

Markdown

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R Markdown

Install and setup libraries

```
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(reshape2)  
library(ggplot2)  
library(Hmisc)
```

```
## Loading required package: lattice  
  
## Loading required package: survival  
  
## Loading required package: Formula  
  
##  
## Attaching package: 'Hmisc'  
  
## The following objects are masked from 'package:dplyr':  
##  
##     src, summarize  
  
## The following objects are masked from 'package:base':  
##  
##     format.pval, units  
  
library(corrplot)  
  
## corrplot 0.84 loaded
```

```

library(mice)

##
## Attaching package: 'mice'

## The following objects are masked from 'package:base':
##
##     cbind, rbind

library(VIM)

##
## Loading required package: colorspace

##
## Loading required package: grid

##
## Loading required package: data.table

##
## Attaching package: 'data.table'

## The following objects are masked from 'package:reshape2':
##
##     dcast, melt

## The following objects are masked from 'package:dplyr':
##
##     between, first, last

## VIM is ready to use.
## Since version 4.0.0 the GUI is in its own package VIMGUI.
##
##     Please use the package to use the new (and old) GUI.

## Suggestions and bug-reports can be submitted at: https://github.com/alexkowa/VIM/issues

##
## Attaching package: 'VIM'

## The following object is masked from 'package:datasets':
##
##     sleep

library(pROC)

##
## Type 'citation("pROC")' for a citation.

##
## Attaching package: 'pROC'

```

```

## The following object is masked from 'package:colorspace':
##
##     coords

## The following objects are masked from 'package:stats':
##
##     cov, smooth, var

library(caret)

##
## Attaching package: 'caret'

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

library(sqldf)

## Loading required package: gsubfn

## Loading required package: proto

## Loading required package: RSQLite

library(readxl)
library(ggplot2)
library(randomForest)

## Warning: package 'randomForest' was built under R version 3.5.3

## randomForest 4.6-14

## Type rfNews() to see new features/changes/bug fixes.

##
## Attaching package: 'randomForest'

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

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

library(lubridate)

```

```

## 
## Attaching package: 'lubridate'

## The following objects are masked from 'package:data.table':
## 
##     hour, isoweek, mday, minute, month, quarter, second, wday,
##     week, yday, year

## The following object is masked from 'package:base':
## 
##     date

library(Rmisc)

## Warning: package 'Rmisc' was built under R version 3.5.3

## Loading required package: plyr

## -----
## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)

## -----
## 
## Attaching package: 'plyr'

## The following object is masked from 'package:lubridate':
## 
##     here

## The following objects are masked from 'package:Hmisc':
## 
##     is.discrete, summarize

## The following objects are masked from 'package:dplyr':
## 
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize

library(stringr)
library(lattice)
options(scipen=5)

library(dbSCAN)

## 
## Attaching package: 'dbSCAN'

```

```

## The following object is masked from 'package:VIM':
##
##      kNN

library(fpc)

##
## Attaching package: 'fpc'

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

library(factoextra)

## Welcome! Related Books: `Practical Guide To Cluster Analysis in R` at https://goo.gl/13EFCZ

library(NbClust)
library(vegan)

## Loading required package: permute

## This is vegan 2.5-4

##
## Attaching package: 'vegan'

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

```

DATA ANALYSIS

Load the Data Set

```
bike=read.csv('hour.csv')
```

What does the data set look like?

```
str(bike)
```

```

## 'data.frame':    17379 obs. of  17 variables:
## $ instant    : int  1 2 3 4 5 6 7 8 9 10 ...
## $ dteday     : Factor w/ 731 levels "2011-01-01","2011-01-02",...
## $ season     : int  1 1 1 1 1 1 1 1 1 1 ...

```

```

## $ yr      : int 0 0 0 0 0 0 0 0 0 ...
## $ mnth    : int 1 1 1 1 1 1 1 1 1 ...
## $ hr      : int 0 1 2 3 4 5 6 7 8 9 ...
## $ holiday  : int 0 0 0 0 0 0 0 0 0 ...
## $ weekday  : int 6 6 6 6 6 6 6 6 ...
## $ workingday: int 0 0 0 0 0 0 0 0 0 ...
## $ weathersit: int 1 1 1 1 1 2 1 1 1 ...
## $ temp     : num 0.24 0.22 0.22 0.24 0.24 0.24 0.24 0.22 0.2 0.24 0.32 ...
## $ atemp    : num 0.288 0.273 0.273 0.288 0.288 ...
## $ hum      : num 0.81 0.8 0.8 0.75 0.75 0.75 0.8 0.86 0.75 0.76 ...
## $ windspeed: num 0 0 0 0 0 0.0896 0 0 0 0 ...
## $ casual   : int 3 8 5 3 0 0 2 1 1 8 ...
## $ registered: int 13 32 27 10 1 1 0 2 7 6 ...
## $ cnt      : int 16 40 32 13 1 1 2 3 8 14 ...

```

```
head(bike)
```

```

## instant dteday season yr mnth hr holiday weekday workingday
## 1 1 2011-01-01 1 0 1 0 0 6 0
## 2 2 2011-01-01 1 0 1 1 0 6 0
## 3 3 2011-01-01 1 0 1 2 0 6 0
## 4 4 2011-01-01 1 0 1 3 0 6 0
## 5 5 2011-01-01 1 0 1 4 0 6 0
## 6 6 2011-01-01 1 0 1 5 0 6 0
## weathersit temp atemp hum windspeed casual registered cnt
## 1 1 0.24 0.2879 0.81 0.0000 3 13 16
## 2 1 0.22 0.2727 0.80 0.0000 8 32 40
## 3 1 0.22 0.2727 0.80 0.0000 5 27 32
## 4 1 0.24 0.2879 0.75 0.0000 3 10 13
## 5 1 0.24 0.2879 0.75 0.0000 0 1 1
## 6 2 0.24 0.2576 0.75 0.0896 0 1 1

```

Are there any blank records?

```
sum(is.na(bike))
```

```
## [1] 0
```

Lets look at an overview of the data set

```
summary(bike)
```

```

## instant dteday season yr
## Min. : 1 2011-01-01: 24 Min. :1.000 Min. :0.0000
## 1st Qu.: 4346 2011-01-08: 24 1st Qu.:2.000 1st Qu.:0.0000
## Median : 8690 2011-01-09: 24 Median :3.000 Median :1.0000
## Mean : 8690 2011-01-10: 24 Mean :2.502 Mean :0.5026

```

```

## 3rd Qu.:13034 2011-01-13: 24 3rd Qu.:3.000 3rd Qu.:1.0000
## Max. :17379 2011-01-15: 24 Max. :4.000 Max. :1.0000
## (Other) :17235
## mnth hr holiday weekday
## Min. : 1.000 Min. : 0.00 Min. :0.00000 Min. :0.000
## 1st Qu.: 4.000 1st Qu.: 6.00 1st Qu.:0.00000 1st Qu.:1.000
## Median : 7.000 Median :12.00 Median :0.00000 Median :3.000
## Mean : 6.538 Mean :11.55 Mean :0.02877 Mean :3.004
## 3rd Qu.:10.000 3rd Qu.:18.00 3rd Qu.:0.00000 3rd Qu.:5.000
## Max. :12.000 Max. :23.00 Max. :1.00000 Max. :6.000
##
## workingday weathersit temp atemp
## Min. :0.0000 Min. :1.000 Min. :0.020 Min. :0.0000
## 1st Qu.:0.0000 1st Qu.:1.000 1st Qu.:0.340 1st Qu.:0.3333
## Median :1.0000 Median :1.000 Median :0.500 Median :0.4848
## Mean : 0.6827 Mean :1.425 Mean :0.497 Mean :0.4758
## 3rd Qu.:1.0000 3rd Qu.:2.000 3rd Qu.:0.660 3rd Qu.:0.6212
## Max. :1.0000 Max. :4.000 Max. :1.000 Max. :1.0000
##
## hum windspeed casual registered
## Min. :0.0000 Min. :0.0000 Min. : 0.00 Min. : 0.0
## 1st Qu.:0.4800 1st Qu.:0.1045 1st Qu.: 4.00 1st Qu.: 34.0
## Median :0.6300 Median :0.1940 Median : 17.00 Median :115.0
## Mean : 0.6272 Mean :0.1901 Mean : 35.68 Mean :153.8
## 3rd Qu.:0.7800 3rd Qu.:0.2537 3rd Qu.: 48.00 3rd Qu.:220.0
## Max. :1.0000 Max. :0.8507 Max. :367.00 Max. :886.0
##
## cnt
## Min. : 1.0
## 1st Qu.: 40.0
## Median :142.0
## Mean :189.5
## 3rd Qu.:281.0
## Max. :977.0
##

```

DATA PREPARATION

Convert the format of the DTEDAY column

```
bike$dteday=as.Date(bike$dteday)
```

Convert the Season to Factors and assign the appropriate labels

```
bike$season=factor(bike$season, labels = c("Spring", "Summer", "Fall", "Winter"))
table(bike$season)
```

```
##
```

```
## Spring Summer Fall Winter
## 4242 4409 4496 4232
```

Convert the Weathersit to Factors and assign the appropriate labels

```
bike$weathersit=factor(bike$weather, labels = c("Good", "Normal", "Bad", "Very Bad"))
table(bike$weathersit)
```

```
##
##      Good    Normal      Bad Very Bad
##     11413     4544     1419         3
```

Lets check the structure of the Dataset again to confirm if all the changes were applied and re-examine it

```
str(bike)
```

```
## 'data.frame': 17379 obs. of 17 variables:
## $ instant : int 1 2 3 4 5 6 7 8 9 10 ...
## $ dteday : Date, format: "2011-01-01" "2011-01-01" ...
## $ season : Factor w/ 4 levels "Spring","Summer",...: 1 1 1 1 1 1 1 1 1 1 ...
## $ yr : int 0 0 0 0 0 0 0 0 0 0 ...
## $ mnth : int 1 1 1 1 1 1 1 1 1 1 ...
## $ hr : int 0 1 2 3 4 5 6 7 8 9 ...
## $ holiday : int 0 0 0 0 0 0 0 0 0 0 ...
## $ weekday : int 6 6 6 6 6 6 6 6 6 6 ...
## $ workingday: int 0 0 0 0 0 0 0 0 0 0 ...
## $ weathersit: Factor w/ 4 levels "Good","Normal",...: 1 1 1 1 1 2 1 1 1 1 ...
## $ temp : num 0.24 0.22 0.22 0.24 0.24 0.24 0.22 0.2 0.24 0.32 ...
## $ atemp : num 0.288 0.273 0.273 0.288 0.288 ...
## $ hum : num 0.81 0.8 0.8 0.75 0.75 0.75 0.8 0.86 0.75 0.76 ...
## $ windspeed : num 0 0 0 0 0.0896 0 0 0 0 ...
## $ casual : int 3 8 5 3 0 0 2 1 1 8 ...
## $ registered: int 13 32 27 10 1 1 0 2 7 6 ...
## $ cnt : int 16 40 32 13 1 1 2 3 8 14 ...
```

```
head(bike)
```

```
##   instant      dteday season yr mnth hr holiday weekday workingday
## 1       1 2011-01-01 Spring 0     1 0     0       6        0
## 2       2 2011-01-01 Spring 0     1 1     0       6        0
## 3       3 2011-01-01 Spring 0     1 2     0       6        0
## 4       4 2011-01-01 Spring 0     1 3     0       6        0
## 5       5 2011-01-01 Spring 0     1 4     0       6        0
## 6       6 2011-01-01 Spring 0     1 5     0       6        0
##   weathersit temp atemp hum windspeed casual registered cnt
## 1      Good 0.24 0.2879 0.81 0.0000     3       13     16
```

```

## 2      Good 0.22 0.2727 0.80    0.0000    8      32 40
## 3      Good 0.22 0.2727 0.80    0.0000    5      27 32
## 4      Good 0.24 0.2879 0.75    0.0000    3      10 13
## 5      Good 0.24 0.2879 0.75    0.0000    0       1 1
## 6 Normal 0.24 0.2576 0.75    0.0896    0       1 1

```

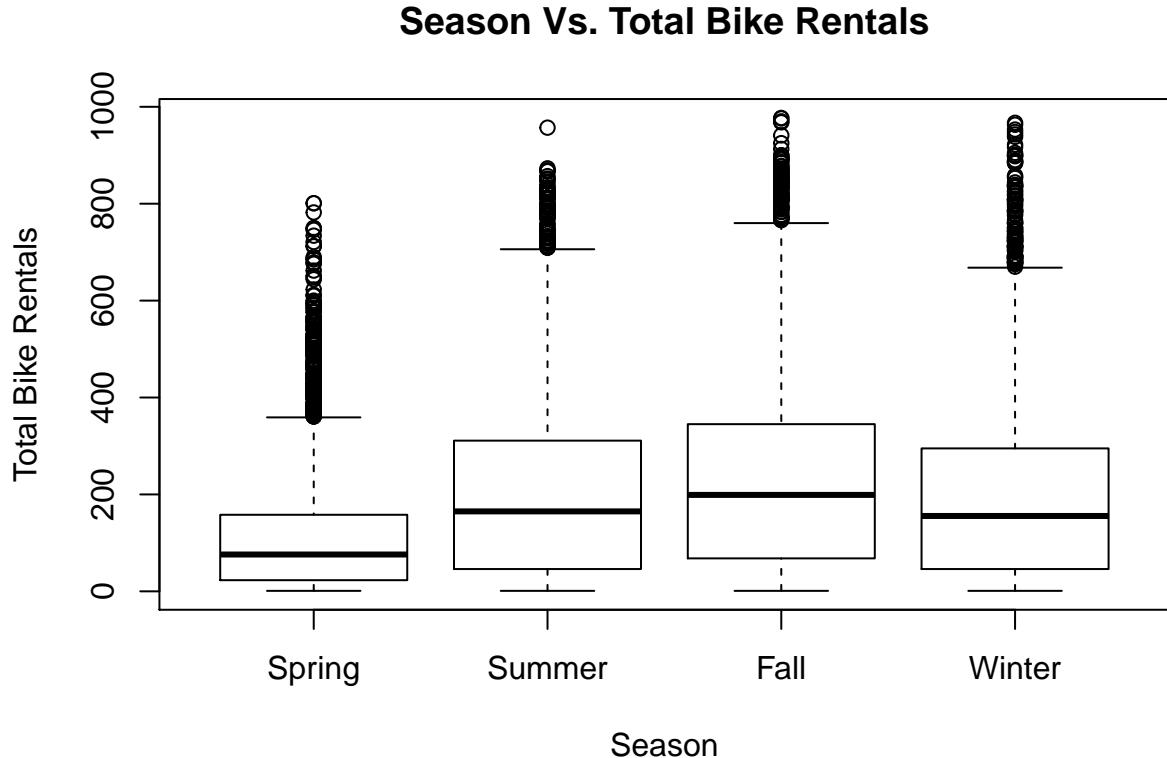
DATA EXPLORATION

What is the relationship between the Seasons and the number of bikes rented?

```

par(mfrow=c(1,1))
plot(bike$season,bike$cnt,main="Season Vs. Total Bike Rentals",xlab="Season",ylab="Total Bike Rentals")

```



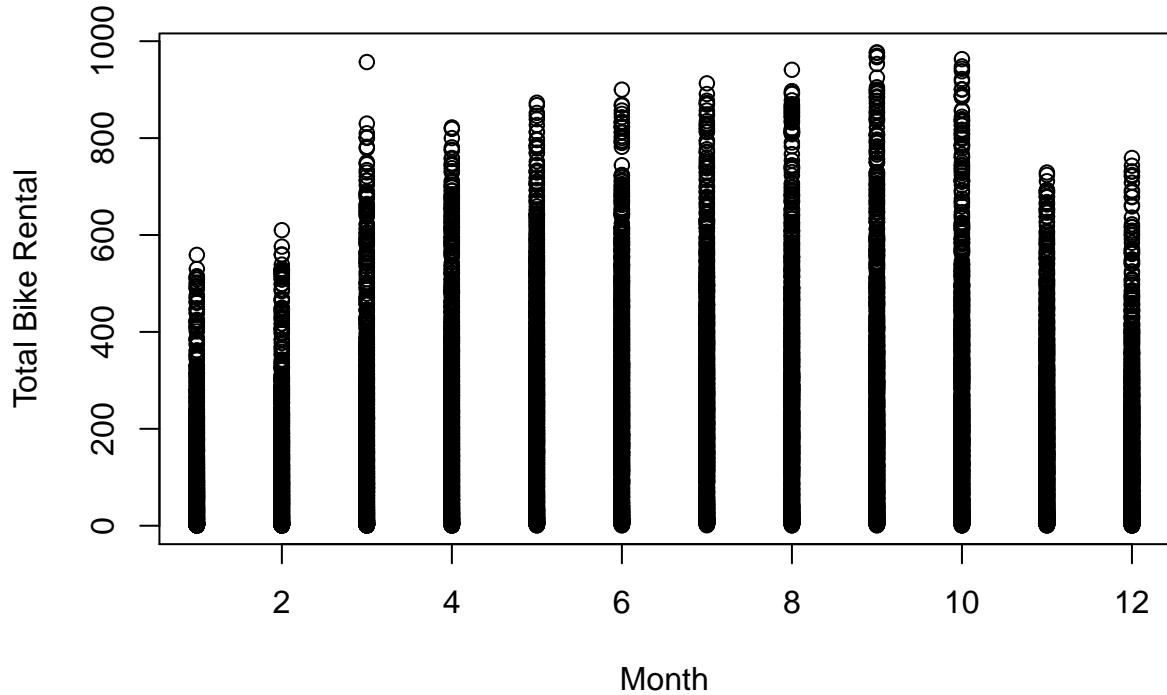
#The box plot indicates that the number of bike rentals are the lowest in Spring and start increasing as the improves in the Summer. They peak in the Fall and start declining again as Winter approaches. #What is the relationship between the Months and the number of bikes rented?

```

plot(bike$mnth,bike$cnt,main="Month Vs. Total Bike Rentals",xlab="Month",ylab="Total Bike Rental")

```

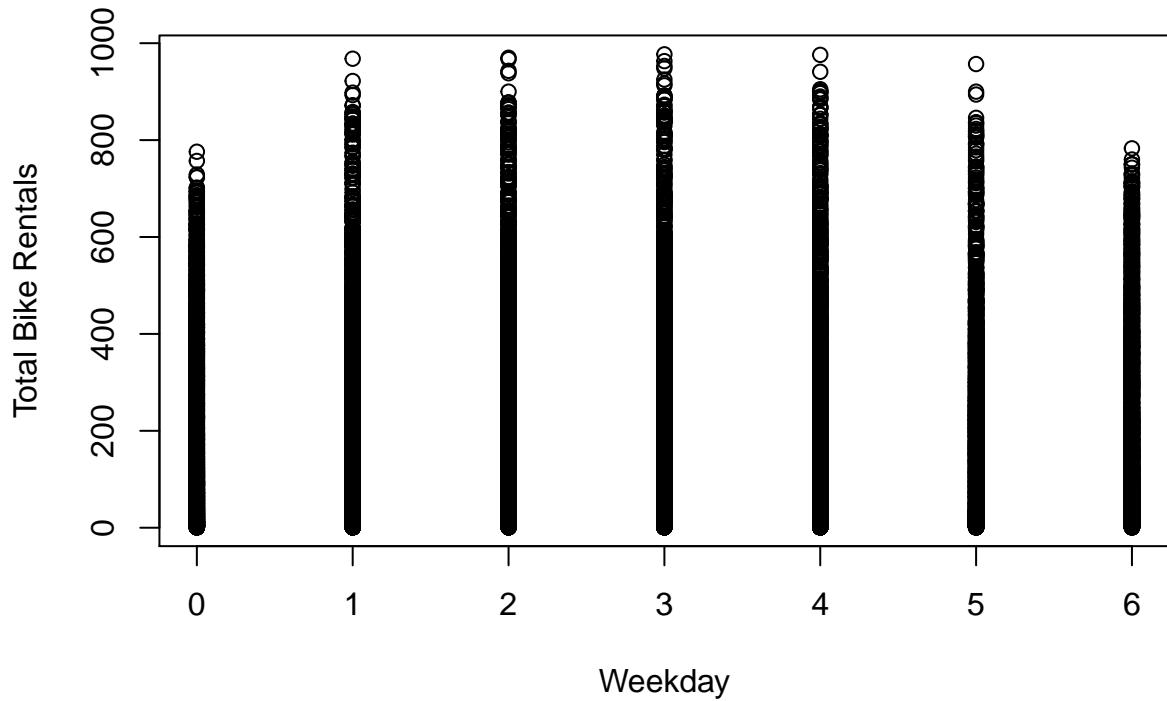
Month Vs. Total Bike Rentals



#This plot is consistent with the previous one and provides a more granular view of the dataset. Bikes rented are lowest in January and February, which are usually the coldest part of the winter. As the weather improves, the number of bikes rented rises March to the summer and peaks in the months of September and October. After that, it starts declining again as the cold weather comes back. #Are there any days that are better or worse for bike rentals?

```
plot(bike$weekday,bike$cnt,main="Weekday Vs. Total Bike Rentals",xlab="Weekday",ylab="Total Bike Rental")
```

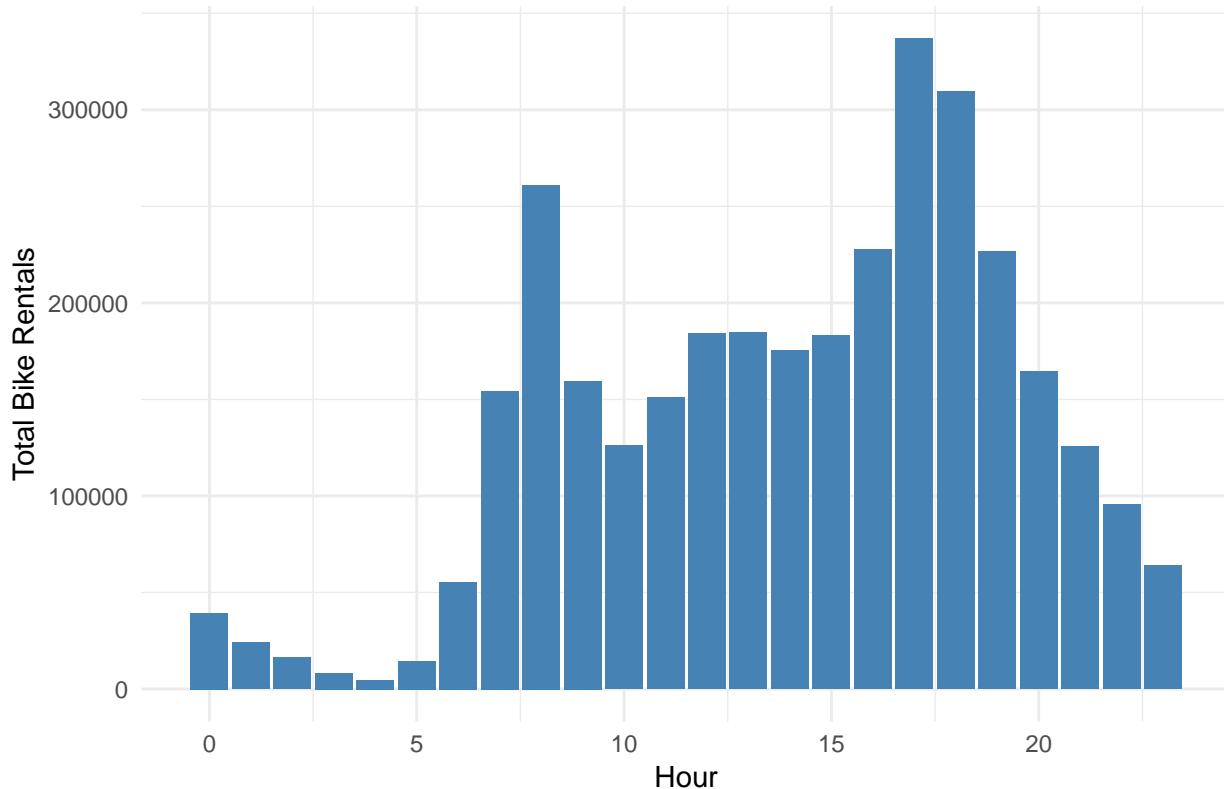
Weekday Vs. Total Bike Rentals



#Fewer bike rental occur on days 0 and 6, which represent Sunday and Saturday, respectively. The number of rentals during the weekdays seem to be quite evenly spread. #Are there specific hours of the day that are better or worse for bike rentals?

```
p=ggplot(data=bike, aes(x=hr, y=cnt, fill = hr)) +  
  geom_bar(stat="identity", fill="steelblue") +  
  theme_minimal() + ggtitle("Bike Rentals by the Hour") + xlab("Hour") + ylab("Total Bike Rentals")  
p
```

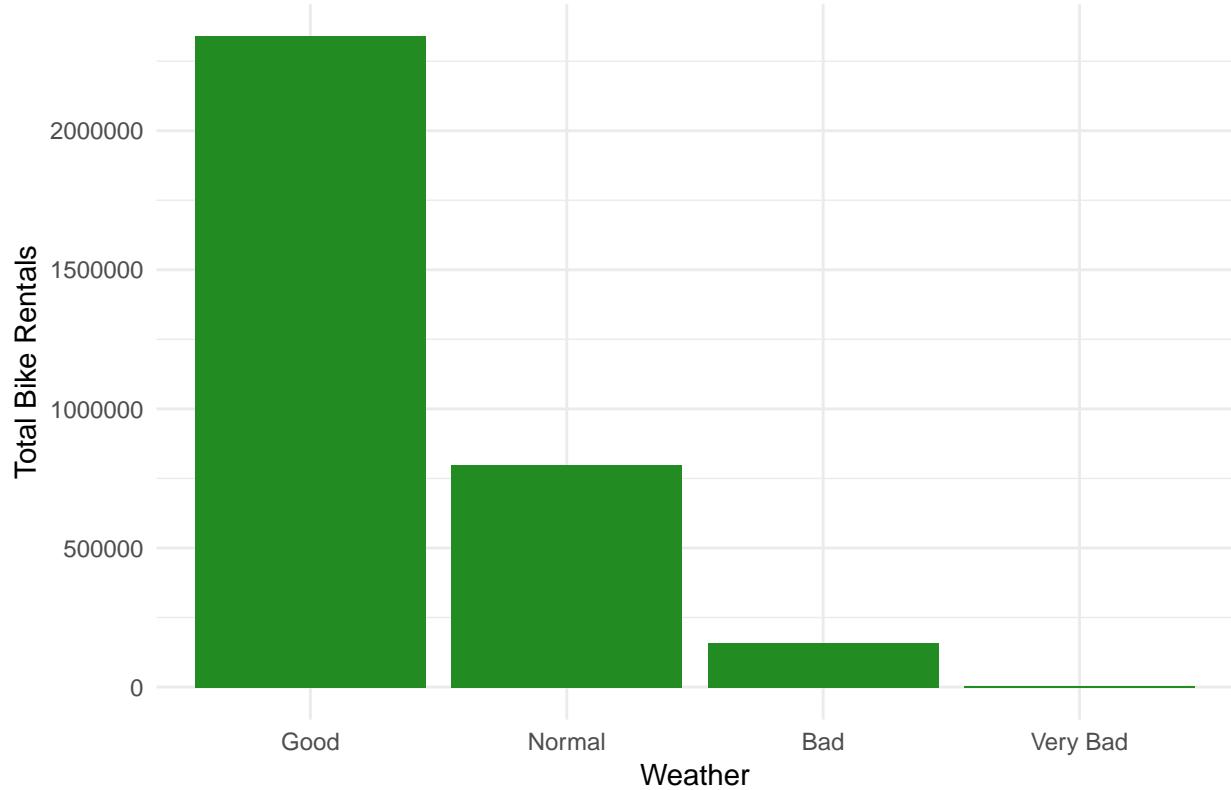
Bike Rentals by the Hour



#Bike Rentals seem to be lowest from midnight to 6 am. They are highest in the morning at 8 am and then again at 5 pm and 6 pm. Rentals between 8 am and 5 pm seem to be quite evenly distributed. #How does weather impact bike rentals?

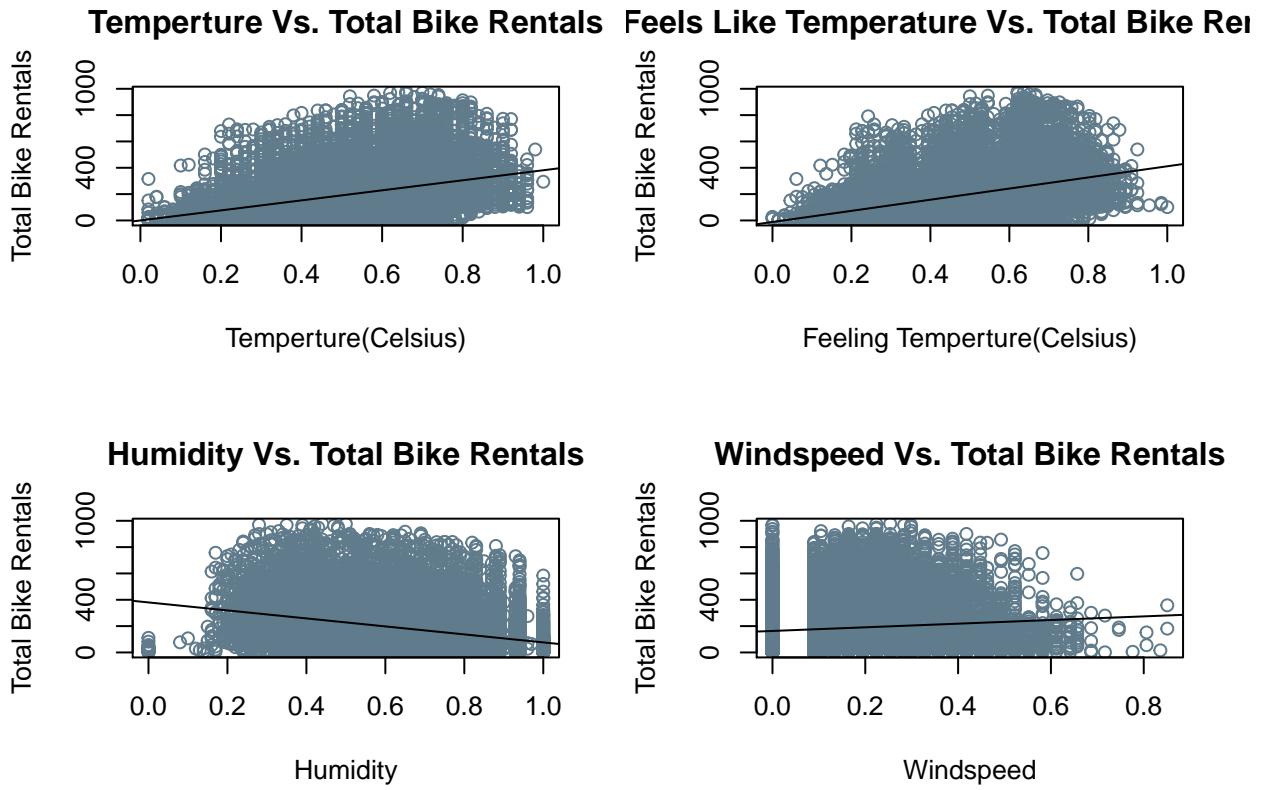
```
p3=ggplot(data=bike, aes(x=weathersit, y=cnt, fill = weathersit)) +  
  geom_bar(stat="identity", fill="forestgreen") +  
  theme_minimal() + ggttitle("Weather Vs. Total Bike Rentals") + xlab("Weather") + ylab("Total Bike Rentals")
```

Weather Vs. Total Bike Rentals



#Generally, it is quite evident that Good weather conditions are the best for riding bikes. Normal weather is moderately good while there is very low demand in Bad weather and no demand at all when the weather is Very Bad. #ploting weather realted variables including temperture, feeling temperture, humidity and windspeed #How does Temperature, Feels like Temperature, Humidity, and Windspeed impact bike rentals?

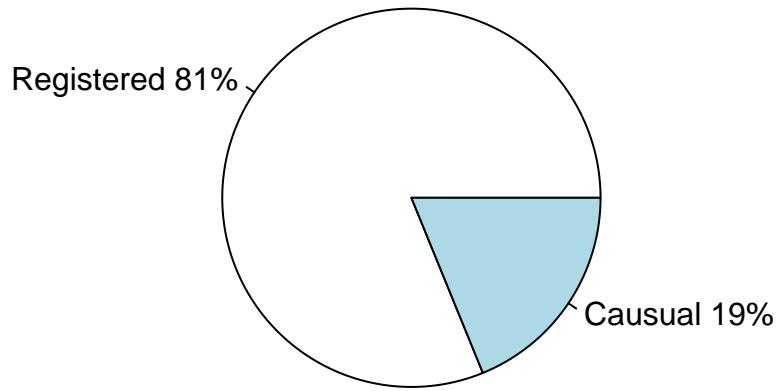
```
par(mfrow=c(2,2))
plot(bike$temp,bike$cnt, col="lightskyblue4",xlab="Temperture(Celsius)",ylab="Total Bike Rentals",main = "Temperture")
abline(lm(bike$cnt~bike$temp))
plot(bike$atemp,bike$cnt, col="lightskyblue4",xlab="Feeling Temperture(Celsius)",ylab="Total Bike Rentals",main = "Feeling Temperture")
abline(lm(bike$cnt~bike$atemp))
plot(bike$hum,bike$cnt, col="lightskyblue4",xlab="Humidity",ylab="Total Bike Rentals",main = "Humidity")
abline(lm(bike$cnt~bike$hum))
plot(bike$windspeed,bike$cnt,col="lightskyblue4",xlab="Windspeed",ylab="Total Bike Rentals",main = "Windspeed")
abline(lm(bike$cnt~bike$windspeed))
```



#The plots above assume a linear relationship and are somewhat mixed. The regression line for Temperature provides a fairly good approximate of the data, while Feels like Temperature does not seem to represent the data too accurately. Similarly, Humidity provides a fairly good representation of the data but Windspeed provides a rather inaccurate representation. #What is the share of Registered Vs. Casual Renters?

```
par(mfrow=c(1,1))
slices = c(sum(bike$registered), sum(bike$casual))
lbls = c("Registered", "Casual")
pct <- round(slices/sum(slices)*100)
lbls <- paste(lbls, pct)
lbls <- paste(lbls, "%", sep="")
pie(slices, labels = lbls, main="Registered Vs. Casual Renters")
```

Registered Vs. Casual Renters



#As expected, 81% of renters are Registered users while 19% are Casual users. ##MODELING##

UNSUPERVISED MODELS

We first remove the Date and Instant variables since they do not contain any valuable information.

kmeans clustering on all variables

```
data <- read.csv("hour.csv")
data$dteday <- NULL
data$instant<- NULL
```

KMEANS with all variables

```
model <- cascadeKM(data, 1, 10, iter = 10)

## Warning: Quick-TRANSfer stage steps exceeded maximum (= 868950)
```

```

model$results[2,]

##   1 groups  2 groups  3 groups  4 groups  5 groups  6 groups  7 groups
##       NA      31981.84    38524.86    42003.69    44808.37    45365.04    44521.81
##   8 groups  9 groups 10 groups
##   49376.97  51093.20   52255.84

which.max(model$results[2,])

## 10 groups
##          10

```

recomends 10 clusters most based on registrations

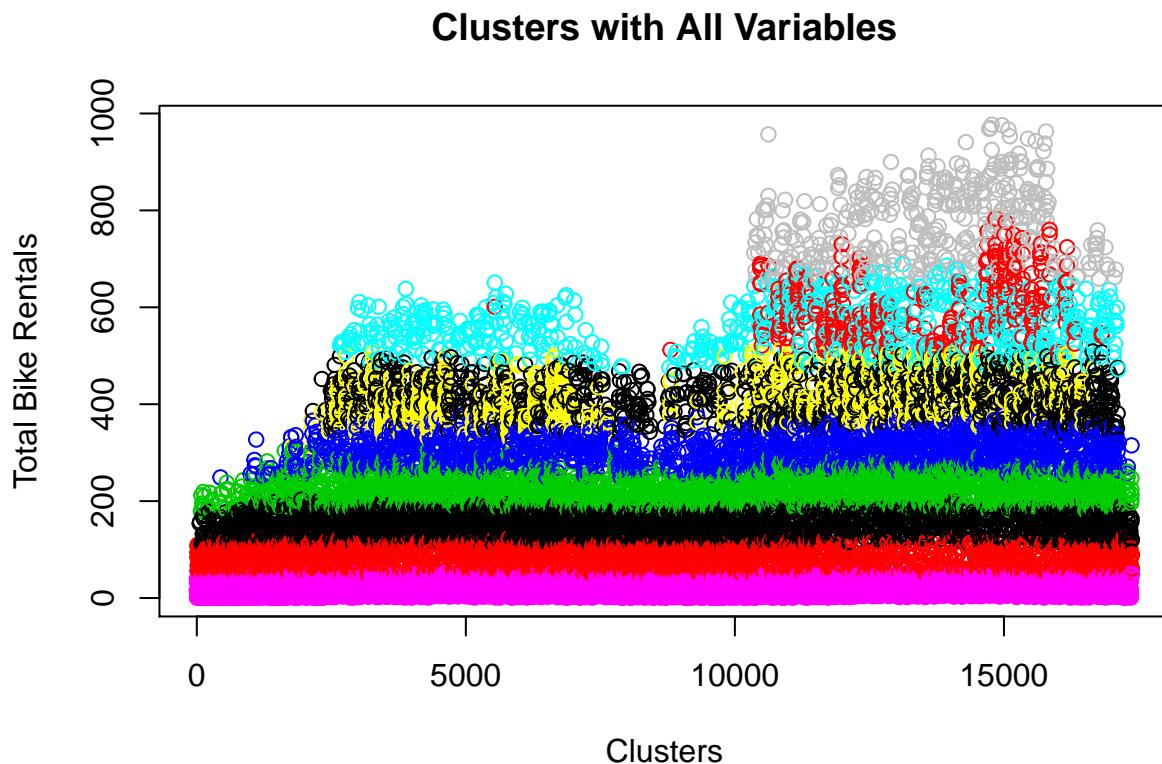
```

kfullresult <- kmeans(data,10)
kfullresult$size

##  [1] 2719  336 2342 1731   616 4826   700   369   927 2813

plot(data$cnt, col=kfullresult$cluster, xlab="Clusters",ylab="Total Bike Rentals",main = "Clusters with All Variables")

```



KMEANS without registered and casual users

```
data$dteday <- NULL
data$instant<- NULL
data$casual <- NULL
data$registered <- NULL
data$cnt <- NULL
model <- cascadeKM(data, 1, 10, iter = 10)
model$results[2,]

## 1 groups 2 groups 3 groups 4 groups 5 groups 6 groups 7 groups
##       NA 20753.29 15824.22 13749.14 13156.95 13241.88 12392.88
## 8 groups 9 groups 10 groups
## 11932.94 11069.83 10418.34

which.max(model$results[2,])

## 2 groups
##      2
```

recomends 2 groups

```
kresult <- kmeans(data, 2)
kresult$size
```



```
## [1] 8636 8743
```

cnt registered and casual are the biggest factors in the groupings probably due to their variance

Clustering without registered and casual users

```
data$dteday <- NULL
data$instant<- NULL
data$casual <- NULL
data$registered <- NULL
data$cnt <- NULL
model <- cascadeKM(data, 1, 10, iter = 10)
model$results[2,]

## 1 groups 2 groups 3 groups 4 groups 5 groups 6 groups 7 groups
##       NA 20753.29 15824.22 13750.12 13214.02 13147.57 12382.95
## 8 groups 9 groups 10 groups
## 11932.94 11015.83 10318.79
```

```
which.max(model$results[2,])
```

```
## 2 groups  
##          2
```

recomends 2 groups

```
kresult <- kmeans(data,2)  
kresult$size
```

```
## [1] 8771 8608
```

cnt registered and casual are the biggest factors in the groupings probably due to their variance

Clustering by time

```
dateTime<-data  
dateTime$dteday<-NULL  
dateTime$weathersit <- NULL  
dateTime$atemp <- NULL  
dateTime$temp <- NULL  
dateTime$hum <- NULL  
dateTime$windspeed <- NULL  
dateTime$casual <- NULL  
dateTime$registered <- NULL  
dateTime$cnt <- NULL  
dateTime$instant<-NULL
```

clustering by time gives 2 clusters

```
model <- cascadeKM(dateTime, 1, 10, iter = 10)  
model$results[2,]
```

```
## 1 groups 2 groups 3 groups 4 groups 5 groups 6 groups 7 groups  
##          NA 21114.69 16181.22 14122.19 13638.55 13647.92 12997.91  
## 8 groups 9 groups 10 groups  
## 12405.68 11541.44 10829.07
```

```
which.max(model$results[2,])
```

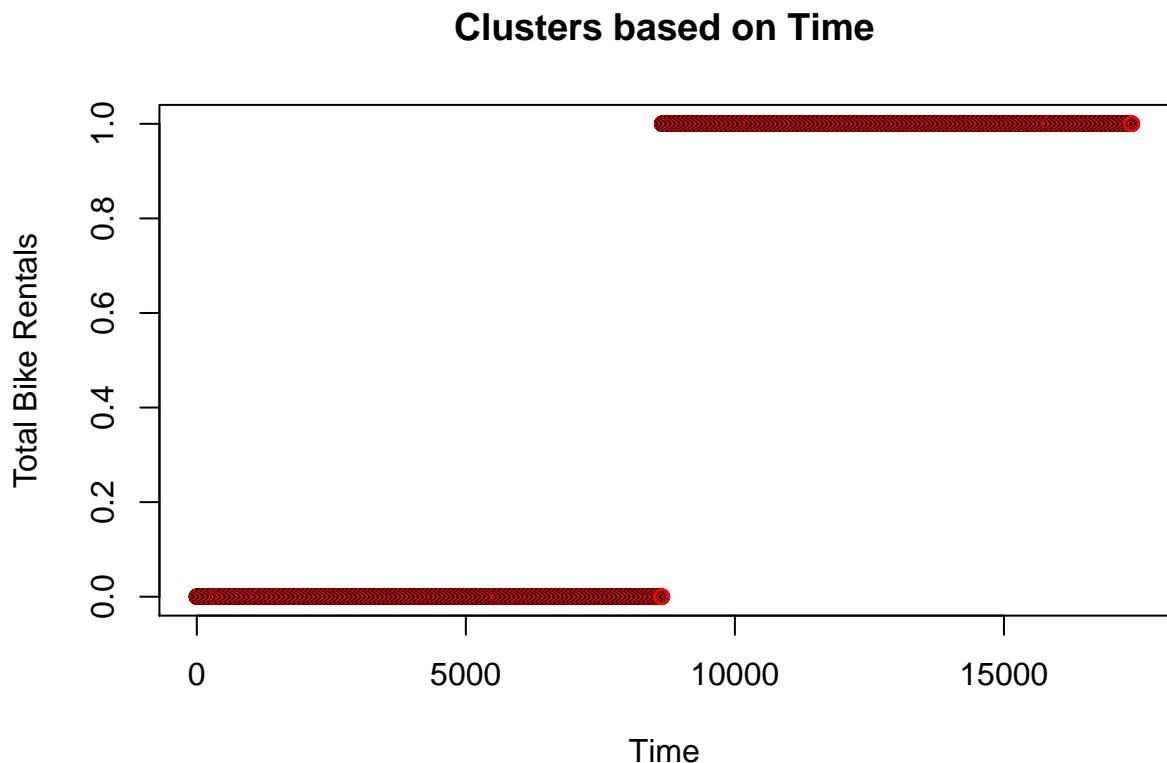
```
## 2 groups  
##          2
```

recomends 2 clusters

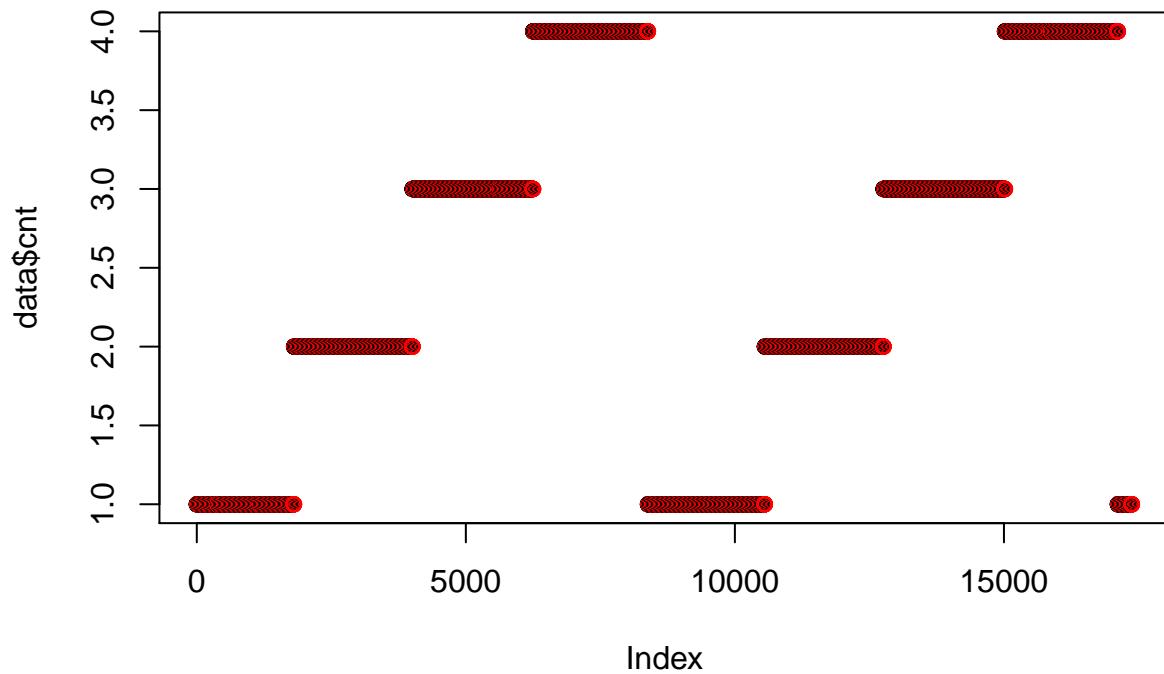
```
kTimeresult <- kmeans(dataTime,2)
kTimeresult$size

## [1] 8636 8743

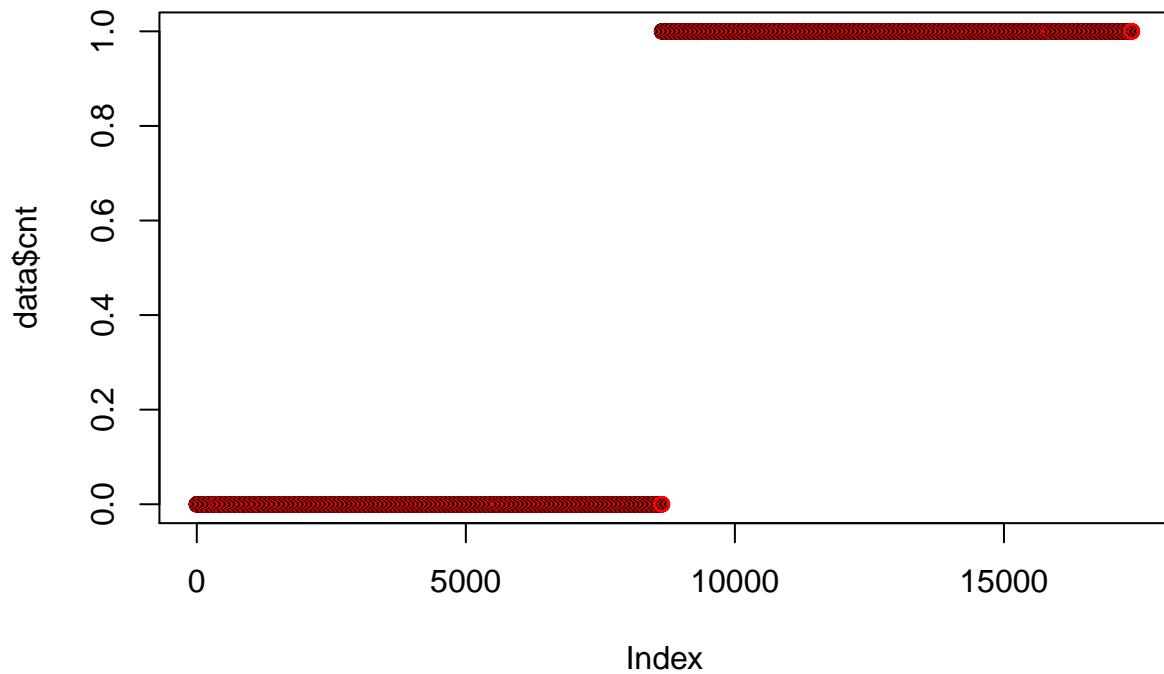
plot(data$yr,data$cnt,col=kTimeresult$cluster, xlab="Time", ylab="Total Bike Rentals", main = "Clusters based on Time")
```



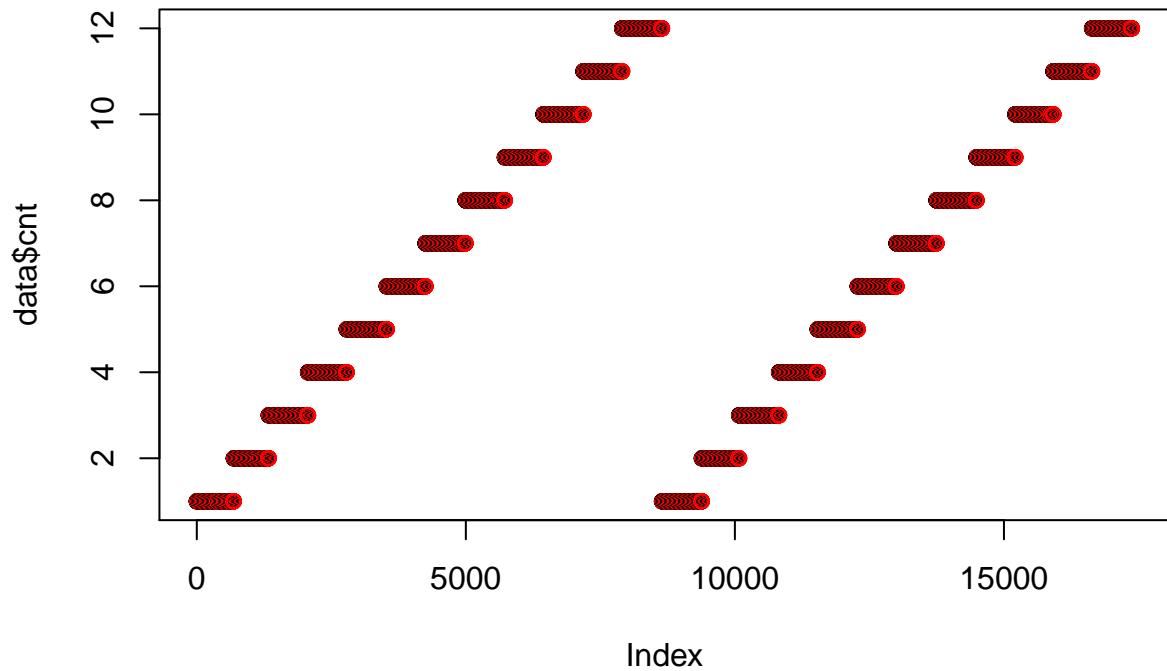
```
plot(data$season,data$cnt, col=kTimeresult$cluster)
```



