	51.54494	4
## 3777	-0.30320903	51.46316	3
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## 3822	0.12988840	51.56167	5
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## 3824	-0.45140058	51.54113	3
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## 3840	0.15157167	51.44755	5
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## 3845	-0.23053203	51.50705	4
## 3846	-0.33994379	51.58901	3
## 3847	-0.21219045	51.41654	4
## 3848	-0.07450626	51.58104	2
## 3849	-0.19514135	51.36602	4
## 3850	-0.09631794	51.38259	1
## 3851	-0.10215668	51.54494	4
## 3852	0.01400743	51.41045	1
## 3853	0.03307815	51.53119	5
## 3854	-0.18901141	51.45894	4
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## 3856	-0.09631794	51.38259	1

## 3857	-0.08912003	51.51082	4
## 3858	-0.11461497	51.59851	2
## 3859	0.15157167	51.44755	5
## 3860	-0.11738716	51.66902	2
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## 3862	-0.01170935	51.44908	1
## 3863	-0.23053203	51.50705	4
## 3864	-0.12266768	51.46062	4
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## 3866	-0.45140058	51.54113	3
## 3867	0.08250620	51.59773	5
## 3868	-0.00902464	51.59495	5
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## 3900	-0.08912003	51.51082	4
## 3901	-0.00902464	51.59495	5
## 3902	-0.19246075	51.50498	4
## 3903	-0.11738716	51.66902	2
## 3904	-0.19514135	51.36602	4
## 3905	-0.12266768	51.46062	4
## 3906	-0.02797504	51.52616	1

## 3907	-0.37384439	51.46939	3
## 3908	-0.02797504	51.52616	1
## 3909	-0.19246075	51.50498	4
## 3910	-0.11738716	51.66902	2
## 3911	-0.11738716	51.66902	2
## 3912	-0.33994379	51.58901	3
## 3913	-0.11461497	51.59851	2
## 3914	-0.27106553	51.57616	3
## 3915	-0.13704033	51.50553	4
## 3916	-0.16211228	51.55180	4
## 3917	-0.00902464	51.59495	5
## 3918	-0.30138440	51.41824	3
## 3919	-0.10215668	51.54494	4
## 3920	-0.19562056	51.66238	2
## 3921	-0.01170935	51.44908	1
## 3922	-0.00902464	51.59495	5
## 3923	-0.16211228	51.55180	4
## 3924	-0.45140058	51.54113	3
## 3925	-0.11738716	51.66902	2
## 3926	-0.02797504	51.52616	1
## 3927	-0.30342843	51.51473	3
## 3928	-0.19514135	51.36602	4
## 3929	-0.21219045	51.41654	4
## 3930	-0.12266768	51.46062	4
## 3931	-0.00902464	51.59495	5
## 3932	-0.18901141	51.45894	4
## 3933	-0.12266768	51.46062	4
## 3934	-0.13704033	51.50553	4
## 3935	-0.16211228	51.55180	4
## 3936	-0.30320903	51.46316	3
## 3937	0.12988840	51.56167	5
## 3938	0.08250620	51.59773	5
## 3939	-0.13704033	51.50553	4
## 3940	-0.18901141	51.45894	4
## 3941	0.12988840	51.56167	5
## 3942	-0.00902464	51.59495	5
## 3943	-0.27106553	51.57616	3
## 3944	-0.12266768	51.46062	4
## 3945	-0.23053203	51.50705	4
## 3946	-0.19514135	51.36602	4
## 3947	-0.10215668	51.54494	4
## 3948	0.08250620	51.59773	5
## 3949	-0.18901141	51.45894	4
## 3950	-0.30342843	51.51473	3
## 3951	-0.13704033	51.50553	4
## 3952	-0.08912003	51.51082	4
## 3953	-0.45140058	51.54113	3
## 3954	-0.45140058	51.54113	3
## 3955	-0.45140058	51.54113	3
## 3956	-0.33994379	51.58901	3

## 3957	-0.10215668	51.54494	4
## 3958	-0.21219045	51.41654	4
## 3959	-0.13704033	51.50553	4
## 3960	0.21276082	51.58296	5
## 3961	-0.45140058	51.54113	3
## 3962	-0.45140058	51.54113	3
## 3963	-0.33994379	51.58901	3
## 3964	-0.09631794	51.38259	1
## 3965	-0.01170935	51.44908	1
## 3966	-0.07450626	51.58104	2
## 3967	-0.11461497	51.59851	2
## 3968	-0.33994379	51.58901	3
## 3969	-0.01170935	51.44908	1
## 3970	-0.27106553	51.57616	3
## 3971	-0.23053203	51.50705	4
## 3972	-0.10215668	51.54494	4
## 3973	-0.13704033	51.50553	4
## 3974	-0.02797504	51.52616	1
## 3975	0.03307815	51.53119	5
## 3976	0.01003716	51.49328	1
## 3977	-0.30138440	51.41824	3
## 3978	-0.09631794	51.38259	1
## 3979	-0.10215668	51.54494	4
## 3980	-0.18901141	51.45894	4
## 3981	-0.13704033	51.50553	4
## 3982	-0.07450626	51.58104	2
## 3983	0.01003716	51.49328	1
## 3984	-0.13704033	51.50553	4
## 3985	-0.11738716	51.66902	2
## 3986	-0.19562056	51.66238	2
## 3987	-0.19562056	51.66238	2
## 3988	-0.45140058	51.54113	3
## 3989	-0.01170935	51.44908	1
## 3990	-0.01170935	51.44908	1
## 3991	-0.07450626	51.58104	2
## 3992	-0.30342843	51.51473	3
## 3993	-0.16211228	51.55180	4
## 3994	-0.13704033	51.50553	4
## 3995	-0.30320903	51.46316	3
## 3996	-0.16211228	51.55180	4
## 3997	-0.18901141	51.45894	4
## 3998	-0.19562056	51.66238	2
## 3999	-0.30342843	51.51473	3
## 4000	-0.11738716	51.66902	2
## 4001	0.03307815	51.53119	5
## 4002	0.01003716	51.49328	1
## 4003	-0.13704033	51.50553	4
## 4004	-0.08912003	51.51082	4
## 4005	-0.00902464	51.59495	5
## 4006	-0.18901141	51.45894	4

## 4007	-0.18901141	51.45894	4
## 4008	-0.27106553	51.57616	3
## 4009	-0.19562056	51.66238	2
## 4010	-0.10215668	51.54494	4
## 4011	-0.45140058	51.54113	3
## 4012	-0.27106553	51.57616	3
## 4013	0.01400743	51.41045	1
## 4014	0.01003716	51.49328	1
## 4015	-0.30342843	51.51473	3
## 4016	-0.12266768	51.46062	4
## 4017	-0.11738716	51.66902	2
## 4018	-0.11461497	51.59851	2
## 4019	0.08250620	51.59773	5
## 4020	-0.11738716	51.66902	2
## 4021	-0.19562056	51.66238	2
## 4022	-0.19562056	51.66238	2
## 4023	-0.02797504	51.52616	1
## 4024	-0.09631794	51.38259	1
## 4025	-0.30342843	51.51473	3
## 4026	-0.37384439	51.46939	3
## 4027	-0.02797504	51.52616	1
## 4028	-0.11738716	51.66902	2
## 4029	-0.45140058	51.54113	3
## 4030	-0.30320903	51.46316	3
## 4031	-0.11461497	51.59851	2
## 4032	-0.30138440	51.41824	3
## 4033	0.03307815	51.53119	5
## 4034	-0.45140058	51.54113	3
## 4035	-0.09631794	51.38259	1
## 4036	-0.30138440	51.41824	3
## 4037	-0.30138440	51.41824	3
## 4038	0.21276082	51.58296	5
## 4039	-0.30138440	51.41824	3
## 4040	-0.19514135	51.36602	4
## 4041	-0.27106553	51.57616	3
## 4042	-0.18901141	51.45894	4
## 4043	0.01400743	51.41045	1
## 4044	-0.30138440	51.41824	3
## 4045	-0.00902464	51.59495	5
## 4046	-0.21219045	51.41654	4
## 4047	-0.30342843	51.51473	3
## 4048	-0.01170935	51.44908	1
## 4049	0.12988840	51.56167	5
## 4050	-0.11738716	51.66902	2
## 4051	-0.07450626	51.58104	2
## 4052	-0.13704033	51.50553	4
## 4053	-0.13704033	51.50553	4
## 4054	-0.33994379	51.58901	3
## 4055	-0.19562056	51.66238	2
## 4056	-0.19562056	51.66238	2

## 4057	0.01400743	51.41045	1
## 4058	-0.27106553	51.57616	3
## 4059	-0.08912003	51.51082	4
## 4060	0.15157167	51.44755	5
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## 4063	-0.11461497	51.59851	2
## 4064	-0.37384439	51.46939	3
## 4065	-0.00902464	51.59495	5
## 4066	-0.21219045	51.41654	4
## 4067	-0.30320903	51.46316	3
## 4068	-0.16211228	51.55180	4
## 4069	-0.30342843	51.51473	3
## 4070	-0.19246075	51.50498	4
## 4071	-0.13704033	51.50553	4
## 4072	-0.08912003	51.51082	4
## 4073	0.01400743	51.41045	1
## 4074	-0.30342843	51.51473	3
## 4075	-0.01170935	51.44908	1
## 4076	-0.30342843	51.51473	3
## 4077	0.03307815	51.53119	5
## 4078	0.12988840	51.56167	5
## 4079	-0.10215668	51.54494	4
## 4080	-0.30320903	51.46316	3
## 4081	0.15157167	51.44755	5
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## 4083	-0.02797504	51.52616	1
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## 4088	-0.19246075	51.50498	4
## 4089	-0.11738716	51.66902	2
## 4090	-0.27106553	51.57616	3
## 4091	-0.19514135	51.36602	4
## 4092	-0.30320903	51.46316	3
## 4093	-0.12266768	51.46062	4
## 4094	-0.18901141	51.45894	4
## 4095	-0.09631794	51.38259	1
## 4096	-0.19562056	51.66238	2
## 4097	-0.30342843	51.51473	3
## 4098	-0.30138440	51.41824	3
## 4099	-0.21219045	51.41654	4
## 4100	-0.08912003	51.51082	4
## 4101	-0.07450626	51.58104	2
## 4102	0.15157167	51.44755	5
## 4103	-0.23053203	51.50705	4
## 4104	-0.11738716	51.66902	2
## 4105	0.08250620	51.59773	5
## 4106	-0.33994379	51.58901	3

## 4107	-0.10215668	51.54494	4
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## 4109	0.01400743	51.41045	1
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## 4112	0.03307815	51.53119	5
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## 4117	0.01003716	51.49328	1
## 4118	-0.21219045	51.41654	4
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## 4120	0.21276082	51.58296	5
## 4121	-0.30138440	51.41824	3
## 4122	0.12988840	51.56167	5
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## 4175	-0.21219045	51.41654	4
## 4176	-0.10215668	51.54494	4
## 4177	-0.12266768	51.46062	4
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## 4179	-0.37384439	51.46939	3
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## 4240	-0.13704033	51.50553	4
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## 4246	-0.13704033	51.50553	4
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## 4249	0.01400743	51.41045	1
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## 4285	0.08250620	51.59773	5
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## 4300	-0.30320903	51.46316	3
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## 4323	0.08250620	51.59773	5
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## 4326	-0.19562056	51.66238	2
## 4327	-0.18901141	51.45894	4
## 4328	-0.21219045	51.41654	4
## 4329	-0.02797504	51.52616	1
## 4330	-0.45140058	51.54113	3
## 4331	-0.18901141	51.45894	4
## 4332	-0.12266768	51.46062	4
## 4333	-0.33994379	51.58901	3
## 4334	-0.30138440	51.41824	3
## 4335	-0.02797504	51.52616	1
## 4336	-0.19562056	51.66238	2
## 4337	-0.45140058	51.54113	3
## 4338	-0.37384439	51.46939	3
## 4339	-0.19246075	51.50498	4
## 4340	0.21276082	51.58296	5
## 4341	-0.18901141	51.45894	4
## 4342	0.21276082	51.58296	5
## 4343	-0.11738716	51.66902	2
## 4344	-0.23053203	51.50705	4
## 4345	-0.19514135	51.36602	4
## 4346	0.15157167	51.44755	5
## 4347	-0.45140058	51.54113	3
## 4348	-0.30342843	51.51473	3
## 4349	-0.00902464	51.59495	5
## 4350	-0.18901141	51.45894	4
## 4351	0.12988840	51.56167	5
## 4352	-0.07450626	51.58104	2
## 4353	-0.30342843	51.51473	3
## 4354	-0.45140058	51.54113	3
## 4355	-0.13704033	51.50553	4
## 4356	-0.02797504	51.52616	1
## 4357	-0.02797504	51.52616	1
## 4358	0.01003716	51.49328	1
## 4359	-0.27106553	51.57616	3

## 4360	-0.11738716	51.66902	2
## 4361	-0.01170935	51.44908	1
## 4362	0.12988840	51.56167	5
## 4363	-0.13704033	51.50553	4
## 4364	-0.13704033	51.50553	4
## 4365	-0.11738716	51.66902	2
## 4366	-0.45140058	51.54113	3
## 4367	-0.07450626	51.58104	2
## 4368	-0.19562056	51.66238	2
## 4369	0.21276082	51.58296	5
## 4370	-0.23053203	51.50705	4
## 4371	-0.19514135	51.36602	4
## 4372	0.08250620	51.59773	5
## 4373	-0.30342843	51.51473	3
## 4374	-0.13704033	51.50553	4
## 4375	-0.01170935	51.44908	1
## 4376	-0.30138440	51.41824	3
## 4377	-0.21219045	51.41654	4
## 4378	-0.00902464	51.59495	5
## 4379	0.01400743	51.41045	1
## 4380	-0.00902464	51.59495	5
## 4381	0.12988840	51.56167	5
## 4382	-0.12266768	51.46062	4
## 4383	0.03307815	51.53119	5
## 4384	-0.09631794	51.38259	1
## 4385	-0.11461497	51.59851	2
## 4386	-0.30138440	51.41824	3
## 4387	-0.30320903	51.46316	3
## 4388	-0.11461497	51.59851	2
## 4389	-0.13704033	51.50553	4
## 4390	-0.08912003	51.51082	4
## 4391	0.01400743	51.41045	1
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## 4393	-0.09631794	51.38259	1
## 4394	-0.18901141	51.45894	4
## 4395	-0.30320903	51.46316	3
## 4396	-0.19246075	51.50498	4
## 4397	0.03307815	51.53119	5
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## 4399	-0.12266768	51.46062	4
## 4400	0.15157167	51.44755	5
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## 4405	-0.21219045	51.41654	4
## 4406	-0.13704033	51.50553	4
## 4407	0.15157167	51.44755	5
## 4408	-0.23053203	51.50705	4
## 4409	-0.37384439	51.46939	3

## 4410	0.08250620	51.59773	5
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## 4412	-0.18901141	51.45894	4
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## 4414	-0.11738716	51.66902	2
## 4415	-0.10215668	51.54494	4
## 4416	-0.13704033	51.50553	4
## 4417	-0.19562056	51.66238	2
## 4418	-0.30138440	51.41824	3
## 4419	-0.02797504	51.52616	1
## 4420	-0.08912003	51.51082	4
## 4421	-0.11461497	51.59851	2
## 4422	0.01400743	51.41045	1
## 4423	-0.02797504	51.52616	1
## 4424	-0.37384439	51.46939	3
## 4425	-0.30342843	51.51473	3
## 4426	-0.09631794	51.38259	1
## 4427	-0.07450626	51.58104	2
## 4428	0.08250620	51.59773	5
## 4429	0.03307815	51.53119	5
## 4430	-0.19514135	51.36602	4
## 4431	-0.37384439	51.46939	3
## 4432	-0.45140058	51.54113	3
## 4433	-0.18901141	51.45894	4
## 4434	0.01400743	51.41045	1
## 4435	0.01003716	51.49328	1
## 4436	0.08250620	51.59773	5
## 4437	-0.09631794	51.38259	1
## 4438	-0.11738716	51.66902	2
## 4439	-0.30138440	51.41824	3
## 4440	0.03307815	51.53119	5
## 4441	-0.33994379	51.58901	3
## 4442	-0.37384439	51.46939	3
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## 4444	-0.16211228	51.55180	4
## 4445	-0.27106553	51.57616	3
## 4446	-0.01170935	51.44908	1
## 4447	-0.30342843	51.51473	3
## 4448	-0.19246075	51.50498	4
## 4449	-0.02797504	51.52616	1
## 4450	-0.13704033	51.50553	4
## 4451	-0.00902464	51.59495	5
## 4452	-0.13704033	51.50553	4
## 4453	-0.30320903	51.46316	3
## 4454	0.03307815	51.53119	5
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## 4457	-0.02797504	51.52616	1
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## 4466	-0.30342843	51.51473	3
## 4467	-0.01170935	51.44908	1
## 4468	-0.07450626	51.58104	2
## 4469	0.03307815	51.53119	5
## 4470	-0.21219045	51.41654	4
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## 4476	-0.07450626	51.58104	2
## 4477	0.08250620	51.59773	5
## 4478	-0.01170935	51.44908	1
## 4479	0.01400743	51.41045	1
## 4480	-0.10215668	51.54494	4
## 4481	-0.16211228	51.55180	4
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## 4500	0.08250620	51.59773	5
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## 4503	-0.11738716	51.66902	2
## 4504	-0.09631794	51.38259	1
## 4505	-0.01170935	51.44908	1
## 4506	-0.27106553	51.57616	3
## 4507	-0.07450626	51.58104	2
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## 4509	0.03307815	51.53119	5

## 4510	0.03307815	51.53119	5
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## 4513	-0.16211228	51.55180	4
## 4514	-0.12266768	51.46062	4
## 4515	-0.33994379	51.58901	3
## 4516	-0.19562056	51.66238	2
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## 4518	-0.12266768	51.46062	4
## 4519	0.21276082	51.58296	5
## 4520	-0.21219045	51.41654	4
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## 4567	-0.11738716	51.66902	2
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## 4625	-0.18901141	51.45894	4
## 4626	0.15157167	51.44755	5
## 4627	-0.23053203	51.50705	4
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## 4629	-0.27106553	51.57616	3
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## 4632	-0.21219045	51.41654	4
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## 4634	-0.10215668	51.54494	4
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## 4649	-0.27106553	51.57616	3
## 4650	-0.30342843	51.51473	3
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## 4683	-0.45140058	51.54113	3
## 4684	0.15157167	51.44755	5
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## 4691	0.15157167	51.44755	5
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## 4707	-0.10215668	51.54494	4
## 4708	-0.12266768	51.46062	4
## 4709	-0.18901141	51.45894	4

## 4710	-0.01170935	51.44908	1
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## 4712	0.01003716	51.49328	1
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## 4733	-0.18901141	51.45894	4
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## 4735	0.03307815	51.53119	5
## 4736	-0.37384439	51.46939	3
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## 4746	-0.02797504	51.52616	1
## 4747	-0.30342843	51.51473	3
## 4748	-0.45140058	51.54113	3
## 4749	0.21276082	51.58296	5
## 4750	0.01400743	51.41045	1
## 4751	-0.18901141	51.45894	4
## 4752	-0.45140058	51.54113	3
## 4753	-0.18901141	51.45894	4
## 4754	-0.30138440	51.41824	3
## 4755	-0.08912003	51.51082	4
## 4756	-0.12266768	51.46062	4
## 4757	-0.09631794	51.38259	1
## 4758	-0.16211228	51.55180	4
## 4759	-0.01170935	51.44908	1

## 4760	-0.33994379	51.58901	3
## 4761	-0.30342843	51.51473	3
## 4762	-0.18901141	51.45894	4
## 4763	-0.30342843	51.51473	3
## 4764	-0.13704033	51.50553	4
## 4765	-0.09631794	51.38259	1
## 4766	0.01003716	51.49328	1
## 4767	-0.30342843	51.51473	3
## 4768	0.15157167	51.44755	5
## 4769	-0.19562056	51.66238	2
## 4770	-0.30342843	51.51473	3
## 4771	-0.30138440	51.41824	3
## 4772	-0.21219045	51.41654	4
## 4773	-0.16211228	51.55180	4
## 4774	-0.10215668	51.54494	4
## 4775	0.12988840	51.56167	5
## 4776	-0.11738716	51.66902	2
## 4777	-0.12266768	51.46062	4
## 4778	-0.30342843	51.51473	3
## 4779	-0.45140058	51.54113	3
## 4780	0.01400743	51.41045	1
## 4781	0.03307815	51.53119	5
## 4782	-0.21219045	51.41654	4
## 4783	-0.19562056	51.66238	2
## 4784	-0.11461497	51.59851	2
## 4785	-0.23053203	51.50705	4
## 4786	-0.27106553	51.57616	3
## 4787	0.21276082	51.58296	5
## 4788	-0.13704033	51.50553	4
## 4789	-0.13704033	51.50553	4
## 4790	0.01400743	51.41045	1
## 4791	-0.10215668	51.54494	4
## 4792	-0.18901141	51.45894	4
## 4793	-0.02797504	51.52616	1
## 4794	0.21276082	51.58296	5
## 4795	0.21276082	51.58296	5
## 4796	0.01400743	51.41045	1
## 4797	-0.12266768	51.46062	4
## 4798	-0.11738716	51.66902	2
## 4799	-0.37384439	51.46939	3
## 4800	-0.11738716	51.66902	2
## 4801	-0.19514135	51.36602	4
## 4802	-0.21219045	51.41654	4
## 4803	-0.10215668	51.54494	4
## 4804	-0.11738716	51.66902	2
## 4805	0.15157167	51.44755	5
## 4806	-0.19514135	51.36602	4
## 4807	-0.45140058	51.54113	3
## 4808	-0.19514135	51.36602	4
## 4809	-0.02797504	51.52616	1

## 4810	-0.11738716	51.66902	2
## 4811	-0.19246075	51.50498	4
## 4812	-0.11738716	51.66902	2
## 4813	-0.30342843	51.51473	3
## 4814	-0.27106553	51.57616	3
## 4815	-0.30342843	51.51473	3
## 4816	-0.00902464	51.59495	5
## 4817	-0.11738716	51.66902	2
## 4818	-0.13704033	51.50553	4
## 4819	-0.27106553	51.57616	3
## 4820	-0.07450626	51.58104	2
## 4821	-0.23053203	51.50705	4
## 4822	0.01003716	51.49328	1
## 4823	-0.00902464	51.59495	5
## 4824	-0.09631794	51.38259	1
## 4825	-0.33994379	51.58901	3
## 4826	-0.33994379	51.58901	3
## 4827	-0.33994379	51.58901	3
## 4828	-0.19562056	51.66238	2
## 4829	0.01003716	51.49328	1
## 4830	-0.33994379	51.58901	3
## 4831	-0.37384439	51.46939	3
## 4832	0.12988840	51.56167	5
## 4833	-0.45140058	51.54113	3
## 4834	-0.30320903	51.46316	3
## 4835	-0.07450626	51.58104	2
## 4836	-0.33994379	51.58901	3
## 4837	-0.33994379	51.58901	3
## 4838	-0.30138440	51.41824	3
## 4839	0.12988840	51.56167	5
## 4840	-0.33994379	51.58901	3
## 4841	0.01400743	51.41045	1
## 4842	-0.27106553	51.57616	3
## 4843	-0.27106553	51.57616	3
## 4844	-0.18901141	51.45894	4
## 4845	-0.02797504	51.52616	1
## 4846	-0.09631794	51.38259	1
## 4847	-0.01170935	51.44908	1
## 4848	-0.23053203	51.50705	4
## 4849	0.08250620	51.59773	5
## 4850	0.12988840	51.56167	5
## 4851	-0.13704033	51.50553	4
## 4852	-0.45140058	51.54113	3
## 4853	-0.12266768	51.46062	4
## 4854	-0.01170935	51.44908	1
## 4855	-0.21219045	51.41654	4
## 4856	-0.27106553	51.57616	3
## 4857	-0.18901141	51.45894	4
## 4858	-0.30342843	51.51473	3
## 4859	0.03307815	51.53119	5