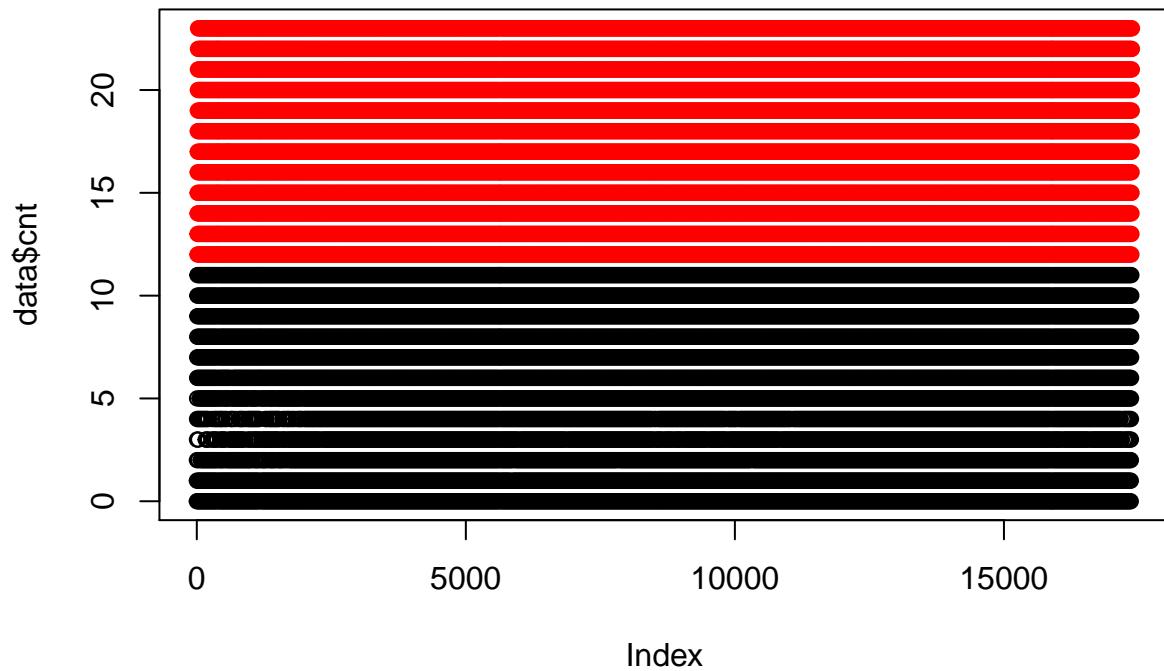
```
plot(data$yr,data$cnt,col=kTimeresult$cluster)
```



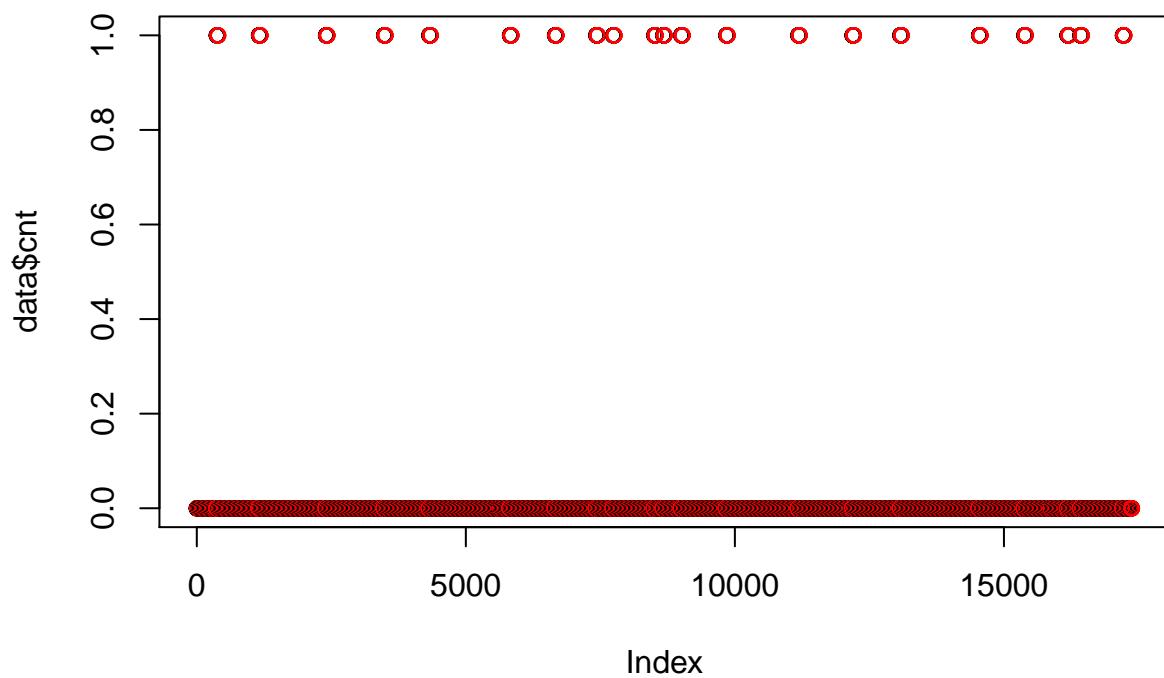
```
plot(data$mnth,data$cnt,col=kTimeresult$cluster)
```



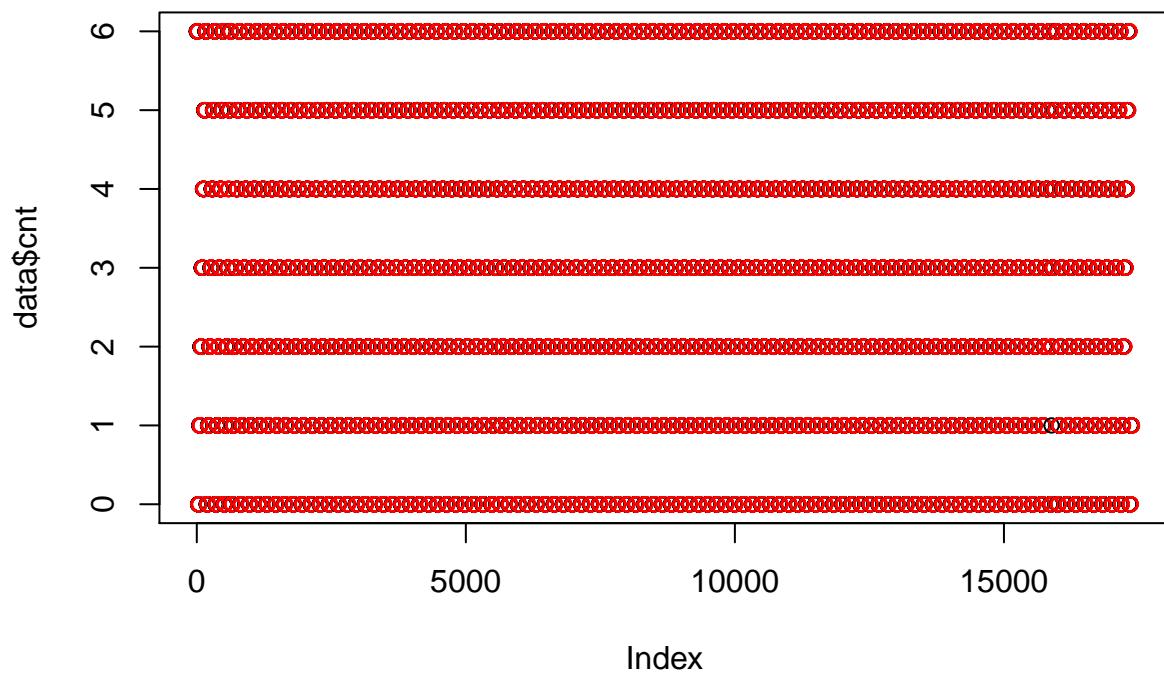
```
plot(data$hr,data$cnt,col=kTimeresult$cluster)
```



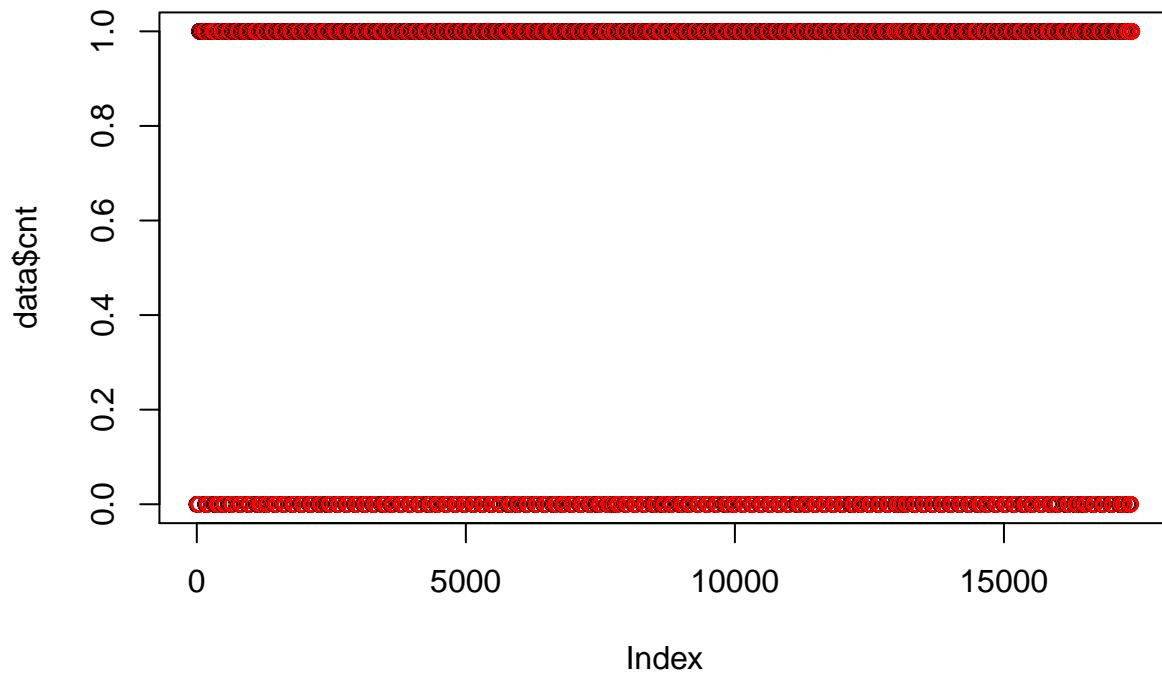
```
plot(data$holiday,data$cnt,col=kTimeresult$cluster)
```



```
plot(data$weekday,data$cnt,col=kTimeresult$cluster)
```



```
plot(data$workingday,data$cnt,col=kTimeresult$cluster)
```



cluster by weather conditions

```

dataWeather<-data
dataWeather$dteday <- NULL
dataWeather$yr <- NULL
dataWeather$mnth <- NULL
dataWeather$hr <- NULL
dataWeather$holiday <- NULL
dataWeather$weekday <- NULL
dataWeather$workingday <- NULL
dataWeather$instant<-NULL
dataWeather$casual <- NULL
dataWeather$registered <- NULL
dataWeather$cnt <- NULL
model <- cascadeKM(dataWeather, 1, 10, iter = 10)
model$results[2,]

## 1 groups 2 groups 3 groups 4 groups 5 groups 6 groups 7 groups
##       NA 22359.38 17423.18 18786.94 19594.47 22029.76 22329.82
## 8 groups 9 groups 10 groups
## 26922.90 27066.17 25404.99

```

```
which.max(model$results[2,])
```

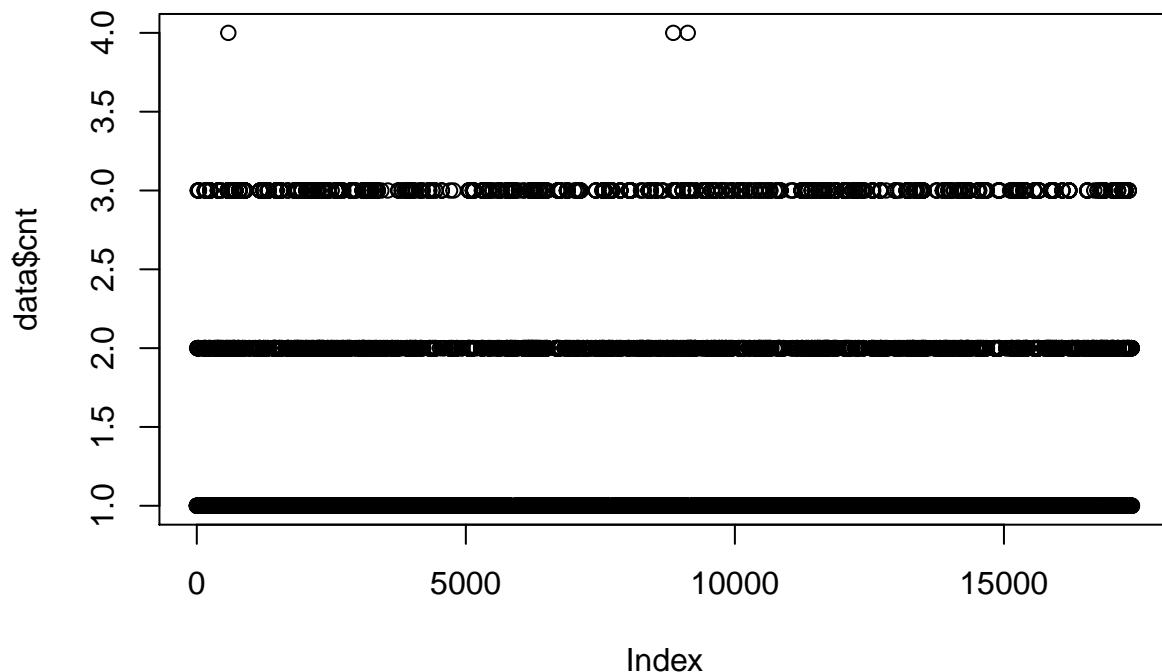
```
## 9 groups  
##         9
```

recommends 8 clusters

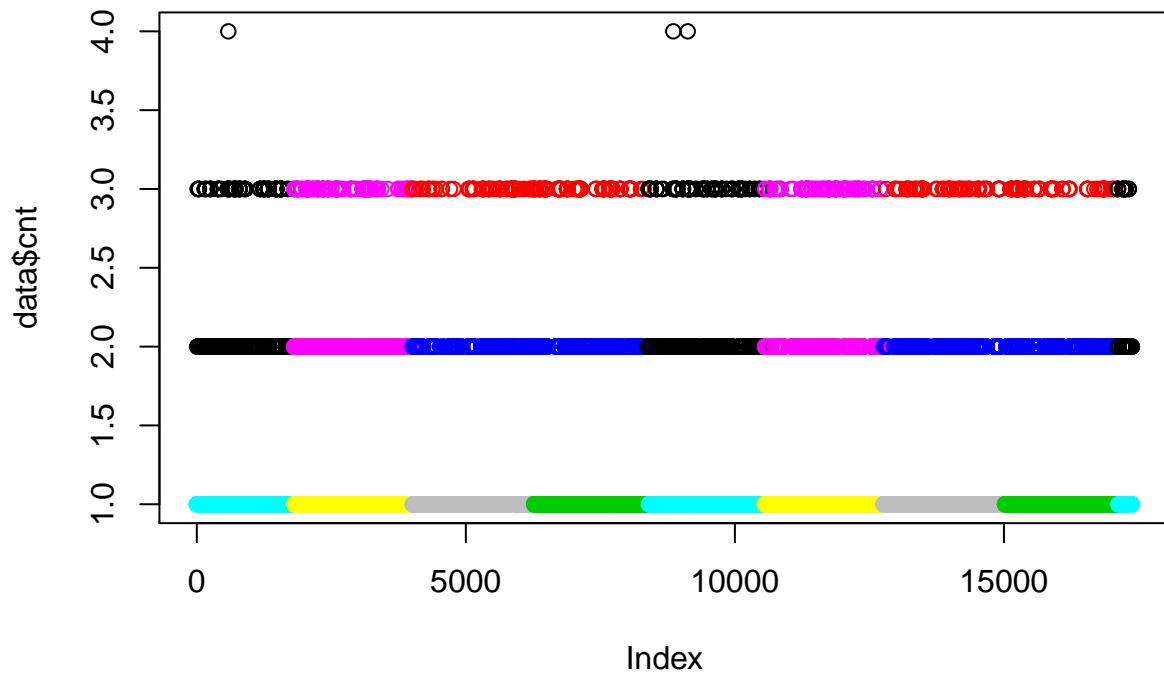
```
kweatherresult <- kmeans(dataWeather,8)  
kweatherresult$size
```

```
## [1] 1577 644 2609 2195 2665 1550 2859 3280
```

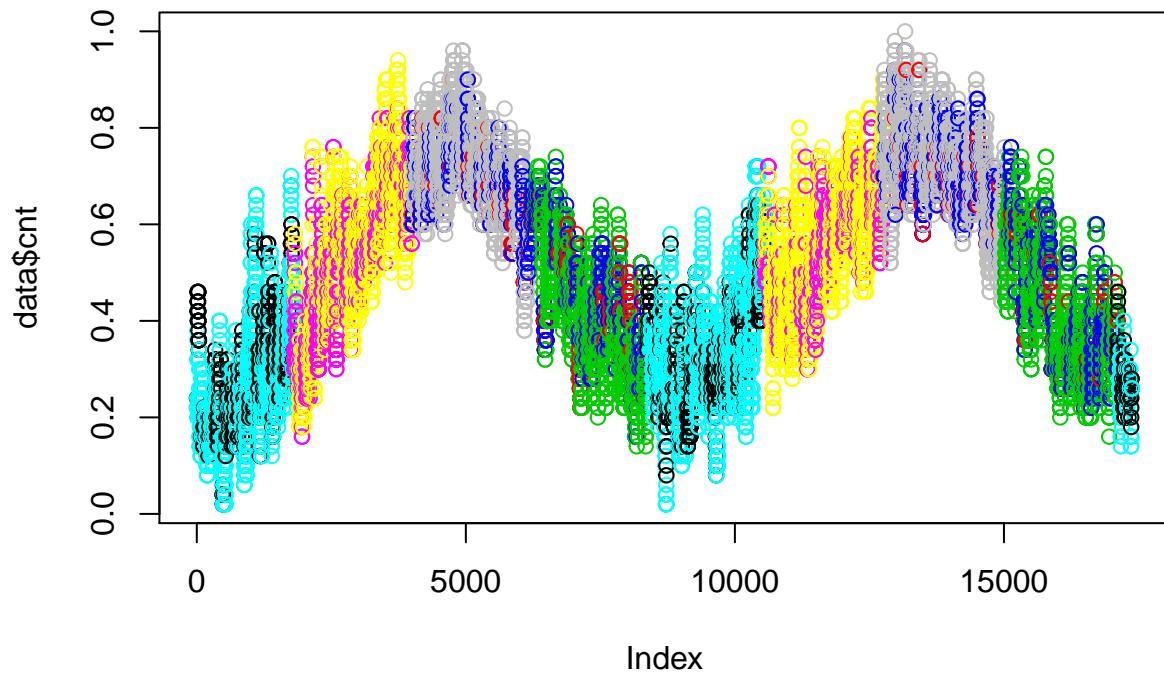
```
plot(data$weathersit,data$cnt)
```



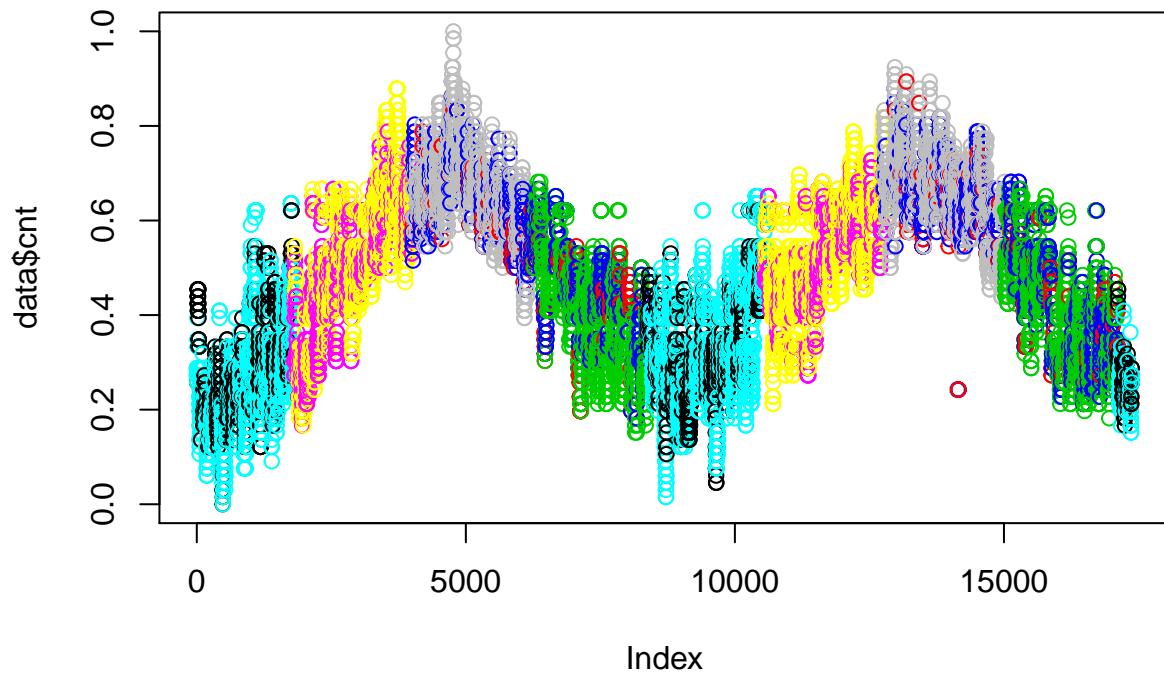
```
#plot(data$cnt, data$weathersit, col=kweatherresult$cluster, xlab="Weather", ylab="Total Bike Rentals",  
plot(data$weathersit,data$cnt,col=kweatherresult$cluster)
```



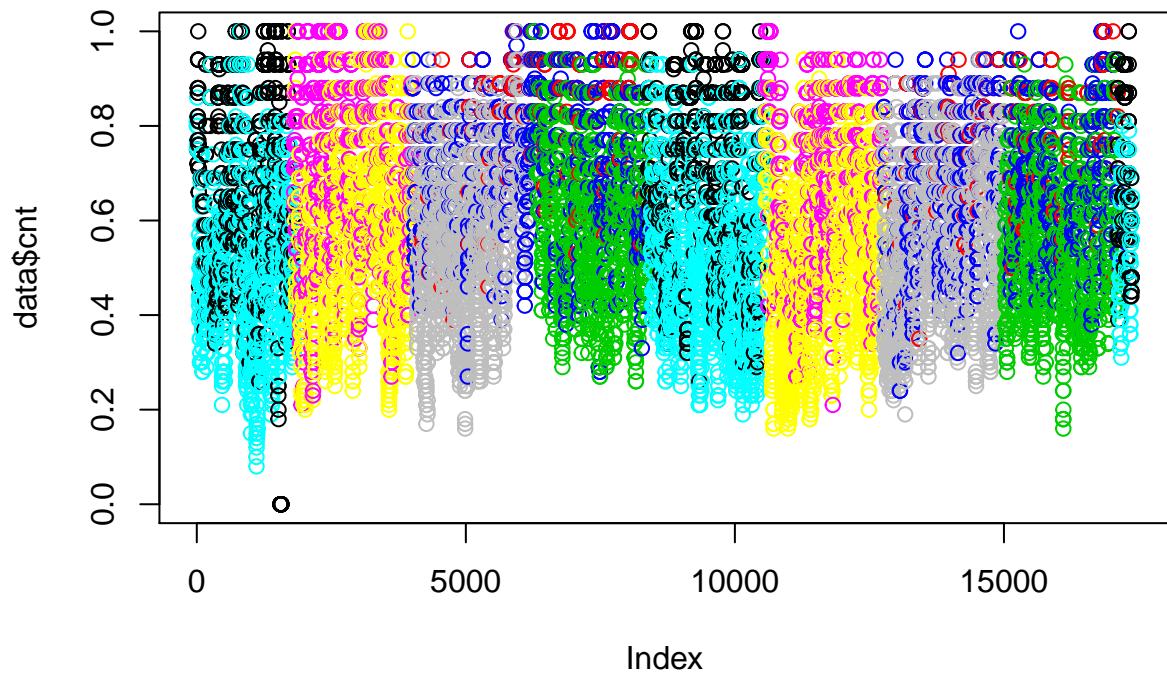
```
plot(data$temp,data$cnt,col=kweatherresult$cluster)
```



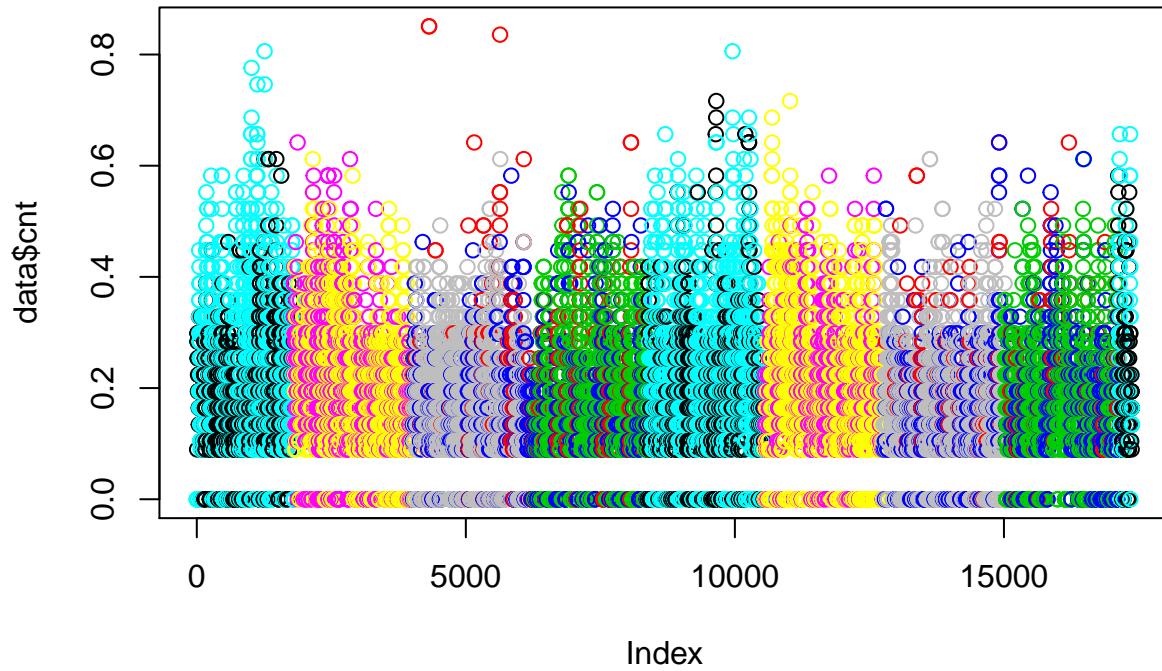
```
plot(data$atemp,data$cnt,col=kweatherresult$cluster)
```



```
plot(data$hum,data$cnt,col=kweatherresult$cluster)
```



```
plot(data$windspeed,data$cnt,col=kweatherresult$cluster)
```



PCA Analysis

```

data <- read.csv("hour.csv")
data$instant <- NULL
data$dteday <- NULL
data$casual <- NULL
data$registered <- NULL
data$cnt <- NULL
pca <- prcomp(data)
cor(data)

##          season         yr        mnth         hr
## season  1.000000000 -0.010742486  0.830385892 -0.006116901
## yr      -0.010742486  1.000000000 -0.010472929 -0.003867005
## mnth    0.830385892 -0.010472929  1.000000000 -0.005771909
## hr     -0.006116901 -0.003867005 -0.005771909  1.000000000
## holiday -0.009584526  0.006691617  0.018430325  0.000479136
## weekday -0.002335350 -0.004484851  0.010400061 -0.003497739
## workingday 0.013743102 -0.002196005 -0.003476922  0.002284998
## weathersit -0.014523552 -0.019156853  0.005399522 -0.020202528
## temp     0.312025237  0.040913380  0.201691494  0.137603494
## atemp    0.319379811  0.039221595  0.208096131  0.133749965
## hum      0.150624745 -0.083546421  0.164411443 -0.276497828

```

```

## windspeed -0.149772751 -0.008739533 -0.135386323 0.137251568
##          holiday      weekday workingday weathersit
## season     -0.009584526 -0.002335350 0.013743102 -0.014523552
## yr         0.006691617 -0.004484851 -0.002196005 -0.019156853
## mnth       0.018430325 0.010400061 -0.003476922 0.005399522
## hr          0.000479136 -0.003497739 0.002284998 -0.020202528
## holiday    1.000000000 -0.102087791 -0.252471370 -0.017036113
## weekday   -0.102087791 1.000000000 0.035955071 0.003310740
## workingday -0.252471370 0.035955071 1.000000000 0.044672224
## weathersit -0.017036113 0.003310740 0.044672224 1.000000000
## temp        -0.027340477 -0.001794927 0.055390317 -0.102639936
## atemp      -0.030972737 -0.008820945 0.054667235 -0.105563108
## hum         -0.010588465 -0.037158268 0.015687512 0.418130329
## windspeed   0.003987632 0.011501545 -0.011829789 0.026225652
##          temp      atemp      hum      windspeed
## season     0.312025237 0.319379811 0.15062475 -0.149772751
## yr         0.040913380 0.039221595 -0.08354642 -0.008739533
## mnth       0.201691494 0.208096131 0.16441144 -0.135386323
## hr          0.137603494 0.133749965 -0.27649783 0.137251568
## holiday   -0.027340477 -0.030972737 -0.01058846 0.003987632
## weekday   -0.001794927 -0.008820945 -0.03715827 0.011501545
## workingday 0.055390317 0.054667235 0.01568751 -0.011829789
## weathersit -0.102639936 -0.105563108 0.41813033 0.026225652
## temp        1.000000000 0.987672139 -0.06988139 -0.023125262
## atemp      0.987672139 1.000000000 -0.05191770 -0.062336043
## hum         -0.069881391 -0.051917696 1.000000000 -0.290104895
## windspeed  -0.023125262 -0.062336043 -0.29010490 1.000000000

```

The correlation matrix shows that the variables are not highly correlated.

```
print(pca)
```

```

## Standard deviations (1, .., p=12):
## [1] 6.91478034 3.56378391 2.00583341 0.64845397 0.59737248 0.50001360
## [7] 0.46565130 0.23621986 0.16892501 0.16000792 0.11000483 0.01940819
##
## Rotation (n x k) = (12 x 12):
##          PC1        PC2        PC3        PC4
## season     0.00126740526 -0.2656256752 0.0083566886 -0.211260507
## yr          0.00027723374 0.0015273581 0.0011527321 -0.041751817
## mnth       0.00392894171 -0.9638523883 0.0056907162 0.057490706
## hr          -0.99994334128 -0.0041332300 -0.0010519365 0.003076518
## holiday   -0.00001149374 -0.0007462257 0.0086207902 -0.004303375
## weekday   0.00111160535 -0.0077623628 -0.9998620101 -0.002673320
## workingday -0.00015388134 0.0002464281 -0.0088563129 0.052651759
## weathersit 0.00189474013 -0.0006960796 -0.0011419750 0.962581561
## temp        -0.00382482252 -0.0116440655 0.0004533480 -0.051451999
## atemp      -0.00331734883 -0.0107061310 0.0010166636 -0.046672909
## hum         0.00773190094 -0.0088502877 0.0039070797 0.126826832

```

```

## windspeed -0.00243487031 0.0047189350 -0.0008637635 0.006268050
##                               PC5          PC6          PC7          PC8
## season      -0.9288061201 0.00533102003 -0.077149540 -0.1245879224
## yr          0.0186842864 0.99802982064 -0.007324636 -0.0286076087
## mnth         0.2584729452 -0.00014366751 0.021293453 0.0182818491
## hr          -0.0003124187 0.00004608731 -0.000545729 -0.0052150423
## holiday      0.0208516574 0.00089159491 -0.098631179 -0.0057322046
## weekday     -0.0053466941 0.00098375508 -0.010070917 0.0001734542
## workingday   -0.0878787454 0.01023356623 0.988843640 -0.0388528275
## weathersit   -0.2167551185 0.04923094709 -0.069371579 0.0474504252
## temp         -0.0855972701 0.02039004511 0.023167265 0.7396024885
## atemp        -0.0771315208 0.01750529254 0.020535627 0.6570694730
## hum          -0.0396681926 -0.02555217240 -0.011041818 -0.0273850250
## windspeed    0.0119651138 -0.00166045472 -0.002557510 -0.0014090305
##                               PC9          PC10         PC11         PC12
## season      -0.021332184 -0.0079201969 -0.0062645024 0.00030344143
## yr          0.028283793 -0.0002136898 -0.0129723389 -0.00027593349
## mnth        -0.004654378 0.0041746881 0.0007455326 -0.00005649625
## hr          0.007581616 -0.0006402704 -0.0004083519 0.00008538166
## holiday     -0.093041049 -0.9904622239 -0.0049776502 -0.00363607357
## weekday     0.003182635 -0.0080885395 -0.0007648421 -0.00042093700
## workingday  -0.010562415 -0.0993803383 -0.0035099346 -0.00050200219
## weathersit  -0.119290756 0.0088748577 0.0514793847 -0.00132604942
## temp         0.006656958 -0.0110263956 -0.0339203428 0.66377298592
## atemp        0.034445937 -0.0078061361 0.0151589187 -0.74686010582
## hum          0.915949827 -0.0843342776 -0.3667949204 0.00695486757
## windspeed   -0.368052011 0.0398565327 -0.9280005642 -0.03926127833

```

```
summary(pca)
```

```

## Importance of components:
##                               PC1          PC2          PC3          PC4          PC5          PC6
## Standard deviation      6.9148 3.5638 2.00583 0.64845 0.59737 0.50001
## Proportion of Variance 0.7255 0.1927 0.06105 0.00638 0.00541 0.00379
## Cumulative Proportion  0.7255 0.9182 0.97926 0.98564 0.99106 0.99485
##                               PC7          PC8          PC9          PC10         PC11         PC12
## Standard deviation      0.46565 0.23622 0.16893 0.16001 0.11000 0.01941
## Proportion of Variance 0.00329 0.00085 0.00043 0.00039 0.00018 0.00001
## Cumulative Proportion  0.99814 0.99899 0.99942 0.99981 0.99999 1.00000

```

```
abs(pca$rotation)
```

```

##                               PC1          PC2          PC3          PC4
## season      0.00126740526 0.2656256752 0.0083566886 0.211260507
## yr          0.00027723374 0.0015273581 0.0011527321 0.041751817
## mnth        0.00392894171 0.9638523883 0.0056907162 0.057490706
## hr          0.99994334128 0.0041332300 0.0010519365 0.003076518
## holiday     0.00001149374 0.0007462257 0.0086207902 0.004303375
## weekday     0.00111160535 0.0077623628 0.9998620101 0.002673320
## workingday  0.00015388134 0.0002464281 0.0088563129 0.052651759
## weathersit  0.00189474013 0.0006960796 0.0011419750 0.962581561
## temp         0.00382482252 0.0116440655 0.0004533480 0.051451999
## atemp        0.00331734883 0.0107061310 0.0010166636 0.046672909

```

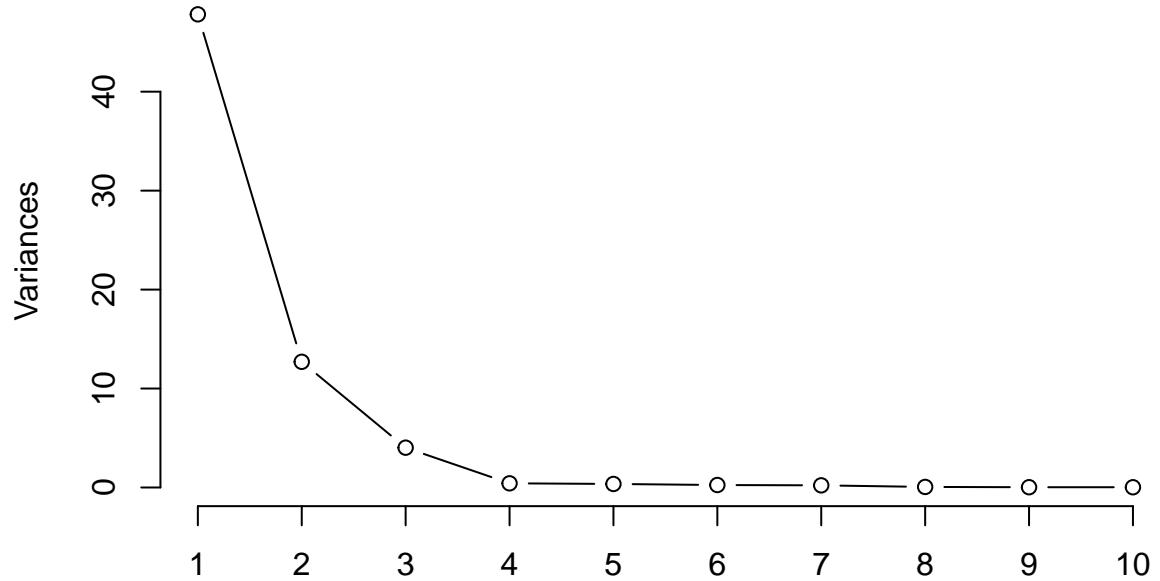
```

## hum      0.00773190094 0.0088502877 0.0039070797 0.126826832
## windspeed 0.00243487031 0.0047189350 0.0008637635 0.006268050
##          PC5      PC6      PC7      PC8      PC9
## season   0.9288061201 0.00533102003 0.077149540 0.1245879224 0.021332184
## yr       0.0186842864 0.99802982064 0.007324636 0.0286076087 0.028283793
## mnth     0.2584729452 0.00014366751 0.021293453 0.0182818491 0.004654378
## hr       0.0003124187 0.00004608731 0.000545729 0.0052150423 0.007581616
## holiday  0.0208516574 0.00089159491 0.098631179 0.0057322046 0.093041049
## weekday  0.0053466941 0.00098375508 0.010070917 0.0001734542 0.003182635
## workingday 0.0878787454 0.01023356623 0.988843640 0.0388528275 0.010562415
## weathersit 0.2167551185 0.04923094709 0.069371579 0.0474504252 0.119290756
## temp     0.0855972701 0.02039004511 0.023167265 0.7396024885 0.006656958
## atemp    0.0771315208 0.01750529254 0.020535627 0.6570694730 0.034445937
## hum      0.0396681926 0.02555217240 0.011041818 0.0273850250 0.915949827
## windspeed 0.0119651138 0.00166045472 0.002557510 0.0014090305 0.368052011
##          PC10     PC11     PC12
## season   0.0079201969 0.0062645024 0.00030344143
## yr       0.0002136898 0.0129723389 0.00027593349
## mnth     0.0041746881 0.0007455326 0.00005649625
## hr       0.0006402704 0.0004083519 0.00008538166
## holiday  0.9904622239 0.0049776502 0.00363607357
## weekday  0.0080885395 0.0007648421 0.00042093700
## workingday 0.0993803383 0.0035099346 0.00050200219
## weathersit 0.0088748577 0.0514793847 0.00132604942
## temp     0.0110263956 0.0339203428 0.66377298592
## atemp    0.0078061361 0.0151589187 0.74686010582
## hum      0.0843342776 0.3667949204 0.00695486757
## windspeed 0.0398565327 0.9280005642 0.03926127833

```

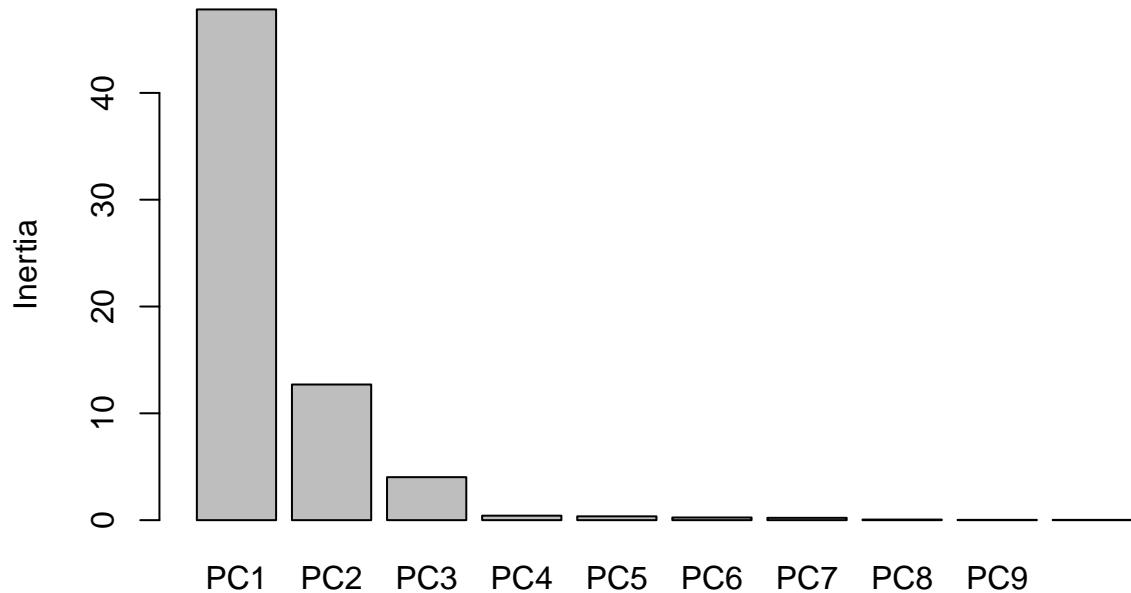
```
plot(pca, type="lines", main="PCA")
```

PCA



```
screeplot(pca, main="PCA")
```

PCA



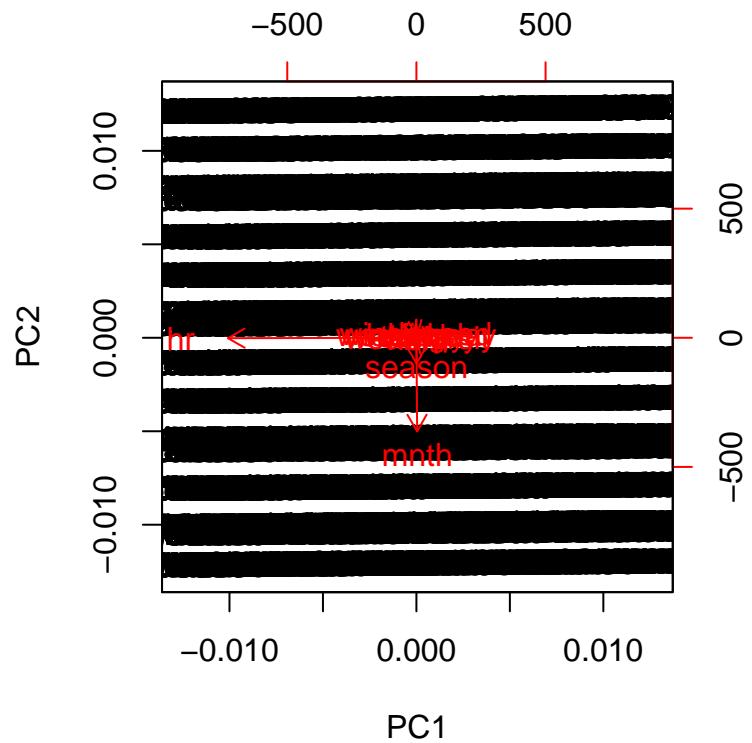
First 3 components are the most important

```
biplot(pca)
```

```
## Warning in arrows(0, 0, y[, 1L] * 0.8, y[, 2L] * 0.8, col = col[2L], length
## = arrow.len): zero-length arrow is of indeterminate angle and so skipped

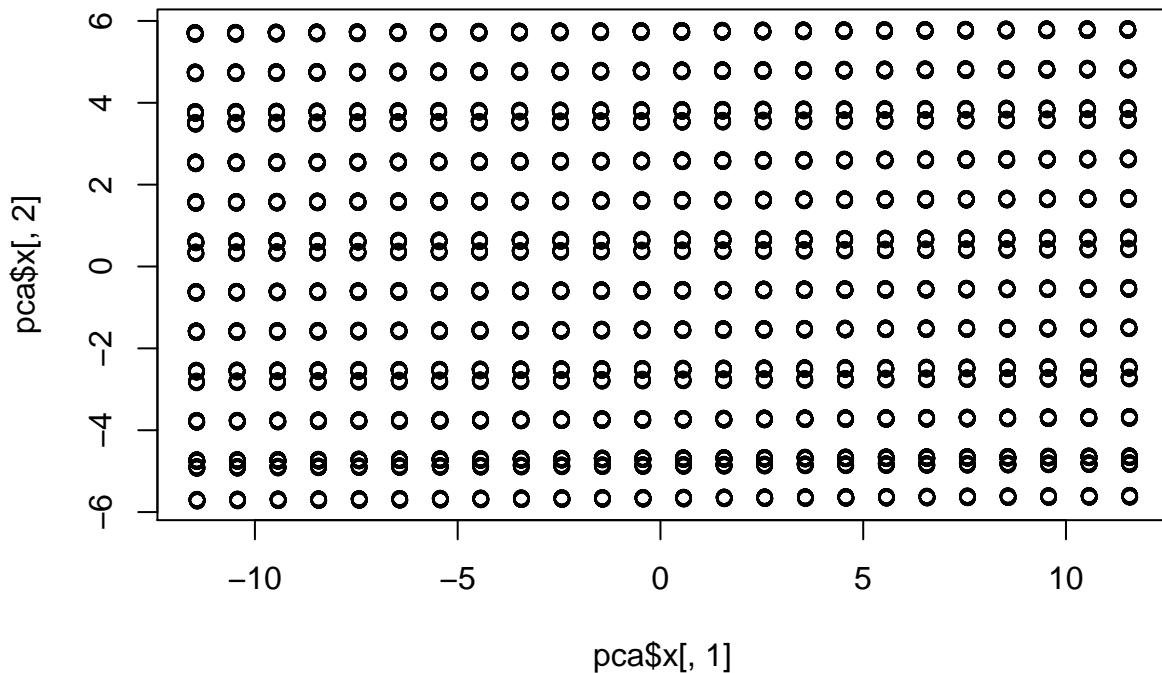
## Warning in arrows(0, 0, y[, 1L] * 0.8, y[, 2L] * 0.8, col = col[2L], length
## = arrow.len): zero-length arrow is of indeterminate angle and so skipped

## Warning in arrows(0, 0, y[, 1L] * 0.8, y[, 2L] * 0.8, col = col[2L], length
## = arrow.len): zero-length arrow is of indeterminate angle and so skipped
```



its a lot of noise but its shows how hr season mnth are important on the component graph

```
plot(pca$x[,1], pca$x[,2])
```



```
pca.var <- pca$sdev^2
pca.var.per <- round(pca.var/sum(pca.var)*100,1)
varimax(pca$rotation[,1:5])
```

```
## $loadings
##
## Loadings:
##          PC1      PC2      PC3      PC4      PC5
## season           0.177 -0.972
## yr              -0.999
## mnth            -1.000
## hr              -1.000
## holiday
## weekday         -1.000
## workingday
## weathersit       0.970  0.179
## temp
## atemp
## hum             0.133
## windspeed
##
##          PC1      PC2      PC3      PC4      PC5
## SS loadings   1.000  1.000  1.000  1.000  1.000
## Proportion Var 0.083  0.083  0.083  0.083  0.083
## Cumulative Var 0.083  0.167  0.250  0.333  0.417
```

```

##  

## $rotmat  

##           [,1]      [,2]      [,3]      [,4]      [,5]  

## [1,]  0.9998214679 -0.004342561 -0.0008269368  0.011545792 -0.01428934  

## [2,]  0.0078082307  0.974523987  0.0046576652 -0.035433697  0.22127989  

## [3,]  0.0006833741 -0.002465951  0.9999412835 -0.001402955 -0.01043616  

## [4,] -0.0053231943 -0.054480927  0.0052034547  0.920279243  0.38737905  

## [5,]  0.0163481038 -0.217508365  0.0082447522 -0.389480801  0.89479583

pca$center

##      season      yr      mnth      hr      holiday      weekday
##  2.50163991  0.50256056  6.53777548 11.54675183  0.02877036  3.00368261
##  workingday  weathersit      temp      atemp      hum      windspeed
##  0.68272052  1.42528339  0.49698717  0.47577510  0.62722884  0.19009761