## 4860	-0.30320903	51.46316	3
## 4861	-0.01170935	51.44908	1
## 4862	-0.33994379	51.58901	3
## 4863	-0.09631794	51.38259	1
## 4864	-0.12266768	51.46062	4
## 4865	0.01003716	51.49328	1
## 4866	-0.30320903	51.46316	3
## 4867	-0.37384439	51.46939	3
## 4868	-0.11461497	51.59851	2
## 4869	0.15157167	51.44755	5
## 4870	-0.11461497	51.59851	2
## 4871	0.12988840	51.56167	5
## 4872	-0.19562056	51.66238	2
## 4873	-0.30342843	51.51473	3
## 4874	0.01003716	51.49328	1
## 4875	-0.01170935	51.44908	1
## 4876	-0.08912003	51.51082	4
## 4877	-0.01170935	51.44908	1
## 4878	-0.45140058	51.54113	3
## 4879	-0.19514135	51.36602	4
## 4880	-0.19246075	51.50498	4
## 4881	-0.11461497	51.59851	2
## 4882	-0.02797504	51.52616	1
## 4883	-0.12266768	51.46062	4
## 4884	-0.10215668	51.54494	4
## 4885	-0.11461497	51.59851	2
## 4886	-0.12266768	51.46062	4
## 4887	0.03307815	51.53119	5
## 4888	-0.10215668	51.54494	4
## 4889	-0.18901141	51.45894	4
## 4890	-0.45140058	51.54113	3
## 4891	-0.27106553	51.57616	3
## 4892	-0.37384439	51.46939	3
## 4893	0.01003716	51.49328	1
## 4894	-0.23053203	51.50705	4
## 4895	-0.37384439	51.46939	3
## 4896	0.15157167	51.44755	5
## 4897	-0.08912003	51.51082	4
## 4898	-0.11738716	51.66902	2
## 4899	-0.21219045	51.41654	4
## 4900	0.03307815	51.53119	5
## 4901	-0.21219045	51.41654	4
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## 4903	-0.09631794	51.38259	1
## 4904	-0.30342843	51.51473	3
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## 4908	-0.30342843	51.51473	3
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## 4910	-0.19246075	51.50498	4
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## 4916	-0.23053203	51.50705	4
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## 4918	-0.19514135	51.36602	4
## 4919	-0.30138440	51.41824	3
## 4920	-0.00902464	51.59495	5
## 4921	0.21276082	51.58296	5
## 4922	-0.30138440	51.41824	3
## 4923	-0.19562056	51.66238	2
## 4924	-0.11738716	51.66902	2
## 4925	0.01400743	51.41045	1
## 4926	-0.18901141	51.45894	4
## 4927	0.01003716	51.49328	1
## 4928	-0.02797504	51.52616	1
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## 4930	-0.37384439	51.46939	3
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## 4933	-0.00902464	51.59495	5
## 4934	-0.37384439	51.46939	3
## 4935	-0.30342843	51.51473	3
## 4936	-0.11738716	51.66902	2
## 4937	0.01003716	51.49328	1
## 4938	-0.19562056	51.66238	2
## 4939	0.21276082	51.58296	5
## 4940	-0.10215668	51.54494	4
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## 4942	0.15157167	51.44755	5
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## 4948	-0.33994379	51.58901	3
## 4949	-0.08912003	51.51082	4
## 4950	-0.09631794	51.38259	1
## 4951	-0.12266768	51.46062	4
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## 4965	-0.09631794	51.38259	1
## 4966	-0.23053203	51.50705	4
## 4967	-0.10215668	51.54494	4
## 4968	-0.07450626	51.58104	2
## 4969	-0.30320903	51.46316	3
## 4970	0.03307815	51.53119	5
## 4971	0.01400743	51.41045	1
## 4972	0.08250620	51.59773	5
## 4973	-0.10215668	51.54494	4
## 4974	0.15157167	51.44755	5
## 4975	-0.12266768	51.46062	4
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## 4979	-0.11461497	51.59851	2
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## 4982	-0.21219045	51.41654	4
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## 4993	-0.23053203	51.50705	4
## 4994	0.21276082	51.58296	5
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## 4999	0.08250620	51.59773	5
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## 5001	-0.01170935	51.44908	1
## 5002	0.01003716	51.49328	1
## 5003	-0.07450626	51.58104	2
## 5004	-0.27106553	51.57616	3
## 5005	-0.30138440	51.41824	3
## 5006	-0.13704033	51.50553	4
## 5007	-0.45140058	51.54113	3
## 5008	0.03307815	51.53119	5
## 5009	-0.19562056	51.66238	2

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## 5019	-0.07450626	51.58104	2
## 5020	0.08250620	51.59773	5
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## 5048	-0.30342843	51.51473	3
## 5049	-0.37384439	51.46939	3
## 5050	0.12988840	51.56167	5
## 5051	-0.00902464	51.59495	5
## 5052	-0.37384439	51.46939	3
## 5053	0.15157167	51.44755	5
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## 5059	0.12988840	51.56167	5

## 5060	-0.01170935	51.44908	1
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## 5063	0.01003716	51.49328	1
## 5064	-0.12266768	51.46062	4
## 5065	-0.27106553	51.57616	3
## 5066	-0.37384439	51.46939	3
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## 5068	-0.30342843	51.51473	3
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## 5073	-0.12266768	51.46062	4
## 5074	-0.45140058	51.54113	3
## 5075	-0.19562056	51.66238	2
## 5076	-0.33994379	51.58901	3
## 5077	-0.11738716	51.66902	2
## 5078	-0.07450626	51.58104	2
## 5079	-0.19562056	51.66238	2
## 5080	0.01003716	51.49328	1
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## 5088	0.01400743	51.41045	1
## 5089	-0.11738716	51.66902	2
## 5090	-0.21219045	51.41654	4
## 5091	-0.21219045	51.41654	4
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## 5125	-0.10215668	51.54494	4
## 5126	0.15157167	51.44755	5
## 5127	-0.08912003	51.51082	4
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## 5129	-0.11738716	51.66902	2
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## 5133	0.03307815	51.53119	5
## 5134	-0.07450626	51.58104	2
## 5135	-0.23053203	51.50705	4
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## 5139	-0.16211228	51.55180	4
## 5140	-0.12266768	51.46062	4
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## 5146	-0.27106553	51.57616	3
## 5147	0.08250620	51.59773	5
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## 5170	-0.37384439	51.46939	3
## 5171	-0.13704033	51.50553	4
## 5172	-0.10215668	51.54494	4
## 5173	0.03307815	51.53119	5
## 5174	-0.11461497	51.59851	2
## 5175	-0.30342843	51.51473	3
## 5176	-0.01170935	51.44908	1
## 5177	-0.01170935	51.44908	1
## 5178	0.01003716	51.49328	1
## 5179	-0.11738716	51.66902	2
## 5180	0.01003716	51.49328	1
## 5181	-0.01170935	51.44908	1
## 5182	-0.18901141	51.45894	4
## 5183	-0.21219045	51.41654	4
## 5184	-0.30342843	51.51473	3
## 5185	-0.01170935	51.44908	1
## 5186	0.01400743	51.41045	1
## 5187	0.12988840	51.56167	5
## 5188	0.03307815	51.53119	5
## 5189	-0.11461497	51.59851	2
## 5190	-0.19562056	51.66238	2
## 5191	0.03307815	51.53119	5
## 5192	-0.30342843	51.51473	3
## 5193	-0.10215668	51.54494	4
## 5194	-0.13704033	51.50553	4
## 5195	-0.18901141	51.45894	4
## 5196	0.15157167	51.44755	5
## 5197	-0.30320903	51.46316	3
## 5198	-0.19562056	51.66238	2
## 5199	-0.19562056	51.66238	2
## 5200	-0.19514135	51.36602	4
## 5201	-0.37384439	51.46939	3
## 5202	-0.30138440	51.41824	3
## 5203	-0.21219045	51.41654	4
## 5204	-0.30342843	51.51473	3
## 5205	-0.27106553	51.57616	3
## 5206	-0.09631794	51.38259	1
## 5207	-0.30342843	51.51473	3
## 5208	-0.12266768	51.46062	4
## 5209	-0.16211228	51.55180	4

## 5210	0.03307815	51.53119	5
## 5211	-0.27106553	51.57616	3
## 5212	-0.33994379	51.58901	3
## 5213	-0.45140058	51.54113	3
## 5214	-0.18901141	51.45894	4
## 5215	-0.27106553	51.57616	3
## 5216	-0.09631794	51.38259	1
## 5217	-0.01170935	51.44908	1
## 5218	0.01400743	51.41045	1
## 5219	-0.13704033	51.50553	4
## 5220	0.03307815	51.53119	5
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## 5223	-0.01170935	51.44908	1
## 5224	-0.02797504	51.52616	1
## 5225	-0.33994379	51.58901	3
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## 5227	-0.11461497	51.59851	2
## 5228	-0.16211228	51.55180	4
## 5229	-0.23053203	51.50705	4
## 5230	-0.30342843	51.51473	3
## 5231	0.15157167	51.44755	5
## 5232	-0.19246075	51.50498	4
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## 5234	-0.07450626	51.58104	2
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## 5236	0.01400743	51.41045	1
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## 5238	-0.10215668	51.54494	4
## 5239	-0.12266768	51.46062	4
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## 5242	0.03307815	51.53119	5
## 5243	-0.19562056	51.66238	2
## 5244	-0.30320903	51.46316	3
## 5245	-0.27106553	51.57616	3
## 5246	0.03307815	51.53119	5
## 5247	0.15157167	51.44755	5
## 5248	-0.10215668	51.54494	4
## 5249	0.08250620	51.59773	5
## 5250	-0.16211228	51.55180	4
## 5251	-0.45140058	51.54113	3
## 5252	-0.09631794	51.38259	1
## 5253	-0.01170935	51.44908	1
## 5254	-0.07450626	51.58104	2
## 5255	-0.33994379	51.58901	3
## 5256	-0.21219045	51.41654	4
## 5257	0.01003716	51.49328	1
## 5258	-0.10215668	51.54494	4
## 5259	-0.00902464	51.59495	5

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## 5262	-0.30138440	51.41824	3
## 5263	-0.19562056	51.66238	2
## 5264	-0.02797504	51.52616	1
## 5265	-0.18901141	51.45894	4
## 5266	-0.37384439	51.46939	3
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## 5282	-0.27106553	51.57616	3
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## 5284	-0.00902464	51.59495	5
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## 5288	0.01400743	51.41045	1
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## 5290	-0.21219045	51.41654	4
## 5291	-0.12266768	51.46062	4
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## 5293	-0.37384439	51.46939	3
## 5294	-0.02797504	51.52616	1
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## 5297	-0.21219045	51.41654	4
## 5298	0.03307815	51.53119	5
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## 5309	-0.18901141	51.45894	4