```

SUPERVISED MODELS

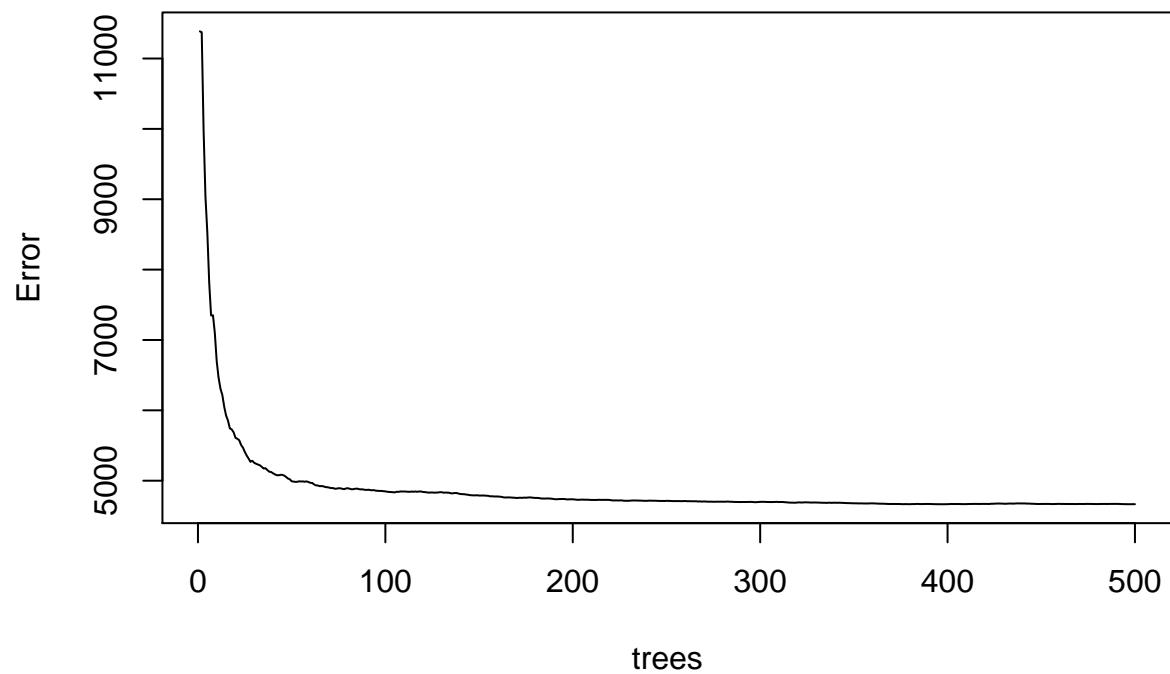
Random Forest

```

data <- read.csv("hour.csv")
set.seed(123)
tree.rf=randomForest(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data=data, imp=TRUE)
plot(tree.rf)

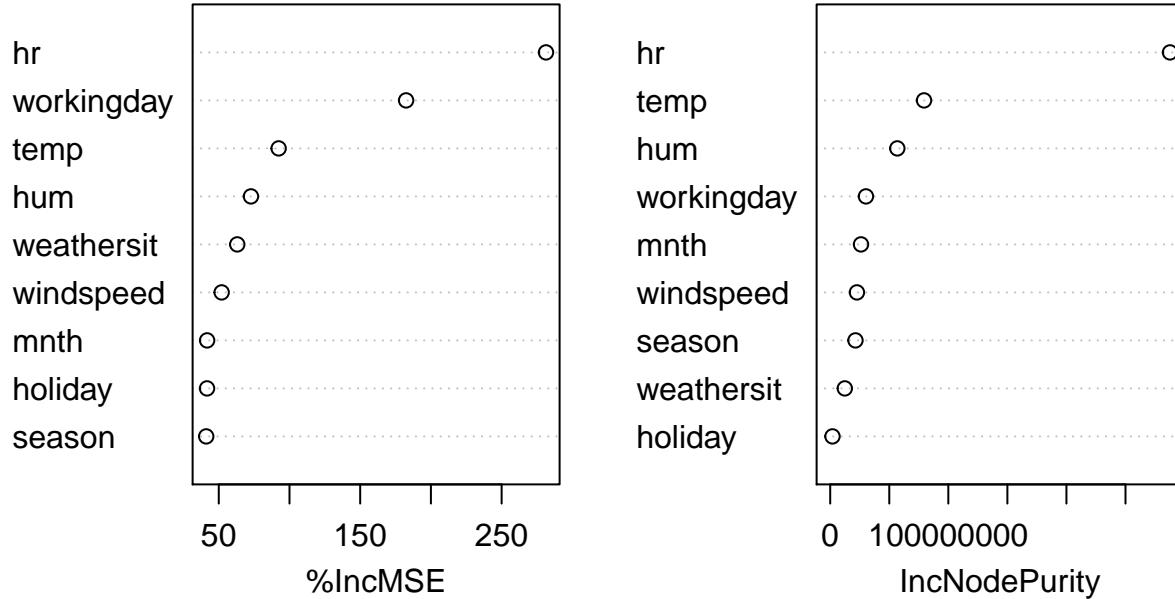
```

tree.rf



```
varImpPlot(tree.rf)
```

tree.rf



```

predict.rf=predict(tree.rf,data)
RMSE.forest=sqrt(mean((predict.rf-data$cnt)^2))
MSE.forest=mean((predict.rf-data$cnt)^2)
MAE.forest=mean(abs(predict.rf- data$cnt))
saveRDS(tree.rf, "model.rds")

```

Liner Regression Model

```

data <- read.csv("hour.csv")
train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
lModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data, method="glm"

## + Fold01: parameter=none
## - Fold01: parameter=none
## + Fold02: parameter=none
## - Fold02: parameter=none
## + Fold03: parameter=none
## - Fold03: parameter=none
## + Fold04: parameter=none
## - Fold04: parameter=none
## + Fold05: parameter=none
## - Fold05: parameter=none

```

```

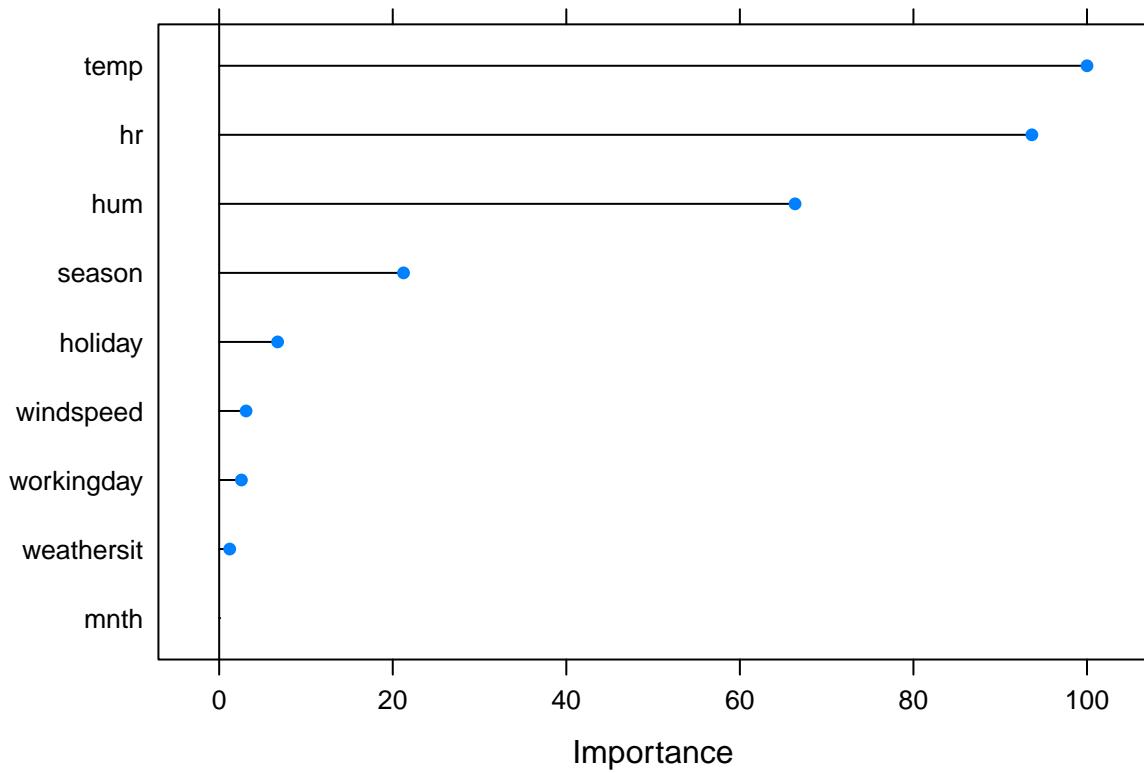
## + Fold06: parameter=none
## - Fold06: parameter=none
## + Fold07: parameter=none
## - Fold07: parameter=none
## + Fold08: parameter=none
## - Fold08: parameter=none
## + Fold09: parameter=none
## - Fold09: parameter=none
## + Fold10: parameter=none
## - Fold10: parameter=none
## Aggregating results
## Fitting final model on full training set

lmPredictions<- predict(lModel,data)
RMSE.lm=sqrt(mean((lmPredictions-data$cnt)^2))
MSE.lm=mean((lmPredictions-data$cnt)^2)
MAE.lm=mean(abs(lmPredictions- data$cnt))
summary(lModel)

##
## Call:
## NULL
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -329.80    -96.83   -30.61    54.72   691.58
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 44.5895   6.6628   6.692 2.26e-11 ***
## season      19.1640   1.8912  10.133 < 2e-16 ***
## mnth        0.1688   0.5898   0.286 0.774687
## hr          7.4870   0.1714  43.691 < 2e-16 ***
## holiday     -23.6200  6.9295  -3.409 0.000654 ***
## workingday   3.6747   2.4927   1.474 0.140444
## weathersit  -1.6793  1.9786  -0.849 0.396042
## temp         292.4673  6.2714  46.635 < 2e-16 ***
## hum          -220.9899  7.1189 -31.043 < 2e-16 ***
## windspeed    16.8348   9.7658   1.724 0.084753 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 21788.38)
##
## Null deviance: 571761591 on 17378 degrees of freedom
## Residual deviance: 378442406 on 17369 degrees of freedom
## AIC: 222933
##
## Number of Fisher Scoring iterations: 2

plot(varImp(lModel))

```



Regression Tree

```

data <- read.csv("hour.csv")
train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
rpartModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data, method="rpart")

## + Fold01: cp=0.0506
## - Fold01: cp=0.0506
## + Fold02: cp=0.0506
## - Fold02: cp=0.0506
## + Fold03: cp=0.0506
## - Fold03: cp=0.0506
## + Fold04: cp=0.0506
## - Fold04: cp=0.0506
## + Fold05: cp=0.0506
## - Fold05: cp=0.0506
## + Fold06: cp=0.0506
## - Fold06: cp=0.0506
## + Fold07: cp=0.0506
## - Fold07: cp=0.0506
## + Fold08: cp=0.0506
## - Fold08: cp=0.0506
## + Fold09: cp=0.0506

```

```

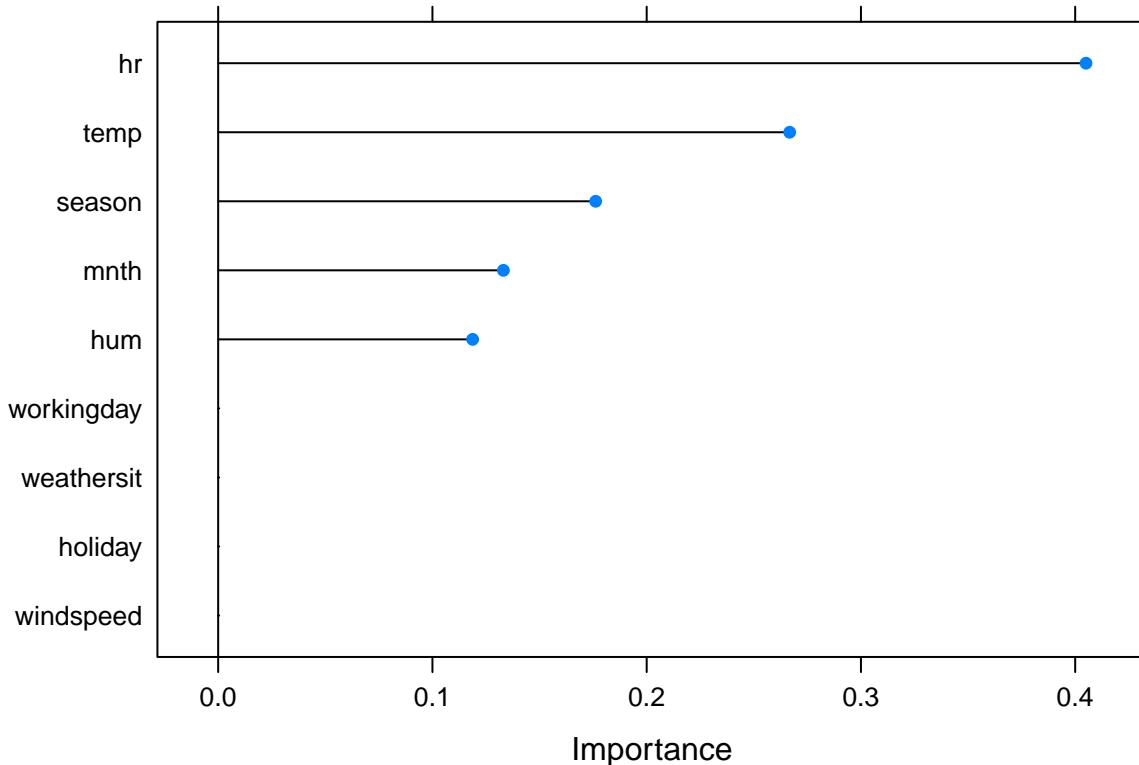
## - Fold09: cp=0.0506
## + Fold10: cp=0.0506
## - Fold10: cp=0.0506

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.

## Aggregating results
## Selecting tuning parameters
## Fitting cp = 0.0506 on full training set

rpartPredictions<- predict(rpartModel,data)
RMSE.rpart=sqrt(mean((rpartPredictions-data$cnt)^2))
MSE.rpart=mean((rpartPredictions-data$cnt)^2)
MAE.rpart=mean(abs(rpartPredictions- data$cnt))
plot(varImp(rpartModel, scale=FALSE))

```



svm (Linear)

```

data <- read.csv("hour.csv")
train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
svmModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data, method="svr")

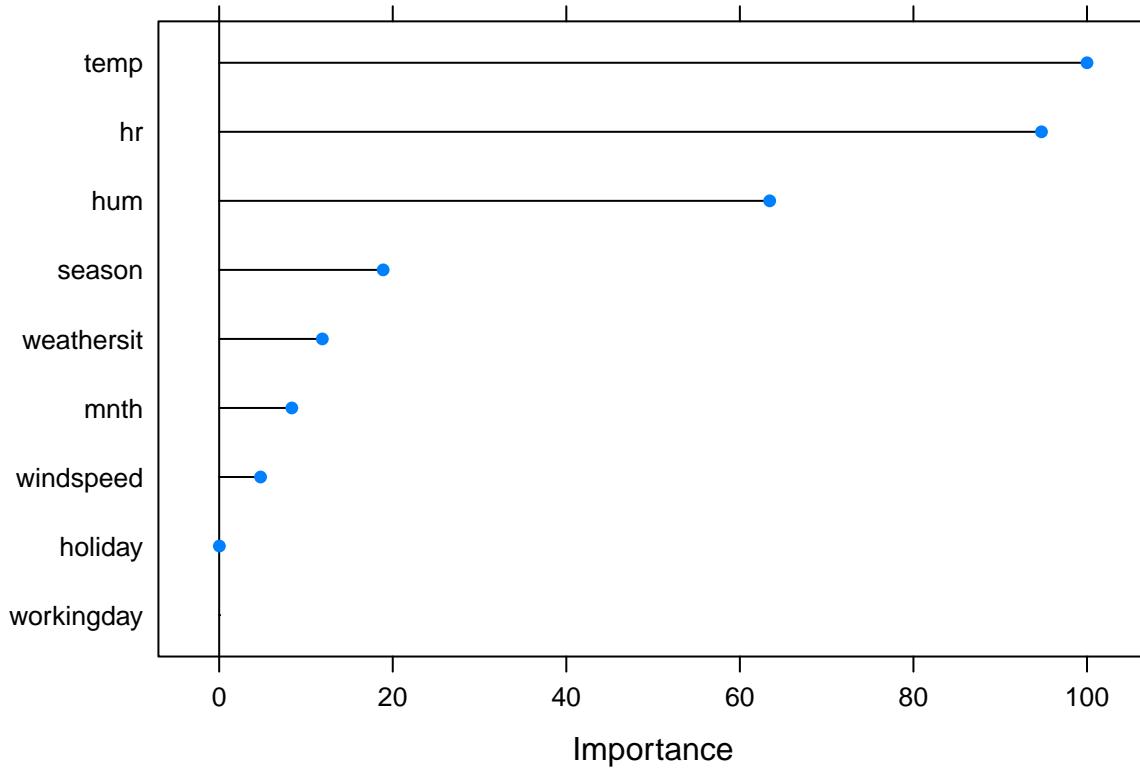
```

```

## + Fold01: C=1
## - Fold01: C=1
## + Fold02: C=1
## - Fold02: C=1
## + Fold03: C=1
## - Fold03: C=1
## + Fold04: C=1
## - Fold04: C=1
## + Fold05: C=1
## - Fold05: C=1
## + Fold06: C=1
## - Fold06: C=1
## + Fold07: C=1
## - Fold07: C=1
## + Fold08: C=1
## - Fold08: C=1
## + Fold09: C=1
## - Fold09: C=1
## + Fold10: C=1
## - Fold10: C=1
## Aggregating results
## Fitting final model on full training set

svmPredictions<- predict(svmModel,data)
RMSE.svm=sqrt(mean((svmPredictions-data$cnt)^2))
MSE.svm=mean((svmPredictions-data$cnt)^2)
MAE.svm=mean(abs(svmPredictions- data$cnt))
plot(varImp(svmModel))

```



Neurel Network

```

data <- read.csv("hour.csv")
train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
nnetModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data, method="n"

## + Fold01: size=1, decay=0.0000
## # weights: 12
## initial value 1072527197.560100
## final value 1069223112.000000
## converged
## - Fold01: size=1, decay=0.0000
## + Fold01: size=3, decay=0.0000
## # weights: 34
## initial value 1071351799.254165
## final value 1069223112.000000
## converged
## - Fold01: size=3, decay=0.0000
## + Fold01: size=5, decay=0.0000
## # weights: 56
## initial value 1070598715.466061
## final value 1069223112.000000
## converged

```

```

## - Fold01: size=5, decay=0.0000
## + Fold01: size=1, decay=0.1000
## # weights: 12
## initial value 1072162789.737854
## iter 10 value 1069226105.893479
## final value 1069223149.370890
## converged
## - Fold01: size=1, decay=0.1000
## + Fold01: size=3, decay=0.1000
## # weights: 34
## initial value 1073224254.134819
## iter 10 value 1069233160.772637
## iter 20 value 1069223202.631749
## final value 1069223131.198409
## converged
## - Fold01: size=3, decay=0.1000
## + Fold01: size=5, decay=0.1000
## # weights: 56
## initial value 1071134558.839865
## iter 10 value 1069224580.337823
## final value 1069223127.174493
## converged
## - Fold01: size=5, decay=0.1000
## + Fold01: size=1, decay=0.0001
## # weights: 12
## initial value 1073459976.715566
## final value 1069241549.192688
## converged
## - Fold01: size=1, decay=0.0001
## + Fold01: size=3, decay=0.0001
## # weights: 34
## initial value 1072187943.470850
## final value 1069224733.288068
## converged
## - Fold01: size=3, decay=0.0001
## + Fold01: size=5, decay=0.0001
## # weights: 56
## initial value 1071026463.656195
## final value 1069225015.148273
## converged
## - Fold01: size=5, decay=0.0001
## + Fold02: size=1, decay=0.0000
## # weights: 12
## initial value 1076475249.049148
## final value 1073213270.000000
## converged
## - Fold02: size=1, decay=0.0000
## + Fold02: size=3, decay=0.0000
## # weights: 34
## initial value 1076924808.336383
## final value 1073213270.000000
## converged
## - Fold02: size=3, decay=0.0000
## + Fold02: size=5, decay=0.0000

```

```

## # weights:  56
## initial  value 1074810953.053405
## final   value 1073213270.000000
## converged
## - Fold02: size=5, decay=0.0000
## + Fold02: size=1, decay=0.1000
## # weights:  12
## initial  value 1075945150.581833
## iter   10 value 1073217132.609076
## final   value 1073213295.580574
## converged
## - Fold02: size=1, decay=0.1000
## + Fold02: size=3, decay=0.1000
## # weights:  34
## initial  value 1075883603.906574
## iter   10 value 1073221735.315252
## final   value 1073213282.618490
## converged
## - Fold02: size=3, decay=0.1000
## + Fold02: size=5, decay=0.1000
## # weights:  56
## initial  value 1077169116.885203
## iter   10 value 1073226842.062226
## final   value 1073213279.151783
## converged
## - Fold02: size=5, decay=0.1000
## + Fold02: size=1, decay=0.0001
## # weights:  12
## initial  value 1076355463.443784
## final   value 1073214378.057462
## converged
## - Fold02: size=1, decay=0.0001
## + Fold02: size=3, decay=0.0001
## # weights:  34
## initial  value 1076073017.828019
## final   value 1073214331.631444
## converged
## - Fold02: size=3, decay=0.0001
## + Fold02: size=5, decay=0.0001
## # weights:  56
## initial  value 1075870357.280241
## final   value 1073216145.567859
## converged
## - Fold02: size=5, decay=0.0001
## + Fold03: size=1, decay=0.0000
## # weights:  12
## initial  value 1072232636.100250
## final   value 1068865141.000000
## converged
## - Fold03: size=1, decay=0.0000
## + Fold03: size=3, decay=0.0000
## # weights:  34
## initial  value 1071148752.653208
## final   value 1068865141.000000

```

```

## converged
## - Fold03: size=3, decay=0.0000
## + Fold03: size=5, decay=0.0000
## # weights: 56
## initial value 1073394352.225502
## final value 1068865141.000000
## converged
## - Fold03: size=5, decay=0.0000
## + Fold03: size=1, decay=0.1000
## # weights: 12
## initial value 1072410110.750947
## iter 10 value 1068867517.396851
## final value 1068865171.478960
## converged
## - Fold03: size=1, decay=0.1000
## + Fold03: size=3, decay=0.1000
## # weights: 34
## initial value 1072947467.890046
## iter 10 value 1068877606.368856
## iter 20 value 1068865981.915594
## final value 1068865184.078030
## converged
## - Fold03: size=3, decay=0.1000
## + Fold03: size=5, decay=0.1000
## # weights: 56
## initial value 1072894618.230458
## iter 10 value 1068891568.877754
## iter 20 value 1068865228.668045
## final value 1068865163.106154
## converged
## - Fold03: size=5, decay=0.1000
## + Fold03: size=1, decay=0.0001
## # weights: 12
## initial value 1071715862.584373
## final value 1068879059.121204
## converged
## - Fold03: size=1, decay=0.0001
## + Fold03: size=3, decay=0.0001
## # weights: 34
## initial value 1072035729.129155
## final value 1068867386.663516
## converged
## - Fold03: size=3, decay=0.0001
## + Fold03: size=5, decay=0.0001
## # weights: 56
## initial value 1072842943.732808
## final value 1068867118.916207
## converged
## - Fold03: size=5, decay=0.0001
## + Fold04: size=1, decay=0.0000
## # weights: 12
## initial value 1075977263.673696
## final value 1073901870.000000
## converged

```

```

## - Fold04: size=1, decay=0.0000
## + Fold04: size=3, decay=0.0000
## # weights: 34
## initial value 1077160094.639345
## final value 1073901870.000000
## converged
## - Fold04: size=3, decay=0.0000
## + Fold04: size=5, decay=0.0000
## # weights: 56
## initial value 1078398029.779795
## final value 1073901870.000000
## converged
## - Fold04: size=5, decay=0.0000
## + Fold04: size=1, decay=0.1000
## # weights: 12
## initial value 1075924626.324061
## iter 10 value 1073903315.966925
## final value 1073901894.874934
## converged
## - Fold04: size=1, decay=0.1000
## + Fold04: size=3, decay=0.1000
## # weights: 34
## initial value 1077494165.205929
## iter 10 value 1073972004.442203
## iter 20 value 1073903100.441396
## final value 1073901897.951191
## converged
## - Fold04: size=3, decay=0.1000
## + Fold04: size=5, decay=0.1000
## # weights: 56
## initial value 1077582392.952344
## iter 10 value 1073918338.962970
## iter 20 value 1073902059.874975
## final value 1073901875.839725
## converged
## - Fold04: size=5, decay=0.1000
## + Fold04: size=1, decay=0.0001
## # weights: 12
## initial value 1077077873.802877
## final value 1073902974.859474
## converged
## - Fold04: size=1, decay=0.0001
## + Fold04: size=3, decay=0.0001
## # weights: 34
## initial value 1077638894.915872
## final value 1073916551.868282
## converged
## - Fold04: size=3, decay=0.0001
## + Fold04: size=5, decay=0.0001
## # weights: 56
## initial value 1077696052.491403
## final value 1073903236.682248
## converged
## - Fold04: size=5, decay=0.0001

```

```

## + Fold05: size=1, decay=0.0000
## # weights: 12
## initial value 1067738197.691928
## final value 1065658306.000000
## converged
## - Fold05: size=1, decay=0.0000
## + Fold05: size=3, decay=0.0000
## # weights: 34
## initial value 1069020642.714969
## final value 1065658306.000000
## converged
## - Fold05: size=3, decay=0.0000
## + Fold05: size=5, decay=0.0000
## # weights: 56
## initial value 1066851657.043599
## final value 1065658306.000000
## converged
## - Fold05: size=5, decay=0.0000
## + Fold05: size=1, decay=0.1000
## # weights: 12
## initial value 1067501663.143684
## iter 10 value 1065659978.497342
## iter 20 value 1065658325.091275
## iter 20 value 1065658320.655134
## iter 20 value 1065658320.625293
## final value 1065658320.625293
## converged
## - Fold05: size=1, decay=0.1000
## + Fold05: size=3, decay=0.1000
## # weights: 34
## initial value 1070346996.547865
## iter 10 value 1065715419.703882
## iter 20 value 1065658999.640523
## iter 30 value 1065658318.604008
## iter 30 value 1065658318.171030
## iter 30 value 1065658317.973703
## final value 1065658317.973703
## converged
## - Fold05: size=3, decay=0.1000
## + Fold05: size=5, decay=0.1000
## # weights: 56
## initial value 1069085354.361183
## iter 10 value 1065696407.802673
## iter 20 value 1065658332.455930
## iter 20 value 1065658327.899007
## iter 20 value 1065658325.956428
## final value 1065658325.956428
## converged
## - Fold05: size=5, decay=0.1000
## + Fold05: size=1, decay=0.0001
## # weights: 12
## initial value 1067862878.351575
## final value 1065670510.991188
## converged

```

```

## - Fold05: size=1, decay=0.0001
## + Fold05: size=3, decay=0.0001
## # weights: 34
## initial value 1067653293.334021
## final value 1065659716.430731
## converged
## - Fold05: size=3, decay=0.0001
## + Fold05: size=5, decay=0.0001
## # weights: 56
## initial value 1070329792.654044
## final value 1065683402.492657
## converged
## - Fold05: size=5, decay=0.0001
## + Fold06: size=1, decay=0.0000
## # weights: 12
## initial value 1070878405.915702
## final value 1068496128.000000
## converged
## - Fold06: size=1, decay=0.0000
## + Fold06: size=3, decay=0.0000
## # weights: 34
## initial value 1071600370.864800
## final value 1068496128.000000
## converged
## - Fold06: size=3, decay=0.0000
## + Fold06: size=5, decay=0.0000
## # weights: 56
## initial value 1069818179.047425
## final value 1068496128.000000
## converged
## - Fold06: size=5, decay=0.0000
## + Fold06: size=1, decay=0.1000
## # weights: 12
## initial value 1070890806.972518
## iter 10 value 1068551054.544291
## iter 20 value 1068496907.470185
## final value 1068496151.325830
## converged
## - Fold06: size=1, decay=0.1000
## + Fold06: size=3, decay=0.1000
## # weights: 34
## initial value 1072401886.972080
## iter 10 value 1068503883.043699
## iter 20 value 1068496155.489155
## iter 20 value 1068496150.629303
## iter 20 value 1068496150.125457
## final value 1068496150.125457
## converged
## - Fold06: size=3, decay=0.1000
## + Fold06: size=5, decay=0.1000
## # weights: 56
## initial value 1069340655.940019
## iter 10 value 1068496896.296007
## final value 1068496140.490952

```

```

## converged
## - Fold06: size=5, decay=0.1000
## + Fold06: size=1, decay=0.0001
## # weights: 12
## initial value 1071511702.827793
## final value 1068511133.043105
## converged
## - Fold06: size=1, decay=0.0001
## + Fold06: size=3, decay=0.0001
## # weights: 34
## initial value 1070539836.145003
## final value 1068507582.196076
## converged
## - Fold06: size=3, decay=0.0001
## + Fold06: size=5, decay=0.0001
## # weights: 56
## initial value 1070483818.930348
## final value 1068497440.295012
## converged
## - Fold06: size=5, decay=0.0001
## + Fold07: size=1, decay=0.0000
## # weights: 12
## initial value 1071185670.931787
## final value 1068105436.000000
## converged
## - Fold07: size=1, decay=0.0000
## + Fold07: size=3, decay=0.0000
## # weights: 34
## initial value 1070570236.097574
## final value 1068105436.000000
## converged
## - Fold07: size=3, decay=0.0000
## + Fold07: size=5, decay=0.0000
## # weights: 56
## initial value 1071500274.146722
## final value 1068105436.000000
## converged
## - Fold07: size=5, decay=0.0000
## + Fold07: size=1, decay=0.1000
## # weights: 12
## initial value 1070124720.901580
## iter 10 value 1068108306.096627
## iter 20 value 1068105466.565470
## iter 20 value 1068105458.377093
## iter 20 value 1068105456.345221
## final value 1068105456.345221
## converged
## - Fold07: size=1, decay=0.1000
## + Fold07: size=3, decay=0.1000
## # weights: 34
## initial value 1069824656.076332
## iter 10 value 1068106852.884081
## final value 1068105450.787759
## converged

```

```

## - Fold07: size=3, decay=0.1000
## + Fold07: size=5, decay=0.1000
## # weights: 56
## initial value 1069770130.579889
## iter 10 value 1068128988.100158
## final value 1068105551.811145
## converged
## - Fold07: size=5, decay=0.1000
## + Fold07: size=1, decay=0.0001
## # weights: 12
## initial value 1070366195.629014
## final value 1068120073.462847
## converged
## - Fold07: size=1, decay=0.0001
## + Fold07: size=3, decay=0.0001
## # weights: 34
## initial value 1071149406.064952
## final value 1068106813.124371
## converged
## - Fold07: size=3, decay=0.0001
## + Fold07: size=5, decay=0.0001
## # weights: 56
## initial value 1070882550.427535
## final value 1068108278.017240
## converged
## - Fold07: size=5, decay=0.0001
## + Fold08: size=1, decay=0.0000
## # weights: 12
## initial value 1069690326.948090
## final value 1065724163.000000
## converged
## - Fold08: size=1, decay=0.0000
## + Fold08: size=3, decay=0.0000
## # weights: 34
## initial value 1067644557.172821
## final value 1065724163.000000
## converged
## - Fold08: size=3, decay=0.0000
## + Fold08: size=5, decay=0.0000
## # weights: 56
## initial value 1068964303.624227
## final value 1065724163.000000
## converged
## - Fold08: size=5, decay=0.0000
## + Fold08: size=1, decay=0.1000
## # weights: 12
## initial value 1069440031.219967
## iter 10 value 1065729044.073387
## final value 1065724175.257372
## converged
## - Fold08: size=1, decay=0.1000
## + Fold08: size=3, decay=0.1000
## # weights: 34
## initial value 1068596324.591421

```

```

## iter 10 value 1065752196.119976
## iter 20 value 1065724185.117205
## iter 20 value 1065724180.406365
## iter 20 value 1065724173.469352
## final value 1065724173.469352
## converged
## - Fold08: size=3, decay=0.1000
## + Fold08: size=5, decay=0.1000
## # weights: 56
## initial value 1069522505.345681
## iter 10 value 1065738885.882651
## iter 20 value 1065724191.240234
## iter 20 value 1065724188.610527
## iter 20 value 1065724188.610527
## final value 1065724188.610527
## converged
## - Fold08: size=5, decay=0.1000
## + Fold08: size=1, decay=0.0001
## # weights: 12
## initial value 1067843185.384522
## final value 1065725076.100898
## converged
## - Fold08: size=1, decay=0.0001
## + Fold08: size=3, decay=0.0001
## # weights: 34
## initial value 1070054325.119325
## final value 1065748970.791071
## converged
## - Fold08: size=3, decay=0.0001
## + Fold08: size=5, decay=0.0001
## # weights: 56
## initial value 1068549509.729507
## final value 1065725234.808601
## converged
## - Fold08: size=5, decay=0.0001
## + Fold09: size=1, decay=0.0000
## # weights: 12
## initial value 1076573161.040811
## final value 1074318994.000000
## converged
## - Fold09: size=1, decay=0.0000
## + Fold09: size=3, decay=0.0000
## # weights: 34
## initial value 1077502789.206137
## final value 1074318994.000000
## converged
## - Fold09: size=3, decay=0.0000
## + Fold09: size=5, decay=0.0000
## # weights: 56
## initial value 1076956527.519315
## final value 1074318994.000000
## converged
## - Fold09: size=5, decay=0.0000
## + Fold09: size=1, decay=0.1000

```

```

## # weights: 12
## initial value 1075819283.649332
## iter 10 value 1074322404.048682
## final value 1074319019.299613
## converged
## - Fold09: size=1, decay=0.1000
## + Fold09: size=3, decay=0.1000
## # weights: 34
## initial value 1077644614.359912
## iter 10 value 1074328905.278649
## final value 1074319012.803634
## converged
## - Fold09: size=3, decay=0.1000
## + Fold09: size=5, decay=0.1000
## # weights: 56
## initial value 1077992785.318554
## iter 10 value 1074346212.600655
## iter 20 value 1074319337.920231
## final value 1074319008.715174
## converged
## - Fold09: size=5, decay=0.1000
## + Fold09: size=1, decay=0.0001
## # weights: 12
## initial value 1076180961.911284
## final value 1074319818.170255
## converged
## - Fold09: size=1, decay=0.0001
## + Fold09: size=3, decay=0.0001
## # weights: 34
## initial value 1077130695.795639
## final value 1074321022.230012
## converged
## - Fold09: size=3, decay=0.0001
## + Fold09: size=5, decay=0.0001
## # weights: 56
## initial value 1075525550.009705
## final value 1074319484.316920
## converged
## - Fold09: size=5, decay=0.0001
## + Fold10: size=1, decay=0.0000
## # weights: 12
## initial value 1076886934.442525
## final value 1073806258.000000
## converged
## - Fold10: size=1, decay=0.0000
## + Fold10: size=3, decay=0.0000
## # weights: 34
## initial value 1077201228.308574
## final value 1073806258.000000
## converged
## - Fold10: size=3, decay=0.0000
## + Fold10: size=5, decay=0.0000
## # weights: 56
## initial value 1076891869.245149

```

```

## final value 1073806258.000000
## converged
## - Fold10: size=5, decay=0.0000
## + Fold10: size=1, decay=0.1000
## # weights: 12
## initial value 1077079081.604902
## iter 10 value 1073810381.857531
## final value 1073806275.822726
## converged
## - Fold10: size=1, decay=0.1000
## + Fold10: size=3, decay=0.1000
## # weights: 34
## initial value 1077627412.854852
## iter 10 value 1073819441.874776
## iter 20 value 1073806335.754042
## final value 1073806274.433245
## converged
## - Fold10: size=3, decay=0.1000
## + Fold10: size=5, decay=0.1000
## # weights: 56
## initial value 1075050976.359963
## iter 10 value 1073808230.895392
## iter 20 value 1073806280.745935
## iter 20 value 1073806272.584595
## iter 20 value 1073806272.575698
## final value 1073806272.575698
## converged
## - Fold10: size=5, decay=0.1000
## + Fold10: size=1, decay=0.0001
## # weights: 12
## initial value 1076300287.686947
## final value 1073807255.331768
## converged
## - Fold10: size=1, decay=0.0001
## + Fold10: size=3, decay=0.0001
## # weights: 34
## initial value 1076921182.576735
## final value 1073808446.709846
## converged
## - Fold10: size=3, decay=0.0001
## + Fold10: size=5, decay=0.0001
## # weights: 56
## initial value 1076776725.314484
## final value 1073808203.604012
## converged
## - Fold10: size=5, decay=0.0001

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.

## Aggregating results
## Selecting tuning parameters
## Fitting size = 1, decay = 0.0001 on full training set
## # weights: 12

```

```

## initial value 1193195053.794119
## final value 1189062376.639965
## converged

nnetPredictions<- predict(nnetModel,data)
RMSE.nnet=sqrt(mean((nnetPredictions-data$cnt)^2))
MSE.nnet=mean((nnetPredictions-data$cnt)^2)
MAE.nnet=mean(abs(nnetPredictions- data$cnt))
#plot(varImp(nnetModel))

```

Random Forest this time with Kfold

```

data <- read.csv("hour.csv")
train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
rfModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed, data, method="rf")

## + Fold01: mtry=2
## - Fold01: mtry=2
## + Fold01: mtry=5
## - Fold01: mtry=5
## + Fold01: mtry=9
## - Fold01: mtry=9
## + Fold02: mtry=2
## - Fold02: mtry=2
## + Fold02: mtry=5
## - Fold02: mtry=5
## + Fold02: mtry=9
## - Fold02: mtry=9
## + Fold03: mtry=2
## - Fold03: mtry=2
## + Fold03: mtry=5
## - Fold03: mtry=5
## + Fold03: mtry=9
## - Fold03: mtry=9
## + Fold04: mtry=2
## - Fold04: mtry=2
## + Fold04: mtry=5
## - Fold04: mtry=5
## + Fold04: mtry=9
## - Fold04: mtry=9
## + Fold05: mtry=2
## - Fold05: mtry=2
## + Fold05: mtry=5
## - Fold05: mtry=5
## + Fold05: mtry=9
## - Fold05: mtry=9
## + Fold06: mtry=2
## - Fold06: mtry=2
## + Fold06: mtry=5
## - Fold06: mtry=5

```

```

## + Fold06: mtry=9
## - Fold06: mtry=9
## + Fold07: mtry=2
## - Fold07: mtry=2
## + Fold07: mtry=5
## - Fold07: mtry=5
## + Fold07: mtry=9
## - Fold07: mtry=9
## + Fold08: mtry=2
## - Fold08: mtry=2
## + Fold08: mtry=5
## - Fold08: mtry=5
## + Fold08: mtry=9
## - Fold08: mtry=9
## + Fold09: mtry=2
## - Fold09: mtry=2
## + Fold09: mtry=5
## - Fold09: mtry=5
## + Fold09: mtry=9
## - Fold09: mtry=9
## + Fold10: mtry=2
## - Fold10: mtry=2
## + Fold10: mtry=5
## - Fold10: mtry=5
## + Fold10: mtry=9
## - Fold10: mtry=9
## Aggregating results
## Selecting tuning parameters
## Fitting mtry = 5 on full training set

rfPredictions<- predict(rfModel,data)
RMSE.rfkf=sqrt(mean((rfPredictions-data$cnt)^2))
MSE.rfkf=mean((rfPredictions-data$cnt)^2)
MAE.rfkf=mean(abs(rfPredictions- data$cnt))
#plot(varImp(rfModel, scale=FALSE))

```

EVALUATION

```

accuracy=data.frame(Method=c("random forest model","lm","regression tree","svm","nnet","random Forest t",
                             RMSE=c(RMSE.forest,RMSE.lm,RMSE.rpart,RMSE.svm,RMSE.nnet,RMSE.rfkf),
                             MAE=c(MAE.forest,MAE.lm,MAE.rpart,MAE.svm,MAE.nnet,MAE.rfkf),
                             MSE=c(MSE.forest,MSE.lm,MSE.rpart,MSE.svm,MSE.nnet,MSE.rfkf))

accuracy$RMSE = round(accuracy$RMSE,2)
accuracy$MAE = round(accuracy$MAE,2)
accuracy$MSE = round(accuracy$MSE,2)

all.predictions = data.frame(Actual = data$cnt,
                             RandForest = predict.rf,
                             LinModel = lmPredictions,
                             RPart = rpartPredictions,
                             svm = svmPredictions,

```

```

nnet = nnetPredictions,
RandForestKFold = rfPredictions)
all.predictions

```

##	Actual	RandForest	LinModel	RPart	svm	nnet
## 1	16	27.128346	-46.566633365	32.32174	-47.01123399	1
## 2	40	31.149958	-42.719038034	32.32174	-42.36604436	1
## 3	32	25.263716	-35.231996027	32.32174	-34.86776193	1
## 4	13	14.442701	-10.846114531	32.32174	-11.89748561	1
## 5	1	6.420342	-3.359072524	32.32174	-4.39920318	1
## 6	1	5.024410	3.957038006	32.32174	7.79678890	1
## 7	2	7.894319	-5.283827999	32.32174	-4.87463220	1
## 8	3	23.200257	-16.905524282	175.93855	-14.95149384	1
## 9	8	45.519076	26.589095504	175.93855	25.59392655	1
## 10	14	81.704501	55.263620622	175.93855	50.81403074	1
## 11	36	80.816514	84.569693912	175.93855	71.53855583	1
## 12	56	98.253871	75.661257668	175.93855	63.37126794	1
## 13	84	127.820000	109.535931318	175.93855	94.15088006	1
## 14	94	118.958046	138.342665462	175.93855	127.25872638	1
## 15	106	126.394413	145.578868591	175.93855	134.85347332	1
## 16	110	120.406085	136.417909987	175.93855	126.78329735	1
## 17	93	114.687883	127.006112506	175.93855	118.80958590	1
## 18	67	108.838734	140.091661114	175.93855	131.36057582	1
## 19	35	56.398503	126.287271885	175.93855	126.75508214	1
## 20	37	54.559685	133.774313892	175.93855	134.25336457	1
## 21	36	64.962614	139.301240930	175.93855	133.62076268	1
## 22	34	54.343444	145.783243945	175.93855	141.50555056	1
## 23	28	48.806334	138.304355575	175.93855	134.08820529	1
## 24	39	53.395625	177.854704699	175.93855	168.59114781	1
## 25	17	34.325463	5.652738537	32.32174	-3.86934812	1
## 26	17	30.778340	-6.723157862	32.32174	-13.65616882	1
## 27	9	21.732527	-17.841492908	32.32174	-23.92660689	1
## 28	6	12.629014	13.095232638	32.32174	6.68314448	1
## 29	3	9.270685	20.582274645	32.32174	14.18142691	1
## 30	2	14.619720	61.505854739	32.32174	59.62030401	1
## 31	1	53.408411	65.273542669	175.93855	59.66424850	1
## 32	8	54.316228	82.634108217	175.93855	82.76249692	1
## 33	20	53.105815	74.901642442	175.93855	69.51099394	1
## 34	53	72.086521	65.489844961	175.93855	61.53728249	1
## 35	70	85.602707	95.577552744	175.93855	89.87413770	1
## 36	93	110.660403	114.868288876	175.93855	107.59813010	1
## 37	75	108.330769	119.591052783	175.93855	116.15946437	1
## 38	59	75.214383	104.304814055	175.93855	107.51753107	1
## 39	74	80.234806	94.391338818	175.93855	99.73674863	1
## 40	76	80.569668	123.977368846	175.93855	128.26653287	1
## 41	65	138.509574	166.263335251	175.93855	154.46040576	1
## 42	53	121.883236	204.491878198	175.93855	194.45725187	1
## 43	30	91.168281	212.809234149	175.93855	194.40484663	1
## 44	22	62.848083	219.568226854	175.93855	203.83641849	1
## 45	31	52.760267	203.805406139	175.93855	191.09939307	1
## 46	9	36.211132	204.939741430	175.93855	193.83500894	1
## 47	8	30.931007	197.686824690	175.93855	190.93707325	1
## 48	5	10.975895	39.055234102	32.32174	14.64249477	1

## 49	2	5.002918	41.697969623	32.32174	16.79802877	1
## 50	1	3.537122	45.329030527	32.32174	23.26386857	1
## 51	3	6.022013	51.056833426	32.32174	31.43869739	1
## 52	30	39.041601	47.824072656	32.32174	26.99473990	1
## 53	64	104.227644	52.043475325	175.93855	35.74965060	1
## 54	154	183.582749	61.038917563	175.93855	42.66785116	1
## 55	88	119.463203	91.603835770	175.93855	69.16788145	1
## 56	44	62.403438	102.677622910	175.93855	82.49252968	1
## 57	51	68.725615	123.901268154	175.93855	100.77288827	1
## 58	61	83.373165	147.783788412	175.93855	123.93674102	1
## 59	61	85.590455	160.869337020	175.93855	136.48773095	1
## 60	77	86.306330	185.255218516	175.93855	159.45800727	1
## 61	72	84.156450	192.238899285	175.93855	167.14986613	1
## 62	76	100.686253	199.725941292	175.93855	174.64814856	1
## 63	157	170.654918	200.861960066	175.93855	177.38311703	1
## 64	157	177.085311	201.919126483	175.93855	181.44811000	1
## 65	110	109.119450	162.799756395	175.93855	148.16320014	1
## 66	52	77.255211	172.046037510	175.93855	154.98493618	1
## 67	52	53.363952	136.617132159	175.93855	121.58049354	1
## 68	20	36.074294	121.355989199	175.93855	108.65053910	1
## 69	12	30.590781	170.978627636	175.93855	155.69833905	1
## 70	5	10.243485	-7.072684004	32.32174	-21.71839987	1
## 71	2	4.549526	-8.425237205	32.32174	-22.63271816	1
## 72	1	3.065896	-15.125458130	32.32174	-28.69620845	1
## 73	2	3.175714	-0.903890748	32.32174	-13.41025006	1
## 74	4	7.837170	-10.064849352	32.32174	-21.48042603	1
## 75	36	37.817260	-15.837200158	32.32174	-26.60104468	1
## 76	94	109.960464	-7.848480395	175.93855	-19.29569126	1
## 77	179	186.988868	17.040762338	175.93855	3.48100862	1
## 78	100	131.069725	42.431682826	175.93855	26.06477950	1
## 79	42	58.629292	38.949138223	175.93855	27.64855616	1
## 80	57	72.638574	104.938365572	175.93855	82.78805571	1
## 81	78	85.123343	110.164490716	175.93855	91.15581354	1
## 82	97	99.463498	112.953061946	175.93855	92.90165904	1
## 83	63	91.736531	135.632405877	175.93855	113.57520875	1
## 84	65	92.690710	149.470471118	175.93855	125.83680515	1
## 85	83	117.507207	169.436555009	175.93855	144.60078111	1
## 86	212	190.696524	172.782472585	175.93855	149.43889975	1
## 87	182	177.325759	173.916807876	175.93855	152.17451563	1
## 88	112	118.162350	174.047787657	175.93855	155.29598954	1
## 89	54	87.624061	181.534829664	175.93855	162.79427197	1
## 90	48	60.267367	146.054906252	175.93855	132.36245492	1
## 91	35	45.840784	155.050348489	175.93855	139.28065547	1
## 92	11	32.825045	145.638551008	175.93855	131.30694402	1
## 93	6	11.761705	-17.022321374	32.32174	-30.05771913	1
## 94	6	6.225408	-41.824558114	32.32174	-54.08350636	1
## 95	2	3.981620	-34.337516107	32.32174	-46.58522392	1
## 96	2	4.139367	63.752235537	32.32174	42.04874217	1
## 97	3	8.135667	66.594791875	32.32174	47.08043724	1
## 98	33	43.295229	69.237527397	32.32174	49.23597124	1
## 99	88	121.284353	79.211457896	175.93855	60.38418784	1
## 100	195	212.882131	100.936780896	175.93855	78.47161741	1
## 101	115	138.348944	121.406226025	175.93855	97.04201694	1
## 102	57	74.269076	128.893268032	175.93855	104.54029937	1

## 103	46	87.258027	156.918596203	175.93855	130.36366849	1
## 104	79	97.821852	164.405638210	175.93855	137.86195093	1
## 105	71	97.429693	183.868360864	175.93855	156.81950332	1
## 106	62	90.199064	199.865306846	175.93855	174.15687548	1
## 107	62	90.889210	207.352348853	175.93855	181.65515791	1
## 108	89	106.574754	213.081835235	175.93855	189.82933932	1
## 109	190	172.154730	182.679408412	175.93855	160.75149202	1
## 110	169	166.333831	189.161411426	175.93855	168.63627990	1
## 111	132	145.304630	196.146775678	175.93855	176.32749135	1
## 112	89	93.707158	178.900421981	175.93855	159.55467372	1
## 113	43	59.299545	172.200201057	175.93855	153.49118343	1
## 114	42	44.849557	163.993263384	175.93855	148.00712760	1
## 115	19	37.638448	192.747924423	175.93855	178.15632986	1
## 116	11	11.838546	-2.982577634	32.32174	-16.08561050	1
## 117	4	5.655990	-21.233970323	32.32174	-32.47192267	1
## 118	2	3.716860	-13.746928316	32.32174	-24.97364024	1
## 119	1	3.390496	1.056224221	32.32174	-5.27936573	1
## 120	4	7.335490	-8.355573261	32.32174	-13.25307719	1
## 121	36	37.814692	12.641700436	32.32174	6.76764182	1
## 122	95	117.572087	33.058444022	175.93855	28.31131434	1
## 123	219	217.427670	42.224817736	175.93855	30.53180525	1
## 124	122	140.723204	71.561063931	175.93855	65.08932364	1
## 125	45	71.045335	95.416378332	175.93855	80.67865825	1
## 126	59	75.991813	116.890862453	175.93855	98.86255233	1
## 127	84	88.284253	154.457284405	175.93855	135.78175424	1
## 128	67	86.593482	163.703565520	175.93855	142.60349028	1
## 129	70	87.838964	175.835093196	175.93855	152.56836007	1
## 130	62	86.174482	180.557857103	175.93855	161.12969434	1
## 131	86	104.285628	180.540034128	175.93855	158.40238159	1
## 132	172	147.492052	147.599700751	175.93855	128.64722570	1
## 133	163	144.231395	154.583381521	175.93855	136.33908456	1
## 134	112	108.492348	152.478311687	175.93855	135.71415980	1
## 135	69	84.563970	164.211481294	175.93855	146.18583001	1
## 136	48	59.235985	168.033980857	175.93855	155.11904078	1
## 137	52	53.864090	185.365657065	175.93855	170.64341849	1
## 138	23	34.235750	167.815762947	175.93855	156.94033837	1
## 139	17	13.436889	-15.435697226	32.32174	-26.03590846	1
## 140	7	6.089836	-18.494787991	32.32174	-29.24695336	1
## 141	1	3.242728	-11.007745984	32.32174	-21.74867093	1
## 142	1	3.376575	2.457937799	32.32174	-6.17202419	1
## 143	5	12.428133	42.792659944	32.32174	41.87387069	1
## 144	34	47.314138	15.171104951	32.32174	9.69401608	1
## 145	84	157.430805	26.598395528	175.93855	11.04503158	1
## 146	210	250.024047	75.873693958	175.93855	55.62700636	1
## 147	134	166.047660	92.954531288	175.93855	71.24784858	1
## 148	63	74.269076	128.893268032	175.93855	104.54029937	1
## 149	67	63.476363	120.462697339	175.93855	106.72722619	1
## 150	59	72.717978	135.081113508	175.93855	120.34203014	1
## 151	73	75.229695	143.071516752	175.93855	127.64673614	1
## 152	50	60.258807	143.425501116	175.93855	129.02914446	1
## 153	72	89.530449	156.035522781	175.93855	143.41631190	1
## 154	87	117.640247	163.522564788	175.93855	150.91459434	1
## 155	187	210.138685	168.245328695	175.93855	159.47592860	1
## 156	123	141.769692	172.290406233	175.93855	154.80688709	1

## 157	95	99.094142	134.930275252	175.93855	120.84543084	1
## 158	51	66.804792	166.196692032	175.93855	150.02869320	1
## 159	39	52.687507	174.185411794	175.93855	157.33404661	1
## 160	36	46.956700	189.336078540	175.93855	178.32914486	1
## 161	15	29.844091	179.143930130	175.93855	169.00222585	1
## 162	25	26.878807	3.267240656	32.32174	5.42928216	1
## 163	16	19.464386	0.658809584	32.32174	4.99793382	1
## 164	16	18.306572	6.637451361	32.32174	13.07629813	1
## 165	7	8.735070	15.209439762	32.32174	24.78932025	1
## 166	1	4.336630	22.696481769	32.32174	32.28760269	1
## 167	5	5.470091	-15.974567235	32.32174	-10.40800282	1
## 168	2	5.467631	-8.487525228	32.32174	-2.90972039	1
## 169	9	19.515775	-2.005522213	175.93855	4.97506749	1
## 170	15	33.856826	-38.185889153	175.93855	-22.20871198	1
## 171	20	40.436255	-30.698847146	175.93855	-14.71042955	1
## 172	61	78.360341	14.050595466	175.93855	19.42075124	1
## 173	62	83.028877	55.465186868	175.93855	53.56037136	1
## 174	98	98.337021	84.547855658	175.93855	82.28373203	1
## 175	102	126.403471	126.361033648	175.93855	116.24440466	1
## 176	95	100.097679	163.129455898	175.93855	147.91808483	1
## 177	74	93.147534	169.863981272	175.93855	155.70576079	1
## 178	76	88.732510	178.131374207	175.93855	164.55725077	1
## 179	69	84.388428	163.847435945	175.93855	149.59818980	1
## 180	55	65.249825	156.794340021	175.93855	149.57641519	1
## 181	30	52.674083	170.156878320	175.93855	163.67418910	1
## 182	28	41.720079	171.794574848	175.93855	166.21622855	1
## 183	37	39.850655	174.411159557	175.93855	166.72851405	1
## 184	34	36.939780	189.031259208	175.93855	180.34267059	1
## 185	22	29.772959	185.044298323	175.93855	176.18875405	1
## 186	25	23.494609	5.207596762	32.32174	-2.19468697	1
## 187	12	16.673514	13.950516639	32.32174	4.82062550	1
## 188	11	16.308712	12.597963438	32.32174	3.90630721	1
## 189	4	9.153510	19.330805330	32.32174	11.69463058	1
## 190	1	3.053886	1.729893151	32.32174	0.96417605	1
## 191	1	3.162763	9.216935158	32.32174	8.46245848	1
## 192	1	5.504126	32.901318082	32.32174	28.74950274	1
## 193	6	16.566491	24.191019172	175.93855	23.45902334	1
## 194	10	29.240690	47.875402096	175.93855	43.74606760	1
## 195	19	46.928754	71.861641958	175.93855	60.96402177	1
## 196	49	71.082772	89.566808987	175.93855	80.59747313	1
## 197	49	83.639307	111.793809741	175.93855	98.49197369	1
## 198	83	97.271660	130.504015763	175.93855	117.73891960	1
## 199	75	101.579254	150.470099654	175.93855	136.50289556	1
## 200	72	100.260641	168.477123621	175.93855	153.06725683	1
## 201	82	115.327283	167.575230114	175.93855	154.93263511	1
## 202	92	99.608764	172.931225675	175.93855	158.99774286	1
## 203	62	80.245887	166.934186805	175.93855	155.61683721	1
## 204	48	67.311629	160.937147935	175.93855	152.23593156	1
## 205	41	61.170715	161.794493536	175.93855	153.42476346	1
## 206	38	46.069148	155.544932306	175.93855	150.14096973	1
## 207	20	34.479237	165.796252413	175.93855	156.57620033	1
## 208	15	27.376226	171.273216435	175.93855	164.84749365	1
## 209	6	23.390451	162.312078648	175.93855	159.65347877	1
## 210	5	9.344786	-4.706763972	32.32174	-22.27465128	1

## 211	1	3.772559	2.780278035	32.32174	-14.77636885	1
## 212	3	3.553598	9.262281049	32.32174	-6.89158097	1
## 213	1	3.103242	16.749323056	32.32174	0.60670146	1
## 214	3	3.160681	8.039024147	32.32174	-4.68377794	1
## 215	3	8.992793	17.536144139	32.32174	2.04149360	1
## 216	31	39.875891	40.215488070	32.32174	22.71504331	1
## 217	77	103.990270	46.697491085	175.93855	30.59983119	1
## 218	188	169.505539	53.510240377	175.93855	42.98939970	1
## 219	94	117.977407	66.343266625	175.93855	55.63750154	1
## 220	31	55.827931	74.584508747	175.93855	62.84574304	1
## 221	30	54.923419	94.299753761	175.93855	81.70618350	1
## 222	52	63.759044	128.954778339	175.93855	113.83900317	1
## 223	54	64.122828	136.441820346	175.93855	121.33728560	1
## 224	47	59.416251	142.923823360	175.93855	129.22207348	1
## 225	45	62.359624	150.410865367	175.93855	136.72035591	1
## 226	74	91.309947	158.068838851	175.93855	139.52092870	1
## 227	178	153.575040	165.054203103	175.93855	147.21214015	1
## 228	155	148.132892	174.551323096	175.93855	153.93741168	1
## 229	95	99.251821	153.865343539	175.93855	137.18766233	1
## 230	74	76.067434	154.722689140	175.93855	138.37649422	1
## 231	38	50.817440	136.972974205	175.93855	121.79725302	1
## 232	24	35.864362	143.958338457	175.93855	129.48846447	1
## 233	18	26.960207	151.445380464	175.93855	136.98674691	1
## 234	12	11.191706	-21.761624691	32.32174	-35.08724358	1
## 235	3	4.761148	-13.269543691	32.32174	-27.97546659	1
## 236	3	5.099639	7.728785051	32.32174	-2.02347795	1
## 237	6	9.031681	29.184872079	32.32174	20.85787480	1
## 238	27	35.935557	36.671914086	32.32174	28.35615723	1
## 239	99	122.350602	41.898039230	175.93855	36.72391507	1
## 240	217	222.669386	65.582422154	175.93855	57.01095933	1
## 241	130	137.624595	74.325342031	175.93855	64.02627180	1
## 242	54	65.360579	87.661729517	175.93855	76.48079722	1
## 243	35	57.658186	103.485005494	175.93855	92.58525680	1
## 244	57	68.130476	101.630774538	175.93855	91.86386753	1
## 245	52	63.999725	91.187787251	175.93855	82.63341303	1
## 246	63	64.569631	98.674829258	175.93855	90.13169546	1
## 247	47	66.650641	48.055305465	175.93855	43.55133813	1
## 248	76	80.686305	44.543871523	175.93855	37.56124407	1
## 249	136	119.200086	52.030913530	175.93855	45.05952651	1
## 250	95	81.918067	40.359254230	175.93855	43.88656010	1
## 251	51	86.611742	46.087057129	175.93855	52.06138892	1
## 252	32	53.912526	56.840054991	175.93855	58.30369049	1
## 253	20	47.149945	78.038832988	175.93855	81.19992316	1
## 254	29	36.867073	70.307422258	175.93855	73.87968982	1
## 255	19	30.580490	77.543625387	175.93855	81.47443677	1
## 256	7	11.709876	-77.509717453	32.32174	-81.54179943	1
## 257	6	5.966706	-69.771836569	32.32174	-74.13998151	1
## 258	1	3.752240	-65.953130577	32.32174	-77.06866260	1
## 259	5	8.052494	-42.988643319	32.32174	-54.76739174	1
## 260	16	33.012147	-57.323599642	32.32174	-66.75382712	1
## 261	54	101.492139	9.050359093	175.93855	-3.82369738	1
## 262	128	206.629507	44.989095837	175.93855	29.46875341	1
## 263	81	124.355380	55.240415944	175.93855	35.90398401	1
## 264	39	62.717916	75.657159530	175.93855	57.44765654	1

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## 265      35  61.035438 100.597420324 175.93855  77.25173084  1
## 266      55  71.580798 120.190013395 175.93855  91.90663314  1
## 267      49  73.134425 136.386780193 175.93855 112.12016638  1
## 268      44  66.881885 130.893102561 175.93855 108.54568431  1
## 269      49  65.999510 139.886861316 175.93855 115.46453227  1
## 270      68  80.790176 158.346228459 175.93855 134.80794270  1
## 271     139 133.604854 153.855906337 175.93855 130.84760258  1
## 272     137 134.712710 164.107226445 175.93855 137.28283318  1
## 273      83  99.992348 163.985683866 175.93855 140.50141901  1
## 274      56  72.390821 157.486967241 175.93855 137.31344238  1
## 275      57  55.526269 153.924515237 175.93855 134.29597391  1
## 276      33  45.387024 163.421635230 175.93855 141.02124545  1
## 277      20  29.798141 155.716375313 175.93855 135.34426060  1
## 278       7  10.541504 -18.746507712 32.32174 -36.24675992  1
## 279       2   3.819334   8.629623513 32.32174 -9.82012587  1
## 280       2   4.043550  17.372543391 32.32174 -2.80481339  1
## 281       3   3.723594  24.357907642 32.32174  4.88639806  1
## 282       4   3.988567  30.587388297 32.32174 12.86829786  1
## 283       3   5.597816  38.828630419 32.32174 20.07653935  1
## 284      28  40.762078  28.862453639 32.32174 15.26902991  1
## 285      72 125.373053  36.349495646 175.93855 22.76731234  1
## 286    202 189.101920  59.530517332 175.93855 43.24793303  1
## 287    139 135.485683  69.280159685 175.93855 49.87609265  1
## 288      38  53.267307  81.438893218 175.93855 67.41548057  1
## 289      37  61.461178 115.392419224 175.93855 96.86506818  1
## 290      52  63.728939 124.055431701 175.93855 99.27913552  1
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## 292      42  68.910701 151.006879844 175.93855 125.73432293  1
## 293      60  91.425149 169.464563505 175.93855 145.07838076  1
## 294      78 112.435533 177.956644505 175.93855 152.19015775  1
## 295    162 153.182494 168.069320081 175.93855 146.05262380  1
## 296    144 146.243885 176.310562204 175.93855 153.26086530  1
## 297      99 101.064815 155.372060287 175.93855 136.60822786  1
## 298      64  77.339627 162.357424539 175.93855 144.29943931  1
## 299      40  48.251845 167.460897740 175.93855 148.46165898  1
## 300      30  37.810056 175.451300985 175.93855 155.76636498  1
## 301      15  28.702993 165.986801960 175.93855 150.76592653  1
## 302      14  11.589882 -6.215164202 32.32174 -21.69456941  1
## 303       5  5.706365 -13.918740637 32.32174 -27.37220166  1
## 304       1  3.077458 -6.935059867 32.32174 -19.68034280  1
## 305       1  3.074724   0.050304385 32.32174 -11.98913135  1
## 306       8  8.635447 14.773549521 32.32174  3.10389802  1
## 307      17  31.113927 20.752191298 32.32174 11.18226233  1
## 308      70 110.253727 -13.194464636 175.93855 -24.44551068  1
## 309    158 189.733430 10.637037561 175.93855  1.69096766  1
## 310    117 141.005453 24.024443107 175.93855 11.17286749  1
## 311      44  63.861119 75.153798293 175.93855 57.64123297  1
## 312      53  64.938827 92.988835738 175.93855 72.97203424  1
## 313      61  73.821308 121.291153600 175.93855 100.34218735  1
## 314      77  83.130120 152.359433046 175.93855 126.64864122  1
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## 316      68  87.046060 167.203646643 175.93855 145.94785617  1
## 317      90  92.686032 161.206607772 175.93855 142.56695052  1
## 318    159 152.951119 169.698688772 175.93855 149.67872751  1

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## 319	139	125.302850	155.312714388	175.93855	140.66491771	1
## 320	92	96.868075	126.090680044	175.93855	112.43283012	1
## 321	68	77.067181	137.918667299	175.93855	125.46743742	1
## 322	52	56.589842	117.457375807	175.93855	106.97797506	1
## 323	36	45.242572	123.265086107	175.93855	119.75404902	1
## 324	27	33.472510	167.540056821	175.93855	161.65267696	1
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## 326	20	18.971762	-14.030131102	32.32174	-8.37090988	1
## 327	12	16.614022	-6.543089095	32.32174	-0.87262745	1
## 328	8	10.568052	-0.564447318	32.32174	7.20573686	1
## 329	5	5.038496	6.922594689	32.32174	14.70401929	1
## 330	1	4.606380	16.088968403	32.32174	16.92451020	1
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## 332	10	20.121768	16.374111731	175.93855	18.55223135	1
## 333	23	35.006277	26.122070601	175.93855	25.18103838	1
## 334	33	51.837391	37.248559284	175.93855	35.53241362	1
## 335	59	76.381574	62.137802017	175.93855	58.30911350	1
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## 337	89	114.355503	119.973848281	175.93855	110.92255386	1
## 338	101	131.704625	162.514447136	175.93855	148.88185411	1
## 339	118	147.289363	173.390096941	175.93855	159.32969386	1
## 340	129	136.003971	190.168448895	175.93855	183.95154322	1
## 341	128	153.465391	207.924633985	175.93855	200.61236900	1
## 342	83	114.761663	206.650933140	175.93855	198.36802621	1
## 343	84	106.133803	187.896179212	175.93855	182.17529046	1
## 344	74	86.792615	214.491959510	175.93855	207.24871696	1
## 345	41	64.136165	221.979001517	175.93855	214.74699939	1
## 346	57	63.000443	228.964365769	175.93855	222.43821084	1
## 347	26	48.664008	221.962287906	175.93855	219.44381064	1
## 348	44	48.686914	227.514082192	175.93855	214.19533466	1
## 349	39	35.252346	14.530182165	32.32174	10.52376351	1
## 350	23	28.368080	24.278141035	32.32174	17.15257053	1
## 351	16	24.664177	31.012666409	32.32174	24.94024649	1
## 352	15	13.358873	-3.436067197	32.32174	-4.23482751	1
## 353	1	4.733621	47.242628294	32.32174	39.45384140	1
## 354	2	4.260506	53.050338594	32.32174	52.22991536	1
## 355	1	8.453535	60.537380601	32.32174	59.72819779	1
## 356	3	25.778873	64.435993992	175.93855	61.40076183	1
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## 358	32	59.917427	85.535358131	175.93855	76.96908402	1
## 359	79	95.634885	93.525761375	175.93855	84.27379002	1
## 360	93	122.042174	121.828079238	175.93855	111.64394313	1
## 361	104	151.581850	136.448178889	175.93855	125.25809968	1
## 362	118	137.679964	163.294798064	175.93855	150.23506167	1
## 363	91	122.534116	173.667086632	175.93855	160.87647785	1
## 364	113	130.257162	170.884985557	175.93855	159.21221693	1
## 365	99	148.447111	172.021004330	175.93855	161.94718539	1
## 366	105	118.842054	176.370277416	175.93855	166.39944600	1
## 367	67	91.389586	169.871560791	175.93855	163.21146937	1
## 368	61	72.292666	155.536604468	175.93855	151.22503399	1
## 369	57	61.553289	163.527007712	175.93855	158.52973999	1
## 370	28	43.808334	162.174454511	175.93855	157.61542170	1
## 371	21	35.431178	177.747946656	175.93855	179.74761543	1
## 372	18	35.354274	204.622400126	175.93855	206.36717851	1

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## 374	16	16.840734	8.954608407	32.32174	13.30296023	1
## 375	8	12.861701	13.807242730	32.32174	17.56164441	1
## 376	2	5.494489	20.289245745	32.32174	25.44643229	1
## 377	3	4.564944	26.771248759	32.32174	33.33122017	1
## 378	1	4.041213	34.761652003	32.32174	40.63592617	1
## 379	5	8.269453	42.750371766	32.32174	47.94127959	1
## 380	13	25.643447	27.913737687	175.93855	36.14777322	1
## 381	33	43.920889	43.538876331	175.93855	49.37542431	1
## 382	47	56.814283	51.025918338	175.93855	56.87370674	1
## 383	57	79.064998	52.384941694	175.93855	57.86960962	1
## 384	64	87.024695	47.817450698	175.93855	55.23864660	1
## 385	80	85.037721	77.827989607	175.93855	84.90487891	1
## 386	93	86.418871	85.315031614	175.93855	92.40316134	1
## 387	86	88.189166	101.139991074	175.93855	108.50697351	1
## 388	93	90.350267	106.641822344	175.93855	112.16239276	1
## 389	82	89.726304	114.128864351	175.93855	119.66067519	1
## 390	71	94.908993	114.957320612	175.93855	113.27563635	1
## 391	92	93.128123	107.081129218	175.93855	112.29636116	1
## 392	60	75.265796	103.044205317	175.93855	117.04633984	1
## 393	33	48.152867	58.274027002	175.93855	75.42222550	1
## 394	27	35.922766	65.761069009	175.93855	82.92050793	1
## 395	13	23.306084	39.675120104	175.93855	57.73508958	1
## 396	4	19.694570	68.984160441	175.93855	84.71808983	1
## 397	3	42.922256	28.053633559	175.93855	16.80405393	1
## 398	22	51.665098	33.781436458	175.93855	24.97888275	1
## 399	28	61.187037	59.372177763	175.93855	50.43881470	1
## 400	35	59.694570	51.389928155	175.93855	43.21504587	1
## 401	61	71.215347	59.378647918	175.93855	50.52039928	1
## 402	125	128.283180	77.915183935	175.93855	68.53443262	1
## 403	133	124.267486	89.320345791	175.93855	80.43194443	1
## 404	99	109.318064	96.304026561	175.93855	88.12380329	1
## 405	83	89.557548	86.060860090	175.93855	81.76950986	1
## 406	41	59.793904	82.047748393	175.93855	75.97234483	1
## 407	33	45.972439	89.283951522	175.93855	83.56709177	1
## 408	20	39.587527	95.262593299	175.93855	91.64545608	1
## 409	3	10.984870	-76.939372863	32.32174	-80.81503985	1
## 410	7	5.596063	-68.870745700	32.32174	-68.90844130	1
## 411	3	4.552869	-61.383703693	32.32174	-61.41015887	1
## 412	2	3.394872	-46.409619679	32.32174	-46.41359401	1
## 413	7	11.196665	-37.995762598	32.32174	-43.90370957	1
## 414	32	43.844369	-30.508720591	32.32174	-36.40542714	1
## 415	90	159.728897	-14.711595426	175.93855	-21.94421605	1
## 416	197	247.230906	-9.434452221	175.93855	-16.54908380	1
## 417	109	155.419086	-1.947410214	175.93855	-9.05080137	1
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## 419	52	89.428387	37.733918692	175.93855	28.57361506	1
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## 423	82	131.908996	180.650107620	175.93855	151.17438627	1
## 424	104	157.165843	175.207448049	175.93855	144.62727861	1
## 425	197	225.426076	178.050004387	175.93855	149.65897368	1
## 426	161	198.465084	170.093905592	175.93855	144.07845335	1

## 427	112	138.904180	182.832114193	175.93855	154.16361811	1
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## 430	59	84.573408	206.222393897	175.93855	183.86045962	1
## 431	28	50.739577	218.734630868	175.93855	189.42621481	1
## 432	13	17.089991	24.738500671	32.32174	-0.87639785	1
## 433	5	7.585468	25.691947484	32.32174	9.13449370	1
## 434	2	5.575883	33.178989491	32.32174	16.63277613	1
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## 436	1	2.755144	50.917351606	32.32174	30.56628916	1
## 437	6	11.599599	44.720491919	32.32174	24.30922243	1
## 438	35	50.791311	46.358188448	32.32174	26.85126188	1
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## 440	249	267.993917	73.386805465	175.93855	51.97707220	1
## 441	143	161.680638	90.668518657	175.93855	76.40534513	1
## 442	57	96.665430	115.779710928	175.93855	91.51170979	1
## 443	68	91.741891	131.805546249	175.93855	116.42295268	1
## 444	84	100.466965	149.007352040	175.93855	136.24998047	1
## 445	98	98.119652	145.774591270	175.93855	131.80602299	1
## 446	81	97.025264	159.612656511	175.93855	144.06761939	1
## 447	70	110.560269	173.954082989	175.93855	156.13563936	1
## 448	91	114.603369	165.747145317	175.93855	150.65158353	1
## 449	215	202.476268	172.732509569	175.93855	158.34279498	1
## 450	185	182.063181	154.558285752	175.93855	140.62710571	1
## 451	152	158.131441	165.987259812	175.93855	141.97747380	1
## 452	126	129.264573	162.201174788	175.93855	146.63098797	1
## 453	57	62.685732	163.335510080	175.93855	149.36660385	1
## 454	56	53.736700	160.276419314	175.93855	146.15555895	1
## 455	31	42.191054	168.517661436	175.93855	153.36380044	1
## 456	21	17.181828	-15.991360089	32.32174	-29.12882902	1
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## 461	5	9.101341	47.986447775	32.32174	23.05324158	1
## 462	27	45.412558	57.909360213	32.32174	37.17408376	1
## 463	68	126.608703	68.890013188	175.93855	47.93514750	1
## 464	217	229.969980	85.970850519	175.93855	63.55598972	1
## 465	166	163.403755	85.119975072	175.93855	62.44874241	1
## 466	63	66.316616	103.205851396	175.93855	77.68307917	1
## 467	59	71.841468	129.801631693	175.93855	102.75650567	1
## 468	78	89.957108	170.237334915	175.93855	138.92587973	1
## 469	73	84.055191	185.134424256	175.93855	154.08682026	1
## 470	62	80.009918	182.776832062	175.93855	153.55900742	1
## 471	65	84.280281	175.099406440	175.93855	149.52462366	1
## 472	97	105.187415	181.078048217	175.93855	157.60298797	1
## 473	161	164.178962	178.295947142	175.93855	155.93872705	1
## 474	120	128.989845	173.754606959	175.93855	154.95101253	1
## 475	96	119.873175	182.499210319	175.93855	161.96567759	1
## 476	53	87.056911	179.013927189	175.93855	157.61883203	1
## 477	41	53.577872	167.341212844	175.93855	150.51459598	1
## 478	34	41.428203	164.108452075	175.93855	146.07063849	1
## 479	27	32.964261	177.220151495	175.93855	160.26487691	1
## 480	13	21.118707	-21.232736424	32.32174	-22.50274366	1

## 481	12	16.493163	-4.322830571	32.32174	-2.18419179	1
## 482	11	16.125153	0.901611091	32.32174	6.18421346	1
## 483	7	10.267743	8.892014336	32.32174	13.48891946	1
## 484	3	5.091829	-4.688741872	32.32174	1.21244313	1
## 485	2	6.373852	17.869059480	32.32174	25.10457867	1
## 486	8	23.966440	28.040472187	175.93855	26.93856413	1
## 487	27	38.705551	36.281714309	175.93855	34.14680562	1
## 488	40	54.211448	54.990236848	175.93855	53.39439895	1
## 489	53	66.933903	59.291230400	175.93855	66.74990738	1
## 490	63	70.509358	78.753953054	175.93855	85.70745977	1
## 491	70	72.872219	85.739317305	175.93855	93.39867122	1
## 492	84	87.985866	105.625493796	175.93855	107.56140204	1
## 493	75	85.196178	125.140917994	175.93855	123.54568143	1
## 494	103	96.704368	147.767560381	175.93855	147.19250414	1
## 495	83	89.382547	158.520558244	175.93855	153.43480571	1
## 496	67	84.208639	162.741644396	175.93855	162.18906900	1
## 497	54	65.578281	146.326659687	175.93855	143.79683334	1
## 498	59	65.678514	152.808662702	175.93855	151.68162122	1
## 499	45	48.727222	132.850732447	175.93855	132.99858243	1
## 500	39	43.014018	147.921491792	175.93855	149.39243554	1
## 501	30	35.013696	136.220943153	175.93855	140.64559841	1
## 502	33	31.210255	121.938688373	175.93855	125.68589003	1
## 503	22	22.823414	-50.263277790	32.32174	-46.77460591	1
## 504	13	17.863648	-42.776235782	32.32174	-39.27632347	1
## 505	18	16.820319	-51.686355509	32.32174	-47.44296395	1
## 506	5	8.864547	-44.199313502	32.32174	-39.94468152	1
## 507	3	4.588137	-14.507399462	32.32174	-4.00540222	1
## 508	1	4.844054	-7.020357454	32.32174	3.49288021	1
## 509	2	17.039587	12.639847407	175.93855	13.13620146	1
## 510	19	34.293971	5.437948727	175.93855	7.26564018	1
## 511	28	50.778574	45.568827963	175.93855	40.24562918	1
## 512	58	70.493839	82.937112581	175.93855	74.28802259	1
## 513	99	101.292645	94.289572894	175.93855	89.15880740	1
## 514	116	98.033995	124.905509162	175.93855	112.68621211	1
## 515	87	89.911040	134.126923029	175.93855	124.12382223	1
## 516	110	103.241063	158.009443287	175.93855	147.28767498	1
## 517	77	93.699417	165.496485294	175.93855	154.78595742	1
## 518	65	87.845256	176.901647150	175.93855	166.68346923	1
## 519	55	81.150803	179.544382672	175.93855	168.83900322	1
## 520	49	64.452836	170.079883647	175.93855	163.83856477	1
## 521	50	62.008079	178.070286891	175.93855	171.14327077	1
## 522	35	39.973562	165.945229370	175.93855	161.25998556	1
## 523	25	37.330092	172.427232385	175.93855	169.14477344	1
## 524	28	34.034091	169.645131309	175.93855	167.48051253	1
## 525	21	28.752525	165.156492669	175.93855	163.51952500	1
## 526	7	10.008432	-3.874111418	32.32174	-17.63494674	1
## 527	1	4.166713	-11.076010098	32.32174	-23.50550802	1
## 528	1	3.120635	4.903112909	32.32174	-8.89544860	1
## 529	1	3.444132	-2.098964954	32.32174	-11.88984880	1
## 530	5	7.827137	5.388077053	32.32174	-4.39156637	1
## 531	15	30.167492	12.122602428	32.32174	3.39610959	1
## 532	84	123.494179	18.101244205	175.93855	11.47447390	1
## 533	177	194.848322	29.227732888	175.93855	21.82584914	1
## 534	102	126.162821	60.243310790	175.93855	51.10557600	1

## 535	40	62.509593	77.219144951	175.93855	66.41319422	1
## 536	46	67.269733	78.127508613	175.93855	64.62940053	1
## 537	63	70.736542	99.629198592	175.93855	90.38781274	1
## 538	60	68.263419	111.259048512	175.93855	100.54561155	1
## 539	45	65.380283	112.116394113	175.93855	101.73444344	1
## 540	57	74.376231	139.386467126	175.93855	121.91658387	1
## 541	70	85.775087	132.910934266	175.93855	114.11338057	1
## 542	184	143.362538	127.918934388	175.93855	110.34596947	1
## 543	153	132.270172	114.511848184	175.93855	99.30240573	1
## 544	106	109.384851	132.546706446	175.93855	117.50936808	1
## 545	81	84.957387	129.485932198	175.93855	114.29897059	1
## 546	59	54.611538	127.631701242	175.93855	113.57758132	1
## 547	35	41.660133	134.444450534	175.93855	125.96714983	1
## 548	24	35.096254	146.072616973	175.93855	136.12559605	1
## 549	9	10.718380	-36.675481962	32.32174	-47.04422722	1
## 550	5	4.969588	-31.198517941	32.32174	-38.77293389	1
## 551	2	3.635989	-21.027105234	32.32174	-36.93894843	1
## 552	1	3.064059	-24.961938693	32.32174	-36.64136656	1
## 553	9	9.514464	-15.464818701	32.32174	-29.91609502	1
## 554	36	42.305021	-4.138509201	32.32174	-16.68855871	1
## 555	108	124.053209	5.358610791	175.93855	-9.96328717	1
## 556	238	206.535696	9.657920861	175.93855	3.39286866	1
## 557	144	175.338535	50.190125212	175.93855	42.12453240	1
## 558	55	77.193410	72.616946784	175.93855	62.89519403	1
## 559	61	85.334899	86.455012024	175.93855	75.15679043	1
## 560	106	98.285281	107.878478085	175.93855	96.31331010	1
## 561	93	97.153688	116.118036725	175.93855	103.52219900	1
## 562	68	92.603294	157.351739648	175.93855	144.93709479	1
## 563	84	105.066015	177.317823539	175.93855	163.70107075	1
## 564	116	121.237734	184.804865546	175.93855	171.19935319	1
## 565	222	209.473760	181.492197376	175.93855	162.15415056	1
## 566	225	201.979932	179.968712698	175.93855	165.93754192	1
## 567	146	151.383954	141.654560786	175.93855	129.38996554	1
## 568	119	103.761087	145.473266777	175.93855	126.46128444	1
## 569	45	62.784843	152.960308784	175.93855	133.95956687	1
## 570	53	49.909080	156.306226360	175.93855	138.79768552	1
## 571	40	40.565262	162.113936660	175.93855	151.57375947	1
## 572	17	14.246285	-21.640884750	32.32174	-31.20891093	1
## 573	5	7.003420	0.535097943	32.32174	-10.34178479	1
## 574	10	7.234918	-7.341093451	32.32174	-11.32105999	1
## 575	1	5.671453	-26.789192313	32.32174	-30.11609063	1
## 576	8	25.332347	-19.302150306	32.32174	-22.61780819	1
## 577	30	63.660273	-7.924822745	175.93855	-12.36289747	1
## 578	72	82.835511	-0.437780738	175.93855	-4.86461503	1
## 579	58	67.462866	7.049261269	175.93855	2.63366740	1
## 580	28	44.212045	1.026071586	175.93855	-2.39048674	1
## 581	41	43.543448	9.267313708	175.93855	4.81775475	1
## 582	48	43.921925	16.754355715	175.93855	12.31603718	1
## 583	47	43.927037	24.241397722	175.93855	19.81431961	1
## 584	36	43.197576	32.230117484	175.93855	27.11967303	1
## 585	43	44.309535	41.476398599	175.93855	33.94140907	1
## 586	36	50.388575	45.023192036	175.93855	47.58695843	1
## 587	26	53.669738	48.841898027	175.93855	44.65827733	1
## 588	24	70.317161	131.774741291	175.93855	112.54341353	1

## 589	84	118.664951	137.755066550	175.93855	120.62113043	1
## 590	104	112.912636	108.203340973	175.93855	93.81553186	1
## 591	79	98.641192	115.690382980	175.93855	101.31381429	1
## 592	59	70.256483	106.278585498	175.93855	93.34010283	1
## 593	38	49.691297	113.765627505	175.93855	100.83838526	1
## 594	27	39.723096	121.252669512	175.93855	108.33666770	1
## 595	16	36.423711	116.736196577	175.93855	102.73307909	1
## 596	9	13.428015	-40.749623041	32.32174	-48.78405500	1
## 597	3	6.048728	-33.262581034	32.32174	-41.28577257	1
## 598	2	3.699274	-25.272177790	32.32174	-33.98106657	1
## 599	1	3.221774	-18.790174775	32.32174	-26.09627869	1
## 600	4	9.993949	-20.714930250	32.32174	-26.57170771	1
## 601	16	41.290864	-12.726210487	32.32174	-19.26635430	1
## 602	60	127.413055	-25.100423404	175.93855	-29.05382241	1
## 603	157	197.832108	-17.613381397	175.93855	-21.55553997	1
## 604	101	107.784616	-5.956325619	175.93855	-3.82322303	1
## 605	49	62.108568	1.781555266	175.93855	3.57859489	1
## 606	30	40.880521	-6.200694342	175.93855	-3.64517394	1
## 607	29	40.394616	1.286347665	175.93855	3.85310849	1
## 608	31	40.728416	8.773389673	175.93855	11.35139092	1
## 609	38	57.757612	54.928567955	175.93855	56.77965806	1
## 610	41	62.093025	44.986203379	175.93855	41.42500490	1
## 611	80	88.451752	73.261315384	175.93855	61.22063987	1
## 612	149	145.486412	99.908113742	175.93855	83.32144079	1
## 613	109	132.885321	108.400194742	175.93855	90.43321777	1
## 614	89	118.151061	113.202866049	175.93855	103.59579718	1
## 615	62	90.636646	132.744441059	175.93855	121.22332506	1
## 616	58	64.692446	122.327604585	175.93855	113.63611905	1
## 617	26	47.213239	163.211628891	175.93855	140.39479747	1
## 618	23	40.683805	179.487248046	175.93855	159.27830621	1
## 619	28	32.405696	-8.817465252	32.32174	-18.53295660	1
## 620	20	23.428002	-4.094701345	32.32174	-9.97162233	1
## 621	15	19.278486	2.890662907	32.32174	-2.28041088	1
## 622	8	10.715436	4.024998198	32.32174	0.45520500	1
## 623	3	5.277240	-11.737822517	32.32174	-12.28182043	1
## 624	2	5.869660	14.787433263	32.32174	13.03756632	1
## 625	5	18.946873	32.822291525	175.93855	31.24452867	1
## 626	34	43.545685	56.003313211	175.93855	51.72514936	1
## 627	34	59.067314	53.394882140	175.93855	51.29380103	1
## 628	55	65.793194	48.403937307	175.93855	53.45765958	1
## 629	64	70.825851	56.392657069	175.93855	60.76301299	1
## 630	78	87.589459	81.783577557	175.93855	83.34678386	1
## 631	65	83.262932	103.457882496	175.93855	104.40683902	1
## 632	99	91.758596	99.392069255	175.93855	101.58294698	1
## 633	120	115.599306	90.679431736	175.93855	84.10207537	1
## 634	107	106.320817	122.398191692	175.93855	116.06438687	1
## 635	91	95.939842	127.120955598	175.93855	124.62572114	1
## 636	68	81.547784	111.130479772	175.93855	107.36993356	1
## 637	58	76.924745	118.948268057	175.93855	119.37299662	1
## 638	43	53.039553	102.603862186	175.93855	102.22765507	1
## 639	36	42.564651	110.090904193	175.93855	109.72593751	1
## 640	32	40.393461	98.469207910	175.93855	99.64907587	1
## 641	33	36.810954	105.956249917	175.93855	107.14735830	1
## 642	33	33.652820	-65.994877368	32.32174	-65.40960214	1

## 643	29	26.522072	-66.116419947	32.32174	-62.19101631	1
## 644	11	20.402667	-52.780032462	32.32174	-49.73649089	1
## 645	8	11.114205	-79.871020360	32.32174	-74.53540379	1
## 646	1	4.982052	-72.383978353	32.32174	-67.03712136	1
## 647	3	4.791328	-49.427644731	32.32174	-44.81678766	1
## 648	3	16.032725	-34.453560717	175.93855	-29.82022280	1
## 649	12	30.552654	-28.645850417	175.93855	-17.04414884	1
## 650	38	63.913916	-2.050070120	175.93855	8.02927766	1
## 651	64	73.698404	11.286317366	175.93855	20.48380308	1
## 652	59	87.393209	43.200876047	175.93855	43.13253086	1
## 653	97	132.028741	126.672211522	175.93855	118.15169300	1
## 654	84	118.420379	108.420818832	175.93855	101.76538082	1
## 655	122	118.270949	115.657021962	175.93855	109.36012776	1
## 656	109	130.928557	138.534503227	175.93855	132.91048596	1
## 657	123	129.438121	146.021545234	175.93855	140.40876839	1
## 658	77	120.100877	156.774543097	175.93855	146.65106997	1
## 659	65	85.354020	132.172127174	175.93855	125.50144382	1
## 660	55	74.095149	140.160846936	175.93855	132.80679723	1
## 661	33	51.887966	144.461840488	175.93855	146.16230566	1
## 662	28	38.107931	136.055081999	175.93855	137.80208875	1
## 663	21	34.628293	144.043801761	175.93855	145.10744217	1
## 664	21	33.180998	164.088738009	175.93855	162.54139362	1
## 665	7	14.200197	-5.443543834	32.32174	-18.42014910	1
## 666	7	6.812736	0.585060960	32.32174	-19.24568002	1
## 667	1	3.370423	7.067063974	32.32174	-11.36089214	1
## 668	2	3.078265	14.554105981	32.32174	-3.86260971	1
## 669	2	4.047791	27.744657758	32.32174	9.00160421	1
## 670	8	9.670459	19.337899269	32.32174	0.64138731	1
## 671	37	43.652321	10.680301902	32.32174	-7.62236509	1
## 672	72	106.723869	26.783306097	175.93855	15.95950071	1
## 673	185	184.113773	45.319842115	175.93855	33.97353404	1
## 674	112	118.279773	53.057723000	175.93855	41.37535197	1
## 675	69	68.699556	58.785525899	175.93855	49.55018079	1
## 676	48	66.770196	66.272567906	175.93855	57.04846322	1
## 677	68	73.355174	86.941833852	175.93855	78.49502382	1
## 678	54	66.064598	77.980696064	175.93855	73.30100894	1
## 679	86	75.214392	102.417595621	175.93855	93.29865967	1
## 680	44	64.492358	95.215696941	175.93855	87.42809839	1
## 681	86	87.595412	110.337474347	175.93855	100.84932592	1
## 682	161	137.595367	111.194819948	175.93855	102.03815781	1
## 683	156	141.433301	128.024818401	175.93855	117.75546453	1
## 684	111	152.345471	162.867139665	175.93855	142.82376615	1
## 685	78	79.925768	131.474936507	175.93855	130.00372565	1
## 686	56	56.850179	137.706100644	175.93855	137.98497804	1
## 687	34	42.147266	147.123313235	175.93855	140.10900443	1
## 688	17	28.730923	143.310022355	175.93855	137.18800047	1
## 689	8	11.290294	-28.472259478	32.32174	-34.84160833	1
## 690	3	4.952058	-32.034711481	32.32174	-37.85907680	1
## 691	2	3.624110	-26.306908582	32.32174	-29.68424798	1
## 692	2	3.260091	-18.819866575	32.32174	-22.18596555	1
## 693	3	8.094668	-64.412030996	32.32174	-57.34345648	1
## 694	22	24.625910	-56.924988989	32.32174	-49.84517404	1
## 695	52	91.535084	-43.588601504	175.93855	-37.39064863	1
## 696	135	124.269848	-36.101559497	175.93855	-29.89236619	1

## 697	116	142.491436	-26.935185783	175.93855	-27.67187529	1
## 698	47	76.297788	-19.448143776	175.93855	-20.17359286	1
## 699	51	63.262920	9.357535324	175.93855	7.00298382	1
## 700	55	60.835080	22.693922809	175.93855	19.45750924	1
## 701	52	60.516564	30.180964816	175.93855	26.95579167	1
## 702	54	66.099119	58.285145344	175.93855	51.44913630	1
## 703	52	90.943647	81.162626610	175.93855	74.99949449	1
## 704	64	88.640254	90.910585480	175.93855	81.62830152	1
## 705	176	150.083649	96.136710624	175.93855	89.99605936	1
## 706	168	150.083856	92.123598926	175.93855	84.19889432	1
## 707	108	114.726950	100.112318689	175.93855	91.50424773	1
## 708	74	87.985883	88.490622405	175.93855	81.42738610	1
## 709	64	68.654752	95.977664412	175.93855	88.92566853	1
## 710	36	51.426199	102.712189786	175.93855	96.71334449	1
## 711	16	29.474666	91.168717421	175.93855	91.23837540	1
## 712	2	6.124944	-76.690620011	32.32174	-75.68644308	1
## 713	3	5.072906	-67.696861256	32.32174	-68.76759511	1
## 714	4	3.993154	-61.214858242	32.32174	-60.88280723	1
## 715	1	2.867877	-53.727816235	32.32174	-53.38452480	1
## 716	1	3.344098	-43.727335005	32.32174	-46.85282970	1
## 717	3	5.433983	-39.255409976	32.32174	-38.19503092	1
## 718	18	23.425161	-31.768367969	32.32174	-30.69674849	1
## 719	49	80.085635	-22.271247976	175.93855	-23.97147695	1
## 720	155	114.213315	-14.784205969	175.93855	-16.47319452	1
## 721	123	160.184063	-2.029403640	175.93855	-8.42698522	1
## 722	61	98.868381	-17.369398955	175.93855	-20.02691516	1
## 723	52	73.419717	14.702236000	175.93855	5.89368067	1
## 724	64	74.209318	22.692639245	175.93855	13.19838667	1
## 725	75	123.703839	60.100701357	175.93855	40.58659795	1
## 726	63	101.790170	107.364638237	175.93855	79.68246105	1
## 727	76	105.562112	127.106034064	175.93855	100.18615002	1
## 728	103	134.959997	139.289863365	175.93855	113.43751680	1
## 729	190	215.104351	190.324400903	175.93855	157.34294519	1
## 730	182	232.427460	216.772662010	175.93855	182.82670760	1
## 731	91	124.662386	199.076932183	175.93855	169.53331598	1
## 732	75	94.128608	189.240625820	175.93855	160.42315645	1
## 733	63	71.612552	189.320587540	175.93855	166.51725595	1
## 734	40	53.943956	202.179764601	175.93855	180.80860630	1
## 735	32	39.873233	207.085100468	175.93855	182.09401747	1
## 736	12	12.153927	43.722729514	32.32174	18.04612227	1
## 737	5	5.390316	43.626054183	32.32174	16.64883402	1
## 738	2	3.741841	42.950132306	32.32174	23.03362187	1
## 739	1	2.683845	50.437174313	32.32174	30.53190430	1
## 740	2	5.393505	44.846821349	32.32174	25.56013398	1
## 741	39	40.651714	68.808193963	32.32174	47.39396222	1
## 742	87	111.307433	54.474921123	175.93855	35.40687942	1
## 743	188	184.257244	62.463640885	175.93855	42.71223284	1
## 744	133	142.835367	81.424685784	175.93855	61.86271424	1
## 745	52	62.183388	104.104029715	175.93855	82.53626395	1
## 746	64	65.424711	113.601149707	175.93855	89.26153549	1
## 747	69	68.662346	132.058833368	175.93855	108.60559333	1
## 748	51	64.946994	140.550914368	175.93855	115.71737031	1
## 749	47	62.479134	160.015320504	175.93855	134.67427529	1
## 750	60	66.305978	166.497323519	175.93855	142.55906317	1

## 751	78	84.204305	172.726804173	175.93855	150.54096297	1
## 752	175	154.454038	166.729765303	175.93855	147.16005732	1
## 753	147	147.865786	173.715129555	175.93855	154.85126877	1
## 754	96	110.846862	178.437893461	175.93855	163.41260304	1
## 755	109	95.715556	171.964044084	175.93855	155.60875233	1
## 756	54	61.309135	156.173389074	175.93855	141.22912582	1
## 757	41	49.253070	172.249187412	175.93855	157.23647348	1
## 758	38	40.888440	194.676008983	175.93855	178.00713511	1
## 759	13	14.078851	25.665168412	32.32174	17.81042764	1
## 760	7	6.716828	-11.694962568	32.32174	-16.15102861	1
## 761	1	2.783298	-17.137622140	32.32174	-22.69813627	1
## 762	1	2.557478	-9.650580133	32.32174	-15.19985384	1
## 763	7	7.650168	5.825181636	32.32174	-0.39621799	1
## 764	28	35.908496	34.579842675	32.32174	29.75298427	1
## 765	87	132.091364	29.057275703	175.93855	18.60463147	1
## 766	220	226.965621	5.656752542	175.93855	-6.31381421	1
## 767	127	144.939464	4.054415507	175.93855	-1.20039835	1
## 768	51	66.067538	87.327213731	175.93855	77.20172529	1
## 769	64	79.805708	102.846294161	175.93855	84.18488275	1
## 770	86	90.746480	121.133046345	175.93855	108.22665023	1
## 771	82	105.155291	131.054675219	175.93855	116.08836984	1
## 772	91	109.639806	154.435517722	175.93855	139.44515161	1
## 773	90	110.130516	156.799580071	175.93855	140.05454904	1
## 774	99	135.774163	182.893682613	175.93855	165.32090455	1
## 775	205	181.230432	146.235050205	175.93855	134.04268037	1
## 776	155	154.906065	138.531473770	175.93855	128.36504811	1
## 777	103	115.186983	135.470699522	175.93855	125.15465062	1
## 778	71	89.885606	143.461102766	175.93855	132.45935662	1
## 779	43	62.704903	139.898650763	175.93855	129.44188815	1
## 780	46	57.096832	158.435186780	175.93855	147.45592148	1
## 781	31	51.150818	154.369373540	175.93855	144.63202944	1
## 782	39	37.708183	-21.003954697	32.32174	-19.13449068	1
## 783	18	25.197365	-2.467418680	32.32174	-1.12045734	1
## 784	17	22.820212	-17.079364693	32.32174	-14.65367671	1
## 785	11	11.886795	-9.592322686	32.32174	-7.15539428	1
## 786	8	7.160031	-49.915497540	32.32174	-36.99869013	1
## 787	9	7.647819	-64.499609258	32.32174	-48.88930842	1
## 788	4	8.331233	-58.520967481	32.32174	-40.81094411	1
## 789	4	28.794391	-28.206888151	175.93855	-14.21444931	1
## 790	10	33.619886	-42.038483237	175.93855	-26.39446112	1
## 791	20	38.513426	-34.551441230	175.93855	-18.89617869	1
## 792	34	48.452153	-26.311882590	175.93855	-11.68728979	1
## 793	47	59.404165	-12.975495105	175.93855	0.76723563	1
## 794	52	59.818892	-4.985091860	175.93855	8.07194163	1
## 795	72	62.693085	2.501950147	175.93855	15.57022406	1
## 796	55	63.757703	7.224714053	175.93855	24.13155833	1
## 797	60	63.963391	14.711756060	175.93855	31.62984076	1
## 798	71	66.273951	24.459714930	175.93855	38.25864779	1
## 799	78	86.172638	41.988873346	175.93855	44.46879435	1
## 800	83	86.789608	79.408176024	175.93855	75.53856218	1
## 801	84	80.745361	86.895218031	175.93855	83.03684462	1
## 802	69	75.771232	111.902690698	175.93855	104.08910786	1
## 803	56	57.606187	77.957318329	175.93855	74.72045742	1
## 804	45	58.586419	99.908612958	175.93855	97.32729656	1

## 805	59	51.835013	108.904055195	175.93855	104.24549712	1
## 806	39	43.410116	-12.973599756	32.32174	-19.64896823	1
## 807	44	34.912666	9.332253354	32.32174	-3.08449218	1
## 808	20	25.192162	26.362072624	32.32174	15.50897562	1
## 809	13	16.002382	29.828958660	32.32174	24.55327984	1
## 810	2	5.367926	41.837834393	32.32174	30.31261146	1
## 811	1	4.378227	47.063959537	32.32174	38.68036930	1
## 812	1	6.101605	54.551001544	32.32174	46.17865173	1
## 813	8	21.017970	44.134165070	175.93855	38.59144572	1
## 814	23	45.766875	50.616168084	175.93855	46.47623360	1
## 815	45	78.041116	89.690990266	175.93855	82.81535363	1
## 816	89	127.879948	114.378728701	175.93855	102.71653986	1
## 817	117	163.323665	134.344812592	175.93855	121.48051581	1
## 818	174	186.706267	150.039901635	175.93855	141.88697808	1
## 819	182	187.513991	157.526943642	175.93855	149.38526051	1
## 820	161	179.099806	166.522385879	175.93855	156.30346106	1
## 821	182	178.155233	174.009427887	175.93855	163.80174349	1
## 822	157	173.234303	175.117612365	175.93855	164.89411087	1
## 823	121	158.525228	187.475111670	175.93855	179.37839024	1
## 824	78	116.783173	163.928752801	175.93855	154.86963305	1
## 825	21	55.708699	154.013594082	175.93855	147.08949803	1
## 826	26	48.825887	160.998958334	175.93855	154.78070948	1
## 827	27	57.085061	163.087314557	175.93855	160.10244549	1
## 828	62	72.769281	170.574356564	175.93855	167.60072792	1
## 829	30	40.764220	161.162559082	175.93855	159.62701647	1
## 830	15	16.853981	-7.364683768	32.32174	-21.72103170	1
## 831	5	6.816347	-27.825975260	32.32174	-40.21049406	1
## 832	3	4.392047	-37.237772741	32.32174	-48.18420552	1
## 833	1	3.766370	-43.010123547	32.32174	-53.30482417	1
## 834	2	3.613968	-35.523081540	32.32174	-45.80654174	1
## 835	10	12.179342	-28.036039533	32.32174	-38.30825931	1
## 836	30	40.486013	-41.867634618	32.32174	-50.48827112	1
## 837	95	160.596033	-18.911300997	175.93855	-28.26793743	1
## 838	230	239.247767	-49.891519404	175.93855	-49.89220898	1
## 839	118	180.090819	21.020866786	175.93855	9.26001449	1
## 840	55	93.015739	47.165987390	175.93855	31.55374442	1
## 841	47	101.740972	94.049214975	175.93855	75.04872212	1
## 842	66	108.799457	110.827566929	175.93855	99.67057149	1
## 843	64	88.695520	142.571194133	175.93855	127.01700892	1
## 844	60	84.885143	150.058236140	175.93855	134.51529135	1
## 845	50	97.266568	170.024320031	175.93855	153.27926731	1
## 846	114	129.799808	165.784836787	175.93855	149.22246268	1
## 847	216	203.837685	133.347864648	175.93855	119.27373037	1
## 848	175	200.539134	155.020486104	175.93855	140.33443294	1
## 849	128	170.603563	145.557670561	175.93855	135.33334707	1
## 850	88	126.992007	154.803951676	175.93855	142.15508311	1
## 851	78	112.568260	162.211086283	175.93855	145.05212041	1
## 852	37	69.796604	135.198950741	175.93855	118.92318300	1
## 853	25	56.180657	145.347606288	175.93855	137.23558182	1
## 854	10	18.729250	-45.963098164	32.32174	-52.80005818	1
## 855	4	9.803272	-38.476056157	32.32174	-45.30177574	1
## 856	2	6.009238	-48.338513333	32.32174	-56.05518377	1
## 857	1	3.200509	-35.676418562	32.32174	-38.70937227	1
## 858	3	3.596747	-30.680058619	32.32174	-46.72291588	1