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## 5369	-0.37384439	51.46939	3
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## 5464	0.03307815	51.53119	5
## 5465	-0.30342843	51.51473	3
## 5466	-0.16211228	51.55180	4
## 5467	0.08250620	51.59773	5
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## 5469	-0.37384439	51.46939	3
## 5470	-0.19562056	51.66238	2
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## 5472	-0.19246075	51.50498	4
## 5473	0.08250620	51.59773	5
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## 5475	-0.21219045	51.41654	4
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## 5487	-0.27106553	51.57616	3
## 5488	-0.45140058	51.54113	3
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## 5502	0.08250620	51.59773	5
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## 5530	-0.10215668	51.54494	4
## 5531	-0.12266768	51.46062	4
## 5532	0.21276082	51.58296	5
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## 5540	-0.01170935	51.44908	1
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## 5546	-0.10215668	51.54494	4
## 5547	0.01003716	51.49328	1
## 5548	0.15157167	51.44755	5
## 5549	-0.33994379	51.58901	3
## 5550	-0.19562056	51.66238	2
## 5551	-0.30138440	51.41824	3
## 5552	-0.23053203	51.50705	4
## 5553	0.15157167	51.44755	5
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## 5590	0.08250620	51.59773	5
## 5591	-0.30342843	51.51473	3
## 5592	0.15157167	51.44755	5
## 5593	-0.45140058	51.54113	3
## 5594	-0.45140058	51.54113	3
## 5595	0.15157167	51.44755	5
## 5596	-0.16211228	51.55180	4
## 5597	-0.12266768	51.46062	4
## 5598	-0.45140058	51.54113	3
## 5599	-0.16211228	51.55180	4
## 5600	-0.19562056	51.66238	2
## 5601	-0.19562056	51.66238	2
## 5602	-0.23053203	51.50705	4
## 5603	-0.18901141	51.45894	4
## 5604	-0.01170935	51.44908	1
## 5605	-0.08912003	51.51082	4
## 5606	-0.18901141	51.45894	4
## 5607	-0.13704033	51.50553	4
## 5608	0.15157167	51.44755	5
## 5609	-0.33994379	51.58901	3
## 5610	-0.09631794	51.38259	1

## 5611	-0.30138440	51.41824	3
## 5612	-0.33994379	51.58901	3
## 5613	0.01003716	51.49328	1
## 5614	0.08250620	51.59773	5
## 5615	-0.37384439	51.46939	3
## 5616	0.03307815	51.53119	5
## 5617	-0.13704033	51.50553	4
## 5618	-0.00902464	51.59495	5
## 5619	-0.30138440	51.41824	3
## 5620	-0.18901141	51.45894	4
## 5621	-0.27106553	51.57616	3
## 5622	-0.08912003	51.51082	4
## 5623	-0.01170935	51.44908	1
## 5624	-0.33994379	51.58901	3
## 5625	-0.09631794	51.38259	1
## 5626	-0.27106553	51.57616	3
## 5627	-0.30342843	51.51473	3
## 5628	-0.45140058	51.54113	3
## 5629	0.01003716	51.49328	1
## 5630	-0.30320903	51.46316	3
## 5631	-0.08912003	51.51082	4
## 5632	-0.27106553	51.57616	3
## 5633	-0.27106553	51.57616	3
## 5634	-0.30342843	51.51473	3
## 5635	-0.10215668	51.54494	4
## 5636	0.08250620	51.59773	5
## 5637	-0.11461497	51.59851	2
## 5638	-0.16211228	51.55180	4
## 5639	-0.19562056	51.66238	2
## 5640	-0.09631794	51.38259	1
## 5641	-0.16211228	51.55180	4
## 5642	-0.11738716	51.66902	2
## 5643	-0.37384439	51.46939	3
## 5644	-0.33994379	51.58901	3
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## 5646	-0.27106553	51.57616	3
## 5647	-0.00902464	51.59495	5
## 5648	0.15157167	51.44755	5
## 5649	-0.37384439	51.46939	3
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## 5652	-0.09631794	51.38259	1
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## 5657	-0.11738716	51.66902	2
## 5658	-0.08912003	51.51082	4
## 5659	-0.11461497	51.59851	2
## 5660	0.08250620	51.59773	5

## 5661	-0.11738716	51.66902	2
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## 5664	0.12988840	51.56167	5
## 5665	-0.13704033	51.50553	4
## 5666	-0.11738716	51.66902	2
## 5667	-0.30342843	51.51473	3
## 5668	-0.08912003	51.51082	4
## 5669	-0.30138440	51.41824	3
## 5670	-0.45140058	51.54113	3
## 5671	-0.27106553	51.57616	3
## 5672	-0.09631794	51.38259	1
## 5673	-0.19562056	51.66238	2
## 5674	0.01400743	51.41045	1
## 5675	-0.33994379	51.58901	3
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## 5677	-0.09631794	51.38259	1
## 5678	-0.19562056	51.66238	2
## 5679	-0.07450626	51.58104	2
## 5680	0.01003716	51.49328	1
## 5681	-0.13704033	51.50553	4
## 5682	-0.37384439	51.46939	3
## 5683	-0.16211228	51.55180	4
## 5684	-0.12266768	51.46062	4
## 5685	0.15157167	51.44755	5
## 5686	0.01400743	51.41045	1
## 5687	-0.23053203	51.50705	4
## 5688	-0.27106553	51.57616	3
## 5689	-0.07450626	51.58104	2
## 5690	-0.19562056	51.66238	2
## 5691	-0.08912003	51.51082	4
## 5692	-0.23053203	51.50705	4
## 5693	0.03307815	51.53119	5
## 5694	-0.09631794	51.38259	1
## 5695	0.12988840	51.56167	5
## 5696	-0.19246075	51.50498	4
## 5697	-0.21219045	51.41654	4
## 5698	0.01003716	51.49328	1
## 5699	-0.30342843	51.51473	3
## 5700	-0.45140058	51.54113	3
## 5701	0.21276082	51.58296	5
## 5702	-0.00902464	51.59495	5
## 5703	0.01400743	51.41045	1
## 5704	-0.23053203	51.50705	4
## 5705	-0.13704033	51.50553	4
## 5706	-0.19246075	51.50498	4
## 5707	0.15157167	51.44755	5
## 5708	-0.19246075	51.50498	4
## 5709	-0.10215668	51.54494	4
## 5710	-0.33994379	51.58901	3

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## 5714	-0.08912003	51.51082	4
## 5715	-0.00902464	51.59495	5
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## 5717	-0.09631794	51.38259	1
## 5718	-0.19562056	51.66238	2
## 5719	-0.11461497	51.59851	2
## 5720	-0.30320903	51.46316	3
## 5721	0.08250620	51.59773	5
## 5722	-0.11738716	51.66902	2
## 5723	-0.02797504	51.52616	1
## 5724	-0.18901141	51.45894	4
## 5725	-0.12266768	51.46062	4
## 5726	-0.12266768	51.46062	4
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## 5730	0.08250620	51.59773	5
## 5731	-0.11461497	51.59851	2
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## 5735	-0.12266768	51.46062	4
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## 5737	0.03307815	51.53119	5
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## 5739	-0.33994379	51.58901	3
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## 5744	-0.30342843	51.51473	3
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## 5748	-0.19514135	51.36602	4
## 5749	0.01003716	51.49328	1
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## 5752	-0.10215668	51.54494	4
## 5753	-0.11738716	51.66902	2
## 5754	-0.45140058	51.54113	3
## 5755	-0.23053203	51.50705	4
## 5756	0.12988840	51.56167	5
## 5757	-0.12266768	51.46062	4
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## 5760	0.03307815	51.53119	5

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## 5768	-0.08912003	51.51082	4
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## 5771	0.03307815	51.53119	5
## 5772	-0.11738716	51.66902	2
## 5773	-0.30138440	51.41824	3
## 5774	-0.19562056	51.66238	2
## 5775	-0.37384439	51.46939	3
## 5776	-0.12266768	51.46062	4
## 5777	-0.33994379	51.58901	3
## 5778	-0.19514135	51.36602	4
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## 5803	0.21276082	51.58296	5
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## 5805	-0.27106553	51.57616	3
## 5806	-0.12266768	51.46062	4
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## 5808	-0.23053203	51.50705	4
## 5809	0.03307815	51.53119	5
## 5810	-0.11461497	51.59851	2

## 5811	0.01003716	51.49328	1
## 5812	-0.11738716	51.66902	2
## 5813	0.21276082	51.58296	5
## 5814	-0.12266768	51.46062	4
## 5815	0.15157167	51.44755	5
## 5816	-0.21219045	51.41654	4
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## 5818	0.21276082	51.58296	5
## 5819	0.01003716	51.49328	1
## 5820	0.03307815	51.53119	5
## 5821	-0.18901141	51.45894	4
## 5822	-0.30342843	51.51473	3
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## 5877	-0.33994379	51.58901	3
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## 5974	-0.02797504	51.52616	1
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## 5977	-0.11738716	51.66902	2
## 5978	0.08250620	51.59773	5
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## 5981	-0.07450626	51.58104	2
## 5982	-0.37384439	51.46939	3
## 5983	-0.09631794	51.38259	1
## 5984	0.01400743	51.41045	1
## 5985	-0.08912003	51.51082	4
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## 6004	-0.10215668	51.54494	4
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## 6006	-0.18901141	51.45894	4
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## 6012	-0.30342843	51.51473	3
## 6013	0.08250620	51.59773	5
## 6014	-0.18901141	51.45894	4
## 6015	-0.30320903	51.46316	3
## 6016	-0.19562056	51.66238	2
## 6017	-0.19246075	51.50498	4
## 6018	-0.30342843	51.51473	3
## 6019	-0.00902464	51.59495	5
## 6020	-0.02797504	51.52616	1
## 6021	-0.12266768	51.46062	4
## 6022	-0.19246075	51.50498	4
## 6023	0.01400743	51.41045	1
## 6024	-0.19562056	51.66238	2
## 6025	-0.30342843	51.51473	3
## 6026	-0.11461497	51.59851	2
## 6027	-0.19562056	51.66238	2
## 6028	-0.30342843	51.51473	3
## 6029	-0.30320903	51.46316	3
## 6030	-0.30320903	51.46316	3
## 6031	0.15157167	51.44755	5
## 6032	-0.19246075	51.50498	4
## 6033	-0.21219045	51.41654	4
## 6034	-0.08912003	51.51082	4
## 6035	-0.30342843	51.51473	3
## 6036	-0.00902464	51.59495	5
## 6037	0.08250620	51.59773	5
## 6038	0.15157167	51.44755	5
## 6039	-0.19562056	51.66238	2
## 6040	-0.11461497	51.59851	2
## 6041	0.01003716	51.49328	1
## 6042	-0.11738716	51.66902	2
## 6043	-0.07450626	51.58104	2
## 6044	-0.11738716	51.66902	2
## 6045	0.01003716	51.49328	1
## 6046	-0.23053203	51.50705	4
## 6047	-0.08912003	51.51082	4
## 6048	-0.16211228	51.55180	4
## 6049	-0.12266768	51.46062	4
## 6050	0.15157167	51.44755	5
## 6051	-0.12266768	51.46062	4
## 6052	-0.19514135	51.36602	4
## 6053	-0.18901141	51.45894	4
## 6054	-0.21219045	51.41654	4
## 6055	-0.37384439	51.46939	3
## 6056	-0.11461497	51.59851	2
## 6057	-0.30342843	51.51473	3
## 6058	-0.19246075	51.50498	4
## 6059	-0.02797504	51.52616	1
## 6060	0.01003716	51.49328	1

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## 6062	-0.09631794	51.38259	1
## 6063	-0.11738716	51.66902	2
## 6064	-0.27106553	51.57616	3
## 6065	0.12988840	51.56167	5
## 6066	-0.09631794	51.38259	1
## 6067	0.08250620	51.59773	5
## 6068	-0.11461497	51.59851	2
## 6069	0.03307815	51.53119	5
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## 6078	-0.18901141	51.45894	4
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## 6080	-0.23053203	51.50705	4
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## 6082	-0.09631794	51.38259	1
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## 6084	-0.02797504	51.52616	1
## 6085	-0.01170935	51.44908	1
## 6086	-0.00902464	51.59495	5
## 6087	-0.23053203	51.50705	4
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## 6093	-0.19562056	51.66238	2
## 6094	-0.12266768	51.46062	4
## 6095	0.08250620	51.59773	5
## 6096	-0.45140058	51.54113	3
## 6097	-0.18901141	51.45894	4
## 6098	-0.37384439	51.46939	3
## 6099	-0.02797504	51.52616	1
## 6100	-0.37384439	51.46939	3
## 6101	-0.23053203	51.50705	4
## 6102	-0.12266768	51.46062	4
## 6103	-0.13704033	51.50553	4
## 6104	-0.11461497	51.59851	2
## 6105	-0.13704033	51.50553	4
## 6106	-0.33994379	51.58901	3
## 6107	-0.11461497	51.59851	2
## 6108	-0.00902464	51.59495	5
## 6109	-0.18901141	51.45894	4
## 6110	0.01003716	51.49328	1