## 859	2	9.243934	6.090047113	32.32174	-15.04988312	1
## 860	39	53.035549	37.885975943	32.32174	15.58305130	1
## 861	100	181.547619	52.079883230	175.93855	28.06140718	1
## 862	243	258.404638	80.711892326	175.93855	54.00507128	1
## 863	135	150.868293	97.038529542	175.93855	69.91595443	1
## 864	48	67.995464	110.730759074	175.93855	82.58723933	1
## 865	50	65.447951	116.711084333	175.93855	90.66495623	1
## 866	65	90.680688	150.438238792	175.93855	121.85490425	1
## 867	50	83.773968	168.752825271	175.93855	147.53927282	1
## 868	64	63.652547	160.516998260	175.93855	134.48134627	1
## 869	51	64.852045	171.922160116	175.93855	146.37885808	1
## 870	83	88.709402	181.670118986	175.93855	153.00766510	1
## 871	176	163.921618	196.791896392	175.93855	166.42889263	1
## 872	152	156.304909	195.163637065	175.93855	170.22691293	1
## 873	101	106.498004	174.528675569	175.93855	150.50453799	1
## 874	56	75.155552	179.754800713	175.93855	158.87229583	1
## 875	54	64.016977	199.122705719	175.93855	175.26691113	1
## 876	29	39.556396	199.001163140	175.93855	178.48549696	1
## 877	12	29.482596	205.986527392	175.93855	186.17670841	1
## 878	17	13.535427	21.807197101	32.32174	2.25758994	1
## 879	7	8.636003	27.033322245	32.32174	10.62534777	1
## 880	3	4.678786	25.256260162	32.32174	8.57458141	1
## 881	2	3.494888	8.911225854	32.32174	-2.63884308	1
## 882	7	8.110514	23.383632113	32.32174	12.55065080	1
## 883	43	38.781645	29.111435012	32.32174	20.72547962	1
## 884	99	129.916758	29.518120919	175.93855	19.13461494	1
## 885	199	199.675915	62.413906389	175.93855	51.94398100	1
## 886	123	138.075704	85.144268381	175.93855	69.64490512	1
## 887	59	69.211388	102.346074172	175.93855	89.47193292	1
## 888	41	61.238921	95.448770957	175.93855	86.46290377	1
## 889	61	70.547096	122.269239320	175.93855	109.79661727	1
## 890	69	70.406377	131.937290789	175.93855	111.82417916	1
## 891	58	69.285753	159.287271202	175.93855	136.60756472	1
## 892	64	79.875148	164.844142624	175.93855	149.48010319	1
## 893	79	91.776433	165.198126988	175.93855	150.86251151	1
## 894	166	170.782869	179.314865401	175.93855	164.67024448	1
## 895	170	149.932659	152.978077618	175.93855	139.58129064	1
## 896	88	89.395985	60.146843565	175.93855	60.71206253	1
## 897	84	80.411138	66.127168824	175.93855	68.78977943	1
## 898	83	73.549748	75.293542539	175.93855	71.01027033	1
## 899	46	47.402961	100.209991129	175.93855	101.36148836	1
## 900	37	40.236601	108.198710891	175.93855	108.66684177	1
## 901	16	12.457545	-83.111993561	32.32174	-81.36879823	1
## 902	7	7.420152	-63.370597735	32.32174	-60.86510926	1
## 903	3	4.981327	-55.883555727	32.32174	-53.36682683	1
## 904	1	3.523613	8.686135068	32.32174	-0.06198158	1
## 905	6	8.097257	30.212920815	32.32174	21.40840949	1
## 906	26	33.872849	29.865406607	32.32174	20.10758575	1
## 907	99	117.057461	44.282946914	175.93855	24.91495898	1
## 908	178	188.727599	52.473170975	175.93855	35.09582606	1
## 909	122	128.262217	81.780527830	175.93855	62.07947373	1
## 910	35	60.341951	88.262530844	175.93855	69.96426161	1
## 911	45	63.917089	109.233653729	175.93855	88.34173212	1
## 912	69	71.728688	134.122896462	175.93855	111.11843201	1

## 913	62	71.300073	157.000377727	175.93855	134.66879020	1
## 914	48	64.683130	174.505723939	175.93855	151.42608049	1
## 915	50	65.374152	185.909202313	175.93855	163.32423972	1
## 916	80	85.703989	189.730646831	175.93855	166.32618085	1
## 917	165	156.810902	191.819003054	175.93855	171.64791686	1
## 918	160	149.332634	188.031862986	175.93855	170.37016139	1
## 919	112	121.841418	189.167881760	175.93855	173.10512986	1
## 920	97	99.207478	189.774388483	175.93855	174.39042626	1
## 921	72	68.268993	178.073839843	175.93855	165.64358912	1
## 922	51	53.724820	179.711536372	175.93855	168.18562857	1
## 923	34	36.679378	182.328121080	175.93855	168.69791407	1
## 924	14	12.728611	-11.192482174	32.32174	-23.44087611	1
## 925	7	6.538222	-15.005773055	32.32174	-26.36188007	1
## 926	3	4.258465	-7.518731048	32.32174	-18.86359764	1
## 927	4	8.417549	-10.796039724	32.32174	-20.25334495	1
## 928	24	36.525575	-10.017546479	32.32174	-17.73448856	1
## 929	74	112.309727	-19.429343961	175.93855	-25.70820001	1
## 930	216	221.535159	-5.538577177	175.93855	-16.41987661	1
## 931	140	153.304953	8.802849301	175.93855	-4.35185664	1
## 932	44	71.243422	32.685369559	175.93855	18.81199611	1
## 933	64	76.792691	111.182528132	175.93855	92.79105990	1
## 934	71	78.605596	118.669570139	175.93855	100.28934233	1
## 935	110	94.912202	159.529782242	175.93855	137.59516447	1
## 936	84	96.256818	205.458988895	175.93855	178.50402203	1
## 937	74	100.364587	228.338153643	175.93855	202.05373282	1
## 938	125	124.310673	215.008236312	175.93855	189.68079198	1
## 939	211	194.126877	228.068917672	175.93855	206.84765599	1
## 940	174	169.951499	220.867018992	175.93855	200.97709472	1
## 941	101	132.184451	211.455221511	175.93855	193.00338326	1
## 942	63	87.013676	160.886715779	175.93855	143.45040034	1
## 943	47	61.941686	153.684817099	175.93855	137.57983907	1
## 944	43	48.262209	149.369848463	175.93855	134.85176412	1
## 945	53	44.434072	138.449650751	175.93855	127.45813455	1
## 946	30	30.479004	-41.767983971	32.32174	-41.65113401	1
## 947	24	24.359281	-79.206967308	32.32174	-74.28256575	1
## 948	15	18.852309	-58.460532488	32.32174	-54.16538224	1
## 949	10	11.509256	-56.822835959	32.32174	-51.62334279	1
## 950	4	4.428957	-34.568000909	32.32174	-32.08624115	1
## 951	1	3.899549	-27.080958902	32.32174	-24.58795872	1
## 952	2	6.330085	-59.824438509	32.32174	-57.72542869	1
## 953	11	25.200096	-25.115428823	175.93855	-22.30675945	1
## 954	30	43.797583	-24.536756395	175.93855	-22.66406413	1
## 955	43	55.304622	37.417404736	175.93855	36.05976525	1
## 956	84	115.733495	115.290233610	175.93855	106.02621990	1
## 957	114	162.420169	176.160903310	175.93855	160.20680925	1
## 958	120	148.802970	161.599975357	175.93855	143.70096429	1
## 959	135	149.963854	168.332817249	175.93855	151.48928766	1
## 960	120	191.723985	202.936823766	175.93855	186.59473291	1
## 961	174	179.218565	217.104580240	175.93855	197.42984030	1
## 962	145	175.228888	224.591622247	175.93855	204.92812273	1
## 963	137	165.936793	223.568760280	175.93855	202.58731543	1
## 964	64	101.216087	200.621863860	175.93855	186.70704148	1
## 965	41	75.032266	205.344627767	175.93855	195.26837575	1
## 966	40	65.427249	201.357666882	175.93855	191.11445920	1

## 967	51	56.191900	205.075391796	175.93855	200.06229892	1
## 968	45	50.508678	201.591792149	175.93855	195.71480595	1
## 969	32	37.040780	188.512713696	175.93855	183.24540060	1
## 970	39	32.745964	-18.768960126	32.32174	-21.31936164	1
## 971	24	23.824568	-0.483262987	32.32174	-3.20886380	1
## 972	20	21.140680	-30.033933520	32.32174	-24.08319273	1
## 973	12	11.939489	-9.036659823	32.32174	-4.06247372	1
## 974	2	4.950955	-0.544578823	32.32174	3.04930326	1
## 975	5	8.120441	13.926143953	32.32174	18.23944455	1
## 976	3	24.853401	55.940197805	175.93855	61.00754790	1
## 977	12	39.361115	46.804106449	175.93855	48.32149786	1
## 978	47	75.172631	69.483450380	175.93855	68.99504757	1
## 979	105	137.276213	131.105581668	175.93855	116.95497375	1
## 980	112	152.892265	159.711439951	175.93855	141.25538935	1
## 981	152	185.487102	194.617303406	175.93855	173.29174451	1
## 982	154	196.688588	212.824148190	175.93855	192.73226686	1
## 983	161	169.075787	223.276344159	175.93855	207.97492817	1
## 984	162	175.307016	228.753308180	175.93855	216.24622150	1
## 985	134	166.236169	247.012854507	175.93855	232.71347085	1
## 986	125	196.236927	256.179228222	175.93855	234.93396175	1
## 987	95	150.083481	248.473968305	175.93855	229.25697691	1
## 988	61	116.337003	249.080475028	175.93855	230.54227331	1
## 989	47	75.057664	257.321717150	175.93855	237.75051480	1
## 990	51	70.671728	265.310436912	175.93855	245.05586821	1
## 991	36	62.983492	271.792439927	175.93855	252.94065609	1
## 992	30	52.209136	280.284520926	175.93855	260.05243308	1
## 993	11	21.976691	101.488134994	32.32174	69.54184156	1
## 994	7	12.272571	108.975177001	32.32174	77.04012399	1
## 995	2	9.488680	102.978138131	32.32174	73.65921834	1
## 996	2	4.792168	90.100563977	32.32174	64.06532666	1
## 997	2	4.087171	77.274007884	32.32174	51.49880940	1
## 998	3	10.826461	84.761049891	32.32174	58.99709183	1
## 999	26	58.888245	113.817567868	32.32174	86.07720400	1
## 1000	98	194.836158	121.304609875	175.93855	93.57548643	1
## 1001	256	261.788837	156.514013752	175.93855	122.54210408	1
## 1002	130	158.038593	175.224219773	175.93855	141.78905000	1
## 1003	55	113.309115	200.485269844	175.93855	168.67547096	1
## 1004	53	111.488869	253.970359540	316.20792	216.83729812	1
## 1005	126	130.143411	278.633630644	316.20792	235.09458844	1
## 1006	120	130.246275	297.594675543	316.20792	254.24506985	1
## 1007	90	121.160373	321.528213862	316.20792	274.43629701	1
## 1008	90	122.844728	306.821450200	316.20792	258.34014055	1
## 1009	118	230.821468	286.084452583	316.20792	244.56301679	1
## 1010	243	276.868621	265.275821083	175.93855	223.60772926	1
## 1011	205	260.795382	239.745535041	175.93855	201.51523147	1
## 1012	98	236.281058	232.743457178	175.93855	198.52083128	1
## 1013	70	143.744896	227.249779546	175.93855	194.94634920	1
## 1014	43	101.165507	226.902265337	175.93855	193.64552546	1
## 1015	45	82.538242	239.640473937	175.93855	203.73069022	1
## 1016	20	50.442789	231.884195959	175.93855	201.02633096	1
## 1017	19	21.339723	52.577006449	32.32174	24.09256200	1
## 1018	5	8.836796	81.563574027	32.32174	43.99386301	1
## 1019	3	7.558585	83.904452610	32.32174	49.21848710	1
## 1020	1	4.471474	87.405817297	32.32174	58.82197556	1

## 1021	4	7.871986	104.937314322	32.32174	77.22251434	1
## 1022	30	39.358182	104.314093987	32.32174	80.63402920	1
## 1023	105	135.947015	112.302813750	175.93855	87.93938261	1
## 1024	223	201.878716	119.789855757	175.93855	95.43766504	1
## 1025	110	127.592001	141.264339878	175.93855	113.62155912	1
## 1026	52	72.682764	156.256246867	175.93855	131.34543674	1
## 1027	57	75.084384	173.509070719	175.93855	148.19983895	1
## 1028	71	88.419173	189.055357007	175.93855	162.75751454	1
## 1029	82	106.633526	214.369108621	175.93855	186.67066251	1
## 1030	79	101.644123	232.125293711	175.93855	203.33148829	1
## 1031	85	102.812579	238.607296725	175.93855	211.21627617	1
## 1032	98	133.053931	247.601055480	175.93855	218.13512413	1
## 1033	206	215.230425	242.107377847	175.93855	214.56064205	1
## 1034	212	198.409028	242.236674146	175.93855	217.68276338	1
## 1035	145	152.125689	235.034775466	175.93855	211.81220210	1
## 1036	101	115.434328	220.701502625	175.93855	199.82511930	1
## 1037	66	78.591327	178.591882807	175.93855	163.08385171	1
## 1038	41	55.211072	203.758115231	175.93855	187.40733558	1
## 1039	20	36.081179	205.224880283	175.93855	194.64708468	1
## 1040	15	14.686588	41.331942234	32.32174	23.21824776	1
## 1041	9	8.417292	36.339942357	32.32174	19.45083667	1
## 1042	1	4.671884	44.762553883	32.32174	32.73984354	1
## 1043	1	2.785342	45.089332389	32.32174	26.54773372	1
## 1044	5	8.050484	61.415969604	32.32174	42.45861688	1
## 1045	33	44.100854	51.727182432	32.32174	32.93812143	1
## 1046	108	152.070790	57.534892732	175.93855	45.71419539	1
## 1047	230	264.940335	69.866241224	175.93855	58.55522626	1
## 1048	124	160.661058	93.521734808	175.93855	71.26839979	1
## 1049	69	96.357100	132.926248224	175.93855	106.18103081	1
## 1050	66	108.431248	177.771563529	175.93855	148.80641833	1
## 1051	86	128.885695	201.880455334	175.93855	170.22991066	1
## 1052	93	138.976258	225.987663656	175.93855	191.65405041	1
## 1053	82	128.896646	250.598233217	175.93855	212.88461372	1
## 1054	117	136.408586	258.085275224	175.93855	220.38289616	1
## 1055	122	199.713991	258.440943070	175.93855	221.76465706	1
## 1056	255	323.843402	270.798442375	175.93855	236.24893642	1
## 1057	222	356.665408	233.213623330	175.93855	204.02719318	1
## 1058	161	198.044107	194.423944475	175.93855	169.31579431	1
## 1059	118	170.187516	235.205304222	175.93855	207.95164095	1
## 1060	92	128.745036	230.213304344	175.93855	204.18422985	1
## 1061	73	99.481906	216.381709259	175.93855	192.00421804	1
## 1062	33	71.056975	264.799487887	175.93855	236.56236235	1
## 1063	17	22.818421	51.666785104	32.32174	27.04200454	1
## 1064	6	9.450982	59.657188348	32.32174	34.34671054	1
## 1065	6	6.980194	65.464898648	32.32174	47.12278450	1
## 1066	4	4.804374	74.127911125	32.32174	49.53685183	1
## 1067	4	4.579532	66.926012445	32.32174	43.66629056	1
## 1068	12	15.816110	52.766409608	32.32174	32.91212034	1
## 1069	47	70.618280	46.317027562	32.32174	26.75216554	1
## 1070	126	210.115787	87.880421719	175.93855	66.74057232	1
## 1071	285	330.189610	95.116624848	175.93855	74.33531926	1
## 1072	179	195.659276	116.059913437	175.93855	91.07018869	1
## 1073	88	129.351337	136.025997329	175.93855	109.83416465	1
## 1074	90	132.941993	182.485771077	175.93855	158.12396392	1

## 1075	101	153.021950	209.478854398	175.93855	176.75932035	1
## 1076	123	162.934218	249.983224455	316.20792	213.84838301	1
## 1077	81	143.950729	281.647999302	316.20792	242.52484494	1
## 1078	106	148.033109	296.266415471	316.20792	256.13964889	1
## 1079	146	221.989953	275.660343315	316.20792	243.99114468	1
## 1080	274	328.892562	295.626427206	316.20792	262.75512064	1
## 1081	222	315.951189	269.064951359	316.20792	239.40587980	1
## 1082	175	226.913747	232.708804326	175.93855	199.12664846	1
## 1083	139	181.238123	231.356251125	175.93855	198.21233017	1
## 1084	124	158.330892	260.386618290	316.20792	223.64919385	1
## 1085	76	114.166557	251.425480502	316.20792	218.45517896	1
## 1086	44	70.830646	229.785480014	175.93855	199.11930947	1
## 1087	32	31.880396	40.433835486	32.32174	11.28328416	1
## 1088	8	12.660018	46.915838500	32.32174	19.16807204	1
## 1089	7	8.963526	55.407919500	32.32174	26.27984902	1
## 1090	8	6.576062	79.290439758	32.32174	49.44370177	1
## 1091	1	5.317163	86.777481765	32.32174	56.94198421	1
## 1092	7	14.422533	90.073436324	32.32174	70.68399808	1
## 1093	50	72.788830	81.666677835	32.32174	62.32378117	1
## 1094	116	196.856948	73.259919346	175.93855	53.96356427	1
## 1095	272	274.252572	80.243600116	175.93855	61.65542313	1
## 1096	169	191.245885	87.730642123	175.93855	69.15370556	1
## 1097	95	120.858415	112.619884856	175.93855	91.93040545	1
## 1098	113	146.667623	120.781219578	175.93855	94.53740181	1
## 1099	185	185.583974	175.046660202	316.20792	144.05243652	1
## 1100	176	200.287636	247.138810433	316.20792	209.98233677	1
## 1101	191	184.796096	289.402419597	316.20792	246.39485304	1
## 1102	172	186.169256	297.392822842	316.20792	253.69955904	1
## 1103	232	259.224136	304.125664734	316.20792	261.48788241	1
## 1104	327	353.959181	317.288382215	316.20792	272.70949524	1
## 1105	224	317.236585	320.634299791	316.20792	277.54761389	1
## 1106	162	256.981051	335.382586376	316.20792	286.85976775	1
## 1107	124	206.804227	326.066890107	316.20792	287.70811596	1
## 1108	72	133.239101	354.828769620	316.20792	309.34912997	1
## 1109	107	120.246153	370.905851523	316.20792	331.61560021	1
## 1110	77	99.301391	377.466706893	316.20792	338.17036358	1
## 1111	29	40.480344	184.568525988	32.32174	154.91988783	1
## 1112	31	32.556627	180.530547042	32.32174	153.73859688	1
## 1113	17	25.013094	183.876464618	32.32174	158.57671552	1
## 1114	7	13.949697	181.795862114	32.32174	159.59568667	1
## 1115	3	6.104216	181.727021079	32.32174	159.84099950	1
## 1116	3	6.477002	189.214063086	32.32174	167.33928193	1
## 1117	6	12.603992	193.788024237	32.32174	170.05182954	1
## 1118	22	55.916448	197.184959873	175.93855	171.91732259	1
## 1119	45	68.175140	205.677040873	175.93855	179.02909958	1
## 1120	55	77.847029	222.479205031	175.93855	193.10380522	1
## 1121	106	115.258243	234.559714646	175.93855	206.04130059	1
## 1122	123	130.345396	247.896102131	175.93855	218.49582601	1
## 1123	119	139.709151	249.454946303	175.93855	222.36788996	1
## 1124	155	150.343702	263.371863900	175.93855	233.29946186	1
## 1125	196	181.211121	279.672350303	175.93855	247.56709652	1
## 1126	171	162.376550	280.608548259	175.93855	247.42590390	1
## 1127	120	158.767561	286.336351159	175.93855	255.60073272	1
## 1128	127	159.883452	280.840990044	175.93855	252.02689806	1

## 1129	88	149.635532	254.758008186	175.93855	233.09995487	1
## 1130	59	110.783088	246.047709276	175.93855	227.80947548	1
## 1131	47	70.288429	252.659582707	175.93855	231.39161327	1
## 1132	33	58.041764	265.068100074	175.93855	242.90326704	1
## 1133	44	55.410473	261.280960006	175.93855	241.62551157	1
## 1134	29	46.913710	251.116645891	175.93855	233.94119364	1
## 1135	17	32.869645	68.645536647	32.32174	52.31815437	1
## 1136	16	23.820080	57.274679241	32.32174	42.14482822	1
## 1137	17	21.812922	66.268437996	32.32174	49.06367619	1
## 1138	18	13.822533	61.276438118	32.32174	45.29626509	1
## 1139	1	6.128890	68.763480125	32.32174	52.79454752	1
## 1140	2	6.026908	66.987527407	32.32174	58.16790516	1
## 1141	2	20.364884	59.031428612	175.93855	52.58738482	1
## 1142	24	45.940936	69.856060357	175.93855	66.00785016	1
## 1143	55	74.455626	95.047160029	175.93855	85.71545995	1
## 1144	104	140.395168	124.304553867	175.93855	121.60300284	1
## 1145	161	168.389446	160.667799492	175.93855	156.03190171	1
## 1146	182	201.069312	168.829134214	175.93855	158.63889806	1
## 1147	198	244.261056	195.095223277	175.93855	185.13881358	1
## 1148	212	224.535806	215.615686467	175.93855	200.73658752	1
## 1149	168	216.508157	221.846850604	175.93855	208.71783991	1
## 1150	147	215.743735	224.914095007	175.93855	212.00982198	1
## 1151	146	179.875424	218.968074198	175.93855	205.65629074	1
## 1152	101	115.803948	217.642726854	175.93855	212.31649059	1
## 1153	42	86.409437	225.129768861	175.93855	219.81477302	1
## 1154	42	74.657062	217.096501193	175.93855	215.56362978	1
## 1155	56	66.996171	194.425310899	175.93855	194.97101724	1
## 1156	47	61.215842	196.842074791	175.93855	192.60714166	1
## 1157	54	58.231312	188.635137118	175.93855	187.12308584	1
## 1158	37	34.608856	49.264228148	32.32174	44.36190789	1
## 1159	13	21.775804	56.751270155	32.32174	51.86019032	1
## 1160	4	12.849429	64.238312162	32.32174	59.35847275	1
## 1161	5	8.540054	71.221992932	32.32174	67.05033161	1
## 1162	1	5.617440	65.648407899	32.32174	58.87460440	1
## 1163	3	13.906514	94.430274795	32.32174	96.59832480	1
## 1164	8	15.445652	152.438881699	32.32174	143.02055374	1
## 1165	19	66.435011	159.675084829	175.93855	150.61530068	1
## 1166	63	72.297164	69.659375458	175.93855	68.03824808	1
## 1167	57	77.068257	76.895578587	175.93855	75.63299502	1
## 1168	81	94.094952	83.879259357	175.93855	83.32485388	1
## 1169	90	112.673203	88.854545623	175.93855	91.78907623	1
## 1170	93	131.550240	77.959215160	175.93855	79.77957257	1
## 1171	103	90.349549	47.031698295	175.93855	55.18202802	1
## 1172	116	121.661210	71.839350146	175.93855	73.35813018	1
## 1173	87	113.520913	90.004078825	175.93855	87.26244244	1
## 1174	56	75.731500	78.409588399	175.93855	84.76009894	1
## 1175	80	92.230561	87.074284358	175.93855	87.17351886	1
## 1176	66	72.608459	55.840488546	175.93855	59.71508959	1
## 1177	49	65.259117	63.327530553	175.93855	67.21337202	1
## 1178	29	42.671233	82.897994903	175.93855	92.41477063	1
## 1179	34	33.903185	98.800123237	175.93855	107.18920571	1
## 1180	11	20.664819	99.934458528	175.93855	109.92482159	1
## 1181	2	17.013200	107.421500535	175.93855	117.42310402	1
## 1182	7	26.870796	-27.591962247	32.32174	-34.57431894	1

## 1183	40	91.041859	-20.104920240	175.93855	-27.07603651	1
## 1184	114	153.940962	-13.121239471	175.93855	-19.38417765	1
## 1185	106	124.709333	13.474540827	175.93855	5.68924885	1
## 1186	44	63.957036	35.268759181	175.93855	25.02421995	1
## 1187	50	65.825607	53.805295199	175.93855	43.03825328	1
## 1188	55	78.031786	85.799761281	175.93855	70.28822620	1
## 1189	55	75.882071	108.980782967	175.93855	90.76884689	1
## 1190	58	74.115787	116.969502729	175.93855	98.07420031	1
## 1191	69	89.349133	145.775181829	175.93855	125.25077699	1
## 1192	86	89.201435	140.281504196	175.93855	121.67629491	1
## 1193	196	158.497107	148.773585196	175.93855	128.78807189	1
## 1194	167	148.253304	163.591822181	175.93855	145.27903692	1
## 1195	118	117.074681	167.742957933	175.93855	146.85448904	1
## 1196	105	101.139390	174.224960947	175.93855	154.73927692	1
## 1197	82	77.049277	182.213680709	175.93855	162.04463034	1
## 1198	77	56.768541	186.841626968	175.93855	168.04302752	1
## 1199	21	37.492694	194.328668975	175.93855	175.54130995	1
## 1200	6	11.028477	-0.196973272	32.32174	-16.21097478	1
## 1201	4	5.419409	15.627986188	32.32174	-0.10716261	1
## 1202	1	3.297128	7.922726271	32.32174	-5.78414746	1
## 1203	2	2.899380	15.913129516	32.32174	1.52055855	1
## 1204	8	8.358129	29.882174537	32.32174	16.90362886	1
## 1205	36	40.705580	37.369216544	32.32174	24.40191129	1
## 1206	96	139.659424	36.518341098	175.93855	23.29466398	1
## 1207	235	237.034517	50.358089821	175.93855	35.55561297	1
## 1208	139	162.383305	74.917641320	175.93855	59.75880187	1
## 1209	51	69.162341	111.054515398	175.93855	95.92806115	1
## 1210	69	89.151505	129.789588667	175.93855	110.55913299	1
## 1211	67	89.884078	156.134530087	175.93855	135.72902400	1
## 1212	87	105.384710	190.789554665	175.93855	167.86184366	1
## 1213	78	114.350224	202.166882226	175.93855	178.11675439	1
## 1214	72	114.129436	224.092026042	175.93855	199.08034504	1
## 1215	94	152.415691	230.070667819	175.93855	207.15870935	1
## 1216	222	275.570037	239.066110056	175.93855	214.07690990	1
## 1217	209	219.561110	238.493907783	175.93855	214.51579917	1
## 1218	141	161.272334	223.153912467	175.93855	202.91586923	1
## 1219	109	102.139809	156.189928484	175.93855	137.69731600	1
## 1220	91	79.313976	187.431478015	175.93855	171.49645243	1
## 1221	61	60.424565	194.918520022	175.93855	178.99473486	1
## 1222	39	41.901049	182.595325167	175.93855	166.23464117	1
## 1223	11	12.847380	10.393359005	32.32174	-6.22585476	1
## 1224	7	7.308877	6.830907002	32.32174	-9.24332323	1
## 1225	4	4.252203	-0.370991678	32.32174	-15.11388451	1
## 1226	2	3.223210	7.868566962	32.32174	-7.90499561	1
## 1227	4	10.344636	11.793156966	32.32174	-3.42418164	1
## 1228	58	57.727775	20.285237965	32.32174	3.68759534	1
## 1229	104	163.763434	21.142583566	175.93855	4.87642723	1
## 1230	252	348.137530	45.251475371	175.93855	26.29991956	1
## 1231	137	157.939394	41.265569531	175.93855	28.07727266	1
## 1232	57	92.953565	65.400612149	175.93855	51.14401349	1
## 1233	79	104.870956	120.923614126	175.93855	100.17543084	1
## 1234	95	113.848657	148.445581060	175.93855	126.19237639	1
## 1235	88	106.461028	158.567030750	175.93855	136.93025708	1
## 1236	69	101.779861	180.743013444	175.93855	157.79738322	1

## 1237	63	85.979721	179.219528766	175.93855	161.58077458	1
## 1238	71	109.758904	161.418795770	175.93855	147.97415897	1
## 1239	177	171.234312	152.708496860	175.93855	142.68367957	1
## 1240	137	144.930128	111.880250598	175.93855	94.91165088	1
## 1241	115	103.239315	103.925206848	175.93855	95.26240019	1
## 1242	89	102.427796	114.096619555	175.93855	97.09638564	1
## 1243	83	89.420985	134.341376619	175.93855	117.40649818	1
## 1244	55	59.708633	139.394886804	175.93855	130.47261307	1
## 1245	50	53.314437	128.447483235	175.93855	115.50446536	1
## 1246	9	12.389845	-49.203131728	32.32174	-50.22868176	1
## 1247	10	12.838126	-55.506049628	32.32174	-62.73024212	1
## 1248	3	9.162316	-48.019007621	32.32174	-55.23195969	1
## 1249	2	3.896929	-23.303434891	32.32174	-33.68817238	1
## 1250	6	9.224572	-8.329350877	32.32174	-18.69160751	1
## 1251	11	35.561041	3.076866023	32.32174	-0.86282606	1
## 1252	35	87.064615	-4.152866952	175.93855	-8.37598842	1
## 1253	73	156.997054	24.652812148	175.93855	18.80058826	1
## 1254	114	106.249704	30.059825770	175.93855	19.89307042	1
## 1255	49	59.193523	58.232673133	175.93855	45.30610363	1
## 1256	59	115.706426	137.903463566	316.20792	102.01056012	1
## 1257	115	106.642186	185.700306150	316.20792	160.67775714	1
## 1258	83	105.483507	193.187348157	316.20792	168.17603957	1
## 1259	85	114.128889	217.875086591	316.20792	188.07722580	1
## 1260	55	122.293599	235.890185991	175.93855	190.52933469	1
## 1261	102	136.153369	178.973224155	175.93855	148.73128296	1
## 1262	189	180.024596	191.234622248	175.93855	154.39350266	1
## 1263	157	164.643834	194.448985924	175.93855	163.53491880	1
## 1264	90	116.576645	188.704469414	175.93855	160.05690123	1
## 1265	62	100.029872	205.583802445	175.93855	172.80222978	1
## 1266	63	84.508902	205.663764166	175.93855	178.89632928	1
## 1267	50	65.265501	208.306499687	175.93855	181.05186328	1
## 1268	39	52.105760	213.783463709	175.93855	189.32315661	1
## 1269	28	34.509585	20.955233203	32.32174	13.25149203	1
## 1270	27	33.378557	30.201514318	32.32174	20.07322807	1
## 1271	12	19.591635	15.165059422	32.32174	5.40356063	1
## 1272	8	11.823014	29.932278347	32.32174	24.86715124	1
## 1273	2	5.828347	23.937978003	32.32174	27.41686783	1
## 1274	10	7.321124	22.836263680	32.32174	26.40608503	1
## 1275	7	8.679490	39.082993495	32.32174	37.71572304	1
## 1276	22	24.615922	48.078435732	175.93855	44.63392360	1
## 1277	57	63.362909	58.227091280	175.93855	62.94632242	1
## 1278	74	95.491171	83.167352074	175.93855	82.75039672	1
## 1279	85	130.026503	117.319015414	175.93855	115.07679282	1
## 1280	126	163.668035	133.064067474	175.93855	126.57935985	1
## 1281	160	184.134162	147.485401352	175.93855	143.24862496	1
## 1282	174	189.941123	168.958201992	175.93855	161.43316645	1
## 1283	211	183.282157	190.962198164	175.93855	181.06673260	1
## 1284	165	179.283825	194.704790326	175.93855	185.39869823	1
## 1285	171	203.937527	190.611771227	175.93855	175.00028806	1
## 1286	183	220.138163	203.723470648	175.93855	189.19452648	1
## 1287	137	150.404425	198.228109533	175.93855	185.62069181	1
## 1288	94	110.905934	194.241148648	175.93855	181.46677527	1
## 1289	68	77.061736	178.902836815	175.93855	169.86619792	1
## 1290	68	62.817550	162.158160873	175.93855	152.90045127	1

## 1291	46	52.711041	147.044537104	175.93855	139.56016092	1
## 1292	34	44.992694	155.536618104	175.93855	146.67193790	1
## 1293	34	38.586848	-49.033479161	32.32174	-55.98260318	1
## 1294	37	34.526316	-43.054837385	32.32174	-47.90423887	1
## 1295	22	28.308392	-36.572834370	32.32174	-40.01945099	1
## 1296	11	13.811637	-29.838308996	32.32174	-32.23177503	1
## 1297	2	6.855077	-27.448095834	32.32174	-29.97912911	1
## 1298	3	9.073214	-14.734928683	32.32174	-14.11308884	1
## 1299	14	26.352841	-4.986969813	175.93855	-7.48428182	1
## 1300	35	65.061499	6.088500809	175.93855	5.83971901	1
## 1301	59	83.517372	20.933288525	175.93855	17.71416255	1
## 1302	103	124.982151	48.784946692	175.93855	42.30461909	1
## 1303	125	160.543655	115.304741136	175.93855	104.82506034	1
## 1304	193	198.047961	151.417147883	175.93855	139.35042371	1
## 1305	259	260.759732	178.714426753	175.93855	167.10708227	1
## 1306	282	277.215893	193.559214468	175.93855	178.98152581	1
## 1307	261	285.544327	214.277814993	175.93855	197.45610824	1
## 1308	268	291.431086	228.117563716	175.93855	209.71705723	1
## 1309	187	194.730267	196.459259022	175.93855	181.12217988	1
## 1310	127	143.963813	198.096955551	175.93855	183.66421933	1
## 1311	102	123.938516	204.578958565	175.93855	191.54900721	1
## 1312	81	100.371806	211.313483940	175.93855	199.33668317	1
## 1313	69	82.193672	196.527867922	175.93855	184.57055121	1
## 1314	69	71.519550	201.330539229	175.93855	197.73313062	1
## 1315	59	62.285645	203.973274751	175.93855	199.88866461	1
## 1316	30	27.984664	25.601397700	32.32174	10.51452117	1
## 1317	8	8.816585	-16.577117474	32.32174	-27.47428795	1
## 1318	1	3.093681	-23.977727606	32.32174	-28.79688630	1
## 1319	5	10.489739	-4.239244507	32.32174	-13.05881814	1
## 1320	28	44.179131	-1.622659798	32.32174	-12.54653264	1
## 1321	92	169.713830	18.343424093	175.93855	6.21744332	1
## 1322	255	255.776435	23.247076478	175.93855	7.50350191	1
## 1323	142	177.086518	79.868880050	175.93855	52.78008126	1
## 1324	92	118.848253	140.539100495	316.20792	110.01642658	1
## 1325	87	94.254951	174.138068019	316.20792	145.50837729	1
## 1326	36	95.880885	181.625110026	316.20792	153.00665972	1
## 1327	32	70.968556	90.633251003	175.93855	78.38998329	1
## 1328	25	45.712499	74.418087111	175.93855	62.87390871	1
## 1329	35	47.111235	81.905129118	175.93855	70.37219114	1
## 1330	42	82.660646	86.627893025	175.93855	78.93352541	1
## 1331	79	100.608848	91.029867654	175.93855	80.41251302	1
## 1332	131	140.707163	127.565099800	175.93855	116.07497188	1
## 1333	80	87.739837	149.497462091	175.93855	128.53037427	1
## 1334	45	73.076788	156.984504098	175.93855	136.02865670	1
## 1335	80	91.474028	147.045106568	175.93855	126.93247870	1
## 1336	76	61.832427	128.396410855	175.93855	116.98423659	1
## 1337	45	56.948265	157.730546960	175.93855	139.67921569	1
## 1338	7	13.993449	7.092177172	32.32174	-19.83628109	1
## 1339	3	5.733768	1.121289115	32.32174	-21.57393824	1
## 1340	4	6.038038	14.311840892	32.32174	-8.70972432	1
## 1341	2	3.416638	5.350703104	32.32174	-13.90373921	1
## 1342	1	2.814586	12.334383874	32.32174	-6.21188035	1
## 1343	2	8.043996	25.524935651	32.32174	6.65233357	1
## 1344	46	48.571015	44.312310546	32.32174	24.56990239	1

## 1345	107	144.562285	52.302713790	175.93855	31.87460839	1
## 1346	214	239.030938	60.794794790	175.93855	38.98638538	1
## 1347	124	149.465458	83.472455239	175.93855	59.66058250	1
## 1348	68	85.038189	101.177622267	175.93855	79.29403386	1
## 1349	56	92.624823	135.329285608	175.93855	111.62042996	1
## 1350	86	122.635368	159.914987920	175.93855	137.46686736	1
## 1351	78	111.542891	170.990458542	175.93855	150.79086818	1
## 1352	79	108.165337	187.368113819	175.93855	163.72912575	1
## 1353	64	112.660849	202.863382045	175.93855	181.25942693	1
## 1354	102	137.239055	211.858824282	175.93855	188.17762749	1
## 1355	242	244.463946	219.345866289	175.93855	195.67590992	1
## 1356	224	214.198006	211.691624433	175.93855	187.02629949	1
## 1357	119	144.371091	190.225293949	175.93855	168.92334258	1
## 1358	88	105.504676	170.441033698	175.93855	151.47321637	1
## 1359	63	80.480610	175.770478529	175.93855	160.15484561	1
## 1360	47	55.960362	165.908021353	175.93855	149.40143759	1
## 1361	25	41.136022	168.775444939	175.93855	149.81725858	1
## 1362	8	11.741853	-19.120500902	32.32174	-35.62557561	1
## 1363	4	5.326836	-11.131781140	32.32174	-28.32022220	1
## 1364	2	3.583243	-3.644739133	32.32174	-20.82193976	1
## 1365	4	3.416638	5.350703104	32.32174	-13.90373921	1
## 1366	1	2.994858	-8.784432402	32.32174	-23.01401352	1
## 1367	5	8.615179	19.319748126	32.32174	1.47933110	1
## 1368	40	46.030916	58.247051117	32.32174	38.22878704	1
## 1369	110	159.754847	45.845003905	175.93855	26.79871785	1
## 1370	256	278.214191	57.474853826	175.93855	36.95651666	1
## 1371	148	172.954094	96.800514886	175.93855	73.19917217	1
## 1372	76	113.465028	131.204700586	175.93855	105.42845635	1
## 1373	73	111.690993	136.455692978	175.93855	109.18034011	1
## 1374	82	155.147274	181.327159096	175.93855	153.44897612	1
## 1375	125	192.348574	254.573151075	316.20792	224.84115758	1
## 1376	96	156.840025	277.354531128	316.20792	239.56945612	1
## 1377	110	159.501926	301.540591807	316.20792	259.66357136	1
## 1378	139	219.200842	307.520917066	316.20792	267.74128826	1
## 1379	268	343.902880	293.715472794	316.20792	257.20452494	1
## 1380	201	326.252329	293.020618577	175.93855	253.43787603	1
## 1381	150	197.729477	272.413491377	175.93855	235.35810217	1
## 1382	95	133.920064	264.232704518	175.93855	231.51729484	1
## 1383	71	101.763080	266.624601162	175.93855	233.76929335	1
## 1384	48	60.822829	270.549365366	175.93855	237.08510588	1
## 1385	22	45.190538	256.996443454	175.93855	226.45123064	1
## 1386	13	12.918787	77.940092821	32.32174	49.42099717	1
## 1387	1	5.707879	85.427134828	32.32174	56.91927960	1
## 1388	3	4.234994	87.845182284	32.32174	60.81452660	1
## 1389	1	3.388475	95.332224291	32.32174	68.31280904	1
## 1390	1	3.459371	82.782657889	32.32174	57.29307576	1
## 1391	8	9.416354	76.734600958	32.32174	56.88479569	1
## 1392	35	40.583696	84.221642965	32.32174	64.38307813	1
## 1393	111	127.981174	67.980328261	175.93855	47.22375505	1
## 1394	220	209.981644	85.936334167	175.93855	66.76074191	1
## 1395	145	152.009308	103.441680379	175.93855	83.51803220	1
## 1396	56	75.581717	132.948858050	175.93855	113.37784094	1
## 1397	50	73.444717	144.527689910	175.93855	126.50826533	1
## 1398	72	83.233271	167.456189236	175.93855	147.08599794	1

## 1399	80	83.698539	174.190714611	175.93855	154.87367390	1
## 1400	78	87.628015	196.617536182	175.93855	175.64433553	1
## 1401	68	84.721538	197.925541477	175.93855	179.61286399	1
## 1402	71	100.470121	211.261928962	175.93855	192.06738941	1
## 1403	202	171.978447	220.958869771	175.93855	201.66882202	1
## 1404	167	172.664583	199.396438074	175.93855	174.74380545	1
## 1405	106	120.408408	182.877733762	175.93855	162.29746837	1
## 1406	70	89.843997	187.602181151	175.93855	170.85815523	1
## 1407	51	63.251098	189.490716557	175.93855	173.30373017	1
## 1408	53	56.990218	201.067864934	175.93855	186.43480197	1
## 1409	23	35.497192	195.904933580	175.93855	187.36510052	1
## 1410	12	14.027388	4.791082897	32.32174	-6.05285356	1
## 1411	4	5.024940	-13.460309793	32.32174	-22.43916574	1
## 1412	2	3.072359	-5.973267786	32.32174	-14.94088331	1
## 1413	1	2.951620	-19.580174807	32.32174	-28.86060813	1
## 1414	1	2.846829	-13.098171793	32.32174	-20.97582025	1
## 1415	7	8.592679	-12.465514257	32.32174	-18.04727535	1
## 1416	29	39.715488	-5.730988882	32.32174	-10.25959940	1
## 1417	83	151.315536	-9.071491348	175.93855	-20.94740310	1
## 1418	228	249.639876	17.524288950	175.93855	4.12602340	1
## 1419	150	180.951250	67.648605142	175.93855	50.98089433	1
## 1420	66	81.368592	82.995070613	175.93855	62.66240885	1
## 1421	89	100.522440	119.358316238	175.93855	97.09130772	1
## 1422	97	120.996047	157.428099428	175.93855	133.81693319	1
## 1423	87	117.339442	173.979424708	175.93855	147.98810334	1
## 1424	95	119.587736	192.740648790	175.93855	164.26242367	1
## 1425	106	129.054549	200.478529674	175.93855	171.66424160	1
## 1426	118	154.041026	192.946939761	175.93855	167.22016933	1
## 1427	228	206.378297	190.920093845	175.93855	171.19713712	1
## 1428	187	189.936569	186.682294083	175.93855	167.13968508	1
## 1429	107	136.326970	171.565931787	175.93855	147.86877250	1
## 1430	87	97.256226	150.630168398	175.93855	137.14675730	1
## 1431	70	73.333617	158.620571642	175.93855	144.45146330	1
## 1432	44	65.233096	167.283584119	175.93855	146.86553064	1
## 1433	46	51.145767	161.540122653	175.93855	149.31878271	1
## 1434	19	29.879948	-34.450344104	32.32174	-31.44279960	1
## 1435	25	28.465948	-21.113956619	32.32174	-18.98827418	1
## 1436	20	21.485933	-25.379590677	32.32174	-24.68832730	1
## 1437	2	9.123784	-17.892548670	32.32174	-17.19004487	1
## 1438	1	4.737835	-24.166577230	32.32174	-22.11773450	1
## 1439	3	7.174494	-32.652188075	32.32174	-29.14792690	1
## 1440	4	9.409662	-23.656745838	32.32174	-22.22972635	1
## 1441	15	31.410177	-14.913825961	175.93855	-15.21441388	1
## 1442	45	48.467791	-7.426783953	175.93855	-7.71613144	1
## 1443	63	77.231024	20.123017276	175.93855	19.94341519	1
## 1444	103	98.988881	32.956043524	175.93855	32.59151704	1
## 1445	159	164.305738	96.062762838	175.93855	90.51850507	1
## 1446	167	217.292733	135.639262776	175.93855	126.66469608	1
## 1447	190	206.671608	149.479011498	175.93855	138.92564507	1
## 1448	198	249.253878	180.494589400	175.93855	168.20537193	1
## 1449	205	212.630308	173.543529598	175.93855	162.23834614	1
## 1450	204	215.835927	195.719512292	175.93855	183.10547228	1
## 1451	164	189.814465	204.211593292	175.93855	190.21724926	1
## 1452	152	183.646897	211.196957544	175.93855	197.90846071	1

## 1453	89	138.625794	195.155463656	175.93855	183.62529872	1
## 1454	70	94.067478	174.694172164	175.93855	165.13583636	1
## 1455	72	86.517033	193.230708181	175.93855	183.14986969	1
## 1456	63	70.849728	183.315549462	175.93855	175.36973467	1
## 1457	44	60.532983	196.651936947	175.93855	187.82426008	1
## 1458	52	47.687529	19.605664300	32.32174	10.02101572	1
## 1459	39	43.252417	25.836828437	32.32174	18.00226811	1
## 1460	32	33.050101	16.425030955	32.32174	10.02855665	1
## 1461	11	15.295972	30.012257318	32.32174	22.38661756	1
## 1462	3	8.238279	25.244945505	32.32174	16.87949346	1
## 1463	2	15.079591	26.959636707	32.32174	19.25715724	1
## 1464	5	30.982140	21.016354424	175.93855	18.83424824	1
## 1465	9	54.555751	21.819943438	175.93855	17.06508349	1
## 1466	22	65.361302	34.905492045	175.93855	29.61607341	1
## 1467	31	64.118549	42.643372930	175.93855	37.01789134	1
## 1468	62	104.179062	48.874537067	175.93855	44.99914372	1
## 1469	79	117.079534	83.078901950	175.93855	74.35226682	1
## 1470	105	126.910549	91.067621713	175.93855	81.65762024	1
## 1471	39	41.770401	75.505676859	175.93855	77.72802553	1
## 1472	7	39.863594	82.992718866	175.93855	85.22630796	1
## 1473	11	34.133112	68.087417953	175.93855	72.51311300	1
## 1474	25	36.655393	69.975953359	175.93855	74.95868794	1
## 1475	23	32.154833	72.618688881	175.93855	77.11422194	1
## 1476	11	30.962000	76.517302272	175.93855	78.78678598	1
## 1477	11	28.605371	76.899120931	175.93855	81.81179538	1
## 1478	7	26.715789	91.422719452	175.93855	92.86366225	1
## 1479	10	21.627087	75.502822463	175.93855	76.85476878	1
## 1480	9	19.692442	83.491542225	175.93855	84.16012219	1
## 1481	4	6.476222	-94.071094559	32.32174	-96.28694297	1
## 1482	2	4.332005	-86.584052552	32.32174	-88.78866054	1
## 1483	1	3.566177	-19.782334233	32.32174	-43.92716142	1
## 1484	1	2.696019	-13.300331219	32.32174	-36.04237354	1
## 1485	1	6.402507	2.471926698	32.32174	-16.96528837	1
## 1486	34	43.720484	10.462329943	32.32174	-9.66058237	1
## 1487	91	136.263764	18.451049705	175.93855	-2.35522896	1
## 1488	211	232.053093	25.436413957	175.93855	5.33598249	1
## 1489	134	150.182111	64.337566135	175.93855	40.44218994	1
## 1490	58	82.148022	83.749270728	175.93855	62.37236791	1
## 1491	60	94.766373	126.117883061	175.93855	99.09810817	1
## 1492	96	114.791180	158.059647600	175.93855	129.32135408	1
## 1493	70	103.833591	184.153750142	175.93855	154.58770960	1
## 1494	77	107.690529	192.142469905	175.93855	161.89306302	1
## 1495	96	128.252425	216.026673645	175.93855	185.05626835	1
## 1496	122	153.566014	223.010354415	175.93855	192.74812722	1
## 1497	233	246.127630	234.917194026	175.93855	204.45271001	1
## 1498	233	218.004205	229.874176087	175.93855	203.65792450	1
## 1499	145	155.969515	227.092075012	175.93855	201.99366358	1
## 1500	92	117.466929	233.574078026	175.93855	209.87845147	1
## 1501	54	81.053239	225.167319538	175.93855	201.51823456	1
## 1502	35	60.114556	203.700989053	175.93855	183.41527765	1
## 1503	22	43.033626	214.273098438	175.93855	196.93285490	1
## 1504	10	14.098563	37.730187028	32.32174	18.93603411	1
## 1505	4	5.823561	31.280804981	32.32174	12.77607931	1
## 1506	1	3.894765	38.767846988	32.32174	20.27436174	1

## 1507	7	5.914208	45.502372362	32.32174	28.06203770	1
## 1508	2	4.359650	19.112883036	32.32174	5.94635686	1
## 1509	10	10.221430	11.460324662	32.32174	-2.70390099	1
## 1510	45	53.705609	39.287115582	32.32174	26.50242964	1
## 1511	128	166.321196	32.136234964	175.93855	17.65924277	1
## 1512	257	266.100131	72.216096139	175.93855	53.61185735	1
## 1513	151	170.219979	121.838734576	175.93855	100.65965730	1
## 1514	71	103.058783	157.526004004	175.93855	139.98048966	1
## 1515	78	106.730651	199.738595107	175.93855	179.36563151	1
## 1516	99	111.936918	208.881156618	175.93855	192.13326614	1
## 1517	98	110.050531	219.556985607	175.93855	199.70494480	1
## 1518	72	95.804688	236.334282516	175.93855	218.39552453	1
## 1519	112	108.454106	242.391776649	175.93855	225.14386433	1
## 1520	108	149.246322	240.282684724	175.93855	212.32919476	1
## 1521	248	274.556694	242.925420245	175.93855	214.48472876	1
## 1522	235	255.974875	244.059755536	175.93855	217.22034464	1
## 1523	150	188.340935	241.200485587	175.93855	216.88546081	1
## 1524	76	116.973583	224.908152822	175.93855	202.69876333	1
## 1525	75	93.835686	206.204416955	175.93855	183.53340199	1
## 1526	55	64.393165	214.194820200	175.93855	190.83810799	1
## 1527	41	52.271653	188.810369866	175.93855	168.33592170	1
## 1528	9	12.476979	0.161907392	32.32174	-16.81751896	1
## 1529	4	6.064492	37.130150459	32.32174	17.73232229	1
## 1530	2	4.460939	44.617192466	32.32174	25.23060472	1
## 1531	3	4.641904	5.724193925	32.32174	-9.79466555	1
## 1532	2	3.276403	2.412580799	32.32174	-12.90859853	1
## 1533	8	9.759424	-4.537423958	32.32174	-12.94435467	1
## 1534	49	49.591883	-6.391654915	32.32174	-13.66574395	1
## 1535	141	158.535552	-2.319371519	175.93855	-10.76026732	1
## 1536	249	231.569559	4.664309250	175.93855	-3.06840846	1
## 1537	141	152.158251	20.010774721	175.93855	8.61310606	1
## 1538	57	83.341169	65.715293309	175.93855	51.26167663	1
## 1539	59	79.227431	79.104382338	175.93855	60.74292905	1
## 1540	98	97.801269	84.328824000	175.93855	69.11133430	1
## 1541	99	94.817910	93.575105115	175.93855	75.93307034	1
## 1542	71	94.240075	105.906453607	175.93855	88.77410121	1
## 1543	79	95.563581	130.292335103	175.93855	111.74437753	1
## 1544	112	115.328006	121.383898859	175.93855	103.57708964	1
## 1545	194	168.287668	128.367579628	175.93855	111.26894850	1
## 1546	188	172.547089	135.100421520	175.93855	119.05727187	1
## 1547	134	148.590630	143.845024880	175.93855	126.07193694	1
## 1548	91	105.232176	118.911234241	175.93855	106.34944722	1
## 1549	62	68.805424	115.401483780	175.93855	100.35870575	1
## 1550	21	33.259201	118.444915980	175.93855	114.19783154	1
## 1551	18	30.573092	132.282981220	175.93855	126.45942794	1
## 1552	3	8.994339	166.606642644	32.32174	149.20539334	1
## 1553	2	5.387398	174.093684651	32.32174	156.70367577	1
## 1554	1	5.070945	181.580726658	32.32174	164.20195820	1
## 1555	3	11.815720	208.886159165	32.32174	192.03955393	1
## 1556	12	31.741252	218.635801517	32.32174	198.66771355	1
## 1557	37	58.382924	230.212949894	175.93855	211.79878535	1
## 1558	44	68.748908	238.705030894	175.93855	218.91056234	1
## 1559	24	35.803116	251.036379387	175.93855	231.75159320	1
## 1560	17	35.747828	257.518382401	175.93855	239.63638108	1

## 1561	11	27.840488	266.512141156	175.93855	246.55522905	1
## 1562	34	28.021485	279.346850886	175.93855	259.20268348	1
## 1563	12	26.755893	286.833892893	175.93855	266.70096592	1
## 1564	12	29.216947	301.426158249	175.93855	278.67252138	1
## 1565	14	29.715298	307.657322385	175.93855	286.65377376	1
## 1566	21	39.898521	309.796696669	175.93855	289.00288419	1
## 1567	111	166.089995	327.075016207	175.93855	295.30949527	1
## 1568	82	90.174156	332.379365270	175.93855	308.27914565	1
## 1569	56	84.946107	343.635724370	175.93855	314.32787080	1
## 1570	38	57.747746	323.454389616	175.93855	303.64366759	1
## 1571	28	46.178987	329.182192515	175.93855	311.81849641	1
## 1572	34	59.651986	330.990820521	175.93855	309.66282621	1
## 1573	27	43.045199	336.046014188	175.93855	322.72829369	1
## 1574	6	13.446764	-55.466500475	32.32174	-65.32501180	1
## 1575	8	7.912897	-49.407951297	32.32174	-52.64540236	1
## 1576	5	6.989907	-41.920909290	32.32174	-45.14711992	1
## 1577	2	3.645288	-23.385428317	32.32174	-33.06435623	1
## 1578	7	11.276479	16.198344414	32.32174	-3.93349912	1
## 1579	32	42.369099	12.991734457	32.32174	-6.73420811	1
## 1580	114	175.234821	43.279263057	175.93855	24.47880819	1
## 1581	259	304.046301	57.620689535	175.93855	36.54682816	1
## 1582	156	168.974775	89.670195769	175.93855	73.01392029	1
## 1583	78	95.813774	112.097017340	175.93855	93.78458192	1
## 1584	81	94.883132	119.584059347	175.93855	101.28286435	1
## 1585	111	107.362971	141.005841926	175.93855	122.44003143	1
## 1586	107	121.237744	156.021561118	175.93855	129.61676533	1
## 1587	89	105.701291	170.218206932	175.93855	148.02574344	1
## 1588	85	105.762679	163.466967947	175.93855	144.93487873	1
## 1589	113	129.172624	180.547805277	175.93855	160.55572094	1
## 1590	223	209.611082	188.458301121	175.93855	163.25918181	1
## 1591	153	174.471889	191.855236758	175.93855	165.12467486	1
## 1592	118	132.391039	178.023641672	175.93855	152.94466305	1
## 1593	76	102.005857	182.746405579	175.93855	161.50599732	1
## 1594	53	70.859914	198.900427835	175.93855	182.11523753	1
## 1595	64	68.338608	206.560084801	175.93855	184.91516290	1
## 1596	37	50.314600	215.553843556	175.93855	191.83401087	1
## 1597	34	38.805277	8.289194723	32.32174	2.29639066	1
## 1598	18	23.698269	-0.117563765	32.32174	-6.06382625	1
## 1599	14	19.763753	7.369478242	32.32174	1.43445618	1
## 1600	7	12.258763	15.861559241	32.32174	8.54623317	1
## 1601	1	5.413686	23.348601248	32.32174	16.04451560	1
## 1602	2	4.889049	15.141663576	32.32174	10.56045977	1
## 1603	4	9.019425	10.374351764	32.32174	5.05333567	1
## 1604	23	24.628860	33.755194267	175.93855	28.41011744	1
## 1605	53	58.954842	57.639398007	175.93855	51.57332278	1
## 1606	101	92.576316	69.970746500	175.93855	64.41435365	1
## 1607	99	129.481634	88.956658646	175.93855	78.94896097	1
## 1608	119	158.540994	141.620564875	175.93855	126.48049307	1
## 1609	158	173.917958	139.513811558	175.93855	125.85621572	1
## 1610	157	177.695425	158.525874518	175.93855	142.03407154	1
## 1611	166	173.824182	181.429906514	175.93855	160.96790824	1
## 1612	182	205.611950	208.778203444	175.93855	185.75194122	1
## 1613	244	251.613416	233.841116181	175.93855	209.76155369	1
## 1614	213	241.708622	232.688383797	175.93855	211.72339648	1

## 1615	145	166.729190	203.613468726	175.93855	189.34074297	1
## 1616	112	148.918227	209.844632863	175.93855	197.32199536	1
## 1617	86	103.224680	202.893573061	175.93855	191.35496957	1
## 1618	82	87.436270	193.932435274	175.93855	186.16095469	1
## 1619	63	77.222878	175.681042584	175.93855	169.77464251	1
## 1620	49	58.074046	201.575324310	175.93855	192.16483695	1
## 1621	38	47.344233	38.463792233	32.32174	28.02047723	1
## 1622	33	43.533055	31.763571309	32.32174	21.95698694	1
## 1623	23	23.537159	18.789321824	32.32174	10.96580701	1
## 1624	13	11.800200	48.878713090	32.32174	39.30201482	1
## 1625	3	10.695321	70.551334546	32.32174	60.36271739	1
## 1626	2	14.188105	61.088519003	32.32174	55.36163152	1
## 1627	10	57.241690	86.530457552	175.93855	74.97277680	1
## 1628	34	70.169036	133.994215249	175.93855	116.94480098	1
## 1629	44	88.606699	143.491335241	175.93855	123.67007252	1
## 1630	122	165.084372	160.693141032	175.93855	143.49710031	1
## 1631	181	193.413970	190.053199430	175.93855	167.50747498	1
## 1632	194	228.312975	209.517605567	175.93855	186.46437995	1
## 1633	221	239.234967	217.004647574	175.93855	193.96266238	1
## 1634	250	298.953764	216.353592944	175.93855	195.73157615	1
## 1635	304	319.042595	234.613139271	175.93855	212.19882550	1
## 1636	256	256.558177	232.836077189	175.93855	210.14805914	1
## 1637	241	245.736161	233.970412480	175.93855	212.88367501	1
## 1638	147	171.187684	225.338965926	175.93855	206.26317111	1
## 1639	101	117.523619	205.658025362	175.93855	189.12691631	1
## 1640	77	85.442257	184.972045806	175.93855	172.37716696	1
## 1641	58	66.377238	188.065441022	175.93855	177.31239752	1
## 1642	37	52.532976	196.810044381	175.93855	184.32706258	1
## 1643	28	39.901226	170.950067105	175.93855	163.66105381	1
## 1644	11	12.927370	0.412746270	32.32174	-16.91398347	1
## 1645	1	5.298350	7.648949399	32.32174	-9.31923653	1
## 1646	1	3.504791	15.135991407	32.32174	-1.82095409	1
## 1647	3	3.432419	23.375550046	32.32174	5.38793481	1
## 1648	8	10.692395	21.450794572	32.32174	4.91250579	1
## 1649	28	48.161806	45.836676067	32.32174	27.88278211	1
## 1650	88	180.203233	64.072410191	175.93855	54.89717518	1
## 1651	241	258.924028	90.719208549	175.93855	76.99797609	1
## 1652	140	168.395136	115.632263486	175.93855	89.22753226	1
## 1653	84	113.056646	152.019976442	175.93855	125.30032703	1
## 1654	71	109.391707	169.776161531	175.93855	141.96115281	1
## 1655	94	128.071559	185.471250574	175.93855	162.36761507	1
## 1656	75	120.143419	200.696747584	175.93855	169.84294401	1
## 1657	79	108.457244	205.395699287	175.93855	188.95142200	1
## 1658	101	120.871621	210.696654696	175.93855	183.79941053	1
## 1659	107	167.010648	227.447800793	175.93855	200.84674176	1
## 1660	271	277.671642	219.542720059	175.93855	192.29359583	1
## 1661	235	241.726812	219.673699840	175.93855	195.41506975	1
## 1662	150	193.737264	221.032723196	175.93855	196.41097262	1
## 1663	129	146.303821	217.549123549	175.93855	192.06347964	1
## 1664	63	107.797013	223.527765325	175.93855	200.14184395	1
## 1665	47	69.956190	218.034087693	175.93855	196.56736188	1
## 1666	19	50.683751	214.922295384	175.93855	196.32958997	1
## 1667	14	19.208890	42.720329222	32.32174	23.86909404	1
## 1668	10	9.456324	25.977336762	32.32174	6.90269999	1

## 1669	3	5.963868	33.464378769	32.32174	14.40098242	1
## 1670	2	3.361287	2.161741922	32.32174	-12.81213402	1
## 1671	11	10.088954	11.406339554	32.32174	-5.98975056	1
## 1672	35	43.992348	1.994542073	32.32174	-13.96346202	1
## 1673	119	155.432992	25.878745813	175.93855	9.19974332	1
## 1674	282	333.996144	49.008749438	175.93855	32.65298959	1
## 1675	157	197.161534	65.006750464	175.93855	55.92163140	1
## 1676	78	98.957304	90.448689014	175.93855	75.53277669	1
## 1677	78	96.185764	124.177526955	175.93855	106.72207730	1
## 1678	102	113.099867	152.983206055	175.93855	133.89865398	1
## 1679	97	102.452317	146.005995440	175.93855	126.28837970	1
## 1680	88	111.344919	183.902108626	175.93855	161.78109259	1
## 1681	90	121.229462	197.768008161	175.93855	175.68529007	1
## 1682	114	133.932310	199.379553877	175.93855	176.58408103	1
## 1683	217	211.949433	163.396269228	175.93855	146.34584040	1
## 1684	225	200.758296	172.642550343	175.93855	153.16757645	1
## 1685	152	152.644735	154.140318775	175.93855	136.87772878	1
## 1686	88	115.226693	161.627360782	175.93855	144.37601121	1
## 1687	55	70.686577	136.471620605	175.93855	132.32385672	1
## 1688	21	44.944332	133.383640499	175.93855	121.53894110	1
## 1689	18	35.405106	140.870682507	175.93855	129.03722353	1
## 1690	8	8.453956	-50.612636906	32.32174	-56.30005941	1
## 1691	3	5.368921	-57.840686398	32.32174	-63.81386918	1
## 1692	3	3.827291	-48.292494025	32.32174	-58.56836887	1
## 1693	1	3.096660	-20.491853918	32.32174	-31.00528674	1
## 1694	3	8.246342	-14.009850904	32.32174	-23.12049886	1
## 1695	31	44.654739	-6.522808897	32.32174	-15.62221643	1
## 1696	111	154.311851	2.470949858	175.93855	-8.70336847	1
## 1697	253	262.755933	12.541381488	175.93855	5.00713781	1
## 1698	154	174.448528	22.289340358	175.93855	11.63594483	1
## 1699	68	100.895890	68.497220184	175.93855	54.09093897	1
## 1700	75	102.213094	75.480900953	175.93855	61.78279783	1
## 1701	88	128.257356	116.263944182	175.93855	100.41799706	1
## 1702	99	127.614787	113.203169934	175.93855	97.20759957	1
## 1703	100	117.451510	122.198612171	175.93855	104.12580012	1
## 1704	101	114.875193	130.187331934	175.93855	111.43115354	1
## 1705	151	152.531010	136.167657193	175.93855	119.50887044	1
## 1706	253	233.324627	206.232080665	175.93855	182.31946740	1
## 1707	237	247.768528	212.463244802	175.93855	190.30071979	1
## 1708	168	192.861907	228.339222323	175.93855	203.43190638	1
## 1709	121	140.033330	222.843861208	175.93855	199.85807171	1
## 1710	78	105.259706	221.240469129	175.93855	199.04021793	1
## 1711	59	78.880972	215.797809557	175.93855	192.49311027	1
## 1712	27	56.266704	215.066847527	175.93855	189.66077890	1
## 1713	23	25.138684	35.810676078	32.32174	9.75438435	1
## 1714	12	12.373715	25.897200841	32.32174	1.97360192	1
## 1715	8	6.853548	28.790775240	32.32174	4.03267140	1
## 1716	2	4.476122	45.066394395	32.32174	22.91618014	1
## 1717	3	3.844878	42.005620146	32.32174	19.70578266	1
## 1718	13	15.392878	31.087105917	32.32174	12.31150566	1
## 1719	51	61.821154	40.080864672	32.32174	19.23035363	1
## 1720	140	209.079688	46.562867686	175.93855	27.11514151	1
## 1721	299	333.728023	87.847588671	175.93855	65.55741172	1
## 1722	185	187.851621	117.882994828	175.93855	90.60776995	1

## 1723	78	119.119131	156.005479560	175.93855	124.36012242	1
## 1724	86	130.798587	162.738321452	175.93855	132.14844580	1
## 1725	105	152.289750	206.657450120	316.20792	173.83031426	1
## 1726	111	170.743457	222.683285441	316.20792	198.74155715	1
## 1727	119	160.828396	219.621456149	316.20792	189.59989002	1
## 1728	125	167.759441	242.099295781	316.20792	207.39792606	1
## 1729	142	208.797540	230.980960735	316.20792	197.12748799	1
## 1730	313	348.205001	250.218995324	316.20792	217.82475339	1
## 1731	310	293.101642	206.258057277	175.93855	185.12771732	1
## 1732	207	229.227909	212.286662070	175.93855	184.30218641	1
## 1733	137	164.460989	194.538630618	175.93855	167.72229780	1
## 1734	138	145.201898	213.075166635	175.93855	185.73633113	1
## 1735	87	94.938195	205.873267956	175.93855	179.86576986	1
## 1736	50	70.970429	229.054289642	175.93855	200.34639055	1
## 1737	29	29.644062	65.691918688	32.32174	36.29849534	1
## 1738	16	16.181481	57.986658771	32.32174	30.62151049	1
## 1739	14	11.359557	64.468661786	32.32174	38.50629837	1
## 1740	5	5.046476	40.367923618	32.32174	17.16374321	1
## 1741	10	14.400720	71.739169365	32.32174	47.82523098	1
## 1742	36	61.676147	85.577234606	32.32174	60.08682738	1
## 1743	123	198.577745	93.064276613	175.93855	67.58510981	1
## 1744	280	315.835383	105.195804288	175.93855	77.54997960	1
## 1745	210	232.877431	132.719454705	175.93855	103.56627774	1
## 1746	117	146.677028	180.858560160	316.20792	146.57828549	1
## 1747	159	175.274261	196.404846448	316.20792	161.13596109	1
## 1748	195	208.553835	215.947476502	316.20792	184.69475861	1
## 1749	175	208.603725	264.934544676	316.20792	224.04839286	1
## 1750	174	213.482999	282.187368527	316.20792	240.90279507	1
## 1751	173	217.487224	295.603663413	316.20792	257.95856563	1
## 1752	204	291.278857	303.514159257	316.20792	260.66202649	1
## 1753	332	493.808855	322.024544462	316.20792	277.03281133	1
## 1754	331	506.001426	316.478165286	316.20792	276.43160225	1
## 1755	190	371.241283	306.563006567	316.20792	268.65146723	1
## 1756	149	259.505614	297.931560013	316.20792	262.03096333	1
## 1757	113	190.815511	304.916924265	316.20792	269.72217478	1
## 1758	118	166.831471	304.569410057	316.20792	268.42135104	1
## 1759	86	128.921246	298.903117465	316.20792	269.54522602	1
## 1760	76	80.175984	123.528105746	32.32174	105.77935331	1
## 1761	51	61.115475	142.394332997	32.32174	122.36689763	1
## 1762	25	41.831440	148.400809069	32.32174	132.08786302	1
## 1763	8	22.934077	160.637339914	32.32174	142.36595680	1
## 1764	3	13.375123	176.510578908	32.32174	149.56652116	1
## 1765	2	13.981871	183.997620915	32.32174	157.06480359	1
## 1766	10	20.201226	145.988292989	32.32174	123.70661228	1
## 1767	13	49.945048	127.010534479	175.93855	109.25294212	1
## 1768	48	106.067296	149.739212989	175.93855	126.95451365	1
## 1769	76	112.580443	163.354273647	175.93855	140.95517565	1
## 1770	140	167.710828	189.195853829	175.93855	166.31864309	1
## 1771	196	211.798440	207.455400156	175.93855	182.78589243	1
## 1772	267	251.161134	221.068777332	175.93855	196.78720184	1
## 1773	301	312.147070	238.798811609	316.20792	211.80477912	1
## 1774	312	325.849245	253.417227777	316.20792	225.41958308	1
## 1775	313	346.869906	264.068189518	316.20792	237.60713583	1
## 1776	304	357.751824	266.633756166	316.20792	241.09204691	1

## 1777	278	310.732634	267.266413702	175.93855	244.02059181	1
## 1778	217	246.083914	268.904110231	175.93855	246.56263125	1
## 1779	154	185.305322	265.367809040	175.93855	245.18841128	1
## 1780	108	136.018340	261.580668972	175.93855	243.91065581	1
## 1781	93	92.005508	260.054445767	175.93855	241.76342494	1
## 1782	72	81.381583	268.044849012	175.93855	249.06813094	1
## 1783	50	65.336674	262.549487897	175.93855	245.49429628	1
## 1784	40	43.979837	60.769819545	32.32174	43.41995185	1
## 1785	24	32.831250	52.562881873	32.32174	37.93589603	1
## 1786	30	32.844594	55.154599334	32.32174	43.06405561	1
## 1787	12	13.522413	47.449339416	32.32174	37.38707076	1
## 1788	3	5.869994	48.585358190	32.32174	40.12203923	1
## 1789	9	7.914738	46.729443751	32.32174	39.40129737	1
## 1790	4	7.325864	54.719846996	32.32174	46.70600337	1
## 1791	14	25.151749	56.357543525	175.93855	49.24804281	1
## 1792	37	60.421921	83.377832704	175.93855	75.45791739	1
## 1793	78	93.695731	105.050454160	175.93855	96.51861996	1
## 1794	136	146.349894	129.915884690	175.93855	129.84246357	1
## 1795	203	208.401636	159.950235802	175.93855	148.96155216	1
## 1796	228	244.190536	171.076724485	175.93855	159.31292739	1
## 1797	203	240.514408	195.913265675	175.93855	185.06290028	1
## 1798	279	278.681802	218.089248369	175.93855	205.93002642	1
## 1799	308	276.494126	222.664893002	175.93855	208.64192661	1
## 1800	224	265.942634	234.492880257	175.93855	221.67653391	1
## 1801	226	230.176173	234.275236466	175.93855	216.07306008	1
## 1802	156	174.830969	226.119316854	175.93855	207.61637867	1
## 1803	79	125.777433	219.871439107	175.93855	204.33193753	1
## 1804	67	92.370717	220.728784707	175.93855	205.52076942	1
## 1805	49	58.966578	205.217857915	175.93855	198.61854913	1
## 1806	38	50.196784	213.459100037	175.93855	205.82679062	1
## 1807	24	38.266092	202.592658913	175.93855	201.39115769	1
## 1808	13	15.851538	42.179931840	32.32174	19.83289920	1
## 1809	7	9.875784	40.296811544	32.32174	11.53763920	1
## 1810	6	7.059994	46.778814558	32.32174	19.42242708	1
## 1811	1	4.862080	54.265856565	32.32174	26.92070951	1
## 1812	2	10.964453	42.467577550	32.32174	10.84531449	1
## 1813	32	41.180251	56.891250038	32.32174	39.70497181	1
## 1814	18	62.440161	36.984337845	175.93855	18.04930744	1
## 1815	98	163.384046	46.150711559	175.93855	20.26979835	1
## 1816	127	149.153657	77.089120587	175.93855	50.87890230	1
## 1817	62	96.724553	108.329386554	175.93855	78.41891616	1
## 1818	79	117.761842	137.056213297	175.93855	106.92551734	1
## 1819	81	124.848362	136.379007855	175.93855	107.05118262	1
## 1820	112	160.132472	191.850991770	316.20792	159.05522555	1
## 1821	101	143.681343	208.826825932	316.20792	174.36284377	1
## 1822	107	191.710651	231.002808625	316.20792	195.22996991	1
## 1823	141	227.367519	224.805948939	316.20792	188.97290319	1
## 1824	272	333.841924	231.789629708	316.20792	196.66476205	1
## 1825	276	327.992430	215.246458065	316.20792	182.57452907	1
## 1826	221	330.488499	271.745609695	316.20792	223.64557024	1
## 1827	122	246.447423	260.774393922	316.20792	219.22456625	1
## 1828	91	124.513984	172.717744476	175.93855	138.84712834	1
## 1829	78	101.809115	193.967540533	175.93855	158.77073543	1
## 1830	30	70.798151	199.193665677	175.93855	167.13849326	1

## 1831	11	26.859174	28.749255140	32.32174	-5.99790164	1
## 1832	19	19.558771	-2.986218427	32.32174	-33.26340190	1
## 1833	1	8.118071	22.857045238	32.32174	-7.90058187	1
## 1834	5	7.595783	59.123789733	32.32174	23.96602732	1
## 1835	1	5.735079	58.077115562	32.32174	32.17236374	1
## 1836	12	17.932877	48.161956843	32.32174	24.39222871	1
## 1837	60	73.472696	59.338408543	32.32174	25.83970872	1
## 1838	136	221.997454	86.943249925	175.93855	62.71637458	1
## 1839	336	314.915243	137.474426225	175.93855	106.81537940	1
## 1840	178	203.296921	147.725746332	175.93855	113.25061000	1
## 1841	124	142.798370	172.986796404	175.93855	140.13703096	1
## 1842	86	161.433263	189.286227762	175.93855	148.47339598	1
## 1843	121	187.578346	210.204649103	175.93855	169.82413949	1
## 1844	106	160.622498	233.308501915	316.20792	191.63413727	1
## 1845	101	183.844926	249.184479436	316.20792	204.76532386	1
## 1846	134	175.405089	254.912282335	316.20792	212.94015268	1
## 1847	165	251.637128	260.389246357	316.20792	221.21144600	1
## 1848	307	379.774700	267.876288364	316.20792	228.70972844	1
## 1849	312	362.829918	264.843348411	175.93855	227.14193203	1
## 1850	164	213.494795	239.615974352	175.93855	207.91161379	1
## 1851	135	164.006429	248.862255467	175.93855	214.73334983	1
## 1852	87	112.873011	249.244074125	175.93855	217.75835923	1
## 1853	70	90.012981	241.538814208	175.93855	212.08137439	1
## 1854	32	67.599509	249.025856215	175.93855	219.57965682	1
## 1855	11	16.133458	34.215505207	32.32174	15.33644312	1
## 1856	7	7.384468	24.803707726	32.32174	7.36273166	1
## 1857	2	5.750708	32.290749733	32.32174	14.86101409	1
## 1858	3	5.001137	41.958801202	32.32174	16.88857598	1
## 1859	10	10.302907	24.090282216	32.32174	9.45854285	1
## 1860	44	50.322943	40.111040401	32.32174	16.24877129	1
## 1861	118	145.011897	27.987666362	175.93855	6.36483867	1
## 1862	261	236.718306	48.230739944	175.93855	26.67559862	1
## 1863	182	157.510362	69.982213756	175.93855	46.40627668	1
## 1864	75	89.224257	83.821962479	175.93855	58.66722567	1
## 1865	71	91.591288	76.541211443	175.93855	54.12668890	1
## 1866	87	90.835532	84.531614688	175.93855	61.43139490	1
## 1867	108	93.967288	88.830924757	175.93855	74.78755074	1
## 1868	84	111.679096	103.344966195	175.93855	82.15721365	1
## 1869	85	111.554595	129.740925676	175.93855	104.35447907	1
## 1870	136	179.742116	156.336705974	175.93855	129.42790557	1
## 1871	273	283.796907	163.823747981	175.93855	136.92618800	1
## 1872	238	197.437627	151.024397745	175.93855	131.93418887	1
## 1873	159	177.894547	158.511439752	175.93855	139.43247130	1
## 1874	75	80.326294	155.633237464	175.93855	128.94615073	1
## 1875	22	41.740320	118.923586995	175.93855	100.64055212	1
## 1876	44	56.239481	139.288257475	175.93855	119.22558060	1
## 1877	26	41.374946	148.961386080	175.93855	139.37415693	1
## 1878	11	12.859674	-24.421627687	32.32174	-46.12313835	1
## 1879	3	6.563085	-38.253222773	32.32174	-58.30315017	1
## 1880	6	6.024413	-30.264503011	32.32174	-50.99779675	1
## 1881	1	3.244163	-29.631845475	32.32174	-48.06925186	1
## 1882	1	3.038324	-22.144803468	32.32174	-40.57096943	1
## 1883	9	10.473169	1.314891391	32.32174	-18.54421216	1
## 1884	41	47.588242	8.801933398	32.32174	-11.04592973	1

## 1885	108	103.261440	-6.708993394	175.93855	-17.94815002	1
## 1886	124	117.482186	2.033926483	175.93855	-10.93283755	1
## 1887	97	117.157065	25.413713941	175.93855	6.49267458	1
## 1888	65	80.767534	34.659995056	175.93855	13.31441062	1
## 1889	71	89.603463	79.861152407	175.93855	56.15655762	1
## 1890	94	103.010588	112.160442475	175.93855	86.59591561	1
## 1891	101	108.798809	123.737590852	175.93855	99.72698741	1
## 1892	83	108.272786	123.866887151	175.93855	102.84910874	1
## 1893	90	104.504012	133.364007143	175.93855	109.57438027	1
## 1894	84	125.764362	151.398865405	175.93855	127.78134262	1
## 1895	233	195.021400	147.836413402	175.93855	124.76387415	1
## 1896	214	196.111154	176.468422498	175.93855	150.70753825	1
## 1897	138	157.777230	198.192690453	175.93855	162.86369818	1
## 1898	118	123.212216	187.021653863	175.93855	155.56653311	1
## 1899	78	87.036404	178.814716191	175.93855	150.08247728	1
## 1900	62	71.365604	185.296719206	175.93855	157.96726516	1
## 1901	33	46.851382	187.436093490	175.93855	160.31637559	1
## 1902	18	16.460722	26.283621338	32.32174	-1.62836944	1
## 1903	5	6.822260	1.681205415	32.32174	-22.77799558	1
## 1904	5	6.303274	10.173286414	32.32174	-15.66621860	1
## 1905	2	4.417800	15.650250436	32.32174	-7.39492527	1
## 1906	5	6.018737	6.238452955	32.32174	-15.36863673	1
## 1907	9	11.234957	14.730533954	32.32174	-8.25685974	1
## 1908	32	47.547054	23.222614954	32.32174	-1.14508276	1
## 1909	104	162.460625	71.968401333	175.93855	41.98721996	1
## 1910	237	290.110891	101.728101365	175.93855	71.74991678	1
## 1911	166	183.022552	121.945024134	175.93855	90.41742823	1
## 1912	68	111.260116	130.256216656	175.93855	104.80448089	1
## 1913	75	108.615061	160.846002111	175.93855	126.68863710	1
## 1914	145	141.953400	180.308724765	175.93855	145.64618949	1
## 1915	138	149.915805	193.420424186	175.93855	159.84042791	1
## 1916	133	147.029306	230.338049109	175.93855	191.10312476	1
## 1917	122	125.701465	220.199257370	175.93855	190.99397238	1
## 1918	150	153.520102	232.860297096	175.93855	202.40851423	1
## 1919	225	211.167219	231.083235014	175.93855	200.35774787	1
## 1920	198	189.726712	226.011327736	175.93855	191.98909163	1
## 1921	135	157.278689	238.952095679	175.93855	210.88103970	1
## 1922	81	107.004868	237.296002057	175.93855	213.03645892	1
## 1923	75	83.007691	245.286405302	175.93855	220.34116492	1
## 1924	43	62.964042	251.898278733	175.93855	223.92330271	1
## 1925	39	50.102988	252.781775147	175.93855	226.75538310	1
## 1926	28	34.106992	76.905085673	32.32174	63.18243941	1
## 1927	27	32.108077	86.322298265	32.32174	65.30646580	1
## 1928	25	24.360967	67.595378632	32.32174	50.75633114	1
## 1929	9	12.250998	62.100017518	32.32174	47.18249647	1
## 1930	6	9.077919	82.569462647	32.32174	65.75289600	1
## 1931	8	9.622320	68.234506323	32.32174	53.76646062	1
## 1932	10	16.857423	61.032607644	32.32174	47.89589934	1
## 1933	41	53.012913	83.208590337	175.93855	68.76302548	1
## 1934	66	82.164056	111.009230445	175.93855	96.32610761	1
## 1935	100	106.164562	130.975314336	175.93855	115.09008357	1
## 1936	125	135.188394	144.815063059	175.93855	127.35103255	1
## 1937	168	158.442332	164.781146950	175.93855	146.11500851	1
## 1938	227	188.768710	183.039009795	175.93855	162.58290527	1

## 1939	239	206.641784	203.508454924	175.93855	181.15330480	1
## 1940	216	208.305634	225.684437617	175.93855	202.02043094	1
## 1941	219	208.869060	232.668118387	175.93855	209.71228980	1
## 1942	248	222.183641	253.414553206	175.93855	229.82947332	1
## 1943	203	198.282705	253.345712171	175.93855	230.07478615	1
## 1944	153	169.021204	264.778079884	175.93855	249.54681610	1
## 1945	138	126.640731	209.035576433	175.93855	196.07757376	1
## 1946	85	92.749424	216.522618440	175.93855	203.57585620	1
## 1947	51	56.5556965	219.365174778	175.93855	208.60755127	1
## 1948	63	62.272128	239.834619907	175.93855	227.17795080	1
## 1949	41	46.994914	235.847659022	175.93855	223.02403425	1
## 1950	31	35.858282	68.265311281	32.32174	57.64599976	1
## 1951	20	27.406736	46.095798742	32.32174	36.86045821	1
## 1952	21	23.409549	39.424467158	32.32174	38.37083864	1
## 1953	14	13.795030	10.626941695	32.32174	11.27519912	1
## 1954	6	8.162603	0.210105221	32.32174	3.68799312	1
## 1955	2	10.740451	-17.687303106	32.32174	-11.31591074	1
## 1956	7	34.209527	-9.696899861	175.93855	-4.01120474	1
## 1957	14	62.197087	51.420815145	175.93855	38.21102823	1
## 1958	54	79.850960	94.187385629	175.93855	80.68973806	1
## 1959	86	104.199038	101.503496159	175.93855	92.88573013	1
## 1960	108	120.516504	129.304136266	175.93855	120.44881226	1
## 1961	163	153.034648	152.485157952	175.93855	140.92943295	1
## 1962	147	172.471476	184.399716633	175.93855	163.57816073	1
## 1963	164	182.070061	203.360761532	175.93855	182.72864214	1
## 1964	172	182.201578	212.857881524	175.93855	189.45391368	1
## 1965	143	194.897150	225.839710528	175.93855	207.95080219	1
## 1966	159	182.825746	238.378098311	175.93855	215.15980587	1
## 1967	137	154.193151	234.590958243	175.93855	213.88205041	1
## 1968	103	133.445698	247.001159092	175.93855	225.39305677	1
## 1969	57	81.263046	236.584322618	175.93855	217.80585076	1
## 1970	36	52.651504	227.172525136	175.93855	209.83213930	1
## 1971	30	46.338340	234.659567143	175.93855	217.33042174	1
## 1972	19	38.483844	236.018590499	175.93855	218.32632461	1
## 1973	12	14.100790	31.483769870	32.32174	3.93113848	1
## 1974	6	7.775116	63.279698700	32.32174	34.56407290	1
## 1975	5	5.698845	70.265062952	32.32174	42.25528435	1
## 1976	2	4.082902	77.752104959	32.32174	49.75356678	1
## 1977	8	11.448611	83.739074574	32.32174	56.74786683	1
## 1978	40	52.119097	112.623606030	32.32174	82.59441901	1
## 1979	110	170.175131	131.133991234	175.93855	98.96520385	1
## 1980	254	276.399072	132.441996529	175.93855	102.93373231	1
## 1981	121	152.739763	148.518849912	175.93855	124.87234961	1
## 1982	69	106.107698	167.451005471	175.93855	136.44896029	1
## 1983	57	86.230206	180.616461479	175.93855	153.60119536	1
## 1984	79	102.998060	194.378641410	175.93855	173.45129143	1
## 1985	83	92.943593	219.543590269	175.93855	191.51565273	1
## 1986	80	111.707473	238.979107066	175.93855	202.89868698	1
## 1987	72	105.974708	243.051390461	175.93855	205.80416360	1
## 1988	132	148.504313	257.592637756	175.93855	220.74834465	1
## 1989	252	233.221259	266.335557633	175.93855	227.76365712	1
## 1990	241	216.934095	272.142212889	175.93855	234.60846144	1
## 1991	173	165.693419	269.056571393	175.93855	236.01393803	1
## 1992	112	128.910408	281.891281123	175.93855	248.66139247	1

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## 1993      61  96.640968 292.089899687 175.93855 258.06989606 1
## 1994      40  64.903124 293.026097644 175.93855 257.92870345 1
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## 1996      16  17.032852 105.112328828 32.32174 69.75855651 1
## 1997       4   7.347009  97.407068911 32.32174 64.08157166 1
## 1998       3   6.144537 104.894110918 32.32174 71.57985409 1
## 1999       3   5.735059 112.381152925 32.32174 79.07813652 1
## 2000       2   3.943447  79.389801488 32.32174 52.29560622 1
## 2001       8   13.825477 109.702197335 32.32174 78.89274844 1
## 2002      50  59.974450 109.103844249 32.32174 77.68838921 1
## 2003     133  187.984547 117.595925249 175.93855 84.80016619 1
## 2004     287  292.790812 144.191705547 175.93855 109.87359269 1
## 2005     172  178.637416 179.350091362 175.93855 141.81283593 1
## 2006      59   93.013884 200.017673826 175.93855 163.26004395 1
## 2007      81  108.277255 216.822576510 175.93855 183.26537182 1
## 2008     106  133.489218 222.219633131 175.93855 186.93542001 1
## 2009     104  119.627071 231.967592001 175.93855 193.56422703 1
## 2010      86  117.240209 244.549779371 175.93855 206.30879339 1
## 2011      87  134.625178 257.384489101 175.93855 218.95624783 1
## 2012     136  172.825459 270.496188522 175.93855 233.15048625 1
## 2013     299  321.607540 287.749012374 175.93855 250.00488846 1
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## 2015     190  204.255251 279.550402540 175.93855 243.43676837 1
## 2016     132  167.853192 295.549032004 175.93855 260.77349313 1
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## 2018      55  83.370690 241.288203851 175.93855 212.50569183 1
## 2019      35  58.200220 225.326617364 175.93855 202.82377497 1
## 2020      11  15.697861  51.365412094 32.32174 31.03982543 1
## 2021      10  15.046794 100.309964246 32.32174 71.11701958 1
## 2022       4   6.032162  66.339496108 32.32174 46.03639029 1
## 2023       4   5.741292  91.505728532 32.32174 70.35987417 1
## 2024       1   4.731887  81.313580122 32.32174 61.03295516 1
## 2025       7  12.707088  88.427131309 32.32174 64.42216393 1
## 2026      48  62.278384 110.378425938 32.32174 87.02900307 1
## 2027     136  185.546892 132.052730876 175.93855 108.08905823 1
## 2028     263  275.413699 131.705216668 175.93855 106.78823449 1
## 2029     154  165.318648 149.036892876 175.93855 122.31261220 1
## 2030      64  97.268963 160.163381559 175.93855 132.66398743 1
## 2031      90  96.520791 168.152101321 175.93855 139.96934085 1
## 2032     80  106.456031 174.132426580 175.93855 148.04705774 1
## 2033     98  109.574049 188.473853058 175.93855 160.11507771 1
## 2034     80  105.497210 197.216772936 175.93855 167.13039019 1
## 2035      70  84.066528 102.280643250 175.93855 86.47123589 1
## 2036      36  65.144219  95.754092329 175.93855 81.64065818 1
## 2037    116  116.193189  81.620640305 175.93855 72.52973645 1
## 2038      85  101.606599  92.797092005 175.93855 73.97721646 1
## 2039      72  97.323242 100.284134012 175.93855 81.47549889 1
## 2040      44  60.018319 101.498376704 175.93855 88.81235991 1
## 2041      27  52.349087 109.910550303 175.93855 91.32289175 1
## 2042      24  34.329744 115.216582848 175.93855 104.29189473 1
## 2043      12  27.761099 123.708663847 175.93855 111.40367171 1
## 2044       3   6.777223 -49.498341307 32.32174 -60.67031877 1
## 2045       5   5.522124 -42.514660538 32.32174 -52.97845991 1
## 2046       5   5.171326 -35.027618531 32.32174 -45.48017748 1

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## 2047	1	3.402797	-27.037215286	32.32174	-38.17547147	1
## 2048	2	4.066397	-19.048495524	32.32174	-30.87011806	1
## 2049	8	8.062195	-12.063131272	32.32174	-23.17890661	1
## 2050	36	33.094226	-3.320211395	32.32174	-16.16359414	1
## 2051	92	95.026762	3.412630497	175.93855	-8.37527076	1
## 2052	192	188.340313	-2.890287403	175.93855	-20.87683112	1
## 2053	132	106.113420	24.236059989	175.93855	11.57753708	1
## 2054	69	80.135558	31.723101996	175.93855	19.07581952	1
## 2055	58	74.260098	44.054450489	175.93855	31.91685038	1
## 2056	90	76.507437	51.541492496	175.93855	39.41513281	1
## 2057	68	81.967530	77.132233801	175.93855	64.87506476	1
## 2058	76	80.990230	84.619275808	175.93855	72.37334719	1
## 2059	65	69.475818	94.870595916	175.93855	78.80857779	1
## 2060	85	102.948687	103.282769515	175.93855	81.31910964	1
## 2061	168	146.452300	110.769811522	175.93855	88.81739207	1
## 2062	177	152.829559	116.246775543	175.93855	97.08868540	1
## 2063	130	141.727853	123.733817551	175.93855	104.58696783	1
## 2064	85	70.591449	112.946228783	175.93855	98.82131039	1
## 2065	60	66.305253	120.102524511	175.93855	101.81481219	1
## 2066	51	46.792086	127.416951559	175.93855	114.01145168	1
## 2067	27	37.911739	112.078639726	175.93855	102.41087433	1
## 2068	6	8.603751	-59.954480985	32.32174	-69.52226996	1
## 2069	4	6.322065	-52.467438978	32.32174	-62.02398753	1
## 2070	7	6.639945	-29.009427601	32.32174	-39.99658285	1
## 2071	4	4.348104	-24.687360372	32.32174	-43.11884038	1
## 2072	3	4.249716	-17.200318365	32.32174	-35.62055795	1
## 2073	12	10.207740	-11.894285820	32.32174	-22.65155497	1
## 2074	28	33.545784	-4.407243813	32.32174	-15.15327254	1
## 2075	95	117.426094	-0.689518900	175.93855	-6.20543282	1
## 2076	206	228.674974	31.856587954	175.93855	11.94771585	1
## 2077	173	207.714744	97.898516846	175.93855	64.11394239	1
## 2078	75	125.484779	112.969276191	175.93855	80.50779550	1
## 2079	89	117.440279	132.761690079	175.93855	98.03885888	1
## 2080	95	127.436652	163.777267980	175.93855	127.31858574	1
## 2081	110	133.777495	183.743351872	175.93855	146.08256170	1
## 2082	87	126.138503	198.390657380	175.93855	167.27123638	1
## 2083	111	138.451597	202.712724609	175.93855	164.14897885	1
## 2084	167	161.759735	210.199766616	175.93855	171.64726128	1
## 2085	281	241.388695	216.180091875	175.93855	179.72497818	1
## 2086	241	239.769496	223.667133882	175.93855	187.22326061	1
## 2087	136	182.913894	224.524479483	175.93855	188.41209250	1
## 2088	77	121.327990	215.059980458	175.93855	183.41165404	1
## 2089	93	108.572795	221.541983472	175.93855	191.29644192	1
## 2090	74	80.807270	217.053344833	175.93855	187.33545440	1
## 2091	53	67.997607	212.235014959	175.93855	184.80095589	1
## 2092	32	38.660461	33.170593547	32.32174	27.08588560	1
## 2093	32	32.119428	24.059597960	32.32174	10.11181441	1
## 2094	21	23.734307	3.598306468	32.32174	-8.37764795	1
## 2095	9	12.459267	22.638203723	32.32174	9.44280895	1
## 2096	5	6.606451	30.125245730	32.32174	16.94109138	1
## 2097	5	7.779148	24.883462019	32.32174	19.20141444	1
## 2098	12	19.988164	49.943636230	32.32174	37.28040468	1
## 2099	18	44.418351	55.751346529	175.93855	50.05647864	1
## 2100	55	78.272480	76.616411200	175.93855	62.18945552	1

## 2101	87	127.163724	102.962407665	175.93855	93.29061617	1
## 2102	154	173.675941	137.192923361	175.93855	124.28698776	1
## 2103	198	263.722868	178.477644346	175.93855	162.72925797	1
## 2104	184	164.073548	85.248052224	175.93855	84.36683028	1
## 2105	137	163.790191	101.943103124	175.93855	86.26577265	1
## 2106	190	147.988895	114.539269587	175.93855	108.62251778	1
## 2107	136	127.183398	128.880696065	175.93855	120.69053775	1
## 2108	196	218.404567	181.358636679	175.93855	157.37633107	1
## 2109	184	206.269425	207.026546858	175.93855	181.50688593	1
## 2110	179	193.697982	211.749310765	175.93855	190.06822020	1
## 2111	148	152.383478	218.361184196	175.93855	193.65035799	1
## 2112	85	104.662997	218.743002854	175.93855	196.67536739	1
## 2113	77	82.561395	202.198147729	175.93855	182.58578183	1
## 2114	55	69.482198	210.439389851	175.93855	189.79402332	1
## 2115	53	61.967550	215.665514995	175.93855	198.16178115	1
## 2116	39	41.428085	29.276285902	32.32174	12.13951250	1
## 2117	34	35.174421	44.096206369	32.32174	28.62983012	1
## 2118	24	26.514880	20.497145957	32.32174	7.09434594	1
## 2119	11	16.926304	57.311051276	32.32174	44.30294137	1
## 2120	3	8.898899	40.568058816	32.32174	27.33654731	1
## 2121	5	8.491933	61.365511697	32.32174	44.48110524	1
## 2122	33	28.475211	68.349192466	32.32174	52.17296410	1
## 2123	33	62.311496	105.717477084	175.93855	86.21535752	1
## 2124	62	98.931842	118.048825576	175.93855	99.05638839	1
## 2125	142	154.362073	152.381377395	175.93855	124.10750881	1
## 2126	215	225.709313	185.780524102	175.93855	156.72329843	1
## 2127	243	294.439926	200.772431091	175.93855	174.44717605	1
## 2128	313	336.003176	221.241876220	175.93855	193.01757557	1
## 2129	367	369.384256	240.029251115	175.93855	210.93514440	1
## 2130	349	362.587391	255.021158104	175.93855	228.65902201	1
## 2131	292	318.816156	254.148153937	175.93855	238.09827102	1
## 2132	303	316.844558	269.320949404	175.93855	248.54687295	1
## 2133	274	292.480219	282.432648824	175.93855	262.74111138	1
## 2134	172	228.254112	281.029077562	175.93855	264.79941867	1
## 2135	144	203.513570	251.354700042	175.93855	233.78828193	1
## 2136	79	140.131822	264.295467985	175.93855	252.68023000	1
## 2137	45	94.664401	266.832145293	175.93855	248.59127037	1
## 2138	36	86.070967	270.348994346	175.93855	248.73167936	1
## 2139	31	69.533554	262.115905861	175.93855	241.60437504	1
## 2140	6	22.943922	95.849579874	32.32174	59.38685146	1
## 2141	11	15.759185	92.338145931	32.32174	53.39675741	1
## 2142	2	6.329174	70.117615332	32.32174	35.58384144	1
## 2143	1	4.275511	78.108018576	32.32174	42.88854744	1
## 2144	2	3.935428	74.796405450	32.32174	39.77461446	1
## 2145	7	16.019037	107.267682039	32.32174	71.44753244	1
## 2146	46	76.662189	129.947025970	32.32174	92.12108215	1
## 2147	157	227.554680	149.940315719	175.93855	118.45957624	1
## 2148	339	349.688892	161.821004517	175.93855	128.52091054	1
## 2149	158	202.896617	191.354732919	316.20792	153.76419779	1
## 2150	90	148.064460	223.296497458	316.20792	183.98744371	1
## 2151	124	183.582723	261.563762855	316.20792	211.39883804	1
## 2152	157	210.856795	290.844968897	316.20792	236.73923721	1
## 2153	139	203.740580	312.189582601	316.20792	259.22578138	1
## 2154	123	179.266943	353.777215569	316.20792	300.53023113	1

## 2155	143	184.450616	378.637568962	316.20792	315.73306030	1
## 2156	189	268.899048	387.832832016	316.20792	325.52742193	1
## 2157	366	440.881085	388.767346491	316.20792	325.38687673	1
## 2158	386	422.790070	386.715633327	316.20792	333.97971860	1
## 2159	278	377.740642	387.321085006	316.20792	329.33374535	1
## 2160	173	238.415526	394.635512053	316.20792	341.53038485	1
## 2161	95	155.533215	387.105605622	316.20792	337.08566517	1
## 2162	75	117.291540	375.734748216	316.20792	326.91233902	1
## 2163	48	92.599208	343.194056473	316.20792	302.90950529	1
## 2164	22	35.686379	158.182302149	32.32174	114.67853521	1
## 2165	15	20.407949	152.117422968	32.32174	115.98135768	1
## 2166	5	10.519635	101.021317188	32.32174	65.30590822	1
## 2167	4	8.176710	108.508359195	32.32174	72.80419065	1
## 2168	2	6.813552	72.231491126	32.32174	43.05812150	1
## 2169	5	10.043599	51.494493508	32.32174	29.28099774	1
## 2170	38	69.891614	80.272966751	32.32174	48.88305628	1
## 2171	134	199.286133	87.760008758	175.93855	56.38133871	1
## 2172	157	140.473962	70.801885317	175.93855	44.83686162	1
## 2173	46	61.420787	70.931181615	175.93855	47.95898294	1
## 2174	28	56.543873	84.070715331	175.93855	63.79582245	1
## 2175	19	54.558640	86.713450853	175.93855	65.95135644	1
## 2176	38	83.438604	122.823119073	175.93855	94.54609759	1
## 2177	56	88.331782	154.340374730	175.93855	123.63289543	1
## 2178	76	107.603457	176.342687420	175.93855	143.26710899	1
## 2179	68	147.983136	221.014961159	175.93855	178.72766687	1
## 2180	130	179.171818	221.898457572	175.93855	181.55974725	1
## 2181	273	348.853365	258.763380952	175.93855	215.79571710	1
## 2182	267	273.242046	251.387812269	175.93855	208.69224324	1
## 2183	160	202.786738	243.129856536	175.93855	206.18081300	1
## 2184	91	141.028676	237.887017781	175.93855	202.50986641	1
## 2185	89	117.122992	249.394215759	175.93855	208.46212705	1
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## 2188	15	21.602676	66.802673299	32.32174	37.48179761	1
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## 2190	5	5.629963	18.322523790	32.32174	-6.74944929	1
## 2191	4	4.956243	53.757899296	32.32174	26.73657793	1
## 2192	1	4.011833	44.346101815	32.32174	18.76286648	1
## 2193	13	14.511010	40.281972056	32.32174	15.93832702	1
## 2194	56	68.202373	47.769014063	32.32174	23.43660945	1
## 2195	133	214.314147	72.154895559	175.93855	46.40688577	1
## 2196	325	435.251419	108.039647194	175.93855	76.41348699	1
## 2197	165	238.123859	160.875539944	175.93855	125.17857908	1
## 2198	69	166.135241	202.212962472	175.93855	160.64757629	1
## 2199	93	173.414349	213.339451155	175.93855	170.99895153	1
## 2200	134	192.348041	217.783541889	175.93855	178.01414922	1
## 2201	112	189.619618	241.769781751	175.93855	195.23210339	1
## 2202	115	197.995181	268.539232052	316.20792	221.53844247	1
## 2203	117	208.793608	284.788700394	316.20792	238.77870272	1
## 2204	169	297.785938	308.471399835	316.20792	259.06639439	1
## 2205	356	481.111414	301.772862393	316.20792	253.00225668	1
## 2206	325	461.211916	314.381200576	316.20792	267.39007153	1
## 2207	232	381.694969	310.594060508	316.20792	266.11231607	1
## 2208	141	185.101016	260.928557647	175.93855	222.11807888	1

## 2209	102	148.156841	291.519626668	175.93855	250.26135766	1
## 2210	84	109.523447	299.006668675	175.93855	257.75964010	1
## 2211	40	74.967756	306.744549559	175.93855	265.16145802	1
## 2212	20	30.417336	134.291744520	32.32174	92.79742660	1
## 2213	13	17.741946	114.307263535	32.32174	78.73090930	1
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## 2215	3	5.289722	70.750272868	32.32174	38.51238633	1
## 2216	1	4.124400	50.288981376	32.32174	20.02292397	1
## 2217	6	12.358864	58.279384620	32.32174	27.32762997	1
## 2218	64	68.250057	49.369264894	32.32174	19.16098950	1
## 2219	160	218.085073	70.569097935	175.93855	47.98849181	1
## 2220	314	388.683993	86.086494882	175.93855	54.97229669	1
## 2221	170	200.343456	124.686845167	175.93855	99.07886387	1
## 2222	95	154.820665	135.311656095	175.93855	109.62316812	1
## 2223	122	169.402229	179.256935575	175.93855	152.94828508	1
## 2224	153	179.460748	186.743977582	175.93855	160.44656751	1
## 2225	135	176.241792	228.756747869	316.20792	196.95554828	1
## 2226	157	192.773558	260.671306550	316.20792	219.60427607	1
## 2227	160	203.599161	291.157372401	316.20792	247.43433086	1
## 2228	213	294.251246	303.514871707	316.20792	261.91861022	1
## 2229	343	417.362297	254.810608251	316.20792	212.00230491	1
## 2230	333	336.771979	243.465901658	175.93855	203.47222726	1
## 2231	226	248.485653	237.018203094	175.93855	197.31162504	1
## 2232	203	212.691501	229.765286354	175.93855	194.41368935	1
## 2233	108	120.577102	226.533580628	175.93855	195.90100151	1
## 2234	81	104.551554	200.924442230	175.93855	175.13852823	1
## 2235	54	69.143124	205.246509459	175.93855	172.01627070	1
## 2236	25	22.649901	25.014188356	32.32174	0.07025233	1
## 2237	9	10.462584	25.143484655	32.32174	3.19237365	1
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## 2239	1	5.488309	38.941598199	32.32174	23.27315361	1
## 2240	1	4.341770	25.505622655	32.32174	4.65571914	1
## 2241	9	11.853041	25.938459375	32.32174	4.70810296	1
## 2242	35	59.024164	36.008891004	32.32174	18.41860923	1
## 2243	113	139.796893	44.580879405	175.93855	30.13163135	1
## 2244	221	182.412061	52.067921412	175.93855	37.62991378	1
## 2245	185	195.477443	91.894205182	175.93855	67.74837064	1
## 2246	73	97.434906	111.939141430	175.93855	85.18232210	1
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## 2248	80	112.183607	141.127694232	175.93855	121.31517782	1
## 2249	42	78.049342	121.671441733	175.93855	102.43921002	1
## 2250	15	39.136146	97.995212447	175.93855	82.23310293	1
## 2251	25	43.866950	105.482254454	175.93855	89.73138536	1
## 2252	60	90.763114	96.041567632	175.93855	74.18380318	1
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## 2254	62	76.156549	109.336319939	175.93855	94.45815957	1
## 2255	53	64.611045	113.738294569	175.93855	95.93714718	1
## 2256	63	80.883663	121.397951535	175.93855	98.73707255	1
## 2257	54	62.464367	127.627432189	175.93855	106.71897235	1
## 2258	51	56.480024	135.868674312	175.93855	113.92721384	1
## 2259	35	47.579221	142.099838448	175.93855	121.90846623	1
## 2260	31	31.615844	-20.517458213	32.32174	-29.04557638	1
## 2261	20	26.128617	-14.538816437	32.32174	-20.96721206	1
## 2262	17	24.005337	0.305971279	32.32174	-9.09276853	1