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## 6141	-0.19562056	51.66238	2
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## 6434	-0.18901141	51.45894	4
## 6435	0.03307815	51.53119	5
## 6436	-0.12266768	51.46062	4
## 6437	-0.30342843	51.51473	3
## 6438	-0.19562056	51.66238	2
## 6439	-0.19562056	51.66238	2
## 6440	-0.19246075	51.50498	4
## 6441	-0.07450626	51.58104	2
## 6442	-0.07450626	51.58104	2
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## 6445	0.15157167	51.44755	5
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## 6452	-0.13704033	51.50553	4
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## 6457	0.12988840	51.56167	5
## 6458	0.08250620	51.59773	5
## 6459	-0.09631794	51.38259	1
## 6460	-0.19562056	51.66238	2

## 6461	0.01003716	51.49328	1
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## 6463	-0.02797504	51.52616	1
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## 6468	-0.45140058	51.54113	3
## 6469	-0.30138440	51.41824	3
## 6470	-0.19562056	51.66238	2
## 6471	-0.11461497	51.59851	2
## 6472	-0.10215668	51.54494	4
## 6473	0.12988840	51.56167	5
## 6474	-0.00902464	51.59495	5
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## 6476	0.21276082	51.58296	5
## 6477	-0.30342843	51.51473	3
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## 6504	0.21276082	51.58296	5
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## 6514	-0.08912003	51.51082	4
## 6515	-0.12266768	51.46062	4
## 6516	0.12988840	51.56167	5
## 6517	-0.30320903	51.46316	3
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## 6525	-0.08912003	51.51082	4
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## 6536	-0.21219045	51.41654	4
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## 6560	-0.08912003	51.51082	4

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## 6857	-0.27106553	51.57616	3
## 6858	-0.11738716	51.66902	2
## 6859	-0.13704033	51.50553	4
## 6860	-0.00902464	51.59495	5
## 6861	-0.30320903	51.46316	3

## 6862	-0.21219045	51.41654	4
## 6863	-0.07450626	51.58104	2
## 6864	-0.19514135	51.36602	4
## 6865	-0.18901141	51.45894	4
## 6866	-0.02797504	51.52616	1
## 6867	-0.02797504	51.52616	1
## 6868	-0.11738716	51.66902	2
## 6869	-0.13704033	51.50553	4
## 6870	0.01400743	51.41045	1
## 6871	-0.23053203	51.50705	4
## 6872	-0.19562056	51.66238	2
## 6873	-0.30320903	51.46316	3
## 6874	0.21276082	51.58296	5
## 6875	-0.11461497	51.59851	2
## 6876	0.03307815	51.53119	5
## 6877	-0.13704033	51.50553	4
## 6878	-0.18901141	51.45894	4
## 6879	-0.23053203	51.50705	4
## 6880	-0.30342843	51.51473	3
## 6881	-0.08912003	51.51082	4
## 6882	0.01003716	51.49328	1
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## 6886	-0.11738716	51.66902	2
## 6887	-0.19514135	51.36602	4
## 6888	0.15157167	51.44755	5
## 6889	-0.16211228	51.55180	4
## 6890	-0.01170935	51.44908	1
## 6891	-0.02797504	51.52616	1
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## 6893	-0.30342843	51.51473	3
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## 6895	-0.01170935	51.44908	1
## 6896	0.21276082	51.58296	5
## 6897	-0.08912003	51.51082	4
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## 6899	0.08250620	51.59773	5
## 6900	-0.30342843	51.51473	3
## 6901	-0.02797504	51.52616	1
## 6902	0.01400743	51.41045	1
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## 6904	-0.45140058	51.54113	3
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## 6907	-0.11738716	51.66902	2
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## 6911	-0.21219045	51.41654	4

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## 6922	-0.16211228	51.55180	4
## 6923	-0.30138440	51.41824	3
## 6924	-0.19246075	51.50498	4
## 6925	-0.09631794	51.38259	1
## 6926	-0.37384439	51.46939	3
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## 6932	-0.27106553	51.57616	3
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## 6936	0.15157167	51.44755	5
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## 6946	-0.30342843	51.51473	3
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## 6958	-0.01170935	51.44908	1
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## 6977	-0.18901141	51.45894	4
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## 6981	-0.27106553	51.57616	3
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## 7276	-0.02797504	51.52616	1
## 7277	-0.33994379	51.58901	3
## 7278	-0.37384439	51.46939	3
## 7279	0.03307815	51.53119	5
## 7280	-0.30138440	51.41824	3
## 7281	-0.07450626	51.58104	2
## 7282	0.12988840	51.56167	5
## 7283	-0.19246075	51.50498	4
## 7284	-0.30138440	51.41824	3
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## 7286	-0.11461497	51.59851	2
## 7287	-0.45140058	51.54113	3
## 7288	-0.16211228	51.55180	4
## 7289	-0.13704033	51.50553	4
## 7290	-0.12266768	51.46062	4
## 7291	-0.07450626	51.58104	2
## 7292	-0.18901141	51.45894	4
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## 7294	-0.33994379	51.58901	3
## 7295	0.08250620	51.59773	5
## 7296	-0.21219045	51.41654	4
## 7297	-0.33994379	51.58901	3
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## 7301	-0.10215668	51.54494	4
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## 7309	-0.37384439	51.46939	3
## 7310	-0.11461497	51.59851	2
## 7311	-0.45140058	51.54113	3

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## 7314	0.03307815	51.53119	5
## 7315	0.03307815	51.53119	5
## 7316	0.08250620	51.59773	5
## 7317	-0.21219045	51.41654	4
## 7318	-0.08912003	51.51082	4
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## 7320	-0.30320903	51.46316	3
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## 7322	-0.27106553	51.57616	3
## 7323	-0.18901141	51.45894	4
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## 7338	-0.00902464	51.59495	5
## 7339	0.08250620	51.59773	5
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## 7344	-0.23053203	51.50705	4
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## 7392	-0.27106553	51.57616	3
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## 7427	-0.33994379	51.58901	3
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## 7697	0.08250620	51.59773	5
## 7698	-0.18901141	51.45894	4
## 7699	-0.09631794	51.38259	1
## 7700	-0.37384439	51.46939	3
## 7701	-0.30342843	51.51473	3
## 7702	-0.18901141	51.45894	4
## 7703	0.15157167	51.44755	5
## 7704	-0.11461497	51.59851	2
## 7705	-0.30320903	51.46316	3
## 7706	0.15157167	51.44755	5
## 7707	-0.08912003	51.51082	4
## 7708	-0.37384439	51.46939	3
## 7709	0.01400743	51.41045	1
## 7710	-0.37384439	51.46939	3
## 7711	-0.18901141	51.45894	4

## 7712	-0.30138440	51.41824	3
## 7713	0.01400743	51.41045	1
## 7714	-0.07450626	51.58104	2
## 7715	-0.37384439	51.46939	3
## 7716	-0.11738716	51.66902	2
## 7717	-0.19562056	51.66238	2
## 7718	-0.07450626	51.58104	2
## 7719	0.01400743	51.41045	1
## 7720	0.08250620	51.59773	5
## 7721	-0.19514135	51.36602	4
## 7722	-0.07450626	51.58104	2
## 7723	-0.01170935	51.44908	1
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## 7726	-0.01170935	51.44908	1
## 7727	-0.19514135	51.36602	4
## 7728	-0.37384439	51.46939	3
## 7729	0.15157167	51.44755	5
## 7730	-0.27106553	51.57616	3
## 7731	-0.19562056	51.66238	2
## 7732	-0.10215668	51.54494	4
## 7733	-0.11461497	51.59851	2
## 7734	-0.01170935	51.44908	1
## 7735	-0.18901141	51.45894	4
## 7736	-0.10215668	51.54494	4
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## 7738	-0.30342843	51.51473	3
## 7739	-0.01170935	51.44908	1
## 7740	-0.02797504	51.52616	1
## 7741	-0.09631794	51.38259	1
## 7742	-0.11738716	51.66902	2
## 7743	-0.30138440	51.41824	3
## 7744	-0.16211228	51.55180	4
## 7745	-0.11738716	51.66902	2
## 7746	-0.30342843	51.51473	3
## 7747	-0.21219045	51.41654	4
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## 7749	-0.27106553	51.57616	3
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## 7767	-0.00902464	51.59495	5
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## 7769	-0.27106553	51.57616	3
## 7770	-0.45140058	51.54113	3
## 7771	-0.37384439	51.46939	3
## 7772	-0.19246075	51.50498	4
## 7773	-0.21219045	51.41654	4
## 7774	-0.16211228	51.55180	4
## 7775	0.08250620	51.59773	5
## 7776	-0.19246075	51.50498	4
## 7777	-0.30342843	51.51473	3
## 7778	-0.27106553	51.57616	3
## 7779	-0.08912003	51.51082	4
## 7780	-0.19514135	51.36602	4
## 7781	-0.12266768	51.46062	4
## 7782	-0.30342843	51.51473	3
## 7783	-0.33994379	51.58901	3
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## 7785	-0.37384439	51.46939	3
## 7786	-0.45140058	51.54113	3
## 7787	0.15157167	51.44755	5
## 7788	-0.02797504	51.52616	1
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## 7796	-0.21219045	51.41654	4
## 7797	-0.11461497	51.59851	2
## 7798	-0.00902464	51.59495	5
## 7799	-0.13704033	51.50553	4
## 7800	-0.18901141	51.45894	4
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## 7804	-0.10215668	51.54494	4
## 7805	-0.09631794	51.38259	1
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## 7811	-0.33994379	51.58901	3

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## 7815	-0.27106553	51.57616	3
## 7816	-0.11738716	51.66902	2
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## 7818	-0.02797504	51.52616	1
## 7819	0.21276082	51.58296	5
## 7820	-0.11461497	51.59851	2
## 7821	-0.18901141	51.45894	4
## 7822	-0.08912003	51.51082	4
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## 7824	-0.19246075	51.50498	4
## 7825	-0.33994379	51.58901	3
## 7826	-0.45140058	51.54113	3
## 7827	-0.11461497	51.59851	2
## 7828	-0.12266768	51.46062	4
## 7829	-0.30342843	51.51473	3
## 7830	-0.10215668	51.54494	4
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## 7832	-0.12266768	51.46062	4
## 7833	-0.23053203	51.50705	4
## 7834	0.01003716	51.49328	1
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## 7837	-0.21219045	51.41654	4
## 7838	-0.13704033	51.50553	4
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## 7844	-0.27106553	51.57616	3
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## 8132	-0.08912003	51.51082	4
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## 8135	-0.00902464	51.59495	5
## 8136	0.12988840	51.56167	5
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## 8149	-0.16211228	51.55180	4
## 8150	0.01003716	51.49328	1
## 8151	-0.11738716	51.66902	2
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## 8160	0.03307815	51.53119	5
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## 8169	-0.08912003	51.51082	4
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## 8174	-0.19514135	51.36602	4
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## 8184	-0.16211228	51.55180	4
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## 8187	0.01400743	51.41045	1
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## 8211	0.01400743	51.41045	1

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## 8275	0.12988840	51.56167	5
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## 8539	-0.01170935	51.44908	1
## 8540	-0.11461497	51.59851	2
## 8541	-0.30342843	51.51473	3
## 8542	-0.30342843	51.51473	3
## 8543	-0.12266768	51.46062	4
## 8544	-0.33994379	51.58901	3
## 8545	-0.45140058	51.54113	3
## 8546	0.01400743	51.41045	1
## 8547	-0.23053203	51.50705	4
## 8548	0.03307815	51.53119	5
## 8549	-0.09631794	51.38259	1
## 8550	-0.27106553	51.57616	3
## 8551	0.01400743	51.41045	1
## 8552	0.01003716	51.49328	1
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## 8555	-0.16211228	51.55180	4
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## 8557	0.01400743	51.41045	1
## 8558	-0.16211228	51.55180	4
## 8559	-0.18901141	51.45894	4
## 8560	-0.09631794	51.38259	1
## 8561	-0.11461497	51.59851	2