## 2263	14	10.463475	-27.962670571	32.32174	-28.80681892	1
## 2264	3	6.681379	-20.475628564	32.32174	-21.30853649	1
## 2265	5	6.799320	3.658359009	32.32174	-4.17306530	1
## 2266	13	15.429453	10.642039779	32.32174	3.51879356	1
## 2267	21	36.160768	17.627404031	175.93855	11.21000501	1
## 2268	54	63.663858	30.963791516	175.93855	23.66453043	1
## 2269	98	114.356748	56.554532821	175.93855	49.12446238	1
## 2270	133	137.824653	64.543252583	175.93855	56.42981579	1
## 2271	142	182.182961	88.878116018	175.93855	82.37271770	1
## 2272	202	199.705160	98.626074888	175.93855	89.00152473	1
## 2273	222	195.792499	103.852200032	175.93855	97.36928256	1
## 2274	212	201.530300	113.600158902	175.93855	103.99808959	1
## 2275	201	182.164768	105.566891234	175.93855	99.74694634	1
## 2276	191	207.432371	129.952772729	175.93855	122.71722266	1
## 2277	257	211.108106	138.948214967	175.93855	129.63542322	1
## 2278	177	185.438073	146.686095851	175.93855	137.03724114	1
## 2279	130	156.361363	154.674815614	175.93855	144.34259455	1
## 2280	93	108.485836	151.615724848	175.93855	141.13154965	1
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## 2283	57	62.989698	172.820972999	175.93855	164.10936690	1
## 2284	53	52.284219	0.619006837	32.32174	-8.35112903	1
## 2285	37	40.996271	8.858565476	32.32174	-1.14224012	1
## 2286	36	37.049894	15.593090851	32.32174	6.64543584	1
## 2287	16	18.602658	23.832649490	32.32174	13.85432474	1
## 2288	5	6.512985	11.709275452	32.32174	3.97039212	1
## 2289	4	6.778281	18.945478581	32.32174	11.56513906	1
## 2290	4	16.005406	26.432520588	32.32174	19.06342150	1
## 2291	10	37.939776	18.450270981	175.93855	11.83965266	1
## 2292	55	82.617206	45.046051278	175.93855	36.91307917	1
## 2293	81	106.906884	53.285609918	175.93855	44.12196807	1
## 2294	150	188.209834	79.830372155	175.93855	72.16802016	1
## 2295	202	207.930128	89.578331025	175.93855	78.79682718	1
## 2296	230	230.282255	100.704819708	175.93855	89.14820242	1
## 2297	263	267.199839	134.327599436	175.93855	114.09300940	1
## 2298	281	309.248813	177.119037168	316.20792	151.95584514	1
## 2299	297	303.814206	174.059946402	316.20792	148.74480024	1
## 2300	288	291.559541	195.761457198	316.20792	177.37937353	1
## 2301	236	288.412056	203.750176960	316.20792	184.68472695	1
## 2302	240	262.492202	196.017711186	316.20792	171.43322397	1
## 2303	131	211.177265	203.504753193	316.20792	178.93150640	1
## 2304	92	138.055609	187.238571241	175.93855	166.38805740	1
## 2305	95	98.312988	176.621913950	175.93855	155.92469032	1
## 2306	57	74.108753	171.854602137	175.93855	150.41756622	1
## 2307	32	59.236259	200.209621543	175.93855	174.81444633	1
## 2308	23	29.817056	37.030046416	32.32174	-1.38442984	1
## 2309	4	10.119605	24.654150017	32.32174	-11.17125053	1
## 2310	9	9.221091	32.141192024	32.32174	-3.67296810	1
## 2311	1	5.397077	45.606875808	32.32174	11.90367864	1
## 2312	13	16.043750	53.093917815	32.32174	19.40196107	1
## 2313	61	74.608736	46.145596540	32.32174	19.36555752	1
## 2314	176	221.185996	91.850115128	316.20792	62.01412809	1
## 2315	314	349.840515	106.191541606	316.20792	74.08214805	1
## 2316	165	178.877107	136.426768580	316.20792	102.00866736	1

## 2317	96	118.171308	144.164649465	316.20792	109.41048528	1
## 2318	104	141.281487	185.449370449	316.20792	147.85275549	1
## 2319	134	154.141553	193.439773693	316.20792	155.15746149	1
## 2320	139	158.941786	222.971818613	316.20792	180.40139615	1
## 2321	145	176.128125	285.999685571	316.20792	239.65840868	1
## 2322	141	182.839298	317.039075677	316.20792	258.39099182	1
## 2323	235	281.257606	324.526117684	316.20792	265.88927425	1
## 2324	452	458.900734	332.013159691	316.20792	273.38755668	1
## 2325	383	454.955181	324.760242951	316.20792	270.48962099	1
## 2326	284	367.558935	333.252323950	316.20792	277.60139798	1
## 2327	166	240.740216	317.037160059	316.20792	262.08532340	1
## 2328	158	201.434256	305.311744171	316.20792	257.95436035	1
## 2329	91	132.527410	330.082357053	316.20792	288.71526687	1
## 2330	54	89.348328	291.468686811	316.20792	267.42717280	1
## 2331	24	32.091008	156.502970442	32.32174	119.95632673	1
## 2332	13	22.417759	163.739173571	32.32174	127.55107367	1
## 2333	14	15.596191	159.499690326	32.32174	123.49426905	1
## 2334	1	9.587412	154.507690449	32.32174	119.72685796	1
## 2335	6	8.440239	138.466196561	32.32174	105.44369596	1
## 2336	16	19.435554	131.264297882	32.32174	99.57313468	1
## 2337	58	83.678861	141.264779112	32.32174	106.10482979	1
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## 2346	78	118.519398	175.231187493	175.93855	138.24626930	1
## 2347	99	157.600579	180.457312637	175.93855	146.61402713	1
## 2348	291	247.637268	171.802053880	175.93855	150.54066696	1
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## 2366	61	115.256750	111.156932818	175.93855	84.99476338	1
## 2367	95	97.352918	117.969682111	175.93855	97.38433189	1
## 2368	61	137.876892	143.029856321	175.93855	115.46332213	1
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## 2370	81	113.321536	170.561834576	175.93855	140.39555602	1

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## 2371    142 207.228696 196.627047779 175.93855 158.08804081    1
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## 2401   104 130.941809 270.902313946 175.93855 234.43129690    1
## 2402     47 86.008145 263.700415266 175.93855 228.56073563    1
## 2403     27 39.810776 38.915961685 32.32174 24.77292431    1
## 2404     15 29.825378 57.452497703 32.32174 42.78695764    1
## 2405     18 25.889793 22.302265524 32.32174 10.92865158    1
## 2406     3 12.445180 29.789307531 32.32174 18.42693401    1
## 2407     3 8.742872 19.676011478 32.32174 7.76999049    1
## 2408     13 12.506796 23.774445687 32.32174 12.31871561    1
## 2409     47 42.690328 31.010648816 32.32174 19.91346255    1
## 2410    149 155.126668 73.551247670 175.93855 57.87276280    1
## 2411    300 246.904206 114.886986716 175.93855 93.34240742    1
## 2412    178 196.997735 153.632117664 316.20792 131.10801646    1
## 2413    122 190.955623 161.119159671 316.20792 138.60629890    1
## 2414    136 197.843174 174.455547156 316.20792 151.06082431    1
## 2415    200 224.701652 183.450989394 316.20792 157.97902487    1
## 2416    180 209.701619 202.913712048 316.20792 176.93657726    1
## 2417    163 209.779286 210.400754055 316.20792 184.43485969    1
## 2418    162 220.044632 221.155435400 316.20792 190.67651385    1
## 2419    243 286.433859 216.915952155 316.20792 186.61970923    1
## 2420    331 347.010057 197.437570935 316.20792 178.29023773    1
## 2421    263 283.932362 184.386326777 175.93855 167.46343347    1
## 2422    209 212.688031 159.755021514 175.93855 138.73993660    1
## 2423    118 136.025413 160.918246145 175.93855 149.04942320    1
## 2424    102 107.259098 167.901926915 175.93855 156.74128206    1

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## 2425	80	84.529803	157.788630861	175.93855	146.08433855	1
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## 2427	43	48.394528	10.289971034	32.32174	-1.55794634	1
## 2428	33	38.999179	5.522659221	32.32174	-7.06507043	1
## 2429	24	33.259525	10.496262005	32.32174	1.39979932	1
## 2430	14	17.984818	18.486665250	32.32174	8.70450533	1
## 2431	5	7.791412	26.978746249	32.32174	15.81628231	1
## 2432	4	8.212938	41.320172727	32.32174	27.88430228	1
## 2433	10	16.980023	64.780922631	32.32174	55.84232918	1
## 2434	21	57.775269	75.454013093	175.93855	57.48338562	1
## 2435	45	60.344972	69.207190390	175.93855	60.13021413	1
## 2436	29	48.174349	46.960508977	175.93855	40.67404966	1
## 2437	22	42.205078	75.064689505	175.93855	65.16739428	1
## 2438	31	42.865335	83.556770505	175.93855	72.27917127	1
## 2439	32	110.637352	119.942144851	175.93855	96.16157382	1
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## 2443	33	71.286171	157.899594143	316.20792	142.11799194	1
## 2444	15	60.243560	167.396714135	316.20792	148.84326348	1
## 2445	38	111.894839	160.037739182	316.20792	139.70083416	1
## 2446	71	122.109667	173.875804422	316.20792	151.96243056	1
## 2447	53	72.944806	153.020176953	175.93855	146.16951342	1
## 2448	14	66.092787	158.417233574	175.93855	149.83956162	1
## 2449	24	43.573588	145.116205584	175.93855	145.04049150	1
## 2450	35	69.408222	215.733953310	175.93855	198.75361681	1
## 2451	33	56.790250	43.531987148	32.32174	26.29312088	1
## 2452	31	46.251862	67.942964412	32.32174	44.97537605	1
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## 2454	25	25.591679	77.769201519	32.32174	57.69892999	1
## 2455	7	11.516318	50.956886794	32.32174	34.44615367	1
## 2456	3	9.186067	70.498461804	32.32174	52.07368155	1
## 2457	8	22.745696	93.809353908	32.32174	68.25165215	1
## 2458	16	77.566118	135.146376518	175.93855	109.98041935	1
## 2459	43	131.786439	157.825720449	175.93855	130.65396906	1
## 2460	102	179.804551	176.032565232	175.93855	150.09449140	1
## 2461	211	240.106940	189.923332016	175.93855	159.38281481	1
## 2462	304	306.579181	215.235400148	175.93855	183.29661018	1
## 2463	354	351.455406	228.850460806	175.93855	197.29727217	1
## 2464	343	377.157294	256.875788978	316.20792	223.12064130	1
## 2465	361	402.545746	270.212176463	316.20792	235.57516672	1
## 2466	388	407.504054	290.229278416	316.20792	251.36651709	1
## 2467	343	414.607319	299.371839926	316.20792	264.13415172	1
## 2468	306	365.093911	314.216627642	316.20792	276.00859526	1
## 2469	277	342.944214	320.698630656	316.20792	283.89338314	1
## 2470	210	289.796254	326.677272433	316.20792	291.97174745	1
## 2471	141	202.142382	307.446991563	316.20792	277.61518921	1
## 2472	83	141.432142	295.825295280	316.20792	267.53832758	1
## 2473	70	120.285276	308.435316945	316.20792	281.92549501	1
## 2474	56	93.860657	237.502195052	175.93855	215.28033799	1
## 2475	39	38.101186	117.766395852	32.32174	81.43450637	1
## 2476	19	20.347553	126.005954491	32.32174	88.64339527	1
## 2477	16	11.223197	77.094651745	32.32174	44.35911714	1
## 2478	7	8.472384	95.631187763	32.32174	62.37315048	1

## 2479	6	7.168897	43.026453232	32.32174	11.94992996	1
## 2480	16	21.585479	73.566504192	32.32174	43.06583434	1
## 2481	54	82.447118	66.285753156	32.32174	38.52529757	1
## 2482	168	268.809723	133.308908838	175.93855	100.85216238	1
## 2483	297	378.113231	140.795950845	175.93855	108.35044482	1
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## 2485	109	154.721723	191.077169111	316.20792	159.64218522	1
## 2486	123	148.551302	210.792414124	316.20792	178.50262569	1
## 2487	184	184.624006	230.758498016	316.20792	197.26660164	1
## 2488	169	180.449576	239.501417893	316.20792	204.28191412	1
## 2489	144	193.845994	253.339483134	316.20792	216.54351052	1
## 2490	176	221.953009	279.935263431	316.20792	241.61693702	1
## 2491	205	301.428593	283.980340970	316.20792	236.94789551	1
## 2492	428	490.532250	278.988341092	316.20792	233.18048441	1
## 2493	362	494.919088	345.057475842	316.20792	292.92122909	1
## 2494	286	373.084318	294.239414797	316.20792	249.72383326	1
## 2495	165	284.373182	342.908032302	316.20792	294.18551307	1
## 2496	151	196.967256	329.605949267	316.20792	283.45517332	1
## 2497	90	136.635261	285.616121880	316.20792	243.18426653	1
## 2498	46	86.533513	277.910861963	316.20792	237.50728168	1
## 2499	25	32.603311	114.046813254	32.32174	73.65231549	1
## 2500	7	14.649655	92.155973889	32.32174	54.41291051	1
## 2501	13	12.695946	91.808459680	32.32174	53.11208677	1
## 2502	3	7.173840	112.979403381	32.32174	74.36571836	1
## 2503	5	7.646847	103.516587838	32.32174	69.36463249	1
## 2504	18	20.670331	100.032359753	32.32174	70.94905657	1
## 2505	65	89.382320	121.152285393	32.32174	95.17531374	1
## 2506	188	261.593425	166.856803982	316.20792	137.82388431	1
## 2507	351	379.389696	142.026732946	316.20792	112.15549600	1
## 2508	162	179.619546	163.980766102	316.20792	140.69295738	1
## 2509	75	136.462192	149.669621982	316.20792	118.15937827	1
## 2510	72	138.469180	176.689911162	316.20792	144.36925284	1
## 2511	103	145.221422	191.760670507	316.20792	160.76310595	1
## 2512	129	140.375830	192.669034168	316.20792	158.97931226	1
## 2513	107	138.161027	208.492310146	316.20792	175.08377184	1
## 2514	127	144.249627	213.267775596	316.20792	180.67183311	1
## 2515	192	271.485805	259.273096078	316.20792	214.32004394	1
## 2516	411	478.853319	245.814991813	316.20792	206.24910578	1
## 2517	421	427.946137	237.435439182	316.20792	205.46340702	1
## 2518	276	283.835602	216.549638808	316.20792	185.83749658	1
## 2519	168	220.433436	224.540042053	316.20792	193.14220259	1
## 2520	122	155.623432	230.518683830	316.20792	201.22056690	1
## 2521	112	132.628983	222.033701423	175.93855	188.25845744	1
## 2522	52	73.561445	199.362511129	175.93855	167.66584490	1
## 2523	33	31.524009	22.063716121	32.32174	-10.04028754	1
## 2524	7	10.853318	10.945381075	32.32174	-20.31072561	1
## 2525	2	7.177017	18.432423082	32.32174	-12.81244318	1
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## 2527	9	7.825065	13.292729813	32.32174	-15.00451693	1
## 2528	15	16.242706	35.545881380	32.32174	4.53323211	1
## 2529	64	75.981745	48.380591110	32.32174	17.18068655	1
## 2530	237	331.004791	58.952700495	175.93855	30.69826380	1
## 2531	396	411.799007	182.120794922	316.20792	132.38590854	1
## 2532	197	221.864305	215.970601324	316.20792	167.78139473	1

## 2533	131	156.496376	190.813806102	316.20792	149.79797061	1
## 2534	118	162.601246	198.300848109	316.20792	157.29625304	1
## 2535	145	185.567433	280.618341836	316.20792	226.85313396	1
## 2536	177	189.906911	288.105383843	316.20792	234.35141639	1
## 2537	148	181.555499	326.226185094	316.20792	268.10441628	1
## 2538	145	188.336213	347.173495774	316.20792	297.02903051	1
## 2539	255	331.606026	354.660537781	316.20792	304.52731295	1
## 2540	432	478.338800	352.883475699	316.20792	302.47654658	1
## 2541	441	487.582216	376.514102035	316.20792	319.80559420	1
## 2542	383	444.918657	366.123416373	316.20792	313.86163669	1
## 2543	225	303.974461	365.249357162	316.20792	317.36961605	1
## 2544	172	202.718533	361.062575460	316.20792	310.33953843	1
## 2545	117	150.113887	345.298071263	316.20792	297.60316041	1
## 2546	93	120.781361	350.403227947	316.20792	301.76473267	1
## 2547	44	43.939804	160.374552177	32.32174	112.88937121	1
## 2548	26	23.646080	149.482188761	32.32174	107.13834271	1
## 2549	13	17.062957	160.513859796	32.32174	114.92678086	1
## 2550	7	10.258522	135.989667791	32.32174	98.37904727	1
## 2551	6	8.151428	130.746829036	32.32174	94.70810068	1
## 2552	14	16.588570	134.142081190	32.32174	96.57424115	1
## 2553	75	79.124705	127.443543748	32.32174	90.51010345	1
## 2554	198	237.042424	163.078740071	175.93855	126.87229175	1
## 2555	365	341.104495	158.588417949	175.93855	122.91195163	1
## 2556	196	214.936774	175.037707107	175.93855	143.02837295	1
## 2557	98	168.797157	192.089655098	175.93855	151.07534444	1
## 2558	133	177.937365	210.799861119	175.93855	170.32229036	1
## 2559	199	229.498085	228.755867025	175.93855	189.85927722	1
## 2560	177	247.171047	255.906026621	175.93855	211.76650170	1
## 2561	228	214.130253	268.037554297	316.20792	221.73137149	1
## 2562	235	259.505629	292.925113548	316.20792	244.50871879	1
## 2563	294	351.141091	303.826914167	316.20792	256.59980703	1
## 2564	481	593.282696	297.778857236	316.20792	256.19152697	1
## 2565	452	550.906626	316.115572436	316.20792	271.32939923	1
## 2566	324	354.500472	305.274227081	175.93855	262.60574515	1
## 2567	204	250.624098	299.978686782	175.93855	261.90807156	1
## 2568	184	191.820260	265.053142669	175.93855	228.31005249	1
## 2569	137	141.985806	290.671718269	175.93855	255.41258552	1
## 2570	99	100.635066	281.510759665	175.93855	247.34240955	1
## 2571	33	28.915949	57.128742055	32.32174	24.43013976	1
## 2572	24	20.022361	85.509912273	32.32174	50.47026836	1
## 2573	9	8.133425	93.751154395	32.32174	57.67850986	1
## 2574	2	5.442190	101.238196403	32.32174	65.17679229	1
## 2575	3	5.350979	102.625054054	32.32174	67.81529624	1
## 2576	16	18.088895	109.107057068	32.32174	75.70008412	1
## 2577	49	67.885804	117.599138068	32.32174	82.81186111	1
## 2578	180	237.869105	123.406848368	175.93855	95.58793506	1
## 2579	346	351.633365	130.390529137	175.93855	103.27979393	1
## 2580	195	195.193879	119.273249136	175.93855	98.94062550	1
## 2581	136	139.893340	130.319830418	175.93855	104.69075560	1
## 2582	106	109.344955	121.438600031	175.93855	104.09798585	1
## 2583	80	106.901780	105.821615025	175.93855	90.95127193	1
## 2584	40	57.828096	90.004809202	175.93855	74.92839692	1
## 2585	36	44.112952	98.496890202	175.93855	82.04017391	1
## 2586	75	58.713200	104.978893216	175.93855	89.92496179	1

## 2587	62	89.960595	111.460896230	175.93855	97.80974967	1
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## 2589	51	68.060434	108.834642184	175.93855	94.65108858	1
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## 2591	47	58.451942	137.068119011	175.93855	122.26655453	1
## 2592	28	40.172328	124.441383734	175.93855	112.57619834	1
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## 2594	17	30.316668	144.259774234	175.93855	132.91551164	1
## 2595	18	25.147470	-43.900158400	32.32174	-51.23670930	1
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## 2600	7	8.485428	-5.560890449	32.32174	-2.25528178	1
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## 2602	19	42.086998	12.177471665	175.93855	11.67823125	1
## 2603	47	67.822887	28.699907606	175.93855	18.27553067	1
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## 2605	129	179.620056	87.239135924	175.93855	73.57155568	1
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## 2609	391	354.739627	190.021304369	316.20792	158.09886417	1
## 2610	397	379.676624	214.910547102	316.20792	180.87556405	1
## 2611	426	400.638672	220.638350002	316.20792	189.05039287	1
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## 2618	117	114.893532	218.661715893	316.20792	201.17319065	1
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## 2627	80	127.318616	89.931718196	316.20792	65.45951314	1
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## 2629	289	304.186861	162.656525964	316.20792	134.31795828	1
## 2630	317	363.800006	215.916927595	316.20792	184.21949844	1
## 2631	388	394.399676	231.263393065	316.20792	195.90101297	1
## 2632	441	444.252403	260.572433403	316.20792	222.88401322	1
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## 2634	369	414.066903	256.714768817	316.20792	221.85221800	1
## 2635	359	405.984877	318.590477509	316.20792	275.64630190	1
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## 2643	12	19.248570	13.322732132	32.32174	-4.02805931	1
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## 2645	10	12.417666	39.013225269	32.32174	4.78908361	1
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## 2647	5	8.812951	44.950231867	32.32174	20.68727890	1
## 2648	17	19.020488	34.889237439	32.32174	13.31683237	1
## 2649	66	81.089696	54.074970403	32.32174	30.72760077	1
## 2650	196	245.330648	68.919758118	316.20792	42.60204431	1
## 2651	353	419.190865	116.554447292	316.20792	79.87635885	1
## 2652	174	231.859913	147.291352021	316.20792	107.60994913	1
## 2653	125	159.510564	190.084473235	316.20792	145.47213746	1
## 2654	147	164.179818	197.571515242	316.20792	152.97041990	1
## 2655	188	188.610469	209.199681681	316.20792	163.12886611	1
## 2656	203	213.492009	247.772826108	316.20792	199.66091516	1
## 2657	146	199.298264	285.418100416	316.20792	235.25009256	1
## 2658	175	202.562832	305.384184307	316.20792	254.01406852	1
## 2659	239	296.287390	296.803755814	316.20792	244.42093903	1
## 2660	521	548.049372	303.285758829	316.20792	252.30572691	1
## 2661	499	501.576329	299.298797944	316.20792	248.15181037	1
## 2662	382	406.047176	300.434816718	316.20792	250.88677883	1
## 2663	237	291.924546	298.328063401	316.20792	250.26250148	1
## 2664	190	211.836950	275.933862798	316.20792	231.21667293	1
## 2665	106	152.950138	269.486164234	316.20792	225.05607072	1
## 2666	62	97.923356	259.823527874	316.20792	217.17882377	1
## 2667	27	41.994087	119.209341887	32.32174	73.55916543	1
## 2668	21	22.459377	117.856788686	32.32174	72.64484714	1
## 2669	26	18.403397	86.451006353	32.32174	43.95285787	1
## 2670	21	14.346425	76.285008756	32.32174	36.26918736	1
## 2671	6	8.799482	100.167529014	32.32174	59.43304011	1
## 2672	16	19.466517	90.755731533	32.32174	51.45932865	1
## 2673	80	92.521577	103.590441263	32.32174	64.10678309	1
## 2674	270	332.949093	129.232200629	316.20792	86.59408945	1
## 2675	449	405.249955	136.719242636	316.20792	94.09237188	1
## 2676	199	201.789818	184.858348091	316.20792	137.10437963	1
## 2677	120	150.399063	207.034330785	316.20792	157.97150577	1
## 2678	172	184.350485	229.713674716	316.20792	178.64505547	1
## 2679	186	184.569041	252.391335164	316.20792	199.31925260	1
## 2680	176	188.807130	294.179417386	316.20792	237.56794637	1
## 2681	155	182.442503	278.337744315	316.20792	226.16094545	1
## 2682	153	179.152054	273.847422193	316.20792	222.20060534	1
## 2683	291	283.182242	288.467521844	316.20792	235.81476188	1
## 2684	521	512.681483	282.972160729	316.20792	232.24092722	1
## 2685	528	502.830815	283.128007758	316.20792	230.74652705	1
## 2686	328	330.819510	260.733807154	316.20792	211.70069850	1
## 2687	234	274.087042	267.215810169	316.20792	219.58548638	1
## 2688	195	205.190261	256.548134817	316.20792	212.09474488	1
## 2689	148	151.626382	243.948605398	316.20792	209.97890682	1
## 2690	78	93.898465	251.939008642	316.20792	217.28361283	1
## 2691	27	36.282737	81.416374187	32.32174	39.54532537	1
## 2692	17	20.643725	89.405093950	32.32174	46.85067878	1
## 2693	5	11.663105	79.993296468	32.32174	38.87696733	1
## 2694	7	9.659388	86.304368005	32.32174	51.45946485	1

## 2695	6	8.974230	75.356964436	32.32174	36.49131714	1
## 2696	17	17.668806	81.666352491	32.32174	49.07446208	1
## 2697	84	85.477385	90.832726206	32.32174	51.29495299	1
## 2698	246	262.604460	116.252536034	316.20792	81.45259458	1
## 2699	444	374.717295	124.493778156	316.20792	88.66083607	1
## 2700	181	191.951168	139.336882389	316.20792	100.53592702	1
## 2701	92	106.710397	161.461847022	316.20792	124.37567875	1
## 2702	156	151.873264	185.847728517	316.20792	147.34595507	1
## 2703	173	178.081200	201.617647825	316.20792	154.23264802	1
## 2704	150	167.162871	202.751983116	316.20792	156.96826390	1
## 2705	148	175.268456	230.526472410	316.20792	182.88809753	1
## 2706	138	178.339307	267.268743848	316.20792	212.91852921	1
## 2707	218	257.865612	261.948736219	316.20792	210.57695972	1
## 2708	521	402.478010	225.649739428	316.20792	191.37738688	1
## 2709	412	399.092610	233.136781435	316.20792	198.87566931	1
## 2710	260	293.730454	241.574050803	316.20792	197.09818001	1
## 2711	218	236.457550	244.615144393	316.20792	198.74691359	1
## 2712	145	164.607128	234.449146796	316.20792	191.06324307	1
## 2713	129	115.213425	241.011057211	316.20792	203.54927609	1
## 2714	78	93.371704	248.999776973	316.20792	210.85462950	1
## 2715	54	50.961671	106.425476017	32.32174	59.10408684	1
## 2716	20	19.426683	95.837708066	32.32174	56.21459048	1
## 2717	21	17.734526	104.329789066	32.32174	63.32636746	1
## 2718	3	11.854012	127.710631569	32.32174	86.68314923	1
## 2719	9	11.434057	118.800511842	32.32174	78.51650875	1
## 2720	13	17.606146	125.785876094	32.32174	86.20772020	1
## 2721	86	88.855305	151.427635460	32.32174	108.69502657	1
## 2722	215	280.949973	158.663838590	316.20792	116.28977351	1
## 2723	398	395.531188	172.000226075	316.20792	128.74429892	1
## 2724	183	176.784367	142.000179412	316.20792	111.34939600	1
## 2725	54	110.999173	150.412353011	316.20792	113.85992785	1
## 2726	84	108.405995	168.948889029	316.20792	131.87396118	1
## 2727	107	145.099536	186.982063809	316.20792	150.08157095	1
## 2728	121	127.646031	184.173811920	316.20792	146.77406154	1
## 2729	142	160.411270	193.340185635	316.20792	148.99455244	1
## 2730	163	178.756727	243.967863065	316.20792	195.65584694	1
## 2731	270	272.695584	218.609563544	316.20792	174.79690915	1
## 2732	455	528.881683	302.212053001	316.20792	251.77254377	1
## 2733	530	511.239890	309.699095008	316.20792	259.27082620	1
## 2734	404	434.830019	319.171347753	316.20792	270.61197182	1
## 2735	269	316.752678	313.703820933	316.20792	268.68073824	1
## 2736	194	227.182690	307.203420826	316.20792	265.49340902	1
## 2737	153	169.286049	311.554377394	316.20792	269.94502222	1
## 2738	110	133.343489	331.044934343	316.20792	290.54517569	1
## 2739	48	42.206711	156.259578559	32.32174	111.87245592	1
## 2740	31	28.774039	141.371926419	32.32174	103.05157513	1
## 2741	10	11.198367	97.632937910	32.32174	62.68420384	1
## 2742	5	6.826609	113.708736248	32.32174	78.69155150	1
## 2743	6	8.113594	139.627485304	32.32174	102.72564185	1
## 2744	25	23.186394	155.954122520	32.32174	118.63652500	1
## 2745	71	96.649152	182.073092310	32.32174	139.28700644	1
## 2746	240	311.331860	200.530775971	316.20792	158.63106428	1
## 2747	421	420.955560	222.256098971	316.20792	176.71849385	1
## 2748	230	267.424435	230.246502215	316.20792	184.02319985	1

## 2749	156	183.337469	240.618790783	316.20792	194.66461603	1
## 2750	157	197.590859	263.219282358	316.20792	216.66819024	1
## 2751	223	238.007109	262.222571204	316.20792	215.97063143	1
## 2752	308	260.662106	269.960452088	316.20792	223.37244935	1
## 2753	248	231.608839	294.069343894	316.20792	244.79594169	1
## 2754	252	235.163548	276.625507989	316.20792	237.33735520	1
## 2755	299	311.345377	274.848445906	316.20792	235.28658884	1
## 2756	508	457.324501	270.359807267	316.20792	231.32560131	1
## 2757	439	422.849808	272.393123337	316.20792	227.43021811	1
## 2758	270	265.997047	246.361159540	175.93855	205.53064934	1
## 2759	194	211.429117	273.407599532	175.93855	233.38377240	1
## 2760	195	182.577552	267.912238417	175.93855	229.80993774	1
## 2761	146	138.066747	247.729620098	175.93855	212.86661195	1
## 2762	113	110.163744	266.970393214	175.93855	239.49449958	1
## 2763	106	85.078311	93.856298358	32.32174	74.85915146	1
## 2764	74	71.681528	99.836623617	32.32174	82.93686836	1
## 2765	65	55.482414	108.328704617	32.32174	90.04864534	1
## 2766	17	22.493508	109.463039908	32.32174	92.78426122	1
## 2767	7	12.902702	117.453443153	32.32174	100.08896722	1
## 2768	7	11.869775	129.384094967	32.32174	101.24640629	1
## 2769	21	26.770788	120.422957180	32.32174	96.05239140	1
## 2770	48	88.281576	138.508833503	175.93855	111.28672817	1
## 2771	91	113.942295	144.487475280	175.93855	119.36509248	1
## 2772	156	193.081925	171.307943642	175.93855	142.69880598	1
## 2773	279	303.893641	206.466329458	175.93855	174.63804921	1
## 2774	321	364.996879	223.719153310	316.20792	191.49245142	1
## 2775	416	414.067526	237.558902033	316.20792	203.75340041	1
## 2776	455	467.219141	256.016585694	316.20792	223.09745825	1
## 2777	452	468.980948	262.247749831	316.20792	231.07871064	1
## 2778	499	521.508626	278.495534690	316.20792	248.31961829	1
## 2779	464	467.063779	292.836961168	316.20792	260.38763826	1
## 2780	407	406.115298	280.210225892	316.20792	250.69728207	1
## 2781	371	383.811913	281.847922420	316.20792	253.23932152	1
## 2782	387	356.737740	289.334964427	316.20792	260.73760395	1
## 2783	224	203.619303	225.587201804	175.93855	203.49481803	1
## 2784	177	163.990183	233.074243811	175.93855	210.99310046	1
## 2785	143	134.744062	229.010114053	175.93855	208.16856100	1
## 2786	125	106.923511	236.497156060	175.93855	215.66684344	1
## 2787	96	81.485068	58.363850994	32.32174	38.87392067	1
## 2788	59	59.930414	61.681934274	32.32174	42.06943823	1
## 2789	50	52.331220	51.489785864	32.32174	32.74251922	1
## 2790	23	21.822799	42.077988383	32.32174	24.76880776	1
## 2791	17	14.100118	62.824423202	32.32174	44.88599128	1
## 2792	10	11.361338	56.801233519	32.32174	39.86183713	1
## 2793	13	16.692507	62.608943819	32.32174	52.63791109	1
## 2794	33	67.960245	86.994825315	175.93855	75.60818741	1
## 2795	59	108.842584	101.083729433	175.93855	87.77331930	1
## 2796	141	179.893387	125.469610929	175.93855	110.74359562	1
## 2797	264	284.065852	159.700126625	175.93855	141.73996721	1
## 2798	250	248.223729	119.522360874	175.93855	99.62379617	1
## 2799	281	280.321478	142.228910662	175.93855	127.87186402	1
## 2800	332	331.264650	187.508920369	316.20792	169.38398651	1
## 2801	238	286.689419	182.941429373	316.20792	166.75302349	1
## 2802	266	289.429261	179.829637064	316.20792	166.51525159	1

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## 2803    214 265.413158 190.582634927 316.20792 172.75755317    1
## 2804    196 212.365168 171.126382428 175.93855 153.88158536    1
## 2805    159 181.068467 170.001484338 175.93855 157.48602923    1
## 2806    178 176.905861 173.319567619 175.93855 160.68154679    1
## 2807    121 133.007168 183.467168122 175.93855 173.06267597    1
## 2808    105 112.455057 190.954210129 175.93855 180.56095840    1
## 2809    100 105.521925 198.441252136 175.93855 188.05924084    1
## 2810    146 116.864916 221.923075717 175.93855 199.53950179    1
## 2811    177 94.899930 63.440287884 32.32174 29.09370997    1
## 2812    114 63.045045 70.927329891 32.32174 36.59199240    1
## 2813     35 22.662333 61.344600933 32.32174 33.31599059    1
## 2814     16 14.213224 69.002574417 32.32174 36.11656338    1
## 2815     17 13.372570 76.992977662 32.32174 43.42126938    1
## 2816     20 22.708124 82.297326724 32.32174 56.39091977    1
## 2817     62 103.735797 66.653135860 32.32174 35.66968771    1
## 2818    209 253.128339 95.338901544 175.93855 64.57134845    1
## 2819    371 456.868202 117.965543932 175.93855 88.21817115    1
## 2820    172 212.687658 132.306970410 316.20792 100.28619112    1
## 2821    108 158.856492 150.487664380 316.20792 118.08346498    1
## 2822    130 174.674481 181.448202130 316.20792 138.14607262    1
## 2823    187 212.288765 208.217652431 316.20792 164.45241170    1
## 2824    170 209.420652 213.522001493 316.20792 177.42206209    1
## 2825    181 213.228892 229.041081923 316.20792 184.40521955    1
## 2826    155 242.282893 259.553298588 316.20792 213.87852284    1
## 2827    269 313.759176 267.543701832 316.20792 221.18322884    1
## 2828    537 561.481254 265.687787394 316.20792 220.46248698    1
## 2829    518 538.576806 265.646152215 316.20792 228.28231796    1
## 2830    314 354.205675 257.439214543 316.20792 222.79826213    1
## 2831    218 286.277866 264.926256550 316.20792 230.29654456    1
## 2832    232 234.391118 257.222680115 316.20792 224.61891230    1
## 2833    125 154.655249 262.950483015 316.20792 232.79374112    1
## 2834     64 87.251589 239.905801900 316.20792 208.09205492    1
## 2835     16 31.326543 68.207196976 32.32174 35.43798256    1
## 2836     14 14.690179 87.245410748 32.32174 53.25908688    1
## 2837      5 9.965728 94.732452755 32.32174 60.75736931    1
## 2838      2 7.768942 87.503348218 32.32174 47.31228990    1
## 2839      4 6.476873 77.086511744 32.32174 39.72508389    1
## 2840     14 22.051500 83.065153521 32.32174 47.80344820    1
## 2841    109 107.729764 76.116832246 32.32174 47.76704464    1
## 2842    265 277.986636 103.717651536 316.20792 72.45396570    1
## 2843    459 437.271854 129.108572025 316.20792 95.03773657    1
## 2844    186 205.145789 160.599676869 316.20792 122.48128592    1
## 2845    127 161.010172 199.674499051 316.20792 158.82040594    1
## 2846    140 182.750708 221.348803989 316.20792 179.88046110    1
## 2847    217 212.097791 246.287381301 316.20792 199.68518282    1
## 2848    194 200.295095 268.263543178 316.20792 217.67614788    1
## 2849    158 182.327543 274.243868437 316.20792 225.75386478    1
## 2850    154 178.916684 280.475032574 316.20792 233.73511717    1
## 2851    271 329.894226 304.581185852 316.20792 249.22798727    1
## 2852     517 594.143805 306.218882381 316.20792 251.77002672    1
## 2853     544 568.041422 326.211117086 316.20792 272.17725117    1
## 2854     365 418.699226 306.954685403 316.20792 256.17744444    1
## 2855     290 320.352410 296.988508623 316.20792 251.36993500    1
## 2856     225 211.463410 301.219551775 316.20792 257.54663226    1

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## 2857	113	145.992141	292.363417157	316.20792	252.66584136	1
## 2858	62	99.309806	275.316884277	316.20792	238.76918481	1
## 2859	27	31.468234	67.083528132	32.32174	43.80869465	1
## 2860	7	10.619156	59.681808636	32.32174	35.06197229	1
## 2861	4	7.302568	67.168850643	32.32174	42.56025472	1
## 2862	1	4.864567	42.019273895	32.32174	16.06864234	1
## 2863	3	3.849307	21.282276278	32.32174	2.29151857	1
## 2864	9	11.615680	38.389264421	32.32174	19.55560928	1
## 2865	21	35.725479	27.772607130	32.32174	9.09224219	1
## 2866	52	79.743132	34.756287900	175.93855	16.78410105	1
## 2867	79	97.431584	42.746691144	175.93855	24.08880705	1
## 2868	40	61.516035	49.730371914	175.93855	31.78066592	1
## 2869	31	67.397235	57.640867758	175.93855	34.48412678	1
## 2870	72	119.846394	109.418364845	175.93855	74.41795769	1
## 2871	124	149.847439	171.624419897	175.93855	138.97659221	1
## 2872	143	156.010526	193.098904019	175.93855	157.16048629	1
## 2873	107	155.386984	230.638120114	316.20792	186.50517006	1
## 2874	129	171.849792	232.777494398	175.93855	188.85428049	1
## 2875	195	257.912631	260.127474811	316.20792	213.63766605	1
## 2876	410	360.088244	177.391942357	175.93855	143.02592164	1
## 2877	396	365.709658	199.567925051	175.93855	163.89304777	1
## 2878	296	289.457934	228.703295384	175.93855	189.64313544	1
## 2879	191	208.231446	220.999718949	175.93855	183.96550318	1
## 2880	150	159.423689	225.722482856	175.93855	192.52683745	1
## 2881	89	112.893778	228.365218378	175.93855	194.68237145	1
## 2882	57	77.813143	230.002914906	175.93855	197.22441090	1
## 2883	27	33.800501	48.457992298	32.32174	16.54489067	1
## 2884	10	16.964877	39.046194817	32.32174	8.57117922	1
## 2885	5	8.697308	58.086092072	32.32174	26.39163612	1
## 2886	4	7.060471	66.074811834	32.32174	33.69698953	1
## 2887	7	7.182589	73.561853841	32.32174	41.19527197	1
## 2888	30	23.285763	81.048895848	32.32174	48.69355440	1
## 2889	89	91.504717	88.535937855	32.32174	56.19183683	1
## 2890	271	300.870475	125.400861235	175.93855	90.42780668	1
## 2891	440	447.808066	162.265784615	175.93855	124.66377652	1
## 2892	184	236.760664	195.214271629	175.93855	154.49986958	1
## 2893	128	190.139617	225.449498603	316.20792	182.42638889	1
## 2894	148	195.545260	248.179860595	316.20792	200.12731301	1
## 2895	196	219.550613	258.578299976	316.20792	212.41197768	1
## 2896	192	231.438823	284.523599762	316.20792	231.82954653	1
## 2897	154	217.759996	294.169522511	316.20792	244.40360473	1
## 2898	147	225.467883	312.678224233	316.20792	260.77503699	1
## 2899	269	350.907487	329.178531452	316.20792	277.91883272	1
## 2900	533	587.036767	325.894752621	316.20792	276.44750082	1
## 2901	520	555.857082	331.622555521	316.20792	284.62232964	1
## 2902	361	414.069916	327.835415453	316.20792	283.34457418	1
## 2903	258	285.832852	309.359334698	316.20792	268.69797500	1
## 2904	180	205.281768	312.928256856	316.20792	271.79702806	1
## 2905	165	169.303514	307.936256979	175.93855	268.02961696	1
## 2906	115	118.865301	305.154155903	175.93855	266.36535605	1
## 2907	56	53.331287	119.971470102	32.32174	82.83209560	1
## 2908	32	27.909516	75.981642715	32.32174	42.56118882	1
## 2909	16	14.407739	76.614300251	32.32174	45.48973371	1
## 2910	9	7.341604	58.362907561	32.32174	29.10342153	1

## 2911	1	6.286313	65.849949568	32.32174	36.60170397	1
## 2912	16	19.190606	45.388658076	32.32174	18.11224161	1
## 2913	82	91.234133	58.474206684	32.32174	30.66323153	1
## 2914	222	302.663651	73.941640615	175.93855	46.55093164	1
## 2915	450	434.296093	102.598516959	175.93855	67.87872165	1
## 2916	188	217.769852	144.386599181	175.93855	106.12741543	1
## 2917	127	155.946917	214.124069946	316.20792	176.29512364	1
## 2918	165	168.904252	221.611111953	316.20792	183.79340607	1
## 2919	246	246.298328	237.128508901	316.20792	190.77721095	1
## 2920	253	252.021880	269.852307850	316.20792	222.35301701	1
## 2921	213	233.744664	285.198773320	316.20792	234.03453153	1
## 2922	260	256.844571	296.100573939	316.20792	246.12561977	1
## 2923	344	372.712914	296.905217996	316.20792	250.28772466	1
## 2924	553	566.410680	300.302153633	316.20792	252.15321771	1
## 2925	470	434.178128	266.213055644	316.20792	235.05679506	1
## 2926	292	354.144192	273.700097651	316.20792	242.55507749	1
## 2927	190	255.198108	283.265057955	316.20792	244.59662091	1
## 2928	152	165.443622	237.567009521	175.93855	202.02963492	1
## 2929	151	139.606907	229.663612270	175.93855	193.47584159	1
## 2930	120	110.978442	207.693920547	175.93855	175.56646111	1
## 2931	86	81.014642	25.967885595	32.32174	7.03727443	1
## 2932	58	61.042806	32.953249847	32.32174	14.72848588	1
## 2933	52	52.245416	40.189452977	32.32174	22.32323282	1
## 2934	18	23.424275	58.725988994	32.32174	40.33726616	1
## 2935	5	10.310223	49.565030390	32.32174	32.26709019	1
## 2936	7	13.949187	125.929459035	32.32174	102.81362671	1
## 2937	13	24.581298	81.187115015	32.32174	62.83211345	1
## 2938	40	95.375749	144.491971664	175.93855	123.63590997	1
## 2939	115	163.217878	182.412952098	316.20792	154.51274878	1
## 2940	218	238.283467	203.887436219	316.20792	172.69664286	1
## 2941	298	332.729325	217.474662582	316.20792	185.05470377	1
## 2942	347	406.233864	233.195902438	316.20792	207.10441453	1
## 2943	373	430.694392	262.277287663	316.20792	229.56865262	1
## 2944	436	478.406205	282.322223911	316.20792	247.00260407	1
## 2945	378	409.392923	284.440524518	316.20792	265.82948045	1
## 2946	378	439.569526	290.163250281	316.20792	255.88329483	1
## 2947	342	418.084443	296.645253296	316.20792	263.76808271	1
## 2948	354	393.806498	294.366513458	316.20792	261.91024536	1
## 2949	289	374.661911	307.478212879	316.20792	276.10448378	1
## 2950	267	310.798112	296.358194350	316.20792	265.83469313	1
## 2951	219	257.670821	302.840197365	316.20792	273.71948101	1
## 2952	182	195.313675	292.726901311	316.20792	263.06253749	1
## 2953	120	160.236714	299.710582081	316.20792	270.75439635	1
## 2954	119	130.671619	271.893228363	316.20792	247.88812548	1
## 2955	100	101.496238	98.011930493	32.32174	80.70542107	1
## 2956	64	82.021759	118.428674079	32.32174	102.24909360	1
## 2957	59	59.983025	98.217166420	32.32174	77.73189709	1
## 2958	31	28.433020	81.474173961	32.32174	60.76550303	1
## 2959	10	11.417355	53.655136760	32.32174	37.89987957	1
## 2960	5	9.732682	76.361686549	32.32174	66.14794741	1
## 2961	6	18.785625	72.799234545	32.32174	63.13047894	1
## 2962	23	67.534099	86.135622031	175.93855	75.58500436	1
## 2963	86	148.288644	157.099026282	316.20792	131.76460225	1
## 2964	160	219.296625	202.102046299	316.20792	171.72994076	1

## 2965	244	321.036629	220.559729960	316.20792	191.07399859	1
## 2966	340	369.016634	227.294255334	316.20792	198.86167455	1
## 2967	382	402.063989	247.260339226	316.20792	217.62565051	1
## 2968	390	406.430998	248.870201459	316.20792	218.52508887	1
## 2969	366	387.905222	254.096326603	316.20792	226.89284671	1
## 2970	358	382.109421	261.583368610	316.20792	234.39112914	1
## 2971	385	394.689046	277.459346131	316.20792	247.52231573	1
## 2972	351	374.455436	272.123799818	316.20792	253.15097134	1
## 2973	268	328.514865	278.195149153	316.20792	251.92973345	1
## 2974	239	284.428317	246.684363651	316.20792	222.92452019	1
## 2975	174	202.172586	216.004947138	316.20792	192.29988890	1
## 2976	127	158.726628	222.739472512	316.20792	200.08756486	1
## 2977	115	118.441014	200.068282218	316.20792	179.49495232	1
## 2978	50	74.808165	195.856633268	175.93855	177.08074878	1
## 2979	53	54.561254	40.588783231	32.32174	8.35160169	1
## 2980	33	27.367531	27.458686717	32.32174	-1.14517807	1
## 2981	8	10.252949	21.686335912	32.32174	-6.26579672	1
## 2982	7	10.153846	63.049909252	32.32174	30.84644899	1
## 2983	4	7.958189	60.094138173	32.32174	27.94927549	1
## 2984	23	23.794741	78.630674190	32.32174	45.96330882	1
## 2985	89	116.620001	104.523272434	32.32174	68.35415068	1
## 2986	237	315.917324	143.598094616	175.93855	104.69327071	1
## 2987	374	459.446787	179.961340241	316.20792	139.12216957	1
## 2988	178	246.923254	190.082789931	316.20792	149.86005026	1
## 2989	119	173.450191	212.760450380	316.20792	170.53424738	1
## 2990	125	189.194001	245.708937394	316.20792	200.37034043	1
## 2991	195	281.812812	259.322314569	316.20792	214.37164984	1
## 2992	174	225.621544	285.216596295	316.20792	236.76184428	1
## 2993	162	216.372839	285.068902903	316.20792	238.33718162	1
## 2994	199	225.324375	292.555944910	316.20792	245.83546405	1
## 2995	304	378.585647	312.522028802	316.20792	264.59944001	1
## 2996	598	628.358242	314.661403086	316.20792	266.94855044	1
## 2997	524	561.924719	322.902645208	316.20792	274.15679193	1
## 2998	384	439.457927	305.882263140	316.20792	261.90338387	1
## 2999	239	280.117858	288.411221379	316.20792	246.87027925	1
## 3000	156	203.535624	266.944890894	316.20792	228.76732234	1
## 3001	116	152.912381	253.790327050	316.20792	217.62664667	1
## 3002	61	96.458427	255.428023578	316.20792	220.16868612	1
## 3003	18	40.011685	86.917805718	32.32174	53.84777999	1
## 3004	15	29.329668	98.903497686	32.32174	64.22233827	1
## 3005	5	12.843748	103.503609649	32.32174	68.57813437	1
## 3006	4	9.541617	120.835285857	32.32174	84.10251208	1
## 3007	2	7.386125	105.798830962	32.32174	69.43284463	1
## 3008	29	25.449991	98.095254528	32.32174	63.75521237	1
## 3009	112	111.407936	107.713342981	32.32174	74.68666949	1
## 3010	314	314.220154	130.419892769	175.93855	102.93473734	1
## 3011	425	420.056857	179.262180278	316.20792	148.62932973	1
## 3012	205	223.459755	199.228264170	316.20792	167.39330569	1
## 3013	127	167.622788	242.472045079	316.20792	208.03519058	1
## 3014	125	168.856537	237.452210906	316.20792	202.62517841	1
## 3015	217	225.615916	265.426521017	316.20792	231.42117312	1
## 3016	202	222.849738	283.033903350	316.20792	242.23321223	1
## 3017	176	213.295613	297.299444520	316.20792	261.88973187	1
## 3018	180	219.277240	312.144232235	316.20792	273.76417541	1