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## 8564	-0.09631794	51.38259	1
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## 8566	0.01400743	51.41045	1
## 8567	-0.23053203	51.50705	4
## 8568	-0.45140058	51.54113	3
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## 8570	0.03307815	51.53119	5
## 8571	0.21276082	51.58296	5
## 8572	-0.19562056	51.66238	2
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## 8576	-0.27106553	51.57616	3
## 8577	-0.08912003	51.51082	4
## 8578	0.15157167	51.44755	5
## 8579	-0.19562056	51.66238	2
## 8580	-0.19562056	51.66238	2
## 8581	-0.30320903	51.46316	3
## 8582	-0.37384439	51.46939	3
## 8583	0.01400743	51.41045	1
## 8584	-0.18901141	51.45894	4
## 8585	-0.45140058	51.54113	3
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## 8587	-0.45140058	51.54113	3
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## 8594	0.12988840	51.56167	5
## 8595	0.03307815	51.53119	5
## 8596	0.12988840	51.56167	5
## 8597	-0.30138440	51.41824	3
## 8598	-0.09631794	51.38259	1
## 8599	-0.18901141	51.45894	4
## 8600	-0.19246075	51.50498	4
## 8601	-0.33994379	51.58901	3
## 8602	-0.08912003	51.51082	4
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## 8604	-0.13704033	51.50553	4
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## 8606	0.15157167	51.44755	5
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## 8609	-0.30138440	51.41824	3
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## 8611	-0.13704033	51.50553	4

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## 8613	-0.01170935	51.44908	1
## 8614	0.01400743	51.41045	1
## 8615	-0.13704033	51.50553	4
## 8616	-0.12266768	51.46062	4
## 8617	-0.09631794	51.38259	1
## 8618	-0.23053203	51.50705	4
## 8619	-0.09631794	51.38259	1
## 8620	-0.11461497	51.59851	2
## 8621	-0.30138440	51.41824	3
## 8622	-0.19562056	51.66238	2
## 8623	-0.30342843	51.51473	3
## 8624	-0.16211228	51.55180	4
## 8625	-0.00902464	51.59495	5
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## 8627	-0.00902464	51.59495	5
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## 8629	-0.30342843	51.51473	3
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## 8634	-0.08912003	51.51082	4
## 8635	-0.33994379	51.58901	3
## 8636	-0.27106553	51.57616	3
## 8637	-0.18901141	51.45894	4
## 8638	-0.01170935	51.44908	1
## 8639	-0.27106553	51.57616	3
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## 8643	-0.37384439	51.46939	3
## 8644	-0.19246075	51.50498	4
## 8645	-0.09631794	51.38259	1
## 8646	0.03307815	51.53119	5
## 8647	-0.23053203	51.50705	4
## 8648	-0.00902464	51.59495	5
## 8649	-0.01170935	51.44908	1
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## 8651	-0.30138440	51.41824	3
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## 8653	-0.23053203	51.50705	4
## 8654	-0.09631794	51.38259	1
## 8655	-0.30138440	51.41824	3
## 8656	-0.21219045	51.41654	4
## 8657	0.03307815	51.53119	5
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## 8659	-0.13704033	51.50553	4
## 8660	0.15157167	51.44755	5
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## 8667	-0.08912003	51.51082	4
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## 8672	-0.01170935	51.44908	1
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## 8683	-0.07450626	51.58104	2
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## 8685	-0.07450626	51.58104	2
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## 8959	-0.10215668	51.54494	4
## 8960	-0.11738716	51.66902	2
## 8961	0.15157167	51.44755	5

## 8962	0.12988840	51.56167	5
## 8963	-0.07450626	51.58104	2
## 8964	-0.11461497	51.59851	2
## 8965	-0.00902464	51.59495	5
## 8966	0.01003716	51.49328	1
## 8967	-0.19562056	51.66238	2
## 8968	-0.07450626	51.58104	2
## 8969	-0.13704033	51.50553	4
## 8970	0.01003716	51.49328	1
## 8971	-0.00902464	51.59495	5
## 8972	-0.23053203	51.50705	4
## 8973	0.08250620	51.59773	5
## 8974	-0.45140058	51.54113	3
## 8975	-0.00902464	51.59495	5
## 8976	-0.23053203	51.50705	4
## 8977	-0.09631794	51.38259	1
## 8978	0.08250620	51.59773	5
## 8979	-0.01170935	51.44908	1
## 8980	-0.18901141	51.45894	4
## 8981	0.01003716	51.49328	1
## 8982	-0.30138440	51.41824	3
## 8983	-0.33994379	51.58901	3
## 8984	-0.12266768	51.46062	4
## 8985	-0.11461497	51.59851	2
## 8986	-0.11738716	51.66902	2
## 8987	-0.13704033	51.50553	4
## 8988	-0.12266768	51.46062	4
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## 8990	0.01400743	51.41045	1
## 8991	-0.12266768	51.46062	4
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## 8993	-0.00902464	51.59495	5
## 8994	-0.11461497	51.59851	2
## 8995	-0.12266768	51.46062	4
## 8996	-0.19514135	51.36602	4
## 8997	-0.12266768	51.46062	4
## 8998	-0.19246075	51.50498	4
## 8999	-0.02797504	51.52616	1
## 9000	-0.23053203	51.50705	4
## 9001	-0.19562056	51.66238	2
## 9002	-0.01170935	51.44908	1
## 9003	-0.27106553	51.57616	3
## 9004	0.01400743	51.41045	1
## 9005	-0.07450626	51.58104	2
## 9006	-0.21219045	51.41654	4
## 9007	-0.21219045	51.41654	4
## 9008	-0.19514135	51.36602	4
## 9009	-0.19246075	51.50498	4
## 9010	-0.18901141	51.45894	4
## 9011	-0.18901141	51.45894	4

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## 9015	-0.11461497	51.59851	2
## 9016	-0.00902464	51.59495	5
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## 9018	0.03307815	51.53119	5
## 9019	-0.11461497	51.59851	2
## 9020	-0.11738716	51.66902	2
## 9021	0.12988840	51.56167	5
## 9022	-0.23053203	51.50705	4
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## 9025	-0.23053203	51.50705	4
## 9026	-0.08912003	51.51082	4
## 9027	-0.09631794	51.38259	1
## 9028	-0.00902464	51.59495	5
## 9029	-0.45140058	51.54113	3
## 9030	-0.27106553	51.57616	3
## 9031	0.15157167	51.44755	5
## 9032	-0.45140058	51.54113	3
## 9033	-0.01170935	51.44908	1
## 9034	-0.19562056	51.66238	2
## 9035	-0.19514135	51.36602	4
## 9036	-0.30342843	51.51473	3
## 9037	-0.33994379	51.58901	3
## 9038	-0.45140058	51.54113	3
## 9039	0.12988840	51.56167	5
## 9040	-0.37384439	51.46939	3
## 9041	-0.18901141	51.45894	4
## 9042	-0.11738716	51.66902	2
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## 9045	-0.12266768	51.46062	4
## 9046	-0.37384439	51.46939	3
## 9047	0.03307815	51.53119	5
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## 9049	0.15157167	51.44755	5
## 9050	-0.09631794	51.38259	1
## 9051	-0.23053203	51.50705	4
## 9052	-0.11461497	51.59851	2
## 9053	-0.45140058	51.54113	3
## 9054	-0.19562056	51.66238	2
## 9055	0.01400743	51.41045	1
## 9056	-0.02797504	51.52616	1
## 9057	-0.33994379	51.58901	3
## 9058	-0.45140058	51.54113	3
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## 9060	-0.30320903	51.46316	3
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## 9065	-0.27106553	51.57616	3
## 9066	-0.18901141	51.45894	4
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## 9072	-0.21219045	51.41654	4
## 9073	0.08250620	51.59773	5
## 9074	-0.37384439	51.46939	3
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## 9076	-0.30320903	51.46316	3
## 9077	-0.18901141	51.45894	4
## 9078	-0.33994379	51.58901	3
## 9079	0.15157167	51.44755	5
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## 9081	-0.30342843	51.51473	3
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## 9084	0.01400743	51.41045	1
## 9085	-0.07450626	51.58104	2
## 9086	-0.13704033	51.50553	4
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## 9091	-0.19562056	51.66238	2
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## 9094	-0.00902464	51.59495	5
## 9095	-0.16211228	51.55180	4
## 9096	-0.45140058	51.54113	3
## 9097	-0.19562056	51.66238	2
## 9098	0.03307815	51.53119	5
## 9099	-0.23053203	51.50705	4
## 9100	-0.19246075	51.50498	4
## 9101	0.21276082	51.58296	5
## 9102	-0.11461497	51.59851	2
## 9103	0.15157167	51.44755	5
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## 9382	-0.11738716	51.66902	2
## 9383	-0.11461497	51.59851	2
## 9384	-0.00902464	51.59495	5
## 9385	-0.45140058	51.54113	3
## 9386	-0.19562056	51.66238	2
## 9387	-0.19246075	51.50498	4
## 9388	0.15157167	51.44755	5
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## 9392	-0.08912003	51.51082	4
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## 9395	-0.00902464	51.59495	5
## 9396	-0.09631794	51.38259	1
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## 9400	-0.37384439	51.46939	3
## 9401	-0.19514135	51.36602	4
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## 9405	-0.10215668	51.54494	4
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## 9408	-0.11738716	51.66902	2
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## 9411	0.12988840	51.56167	5

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## 9415	-0.16211228	51.55180	4
## 9416	0.08250620	51.59773	5
## 9417	-0.08912003	51.51082	4
## 9418	-0.13704033	51.50553	4
## 9419	-0.27106553	51.57616	3
## 9420	-0.30342843	51.51473	3
## 9421	-0.33994379	51.58901	3
## 9422	-0.00902464	51.59495	5
## 9423	-0.09631794	51.38259	1
## 9424	-0.10215668	51.54494	4
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## 9426	-0.30138440	51.41824	3
## 9427	-0.45140058	51.54113	3
## 9428	0.15157167	51.44755	5
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## 9430	-0.16211228	51.55180	4
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## 9434	-0.23053203	51.50705	4
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## 9437	-0.21219045	51.41654	4
## 9438	0.03307815	51.53119	5
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## 9440	0.08250620	51.59773	5
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## 9458	-0.19246075	51.50498	4
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## 9495	-0.27106553	51.57616	3
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## 9497	-0.19562056	51.66238	2
## 9498	0.08250620	51.59773	5
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## 9500	-0.19246075	51.50498	4
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## 9802	-0.01170935	51.44908	1
## 9803	-0.19562056	51.66238	2
## 9804	-0.30138440	51.41824	3
## 9805	0.08250620	51.59773	5
## 9806	-0.02797504	51.52616	1
## 9807	-0.21219045	51.41654	4
## 9808	-0.11461497	51.59851	2
## 9809	0.08250620	51.59773	5
## 9810	-0.09631794	51.38259	1
## 9811	-0.30320903	51.46316	3

## 9812	-0.08912003	51.51082	4
## 9813	0.15157167	51.44755	5
## 9814	-0.16211228	51.55180	4
## 9815	-0.11738716	51.66902	2
## 9816	-0.00902464	51.59495	5
## 9817	0.03307815	51.53119	5
## 9818	-0.45140058	51.54113	3
## 9819	-0.27106553	51.57616	3
## 9820	-0.27106553	51.57616	3
## 9821	0.08250620	51.59773	5
## 9822	-0.19562056	51.66238	2
## 9823	-0.10215668	51.54494	4
## 9824	0.01003716	51.49328	1
## 9825	-0.27106553	51.57616	3
## 9826	-0.45140058	51.54113	3
## 9827	-0.09631794	51.38259	1
## 9828	-0.08912003	51.51082	4
## 9829	0.01400743	51.41045	1
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## 9831	-0.00902464	51.59495	5
## 9832	-0.19562056	51.66238	2
## 9833	-0.19562056	51.66238	2
## 9834	-0.09631794	51.38259	1
## 9835	-0.27106553	51.57616	3
## 9836	-0.09631794	51.38259	1
## 9837	-0.09631794	51.38259	1
## 9838	-0.10215668	51.54494	4
## 9839	0.12988840	51.56167	5
## 9840	0.01003716	51.49328	1
## 9841	0.01400743	51.41045	1
## 9842	-0.33994379	51.58901	3
## 9843	-0.12266768	51.46062	4
## 9844	-0.12266768	51.46062	4
## 9845	-0.08912003	51.51082	4
## 9846	0.15157167	51.44755	5
## 9847	-0.27106553	51.57616	3
## 9848	0.01400743	51.41045	1
## 9849	-0.23053203	51.50705	4
## 9850	-0.11738716	51.66902	2
## 9851	-0.01170935	51.44908	1
## 9852	0.08250620	51.59773	5
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## 9854	-0.12266768	51.46062	4
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## 9857	0.12988840	51.56167	5
## 9858	-0.19246075	51.50498	4
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## 9860	-0.09631794	51.38259	1
## 9861	-0.11738716	51.66902	2

## 9862	-0.30342843	51.51473	3
## 9863	-0.18901141	51.45894	4
## 9864	0.12988840	51.56167	5
## 9865	-0.11738716	51.66902	2
## 9866	-0.08912003	51.51082	4
## 9867	-0.19514135	51.36602	4
## 9868	-0.16211228	51.55180	4
## 9869	0.12988840	51.56167	5
## 9870	-0.09631794	51.38259	1
## 9871	-0.08912003	51.51082	4
## 9872	-0.01170935	51.44908	1
## 9873	-0.33994379	51.58901	3
## 9874	-0.12266768	51.46062	4
## 9875	-0.10215668	51.54494	4
## 9876	0.01400743	51.41045	1
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## 9885	-0.30320903	51.46316	3
## 9886	-0.33994379	51.58901	3
## 9887	-0.10215668	51.54494	4
## 9888	-0.10215668	51.54494	4
## 9889	-0.07450626	51.58104	2
## 9890	-0.09631794	51.38259	1
## 9891	0.21276082	51.58296	5
## 9892	-0.16211228	51.55180	4
## 9893	-0.11738716	51.66902	2
## 9894	0.15157167	51.44755	5
## 9895	-0.30342843	51.51473	3
## 9896	-0.33994379	51.58901	3
## 9897	-0.18901141	51.45894	4
## 9898	-0.45140058	51.54113	3
## 9899	0.12988840	51.56167	5
## 9900	-0.33994379	51.58901	3
## 9901	-0.13704033	51.50553	4
## 9902	-0.30138440	51.41824	3
## 9903	0.01400743	51.41045	1
## 9904	-0.19562056	51.66238	2
## 9905	0.12988840	51.56167	5
## 9906	0.21276082	51.58296	5
## 9907	0.08250620	51.59773	5
## 9908	-0.19562056	51.66238	2
## 9909	-0.02797504	51.52616	1
## 9910	0.15157167	51.44755	5
## 9911	0.08250620	51.59773	5

## 9912	-0.30342843	51.51473	3
## 9913	-0.37384439	51.46939	3
## 9914	-0.19514135	51.36602	4
## 9915	-0.18901141	51.45894	4
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## 9919	-0.19562056	51.66238	2
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## 9921	-0.18901141	51.45894	4
## 9922	-0.01170935	51.44908	1
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## 9926	-0.11738716	51.66902	2
## 9927	0.21276082	51.58296	5
## 9928	-0.02797504	51.52616	1
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## 9931	-0.30342843	51.51473	3
## 9932	0.08250620	51.59773	5
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## 9936	0.12988840	51.56167	5
## 9937	-0.07450626	51.58104	2
## 9938	0.15157167	51.44755	5
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## 9940	-0.12266768	51.46062	4
## 9941	-0.18901141	51.45894	4
## 9942	-0.27106553	51.57616	3
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## 9949	-0.37384439	51.46939	3
## 9950	-0.27106553	51.57616	3
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## 9953	-0.09631794	51.38259	1
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## 9992	-0.16211228	51.55180	4
## 9993	-0.19562056	51.66238	2
## 9994	-0.18901141	51.45894	4
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## 9997	-0.33994379	51.58901	3
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## 10223	0.21276082	51.58296	5
## 10224	-0.19562056	51.66238	2
## 10225	-0.11738716	51.66902	2
## 10226	-0.07450626	51.58104	2
## 10227	-0.16211228	51.55180	4
## 10228	-0.09631794	51.38259	1
## 10229	-0.16211228	51.55180	4
## 10230	-0.30342843	51.51473	3
## 10231	-0.27106553	51.57616	3
## 10232	-0.30342843	51.51473	3
## 10233	-0.19514135	51.36602	4
## 10234	-0.21219045	51.41654	4
## 10235	-0.13704033	51.50553	4
## 10236	0.15157167	51.44755	5
## 10237	-0.02797504	51.52616	1
## 10238	0.08250620	51.59773	5
## 10239	-0.11461497	51.59851	2
## 10240	0.15157167	51.44755	5
## 10241	-0.08912003	51.51082	4
## 10242	-0.11738716	51.66902	2
## 10243	-0.11461497	51.59851	2
## 10244	-0.37384439	51.46939	3
## 10245	-0.30342843	51.51473	3
## 10246	-0.45140058	51.54113	3
## 10247	-0.11738716	51.66902	2
## 10248	0.01400743	51.41045	1
## 10249	-0.33994379	51.58901	3
## 10250	-0.19562056	51.66238	2
## 10251	-0.08912003	51.51082	4
## 10252	-0.16211228	51.55180	4
## 10253	-0.09631794	51.38259	1
## 10254	0.03307815	51.53119	5
## 10255	0.01003716	51.49328	1
## 10256	-0.30320903	51.46316	3
## 10257	0.15157167	51.44755	5
## 10258	0.15157167	51.44755	5
## 10259	-0.30342843	51.51473	3
## 10260	-0.02797504	51.52616	1
## 10261	-0.30320903	51.46316	3

## 10262	-0.11738716	51.66902	2
## 10263	-0.37384439	51.46939	3
## 10264	0.21276082	51.58296	5
## 10265	-0.21219045	51.41654	4
## 10266	-0.21219045	51.41654	4
## 10267	-0.10215668	51.54494	4
## 10268	0.12988840	51.56167	5
## 10269	-0.16211228	51.55180	4
## 10270	-0.19246075	51.50498	4
## 10271	-0.30320903	51.46316	3
## 10272	-0.19514135	51.36602	4
## 10273	-0.45140058	51.54113	3
## 10274	-0.12266768	51.46062	4
## 10275	-0.11738716	51.66902	2
## 10276	-0.13704033	51.50553	4
## 10277	-0.27106553	51.57616	3
## 10278	-0.45140058	51.54113	3
## 10279	-0.11738716	51.66902	2
## 10280	-0.00902464	51.59495	5
## 10281	-0.11461497	51.59851	2
## 10282	-0.30342843	51.51473	3
## 10283	-0.07450626	51.58104	2
## 10284	-0.11738716	51.66902	2
## 10285	-0.19514135	51.36602	4
## 10286	-0.07450626	51.58104	2
## 10287	-0.11461497	51.59851	2
## 10288	0.12988840	51.56167	5
## 10289	-0.10215668	51.54494	4
## 10290	0.01003716	51.49328	1
## 10291	-0.12266768	51.46062	4
## 10292	-0.01170935	51.44908	1
## 10293	-0.30320903	51.46316	3
## 10294	-0.12266768	51.46062	4
## 10295	-0.02797504	51.52616	1
## 10296	-0.11738716	51.66902	2
## 10297	0.12988840	51.56167	5
## 10298	0.21276082	51.58296	5
## 10299	-0.21219045	51.41654	4
## 10300	-0.02797504	51.52616	1
## 10301	-0.02797504	51.52616	1
## 10302	-0.01170935	51.44908	1
## 10303	-0.19562056	51.66238	2
## 10304	0.03307815	51.53119	5
## 10305	0.15157167	51.44755	5
## 10306	0.01003716	51.49328	1
## 10307	-0.02797504	51.52616	1
## 10308	-0.00902464	51.59495	5
## 10309	-0.12266768	51.46062	4
## 10310	-0.11738716	51.66902	2
## 10311	0.12988840	51.56167	5

## 10312	-0.10215668	51.54494	4
## 10313	-0.23053203	51.50705	4
## 10314	-0.45140058	51.54113	3
## 10315	0.08250620	51.59773	5
## 10316	0.08250620	51.59773	5
## 10317	0.15157167	51.44755	5
## 10318	0.15157167	51.44755	5
## 10319	0.01003716	51.49328	1
## 10320	-0.12266768	51.46062	4
## 10321	-0.02797504	51.52616	1
## 10322	-0.37384439	51.46939	3
## 10323	-0.19246075	51.50498	4
## 10324	-0.09631794	51.38259	1
## 10325	0.01003716	51.49328	1
## 10326	-0.30342843	51.51473	3
## 10327	-0.11738716	51.66902	2
## 10328	0.08250620	51.59773	5
## 10329	-0.19514135	51.36602	4
## 10330	-0.19562056	51.66238	2
## 10331	0.01003716	51.49328	1
## 10332	-0.30138440	51.41824	3
## 10333	0.15157167	51.44755	5
## 10334	-0.01170935	51.44908	1
## 10335	-0.11738716	51.66902	2
## 10336	-0.30138440	51.41824	3
## 10337	-0.16211228	51.55180	4
## 10338	-0.00902464	51.59495	5
## 10339	0.01400743	51.41045	1
## 10340	-0.01170935	51.44908	1
## 10341	-0.30342843	51.51473	3
## 10342	-0.18901141	51.45894	4
## 10343	-0.18901141	51.45894	4
## 10344	-0.11461497	51.59851	2
## 10345	-0.18901141	51.45894	4
## 10346	0.15157167	51.44755	5
## 10347	-0.45140058	51.54113	3
## 10348	0.03307815	51.53119	5
## 10349	-0.18901141	51.45894	4
## 10350	0.21276082	51.58296	5
## 10351	0.08250620	51.59773	5
## 10352	-0.30342843	51.51473	3
## 10353	0.01400743	51.41045	1
## 10354	-0.09631794	51.38259	1
## 10355	0.01400743	51.41045	1
## 10356	0.01003716	51.49328	1
## 10357	-0.30320903	51.46316	3
## 10358	-0.01170935	51.44908	1
## 10359	0.01400743	51.41045	1
## 10360	-0.19562056	51.66238	2
## 10361	-0.09631794	51.38259	1

## 10362	-0.10215668	51.54494	4
## 10363	-0.19562056	51.66238	2
## 10364	-0.01170935	51.44908	1
## 10365	-0.01170935	51.44908	1
## 10366	-0.33994379	51.58901	3
## 10367	-0.16211228	51.55180	4
## 10368	-0.37384439	51.46939	3
## 10369	0.12988840	51.56167	5
## 10370	0.01400743	51.41045	1
## 10371	-0.19562056	51.66238	2
## 10372	-0.08912003	51.51082	4
## 10373	-0.18901141	51.45894	4
## 10374	0.01400743	51.41045	1
## 10375	0.21276082	51.58296	5
## 10376	-0.19562056	51.66238	2
## 10377	0.08250620	51.59773	5
## 10378	0.01003716	51.49328	1
## 10379	-0.13704033	51.50553	4
## 10380	-0.45140058	51.54113	3
## 10381	0.21276082	51.58296	5
## 10382	-0.16211228	51.55180	4
## 10383	0.01003716	51.49328	1
## 10384	-0.27106553	51.57616	3
## 10385	-0.07450626	51.58104	2
## 10386	-0.19246075	51.50498	4
## 10387	-0.09631794	51.38259	1
## 10388	-0.19246075	51.50498	4
## 10389	-0.10215668	51.54494	4
## 10390	-0.30138440	51.41824	3
## 10391	0.15157167	51.44755	5
## 10392	-0.13704033	51.50553	4
## 10393	-0.10215668	51.54494	4
## 10394	-0.07450626	51.58104	2
## 10395	-0.30342843	51.51473	3
## 10396	-0.19246075	51.50498	4
## 10397	-0.19246075	51.50498	4
## 10398	-0.12266768	51.46062	4
## 10399	-0.37384439	51.46939	3
## 10400	-0.18901141	51.45894	4
## 10401	-0.11738716	51.66902	2
## 10402	-0.00902464	51.59495	5
## 10403	0.15157167	51.44755	5
## 10404	-0.45140058	51.54113	3
## 10405	0.08250620	51.59773	5
## 10406	-0.11461497	51.59851	2
## 10407	-0.27106553	51.57616	3
## 10408	-0.08912003	51.51082	4
## 10409	-0.19562056	51.66238	2
## 10410	-0.27106553	51.57616	3
## 10411	-0.08912003	51.51082	4

## 10412	-0.11738716	51.66902	2
## 10413	-0.02797504	51.52616	1
## 10414	-0.37384439	51.46939	3
## 10415	0.08250620	51.59773	5
## 10416	-0.18901141	51.45894	4
## 10417	-0.30342843	51.51473	3
## 10418	0.21276082	51.58296	5
## 10419	-0.12266768	51.46062	4
## 10420	-0.30138440	51.41824	3
## 10421	-0.30320903	51.46316	3
## 10422	-0.13704033	51.50553	4
## 10423	0.08250620	51.59773	5
## 10424	-0.12266768	51.46062	4
## 10425	-0.07450626	51.58104	2
## 10426	-0.19562056	51.66238	2
## 10427	0.03307815	51.53119	5
## 10428	-0.11738716	51.66902	2
## 10429	-0.08912003	51.51082	4
## 10430	-0.45140058	51.54113	3
## 10431	-0.13704033	51.50553	4
## 10432	0.15157167	51.44755	5
## 10433	-0.45140058	51.54113	3
## 10434	-0.19246075	51.50498	4
## 10435	-0.27106553	51.57616	3
## 10436	0.01003716	51.49328	1
## 10437	0.15157167	51.44755	5
## 10438	-0.09631794	51.38259	1
## 10439	-0.09631794	51.38259	1
## 10440	-0.19246075	51.50498	4
## 10441	-0.33994379	51.58901	3
## 10442	-0.08912003	51.51082	4
## 10443	-0.30342843	51.51473	3
## 10444	-0.12266768	51.46062	4
## 10445	-0.18901141	51.45894	4
## 10446	-0.33994379	51.58901	3
## 10447	-0.00902464	51.59495	5
## 10448	0.01003716	51.49328	1
## 10449	-0.30320903	51.46316	3
## 10450	-0.00902464	51.59495	5
## 10451	-0.11738716	51.66902	2
## 10452	-0.30320903	51.46316	3
## 10453	-0.13704033	51.50553	4
## 10454	0.01003716	51.49328	1
## 10455	0.01400743	51.41045	1
## 10456	0.21276082	51.58296	5
## 10457	-0.19514135	51.36602	4
## 10458	-0.27106553	51.57616	3
## 10459	-0.10215668	51.54494	4
## 10460	0.01400743	51.41045	1
## 10461	-0.09631794	51.38259	1

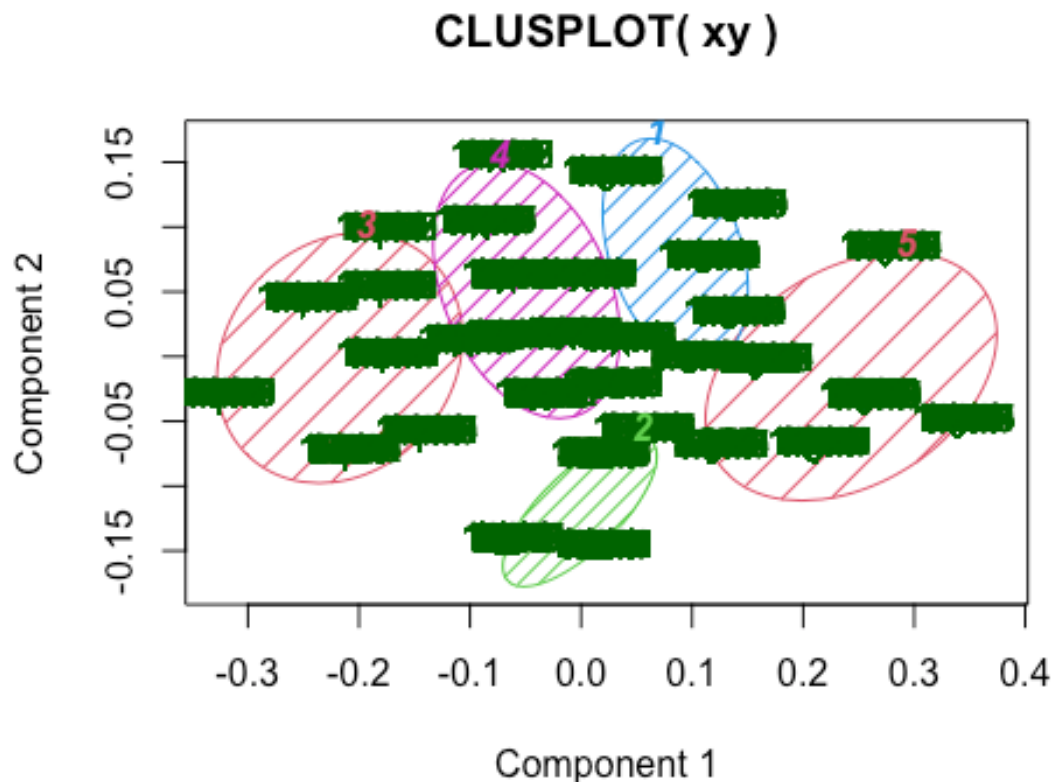
## 10462	-0.00902464	51.59495	5
## 10463	-0.27106553	51.57616	3
## 10464	0.03307815	51.53119	5
## 10465	-0.02797504	51.52616	1
## 10466	-0.08912003	51.51082	4
## 10467	-0.18901141	51.45894	4
## 10468	-0.30320903	51.46316	3
## 10469	0.12988840	51.56167	5
## 10470	0.01003716	51.49328	1
## 10471	-0.33994379	51.58901	3
## 10472	-0.13704033	51.50553	4
## 10473	-0.01170935	51.44908	1
## 10474	0.08250620	51.59773	5
## 10475	-0.37384439	51.46939	3
## 10476	-0.09631794	51.38259	1
## 10477	-0.19562056	51.66238	2
## 10478	-0.02797504	51.52616	1
## 10479	-0.01170935	51.44908	1
## 10480	0.03307815	51.53119	5
## 10481	-0.11461497	51.59851	2
## 10482	-0.00902464	51.59495	5
## 10483	0.03307815	51.53119	5
## 10484	-0.30342843	51.51473	3
## 10485	-0.19514135	51.36602	4
## 10486	-0.02797504	51.52616	1
## 10487	-0.30138440	51.41824	3
## 10488	-0.07450626	51.58104	2
## 10489	-0.45140058	51.54113	3
## 10490	-0.45140058	51.54113	3
## 10491	0.21276082	51.58296	5
## 10492	-0.33994379	51.58901	3
## 10493	-0.08912003	51.51082	4
## 10494	-0.11738716	51.66902	2
## 10495	0.21276082	51.58296	5
## 10496	0.08250620	51.59773	5
## 10497	0.03307815	51.53119	5
## 10498	-0.18901141	51.45894	4
## 10499	-0.13704033	51.50553	4
## 10500	-0.19562056	51.66238	2
## 10501	-0.01170935	51.44908	1
## 10502	0.08250620	51.59773	5
## 10503	-0.07450626	51.58104	2
## 10504	-0.33994379	51.58901	3
## 10505	-0.18901141	51.45894	4
## 10506	-0.21219045	51.41654	4
## 10507	0.08250620	51.59773	5
## 10508	-0.23053203	51.50705	4
## 10509	-0.19246075	51.50498	4
## 10510	0.01400743	51.41045	1
## 10511	-0.30342843	51.51473	3

## 10512	-0.27106553	51.57616	3
## 10513	-0.11738716	51.66902	2
## 10514	-0.45140058	51.54113	3
## 10515	-0.10215668	51.54494	4
## 10516	-0.08912003	51.51082	4
## 10517	0.01400743	51.41045	1
## 10518	-0.11461497	51.59851	2
## 10519	-0.09631794	51.38259	1
## 10520	-0.08912003	51.51082	4
## 10521	-0.37384439	51.46939	3
## 10522	-0.30342843	51.51473	3
## 10523	0.01003716	51.49328	1
## 10524	-0.19246075	51.50498	4
## 10525	-0.23053203	51.50705	4
## 10526	-0.33994379	51.58901	3
## 10527	-0.08912003	51.51082	4
## 10528	0.12988840	51.56167	5
## 10529	-0.23053203	51.50705	4
## 10530	-0.16211228	51.55180	4
## 10531	0.12988840	51.56167	5
## 10532	0.03307815	51.53119	5
## 10533	-0.30320903	51.46316	3
## 10534	-0.01170935	51.44908	1
## 10535	-0.01170935	51.44908	1
## 10536	-0.19514135	51.36602	4
## 10537	-0.30138440	51.41824	3
## 10538	0.12988840	51.56167	5
## 10539	-0.01170935	51.44908	1
## 10540	-0.19562056	51.66238	2
## 10541	0.21276082	51.58296	5
## 10542	-0.19514135	51.36602	4
## 10543	-0.07450626	51.58104	2
## 10544	-0.21219045	51.41654	4
## 10545	0.12988840	51.56167	5
## 10546	-0.30342843	51.51473	3
## 10547	0.08250620	51.59773	5
## 10548	-0.09631794	51.38259	1
## 10549	0.01400743	51.41045	1
## 10550	0.01400743	51.41045	1
## 10551	-0.30342843	51.51473	3
## 10552	-0.07450626	51.58104	2
## 10553	0.15157167	51.44755	5
## 10554	-0.11738716	51.66902	2
## 10555	-0.09631794	51.38259	1

```
fviz_cluster(kmeans, data = xy)
```



```
#visualizing the clusters
clusplot(xy,fitkmeans$cluster, color = TRUE, shade = TRUE, labels= 2, lines =
0)
```



These two components explain 100 % of the point variab

```
#mean of Longitude and Latitude for each cluster using aggregate function
eachpoint <- aggregate(xy, by=list(fitkmeans$cluster), FUN=mean)
eachpoint
```

```
##   Group.1  Longitude Latitude
## 1      1 -0.02491060 51.44546
## 2      2 -0.13069592 51.63352
## 3      3 -0.33506345 51.51738
## 4      4 -0.15786929 51.48282
## 5      5  0.09354143 51.55414
```

```
#Using ggmap to visualize
library(ggmap)
```

```
## Google's Terms of Service: https://cloud.google.com/maps-platform/terms/.
```

```
## Please cite ggmap if you use it! See citation("ggmap") for details.
```

```
##
```

```
## Attaching package: 'ggmap'
```

```
## The following object is masked from 'package:dismo':
```

```
##
```

```
##   geocode
```

```
## The following object is masked from 'package:plotly':
##
##      wind

#Getting the API key
api <- "AIzaSyCMcVp83BTwhbYzRtnFHIj1wQWce6gyduE"

#registering a google key`
register_google(key= api)

#Loading a London map for visualization
LondonMap <- get_map("London", zoom= 11)

## Source :
https://maps.googleapis.com/maps/api/staticmap?center=London&zoom=11&size=640x640&scale=2&maptypes=terrain&language=en-EN&key=xxx

## Source :
https://maps.googleapis.com/maps/api/geocode/json?address=London&key=xxx

ggmap(LondonMap)
```