## 3019	327	374.547486	331.830587909	316.20792	285.05074515	1
## 3020	611	619.004013	327.289247726	316.20792	284.06303063	1
## 3021	550	621.472736	345.876801804	316.20792	299.10443837	1
## 3022	434	456.246355	312.234969856	316.20792	266.66605043	1
## 3023	291	313.077511	263.097295563	316.20792	224.12213271	1
## 3024	203	222.640729	286.002611124	316.20792	249.31509199	1
## 3025	150	172.816906	282.769850354	316.20792	244.87113451	1
## 3026	81	110.291918	280.239643201	316.20792	249.04167873	1
## 3027	38	41.524566	116.877272247	32.32174	84.99378352	1
## 3028	20	24.601774	109.173695812	32.32174	79.31615126	1
## 3029	10	17.057565	122.430175897	32.32174	87.16943154	1
## 3030	3	6.992044	118.997594311	32.32174	79.84931298	1
## 3031	2	5.323963	62.200088850	32.32174	35.67047132	1
## 3032	20	23.111429	65.517117086	32.32174	32.93471924	1
## 3033	99	121.818998	86.263551906	32.32174	53.05190276	1
## 3034	318	348.294748	122.703966405	175.93855	86.15142453	1
## 3035	442	451.336922	120.146553394	175.93855	82.74745061	1
## 3036	203	250.173875	148.371702382	316.20792	111.44698081	1
## 3037	154	185.754602	169.795168443	316.20792	132.60350048	1
## 3038	141	181.795345	191.971151137	316.20792	153.47062662	1
## 3039	226	234.918418	227.327674287	316.20792	188.28667835	1
## 3040	193	227.013757	253.923454584	316.20792	213.36010485	1
## 3041	177	214.642082	256.289200415	316.20792	213.96885486	1
## 3042	179	242.542380	294.635973295	316.20792	252.24126432	1
## 3043	289	343.029349	312.392158385	316.20792	268.90209010	1
## 3044	259	456.395619	298.109903605	316.20792	253.94238171	1
## 3045	274	458.387947	296.383859583	316.20792	248.91898976	1
## 3046	401	402.784089	279.138789451	316.20792	238.40529471	1
## 3047	273	285.921199	254.257700355	316.20792	215.70953199	1
## 3048	234	221.429021	268.323420707	316.20792	232.48989055	1
## 3049	146	153.303084	241.863980981	316.20792	203.19539854	1
## 3050	81	86.364892	202.293951199	175.93855	167.13079212	1
## 3051	44	43.255054	27.910975574	32.32174	0.14101673	1
## 3052	17	21.158296	37.077349288	32.32174	2.36150764	1
## 3053	15	13.263671	24.952291767	32.32174	-7.52177757	1
## 3054	5	8.627602	44.693687594	32.32174	12.98191139	1
## 3055	6	7.178545	30.811074448	32.32174	3.77452516	1
## 3056	29	24.098154	40.559033318	32.32174	10.40333219	1
## 3057	112	105.784849	64.893896752	32.32174	36.34623409	1
## 3058	297	337.439133	80.491201100	175.93855	47.93128411	1
## 3059	421	465.205582	108.092020391	175.93855	72.61820516	1
## 3060	212	212.687658	132.306970410	316.20792	100.28619112	1
## 3061	147	164.083433	170.376753599	316.20792	137.01181660	1
## 3062	179	207.929879	208.921008686	316.20792	165.96999492	1
## 3063	207	225.502972	216.408050693	316.20792	173.46827735	1
## 3064	218	232.693679	241.800026226	316.20792	201.98331787	1
## 3065	191	215.360367	239.191595155	316.20792	201.55196953	1
## 3066	217	241.228027	270.708850812	316.20792	230.63876738	1
## 3067	288	323.459801	269.356297610	316.20792	229.72444909	1
## 3068	594	570.230875	275.838300625	316.20792	237.60923697	1
## 3069	527	530.348611	253.139904473	316.20792	209.44210629	1
## 3070	364	396.240589	263.644402068	316.20792	227.97126460	1
## 3071	276	303.412849	272.810775782	316.20792	230.19175550	1
## 3072	223	208.301347	225.606010601	316.20792	188.20420398	1

## 3073	172	176.743079	228.248746122	316.20792	190.35973798	1
## 3074	103	107.701985	247.315849234	316.20792	215.75471302	1
## 3075	52	41.740681	55.503467027	32.32174	25.91200204	1
## 3076	20	22.162282	64.669840741	32.32174	28.13249294	1
## 3077	11	10.656577	53.075350314	32.32174	25.63014944	1
## 3078	4	6.535953	60.562392322	32.32174	33.12843188	1
## 3079	5	7.077356	66.873463859	32.32174	45.71092940	1
## 3080	25	24.112546	76.541515328	32.32174	47.73849129	1
## 3081	82	74.559276	81.344186635	32.32174	60.90107070	1
## 3082	157	188.106647	89.334589880	316.20792	68.20577670	1
## 3083	387	432.979014	99.002641349	316.20792	70.23333859	1
## 3084	233	273.897512	106.489683356	316.20792	77.73162102	1
## 3085	130	159.888020	129.870525859	316.20792	101.08840279	1
## 3086	146	160.018863	137.860929104	316.20792	108.39310879	1
## 3087	223	215.714853	134.800154856	316.20792	105.18271130	1
## 3088	226	201.450182	145.554836201	316.20792	111.42436546	1
## 3089	190	188.650196	153.492537902	316.20792	121.70234446	1
## 3090	198	208.868696	156.759603122	316.20792	127.87048761	1
## 3091	300	267.335435	163.743283891	316.20792	135.56234647	1
## 3092	491	356.152823	170.054355429	316.20792	148.14484400	1
## 3093	398	357.506864	177.541397436	316.20792	155.64312643	1
## 3094	270	282.506459	198.258942916	316.20792	168.18643922	1
## 3095	152	208.559594	204.740945930	316.20792	176.07122710	1
## 3096	154	165.043344	210.521450372	316.20792	181.27278292	1
## 3097	132	145.074613	221.223430174	316.20792	190.48771009	1
## 3098	119	96.274863	209.127261993	316.20792	188.17829561	1
## 3099	102	96.759225	34.426542988	32.32174	19.52113682	1
## 3100	82	78.926051	41.913584995	32.32174	27.01941925	1
## 3101	52	60.189998	49.400627002	32.32174	34.51770168	1
## 3102	35	32.525561	56.887669009	32.32174	42.01598412	1
## 3103	5	11.387629	78.137465066	32.32174	61.93959120	1
## 3104	14	13.563746	84.619468081	32.32174	69.82437908	1
## 3105	11	21.044260	78.847117275	32.32174	64.70376043	1
## 3106	32	92.689297	50.527457364	175.93855	47.96233562	1
## 3107	88	115.592323	77.123237662	316.20792	73.03576212	1
## 3108	100	153.579490	93.647357085	316.20792	79.63241414	1
## 3109	167	204.008623	102.390276962	316.20792	86.64772661	1
## 3110	279	230.584198	109.373957732	316.20792	94.33958547	1
## 3111	279	229.870385	101.169758586	316.20792	94.78615188	1
## 3112	248	230.273485	108.656800593	316.20792	102.28443431	1
## 3113	216	236.138142	137.684429231	316.20792	121.79067576	1
## 3114	294	257.291443	145.674832476	316.20792	129.09538176	1
## 3115	295	264.375426	153.663552238	316.20792	136.40073517	1
## 3116	272	270.681235	180.259332535	316.20792	161.47416167	1
## 3117	304	273.295503	188.249735780	316.20792	168.77886767	1
## 3118	248	215.043219	173.440307559	316.20792	164.55987944	1
## 3119	157	175.574731	180.927349566	316.20792	172.05816187	1
## 3120	59	78.7778720	189.922791803	316.20792	178.97636242	1
## 3121	26	55.029282	196.404794818	316.20792	186.86115030	1
## 3122	44	59.219995	185.284776289	316.20792	176.59135965	1
## 3123	39	63.425166	11.496185979	32.32174	0.10905305	1
## 3124	47	57.709380	20.742467094	32.32174	6.93078909	1
## 3125	50	53.438229	28.731186856	32.32174	14.23614251	1
## 3126	32	30.434563	33.957312000	32.32174	22.60390034	1

## 3127	13	16.894939	41.444354007	32.32174	30.10218277	1
## 3128	14	15.208122	49.011303414	32.32174	42.20171034	1
## 3129	17	22.769182	58.679354884	32.32174	44.22927223	1
## 3130	42	69.750174	66.166396891	316.20792	51.72755466	1
## 3131	70	111.609577	92.762177189	316.20792	76.80098116	1
## 3132	134	191.567939	139.946206668	316.20792	111.29559913	1
## 3133	226	250.552328	146.931570919	316.20792	118.98681058	1
## 3134	322	317.717736	171.317452415	316.20792	141.95708690	1
## 3135	367	392.270690	196.959211781	316.20792	164.44439326	1
## 3136	456	408.517612	204.195414911	316.20792	172.03914020	1
## 3137	437	405.863005	216.023402166	316.20792	185.07374750	1
## 3138	459	420.380445	239.204423852	316.20792	205.55436819	1
## 3139	440	407.706976	240.842120381	316.20792	208.09640764	1
## 3140	392	326.296771	203.443266949	316.20792	186.72040316	1
## 3141	237	287.685920	212.529733263	316.20792	184.33964893	1
## 3142	231	247.036048	206.455525519	316.20792	182.28812038	1
## 3143	191	199.105824	195.284488930	316.20792	174.99095531	1
## 3144	151	146.069533	202.771530937	316.20792	182.48923774	1
## 3145	117	134.672350	227.157412433	316.20792	205.45951406	1
## 3146	69	90.440702	221.514932044	316.20792	196.03624532	1
## 3147	38	34.587843	31.868872918	32.32174	-2.11393602	1
## 3148	14	16.587367	39.857592680	32.32174	5.19141739	1
## 3149	13	12.437132	27.483379764	32.32174	-4.59605072	1
## 3150	4	7.450757	49.485692454	32.32174	15.03816284	1
## 3151	6	7.027524	43.209980411	32.32174	10.11112062	1
## 3152	21	21.012682	67.171353025	32.32174	31.94494886	1
## 3153	104	117.199514	91.055556766	32.32174	55.10815420	1
## 3154	272	329.204836	111.602170768	316.20792	72.34917664	1
## 3155	394	460.070231	153.137730630	316.20792	110.69498234	1
## 3156	194	241.063829	179.403819694	316.20792	137.19489785	1
## 3157	112	162.049505	199.822246762	316.20792	158.73792296	1
## 3158	185	213.563117	229.329424434	316.20792	188.59773171	1
## 3159	209	226.774503	250.803908556	316.20792	206.78162579	1
## 3160	214	227.261052	269.261592217	316.20792	226.12568362	1
## 3161	193	215.439854	276.748634224	316.20792	233.62396605	1
## 3162	165	234.196059	295.934367188	316.20792	251.03473446	1
## 3163	226	239.765990	209.570400103	316.20792	180.92360085	1
## 3164	274	303.267575	191.966094271	316.20792	152.07148446	1
## 3165	453	366.668538	206.640605636	316.20792	180.83467728	1
## 3166	308	319.550047	218.491350050	316.20792	177.39087121	1
## 3167	198	248.729998	221.707397209	316.20792	186.53163994	1
## 3168	177	195.578119	229.194439216	316.20792	194.02992237	1
## 3169	127	124.713410	221.291041965	316.20792	185.47612904	1
## 3170	57	94.847950	228.778083972	316.20792	192.97441147	1
## 3171	31	34.365579	53.388385872	32.32174	26.37178894	1
## 3172	13	16.152086	59.196096172	32.32174	39.14786290	1
## 3173	8	10.880557	66.683138179	32.32174	46.64614533	1
## 3174	4	5.482588	59.332436744	32.32174	34.92679739	1
## 3175	4	5.209962	66.819478751	32.32174	42.42507983	1
## 3176	22	15.909518	68.457175280	32.32174	44.96711927	1
## 3177	49	54.871814	75.944217287	32.32174	52.46540170	1
## 3178	151	223.383821	85.110591001	316.20792	54.68589261	1
## 3179	347	391.710659	93.351833123	316.20792	61.89413410	1
## 3180	207	226.139481	119.193413306	316.20792	87.25760154	1

## 3181	104	110.525752	125.001123605	316.20792	100.03367550	1
## 3182	130	143.439645	153.830614909	316.20792	116.66310846	1
## 3183	153	148.513759	159.638325209	316.20792	129.43918241	1
## 3184	172	174.983860	156.248488165	316.20792	121.72335688	1
## 3185	184	202.203746	218.372297208	316.20792	169.49035405	1
## 3186	210	210.079552	234.448095545	316.20792	185.49770171	1
## 3187	290	307.062829	257.604249984	316.20792	210.59419648	1
## 3188	604	553.566915	257.758413530	316.20792	209.10044373	1
## 3189	480	509.763126	248.546436865	316.20792	204.00289335	1
## 3190	349	408.186879	255.279278757	316.20792	211.79121672	1
## 3191	283	262.622667	228.742670158	316.20792	183.82610180	1
## 3192	174	166.738410	210.717249097	316.20792	171.95919920	1
## 3193	98	109.854590	217.028320635	316.20792	184.54169672	1
## 3194	56	78.811167	224.012001404	316.20792	192.23355559	1
## 3195	23	29.601541	51.308357487	32.32174	19.96598867	1
## 3196	12	15.062261	59.297077249	32.32174	27.27134209	1
## 3197	6	7.332256	45.494371503	32.32174	22.66520099	1
## 3198	9	6.639415	54.237291381	32.32174	29.68051347	1
## 3199	3	5.973906	61.724333388	32.32174	37.17879590	1
## 3200	9	15.634301	58.054768126	32.32174	21.98556416	1
## 3201	101	101.332539	64.033409903	32.32174	30.06392847	1
## 3202	274	325.458001	104.893622006	316.20792	67.36975060	1
## 3203	453	414.902590	119.738409722	316.20792	79.24419414	1
## 3204	202	197.771023	134.412921087	316.20792	108.00738696	1
## 3205	106	106.552309	125.504484843	316.20792	99.84009907	1
## 3206	23	106.772272	118.145509889	316.20792	90.69766975	1
## 3207	54	113.964928	136.678023815	316.20792	96.52195828	1
## 3208	122	154.311359	167.297982175	316.20792	132.23910779	1
## 3209	138	168.035977	190.929663556	316.20792	155.49942505	1
## 3210	167	195.591223	205.442021511	316.20792	162.86973537	1
## 3211	294	325.039988	222.973518535	316.20792	181.27027415	1
## 3212	565	548.932518	238.295116758	316.20792	197.56766275	1
## 3213	489	566.429651	238.450963787	316.20792	196.07326258	1
## 3214	331	295.028037	196.223769162	316.20792	173.24747127	1
## 3215	213	219.510510	203.710811169	316.20792	180.74575370	1
## 3216	85	134.848846	200.596908771	316.20792	168.64544251	1
## 3217	117	143.442964	219.133444788	316.20792	186.65947585	1
## 3218	59	79.872961	203.820000203	316.20792	170.44302442	1
## 3219	29	34.587843	31.868872918	32.32174	-2.11393602	1
## 3220	6	14.652624	31.747330339	32.32174	1.10464981	1
## 3221	15	12.424719	39.234372346	32.32174	8.60293224	1
## 3222	4	7.760151	27.612676063	32.32174	-1.47392940	1
## 3223	5	7.898537	48.359110882	32.32174	18.64325412	1
## 3224	26	23.020973	55.846152889	32.32174	26.14153655	1
## 3225	103	101.002346	67.503208667	32.32174	43.87385349	1
## 3226	257	262.975917	61.730857862	316.20792	38.75323484	1
## 3227	487	496.713866	101.586030972	316.20792	76.44556243	1
## 3228	216	273.887045	116.430818688	316.20792	88.32000597	1
## 3229	130	171.702414	133.458954475	316.20792	106.91412118	1
## 3230	164	154.605234	130.981448865	316.20792	108.11139240	1
## 3231	168	202.490367	172.940462563	316.20792	141.66237653	1
## 3232	183	194.451850	212.198511833	316.20792	182.91661310	1
## 3233	180	184.419868	187.092734672	316.20792	161.96056338	1
## 3234	188	236.703894	192.236613806	316.20792	153.53668386	1

## 3235	302	316.626552	237.013262276	316.20792	195.24238279	1
## 3236	547	485.895199	207.210697820	316.20792	168.53324873	1
## 3237	513	554.352775	277.224103232	316.20792	234.31647128	1
## 3238	410	416.151186	267.308944512	316.20792	226.53633625	1
## 3239	282	316.428184	228.042455151	316.20792	187.40199232	1
## 3240	209	219.267587	235.529497158	316.20792	194.90027475	1
## 3241	79	87.197581	217.160529661	316.20792	192.42943885	1
## 3242	72	79.624012	190.612909016	175.93855	161.11062032	1
## 3243	48	42.330341	14.069997606	32.32174	-16.88620047	1
## 3244	25	20.471270	6.789246570	32.32174	-21.42673724	1
## 3245	8	10.298650	9.935343329	32.32174	-19.46477968	1
## 3246	5	7.504590	15.913985106	32.32174	-11.38641537	1
## 3247	5	7.756145	38.168820156	32.32174	8.15068627	1
## 3248	28	25.161538	45.906701041	32.32174	15.55250419	1
## 3249	117	125.234239	72.502481338	32.32174	40.62593069	1
## 3250	319	367.986792	117.002140117	316.20792	80.78484563	1
## 3251	517	527.769020	153.312684199	316.20792	118.18701750	1
## 3252	234	235.857957	164.569043299	316.20792	124.23574264	1
## 3253	148	174.551597	186.241664755	316.20792	145.29644521	1
## 3254	196	202.065994	206.738315742	316.20792	171.44136288	1
## 3255	255	249.327994	229.919337428	316.20792	191.92198357	1
## 3256	232	228.683448	236.230408965	316.20792	204.50448109	1
## 3257	197	221.908184	258.550117278	316.20792	213.09937945	1
## 3258	242	241.481246	251.375424456	316.20792	214.80333631	1
## 3259	330	359.567757	264.990485114	316.20792	228.80399830	1
## 3260	554	561.533146	277.241926206	316.20792	237.04378403	1
## 3261	473	530.146533	275.014204429	316.20792	232.21332110	1
## 3262	302	352.819757	257.716832671	316.20792	218.41312906	1
## 3263	220	273.771848	265.454713556	316.20792	225.81494698	1
## 3264	195	227.622381	267.092410085	316.20792	228.35698643	1
## 3265	152	175.620859	247.081778287	316.20792	212.64722064	1
## 3266	115	128.405641	253.693651719	316.20792	216.22935843	1
## 3267	98	104.802753	65.762429241	32.32174	42.52716928	1
## 3268	72	78.757215	82.539726151	32.32174	61.21774901	1
## 3269	40	57.353577	91.786007266	32.32174	68.03948505	1
## 3270	19	25.322847	65.475370296	32.32174	44.59377971	1
## 3271	7	9.900161	54.355351767	32.32174	34.32398905	1
## 3272	5	9.917328	61.340716019	32.32174	42.01520050	1
## 3273	28	28.521443	94.287519550	32.32174	71.85194097	1
## 3274	43	84.824189	133.362341732	316.20792	108.19106100	1
## 3275	126	154.568790	160.261662451	316.20792	130.19474999	1
## 3276	225	246.731178	187.281951630	316.20792	156.40462456	1
## 3277	323	352.323820	205.237957536	316.20792	175.94161142	1
## 3278	418	431.703837	236.755213193	316.20792	205.02840926	1
## 3279	493	475.321952	254.460380222	316.20792	224.66186063	1
## 3280	462	477.830369	284.695607196	316.20792	252.58837993	1
## 3281	456	485.555881	304.661691087	316.20792	271.35235589	1
## 3282	506	501.708653	309.790031536	316.20792	270.89870148	1
## 3283	471	506.153133	328.857134649	316.20792	296.29367652	1
## 3284	444	457.667781	328.207763502	316.20792	298.06194288	1
## 3285	444	430.884764	323.215763624	316.20792	294.29453178	1
## 3286	301	351.207882	322.112994256	316.20792	287.35247934	1
## 3287	248	271.954519	278.349138499	316.20792	251.60098212	1
## 3288	227	231.650244	287.595419614	316.20792	258.42271817	1

## 3289	204	195.954736	272.055603481	316.20792	243.94662715	1
## 3290	145	127.691389	253.051694159	316.20792	227.84970850	1
## 3291	131	114.111807	48.307926890	32.32174	23.96225484	1
## 3292	98	78.535258	36.182869368	32.32174	14.07896963	1
## 3293	68	60.121736	43.168233620	32.32174	21.77018108	1
## 3294	33	27.303875	31.546537337	32.32174	11.69331944	1
## 3295	12	13.858938	37.274340236	32.32174	19.86814826	1
## 3296	6	11.722400	46.520621351	32.32174	26.68988431	1
## 3297	18	24.167503	73.116401648	32.32174	51.76331081	1
## 3298	40	68.396675	99.712181946	316.20792	76.83673731	1
## 3299	94	140.853921	157.644903541	316.20792	130.84746591	1
## 3300	189	229.487654	180.071725113	316.20792	151.61812754	1
## 3301	305	341.794863	202.749385561	316.20792	172.29232466	1
## 3302	373	414.719220	253.098389818	316.20792	217.40748259	1
## 3303	401	413.951334	271.385142003	316.20792	241.44925008	1
## 3304	455	451.437096	255.197812406	316.20792	227.57577658	1
## 3305	316	329.396099	215.654988481	316.20792	199.08568829	1
## 3306	331	385.945333	253.697565813	316.20792	228.23679563	1
## 3307	273	353.013593	268.209923768	316.20792	235.60710595	1
## 3308	306	381.641959	290.186085645	316.20792	253.59807101	1
## 3309	358	378.855397	278.843062534	316.20792	245.06734595	1
## 3310	300	329.538705	285.826743304	316.20792	252.75920481	1
## 3311	231	263.255918	278.123166869	316.20792	247.08157255	1
## 3312	136	190.050975	262.583350737	316.20792	232.60548154	1
## 3313	121	144.464303	241.117020252	316.20792	214.50252463	1
## 3314	65	99.327223	241.075385074	316.20792	222.32235560	1
## 3315	41	34.265881	55.649302735	32.32174	25.50231354	1
## 3316	9	17.751540	64.313998694	32.32174	27.91573346	1
## 3317	5	7.383997	69.447416279	32.32174	45.58309350	1
## 3318	4	5.349738	57.825719996	32.32174	35.50623186	1
## 3319	4	6.214415	64.227815610	32.32174	38.78977460	1
## 3320	11	17.987345	71.714857617	32.32174	46.28805703	1
## 3321	96	95.371371	65.942506811	32.32174	41.16743838	1
## 3322	236	295.121523	94.297526217	316.20792	65.56431850	1
## 3323	409	437.397411	129.928700448	316.20792	89.73676199	1
## 3324	167	216.376897	137.919103692	316.20792	97.04146799	1
## 3325	121	165.176150	195.148643233	316.20792	148.36961195	1
## 3326	180	183.980901	221.042924959	316.20792	170.75980639	1
## 3327	204	200.761438	228.529966966	316.20792	178.25808882	1
## 3328	204	207.483275	276.696278279	316.20792	228.84461470	1
## 3329	187	190.501649	271.253618707	316.20792	222.29750704	1
## 3330	176	188.314743	277.484782844	316.20792	230.27875943	1
## 3331	279	304.944063	282.458385628	316.20792	238.74362919	1
## 3332	429	400.523285	272.095305741	316.20792	234.11441982	1
## 3333	453	468.011616	266.492831369	316.20792	218.36482189	1
## 3334	358	385.254621	272.974834383	316.20792	226.24960977	1
## 3335	310	293.780149	243.024750737	316.20792	199.95081162	1
## 3336	188	199.613932	237.252399931	316.20792	194.83019296	1
## 3337	131	134.891049	227.840602450	316.20792	186.85648151	1
## 3338	72	92.510105	246.404344324	316.20792	212.44503298	1
## 3339	35	32.706998	55.093639872	32.32174	22.40939298	1
## 3340	15	16.087892	62.079004124	32.32174	30.10060443	1
## 3341	10	12.177579	70.067723886	32.32174	37.40595784	1
## 3342	2	6.302277	70.198703667	32.32174	40.52743175	1

## 3343	4	6.626064	98.473815672	32.32174	60.32306673	1
## 3344	24	20.975221	87.684543421	32.32174	54.55805670	1
## 3345	112	113.905853	94.166546436	32.32174	62.44284458	1
## 3346	314	341.511176	152.880674003	316.20792	123.73805039	1
## 3347	434	342.081066	143.972237759	316.20792	115.57076250	1
## 3348	138	217.593890	180.583583735	316.20792	143.97257463	1
## 3349	108	153.799811	236.079379854	316.20792	185.42947384	1
## 3350	175	186.004383	275.604861731	316.20792	224.54829043	1
## 3351	170	205.121874	304.964920129	316.20792	248.55866510	1
## 3352	190	209.489507	313.828808467	316.20792	259.78016315	1
## 3353	153	204.505974	321.819211711	316.20792	267.08486915	1
## 3354	188	207.440333	296.620726992	316.20792	255.42842163	1
## 3355	277	309.735399	249.361150178	316.20792	204.55160383	1
## 3356	548	577.220191	284.719356810	316.20792	239.36700814	1
## 3357	564	521.582143	273.824026347	316.20792	227.35750449	1
## 3358	355	384.525864	260.772782189	316.20792	216.53070022	1
## 3359	280	301.123555	266.502268571	316.20792	224.70488163	1
## 3360	189	219.596110	259.300369891	316.20792	218.83432035	1
## 3361	141	117.420849	237.741331848	316.20792	210.03096564	1
## 3362	66	103.652527	286.860609048	316.20792	257.27234202	1
## 3363	35	32.680307	78.226556225	32.32174	50.62826006	1
## 3364	8	12.296528	79.360891516	32.32174	53.36387594	1
## 3365	8	9.903484	55.103077074	32.32174	28.74945273	1
## 3366	9	8.230816	47.421629360	32.32174	12.52532416	1
## 3367	3	6.895432	54.406993612	32.32174	20.21653561	1
## 3368	25	26.015663	94.011327845	32.32174	58.00532770	1
## 3369	117	121.282866	88.238977039	32.32174	52.88470905	1
## 3370	313	373.081778	160.434446957	316.20792	119.12848070	1
## 3371	531	495.664718	184.118829881	316.20792	139.41552496	1
## 3372	234	250.995357	209.883241190	316.20792	166.10836949	1
## 3373	135	189.980728	232.059223884	316.20792	186.97549563	1
## 3374	140	188.311537	273.343944868	316.20792	225.41776584	1
## 3375	210	235.643657	272.743908299	316.20792	224.21405402	1
## 3376	202	239.035309	280.230950306	316.20792	231.71233645	1
## 3377	168	225.752081	288.221353551	316.20792	239.01704245	1
## 3378	182	233.606200	309.694154190	316.20792	257.20158395	1
## 3379	299	364.426231	314.045110759	316.20792	261.65319714	1
## 3380	601	679.150028	320.527113773	316.20792	269.53798502	1
## 3381	517	561.492844	306.695518687	316.20792	257.35797321	1
## 3382	405	452.950809	300.195118580	316.20792	254.17064399	1
## 3383	340	344.137908	308.185521824	316.20792	261.47534999	1
## 3384	236	248.679058	285.791321221	316.20792	242.42952144	1
## 3385	174	186.508248	295.288441213	316.20792	249.15479297	1
## 3386	86	119.361714	286.076464548	316.20792	244.05724259	1
## 3387	45	52.534586	113.874498386	32.32174	71.59674666	1
## 3388	16	24.039159	121.361540393	32.32174	79.09502909	1
## 3389	14	14.013490	100.398571146	32.32174	60.79849575	1
## 3390	4	7.678788	90.735934787	32.32174	52.92124881	1
## 3391	2	7.948481	96.714576564	32.32174	60.99961312	1
## 3392	27	27.634499	104.030687094	32.32174	73.19560520	1
## 3393	98	102.659444	84.998943476	32.32174	55.45608546	1
## 3394	286	271.927356	114.357318392	316.20792	79.46710754	1
## 3395	489	514.152945	156.345221430	316.20792	120.59196239	1
## 3396	216	240.812929	211.788316006	316.20792	165.02213460	1

## 3397	143	185.797130	206.596495312	316.20792	158.37856243	1
## 3398	160	202.975525	242.456379700	316.20792	193.00103773	1
## 3399	194	217.208921	278.870643385	316.20792	224.45731101	1
## 3400	197	206.964713	312.771467848	316.20792	256.88017161	1
## 3401	189	204.654435	320.258509855	316.20792	264.37845404	1
## 3402	141	177.065188	339.325612968	316.20792	289.77342908	1
## 3403	291	354.798154	335.589490961	316.20792	285.52304803	1
## 3404	494	568.390201	350.129683211	316.20792	294.53595944	1
## 3405	478	551.267941	358.370925333	316.20792	301.74420093	1
## 3406	378	447.282036	360.008621862	316.20792	304.28624037	1
## 3407	322	343.483766	320.664563709	316.20792	272.74104352	1
## 3408	223	238.453050	318.056132637	316.20792	272.30969519	1
## 3409	180	186.139810	313.816649393	316.20792	268.25289056	1
## 3410	90	121.114743	322.308730392	316.20792	275.36466755	1
## 3411	69	59.219506	136.422862536	32.32174	89.14882246	1
## 3412	50	38.525684	174.822336960	32.32174	124.44795892	1
## 3413	18	18.466597	168.574459212	32.32174	121.16351778	1
## 3414	12	13.694466	159.111643669	32.32174	116.16243191	1
## 3415	7	11.113867	152.662261623	32.32174	110.00247711	1
## 3416	31	29.095208	171.502338061	32.32174	124.94677294	1
## 3417	81	107.449388	166.883829004	32.32174	125.28843550	1
## 3418	249	332.682655	166.787153673	316.20792	123.89114725	1
## 3419	418	444.148973	179.923720342	316.20792	133.46951160	1
## 3420	227	235.011088	218.998542524	316.20792	169.80863162	1
## 3421	153	174.308221	258.403055940	316.20792	204.72126264	1
## 3422	166	182.438934	266.845173923	316.20792	220.73693485	1
## 3423	243	226.490545	279.678200171	316.20792	233.38503670	1
## 3424	209	253.395972	274.606292893	316.20792	225.01638046	1
## 3425	239	238.204032	295.577415777	316.20792	243.39385097	1
## 3426	356	281.535441	322.676557312	316.20792	268.27370104	1
## 3427	419	374.470112	311.134768429	316.20792	262.79808455	1
## 3428	491	522.938081	307.822100259	316.20792	253.75288192	1
## 3429	399	451.025705	297.432469642	316.20792	253.74019405	1
## 3430	279	268.526838	232.031526124	316.20792	203.41844815	1
## 3431	144	266.779287	257.595061572	316.20792	221.30386196	1
## 3432	151	194.144833	236.803023802	316.20792	198.30961897	1
## 3433	141	171.119155	255.841237574	316.20792	216.13072329	1
## 3434	127	112.766404	235.379946083	316.20792	197.64126093	1
## 3435	94	104.963852	59.503256608	32.32174	34.06831724	1
## 3436	55	69.623646	67.995337608	32.32174	41.18009422	1
## 3437	48	56.232761	56.373641325	32.32174	31.10323259	1
## 3438	15	21.641081	77.623437382	32.32174	51.02683967	1
## 3439	4	9.347690	85.612157144	32.32174	58.33219308	1
## 3440	7	10.367149	92.597521396	32.32174	66.02340453	1
## 3441	19	27.271374	117.485080646	32.32174	88.80075184	1
## 3442	50	77.730674	130.821468132	316.20792	101.25527725	1
## 3443	102	138.986879	154.202310635	316.20792	124.61205902	1
## 3444	177	229.224478	179.593231123	316.20792	147.19582989	1
## 3445	276	321.058650	221.805822226	316.20792	186.58097174	1
## 3446	349	379.545340	229.292864233	316.20792	194.07925418	1
## 3447	358	421.340920	258.600221088	316.20792	221.06290184	1
## 3448	385	411.630194	256.745990132	316.20792	220.34151257	1
## 3449	382	424.031854	278.921972825	316.20792	241.20863871	1
## 3450	374	421.199613	293.038711239	316.20792	255.01637168	1

## 3451	402	445.225871	307.380137717	316.20792	267.08439165	1
## 3452	341	416.439261	309.268673123	316.20792	269.52996658	1
## 3453	385	380.891065	294.682877922	316.20792	257.63999571	1
## 3454	252	290.241756	288.685839052	316.20792	254.25909006	1
## 3455	196	248.494848	296.676242297	316.20792	261.56379606	1
## 3456	201	203.439603	273.831381999	316.20792	239.73827094	1
## 3457	161	169.559418	271.222950927	316.20792	239.30692261	1
## 3458	125	127.259313	261.307792208	316.20792	231.52678758	1
## 3459	83	96.766049	89.609187284	32.32174	58.87271522	1
## 3460	66	71.606399	79.192350809	32.32174	51.28550921	1
## 3461	61	62.211154	85.674353824	32.32174	59.17029709	1
## 3462	26	27.480841	93.161395831	32.32174	66.66857952	1
## 3463	23	16.067210	94.548253482	32.32174	69.30708348	1
## 3464	6	10.707427	90.031780547	32.32174	63.70349487	1
## 3465	15	24.719513	115.449906893	32.32174	93.86178388	1
## 3466	30	58.960296	123.941987892	316.20792	100.97356086	1
## 3467	96	111.995315	130.927352144	316.20792	108.66477231	1
## 3468	152	159.778825	125.656679094	316.20792	103.35122464	1
## 3469	251	264.667127	168.649621125	316.20792	144.08957405	1
## 3470	319	279.091652	177.141702125	316.20792	151.20135103	1
## 3471	402	392.687864	215.211485314	316.20792	187.92697651	1
## 3472	418	410.428984	240.071838708	316.20792	203.12980567	1
## 3473	351	389.977659	253.408226193	316.20792	215.58433109	1
## 3474	376	384.489590	261.146107078	316.20792	222.98614902	1
## 3475	361	381.873847	268.382310207	316.20792	230.58089596	1
## 3476	383	385.881650	275.869352214	316.20792	238.07917839	1
## 3477	328	334.378270	268.667453535	316.20792	232.20861711	1
## 3478	287	306.774651	275.651134304	316.20792	239.90047597	1
## 3479	219	244.797097	265.234297830	316.20792	232.31326997	1
## 3480	229	209.093827	257.530721395	316.20792	226.63563771	1
## 3481	171	154.794928	245.405663874	316.20792	216.75235250	1
## 3482	135	134.627331	253.396067119	316.20792	224.05705850	1
## 3483	103	87.854745	41.176950119	32.32174	16.82167008	1
## 3484	79	75.316820	47.658953133	32.32174	24.70645796	1
## 3485	45	51.746935	56.151034133	32.32174	31.81823495	1
## 3486	18	25.582731	63.638076140	32.32174	39.31651738	1
## 3487	6	11.414261	64.774094914	32.32174	42.05148584	1
## 3488	7	11.345689	69.576766221	32.32174	55.21406525	1
## 3489	16	22.116069	82.662314829	32.32174	67.76505517	1
## 3490	31	75.462563	88.640956605	316.20792	75.84341948	1
## 3491	94	130.775600	114.786077209	316.20792	98.13714942	1
## 3492	128	195.623412	174.398130511	316.20792	146.87008650	1
## 3493	269	316.650438	250.033226289	316.20792	213.09078988	1
## 3494	321	351.909344	265.728315332	316.20792	233.49725214	1
## 3495	366	366.987284	297.722781414	316.20792	260.74722506	1
## 3496	350	361.436089	311.588680949	316.20792	274.65142254	1
## 3497	327	353.555262	334.466162215	316.20792	298.20178074	1
## 3498	311	350.089146	346.224199070	316.20792	304.05757687	1
## 3499	309	356.152935	358.634399919	316.20792	315.56858323	1
## 3500	304	344.107903	350.427462247	316.20792	310.08452740	1
## 3501	249	318.236640	356.909465261	316.20792	317.96931528	1
## 3502	225	260.798947	246.803971824	316.20792	232.15371266	1
## 3503	237	282.444772	302.304264148	316.20792	273.49416398	1
## 3504	149	194.666836	279.684091915	316.20792	249.92892586	1

## 3505	106	142.335734	272.985554473	316.20792	243.86478815	1
## 3506	48	86.618203	251.519223989	316.20792	225.76183124	1
## 3507	29	40.760030	117.410625376	32.32174	74.13596807	1
## 3508	17	19.751996	96.949333884	32.32174	55.64650571	1
## 3509	12	13.053895	86.610721328	32.32174	52.66119225	1
## 3510	4	6.953379	85.987500994	32.32174	56.07270710	1
## 3511	3	7.986277	126.820507239	32.32174	85.80401110	1
## 3512	26	27.665080	134.307549246	32.32174	93.30229353	1
## 3513	109	114.179827	156.483531940	32.32174	114.16941967	1
## 3514	235	291.709339	210.498133686	316.20792	163.78091890	1
## 3515	406	437.509715	245.654836019	316.20792	195.72080955	1
## 3516	175	209.488398	267.830818713	316.20792	216.58793568	1
## 3517	109	158.862199	278.957307396	316.20792	226.93931092	1
## 3518	106	156.561722	315.771212715	316.20792	264.14790636	1
## 3519	162	177.523125	325.519171585	316.20792	270.77671338	1
## 3520	147	163.786062	362.887456203	316.20792	304.81910680	1
## 3521	140	166.025332	372.030017713	316.20792	317.58674143	1
## 3522	175	172.723020	382.281337821	316.20792	324.02197202	1
## 3523	249	284.674761	384.845220986	316.20792	327.50753052	1
## 3524	495	504.050351	345.354043560	316.20792	290.11289959	1
## 3525	417	497.693706	352.337724329	316.20792	297.80475845	1
## 3526	285	350.649602	320.880923935	316.20792	272.08539477	1
## 3527	251	280.642255	328.367965942	316.20792	279.58367720	1
## 3528	210	234.030109	321.166067263	316.20792	273.71311593	1
## 3529	159	181.494403	314.969207576	316.20792	267.45604920	1
## 3530	61	113.079360	295.461937016	316.20792	251.55270698	1
## 3531	34	39.947277	118.835348698	32.32174	74.18034975	1
## 3532	17	19.975305	116.779613442	32.32174	70.58344681	1
## 3533	3	10.060862	133.809432712	32.32174	89.17691461	1
## 3534	6	8.963409	113.849818975	32.32174	70.49452323	1
## 3535	4	8.537430	120.160890513	32.32174	83.07702076	1
## 3536	21	27.318191	119.537670178	32.32174	86.48853561	1
## 3537	128	133.618730	132.874057664	32.32174	98.94306103	1
## 3538	284	350.472263	169.565311040	316.20792	131.94611829	1
## 3539	454	457.807798	183.403376280	316.20792	144.20771469	1
## 3540	207	229.535024	208.292619014	316.20792	166.98441458	1
## 3541	115	165.428068	219.920785452	316.20792	177.14286080	1
## 3542	112	146.483638	279.812566972	316.20792	233.35320410	1
## 3543	169	176.986258	310.167707362	316.20792	259.55463934	1
## 3544	154	161.032676	367.977777014	316.20792	309.35982978	1
## 3545	145	166.265510	376.469858014	316.20792	316.47160676	1
## 3546	152	173.201955	380.291302532	316.20792	319.47354789	1
## 3547	266	286.441620	358.400463166	316.20792	300.23414291	1
## 3548	486	485.973059	365.887505173	316.20792	307.73242534	1
## 3549	309	407.939004	339.936503820	316.20792	296.36537135	1
## 3550	264	308.049124	271.108506081	316.20792	231.83799345	1
## 3551	256	274.584211	280.102264836	316.20792	238.75684141	1
## 3552	190	208.382331	309.661089006	316.20792	259.71210751	1
## 3553	129	159.786738	323.474286999	316.20792	276.58957799	1
## 3554	69	133.376012	364.613172274	316.20792	315.44153670	1
## 3555	42	58.020016	219.986048791	32.32174	164.85971190	1
## 3556	15	25.776339	221.772548075	32.32174	173.25053801	1
## 3557	6	16.116841	219.441106694	32.32174	174.36597366	1
## 3558	4	11.665268	205.939202842	32.32174	160.75947283	1

## 3559	3	13.263689	221.562658004	32.32174	173.98777134	1
## 3560	31	35.183346	233.972858852	32.32174	185.49877770	1
## 3561	113	114.889311	239.951500629	32.32174	193.57714201	1
## 3562	304	354.072843	272.196805588	316.20792	220.73065042	1
## 3563	467	450.407200	284.857845315	316.20792	232.14519227	1
## 3564	225	242.413039	312.458664605	316.20792	256.83211333	1
## 3565	139	192.044055	317.786825871	316.20792	259.25461999	1
## 3566	165	193.527324	329.365657731	316.20792	272.38504438	1
## 3567	232	237.011802	350.587619493	316.20792	290.66605039	1
## 3568	203	226.635132	370.224012150	316.20792	310.85651536	1
## 3569	185	217.775385	371.360030924	316.20792	313.59148382	1
## 3570	188	230.763313	392.331153808	316.20792	331.96895433	1
## 3571	318	346.151909	399.365852639	316.20792	336.68818761	1
## 3572	572	586.990282	400.077362531	316.20792	338.28670800	1
## 3573	525	572.481850	395.034344593	316.20792	337.49192249	1
## 3574	379	446.631055	392.953742089	316.20792	338.51089363	1
## 3575	337	375.216778	390.622300708	316.20792	339.62632929	1
## 3576	248	270.657427	370.941360144	316.20792	322.49007448	1
## 3577	155	194.662533	369.164298062	316.20792	320.43930812	1
## 3578	112	139.439811	365.880519231	316.20792	318.96797622	1
## 3579	68	55.843731	188.053895655	32.32174	139.81152430	1
## 3580	22	25.392777	190.947470055	32.32174	141.87059379	1
## 3581	12	15.637510	173.425410232	32.32174	129.81011475	1
## 3582	5	8.983809	161.803713948	32.32174	119.73325312	1
## 3583	6	11.784083	167.410548387	32.32174	123.70189636	1
## 3584	28	31.887380	175.399268149	32.32174	131.00724977	1
## 3585	106	121.129622	194.360313048	32.32174	150.15773118	1
## 3586	277	341.806899	201.093154940	316.20792	157.94605455	1
## 3587	502	480.001147	218.427569675	316.20792	179.40105448	1
## 3588	230	254.644418	237.308707173	316.20792	193.95029075	1
## 3589	161	192.904837	273.470448499	316.20792	225.50367595	1
## 3590	192	205.888960	292.484194941	316.20792	241.68088436	1
## 3591	259	258.635836	313.905977519	316.20792	262.83805144	1
## 3592	248	262.470453	328.948902569	316.20792	277.58930347	1
## 3593	240	239.980873	338.368853688	316.20792	285.64395210	1
## 3594	212	249.068708	345.855895695	316.20792	293.14223453	1
## 3595	349	394.109283	364.366280899	316.20792	309.51301937	1
## 3596	558	622.924023	373.309021593	316.20792	319.40449292	1
## 3597	564	581.917625	377.407455802	316.20792	323.95321804	1
## 3598	391	444.094913	374.374515849	316.20792	322.38542163	1
## 3599	293	342.994558	361.523092508	316.20792	314.43477844	1
## 3600	247	271.375437	368.005095522	316.20792	322.31956632	1
## 3601	171	196.142738	354.624160131	316.20792	312.91925108	1
## 3602	171	158.822578	327.862863466	316.20792	286.69384916	1
## 3603	93	117.435379	131.118196594	32.32174	106.22230779	1
## 3604	94	91.346366	107.996346606	32.32174	82.84999869	1
## 3605	59	70.325379	134.669295777	32.32174	106.59404809	1
## 3606	18	32.236789	128.170579152	32.32174	103.40607146	1
## 3607	15	18.685567	135.406782281	32.32174	111.00081841	1
## 3608	8	14.251289	124.486584569	32.32174	103.60718883	1
## 3609	28	35.981015	152.511912741	32.32174	129.43055795	1
## 3610	87	122.802572	174.687895435	316.20792	150.29768409	1
## 3611	125	194.788523	217.481016649	316.20792	188.15987242	1
## 3612	224	283.665307	238.199617173	316.20792	206.63445485	1

## 3613	317	388.359687	262.083820914	316.20792	229.79766019	1
## 3614	369	469.560367	280.341683759	316.20792	246.26555695	1
## 3615	420	504.692534	308.870373168	316.20792	271.89534965	1
## 3616	456	481.952467	336.392340102	316.20792	297.91229520	1
## 3617	451	503.248126	334.338288329	316.20792	294.31474485	1
## 3618	404	456.138034	356.671347297	316.20792	318.45373904	1
## 3619	440	471.650633	346.904991334	316.20792	316.52239068	1
## 3620	344	478.578323	347.562516118	316.20792	314.83506149	1
## 3621	341	417.132029	368.231782063	316.20792	336.28162210	1
## 3622	285	356.206407	342.875166025	316.20792	315.42203689	1
## 3623	239	260.002418	330.473118814	316.20792	303.99196770	1
## 3624	185	217.649971	328.722207544	316.20792	303.58444983	1
## 3625	190	208.755191	311.950325744	316.20792	279.04418505	1
## 3626	150	155.440937	313.988718951	316.20792	293.26981629	1
## 3627	113	127.300940	144.974484726	32.32174	114.95144696	1
## 3628	96	88.340755	143.198477688	32.32174	118.83195023	1
## 3629	64	72.656919	150.685519695	32.32174	126.33023267	1
## 3630	47	38.422754	143.483621016	32.32174	120.45967139	1
## 3631	12	17.753570	150.970663023	32.32174	127.95795382	1
## 3632	6	16.023626	166.793939001	32.32174	144.06241341	1
## 3633	21	31.931848	173.779303253	32.32174	151.75362485	1
## 3634	27	77.121052	151.409969897	316.20792	128.09192222	1
## 3635	98	127.399379	158.897011904	316.20792	135.59020465	1
## 3636	164	200.527630	154.329520908	316.20792	132.95924163	1
## 3637	251	292.866408	176.957846778	316.20792	156.60541693	1
## 3638	335	331.953160	199.384668349	316.20792	177.37607856	1
## 3639	335	340.002670	206.871710357	316.20792	184.87436099	1
## 3640	367	387.957383	230.727024757	316.20792	200.46369560	1
## 3641	385	392.225667	266.387088328	316.20792	232.21000982	1
## 3642	417	439.369289	279.949447443	316.20792	249.18394481	1
## 3643	398	418.843275	301.423931565	316.20792	267.36783889	1
## 3644	390	405.285969	313.251918820	316.20792	280.40244619	1
## 3645	363	353.051196	295.330217363	316.20792	262.58964500	1
## 3646	357	326.713168	282.503661270	316.20792	250.02312773	1
## 3647	279	269.863777	275.803440346	316.20792	243.95963744	1
## 3648	165	190.846598	268.099863912	316.20792	238.28200518	1
## 3649	130	152.599877	265.542450901	316.20792	234.87803126	1
## 3650	86	104.937137	265.671747200	316.20792	238.00015258	1
## 3651	29	39.362929	97.144504349	32.32174	56.65210441	1
## 3652	14	18.935309	87.732706868	32.32174	48.67839296	1
## 3653	8	10.583020	77.819231631	32.32174	40.89761052	1
## 3654	5	7.701997	83.547034530	32.32174	49.07243934	1
## 3655	8	8.090098	73.684577355	32.32174	38.31903131	1
## 3656	31	28.378128	94.180173297	32.32174	58.53267934	1
## 3657	112	120.295466	106.008160552	32.32174	71.56728663	1
## 3658	299	386.345383	149.052120644	316.20792	109.33301045	1
## 3659	438	506.276664	173.187163262	316.20792	132.39975128	1
## 3660	188	236.712868	232.626601605	316.20792	185.83104542	1
## 3661	95	156.730472	262.437319697	316.20792	212.62111665	1
## 3662	111	163.819434	294.154396171	316.20792	244.58407557	1
## 3663	153	223.515336	319.043638904	316.20792	267.36077546	1
## 3664	180	206.360976	334.035545893	316.20792	285.08465308	1
## 3665	145	194.608401	352.623099971	316.20792	300.12606083	1
## 3666	165	212.591328	371.384324054	316.20792	316.40038116	1

## 3667	267	336.369313	357.328040903	316.20792	305.96008234	1
## 3668	579	630.356737	373.177867611	316.20792	317.44802043	1
## 3669	556	625.261441	376.721922521	316.20792	325.16294757	1
## 3670	407	469.985090	322.687640117	316.20792	273.98978443	1
## 3671	336	341.117320	302.001660560	316.20792	257.24003507	1
## 3672	189	228.795893	311.726435665	316.20792	268.48406877	1
## 3673	173	195.857502	310.373882464	316.20792	267.56975048	1
## 3674	60	102.275852	294.332388576	316.20792	253.28658848	1
## 3675	20	38.321467	130.970017622	32.32174	89.23869327	1
## 3676	4	15.713960	124.520635575	32.32174	83.07873847	1
## 3677	5	9.651892	116.566220263	32.32174	77.49757072	1
## 3678	2	6.269371	124.053262270	32.32174	84.99585315	1
## 3679	5	8.414138	104.344487411	32.32174	66.21699727	1
## 3680	32	29.938948	101.285396645	32.32174	63.00595237	1
## 3681	126	133.905578	136.217410914	32.32174	96.68555602	1
## 3682	334	348.825019	174.617940381	316.20792	137.91596212	1
## 3683	477	471.075218	210.477824769	316.20792	172.53843742	1
## 3684	217	228.789653	237.801654369	316.20792	195.67857448	1
## 3685	123	162.979560	278.583014115	316.20792	234.31442112	1
## 3686	151	170.837461	278.235499907	316.20792	233.01359738	1
## 3687	183	198.947725	311.183986920	316.20792	262.84969044	1
## 3688	196	213.944075	324.797364096	316.20792	276.85099984	1
## 3689	146	195.064994	332.787767340	316.20792	284.15570584	1
## 3690	183	202.945632	351.298152545	316.20792	300.52649068	1
## 3691	308	364.118190	359.485638079	316.20792	304.77673553	1
## 3692	539	604.974783	356.424863831	316.20792	301.56633805	1
## 3693	551	582.070035	351.936225191	316.20792	297.60535052	1
## 3694	424	482.837422	348.650762879	316.20792	296.13466603	1
## 3695	346	342.225947	330.599191005	316.20792	282.62451493	1
## 3696	218	233.600682	301.298304305	316.20792	255.72245185	1
## 3697	153	173.886097	313.985494844	316.20792	268.78024220	1
## 3698	90	109.519837	284.182930389	316.20792	242.07110814	1
## 3699	41	40.783238	84.534308483	32.32174	43.42993840	1
## 3700	23	23.171470	114.069320450	32.32174	74.93234822	1
## 3701	7	7.322118	92.906530386	32.32174	53.75965380	1
## 3702	3	5.876674	100.393572393	32.32174	61.25793624	1
## 3703	6	9.113403	113.782261504	32.32174	76.99895864	1
## 3704	21	25.716073	110.219809501	32.32174	73.98149017	1
## 3705	116	131.757035	123.607215047	32.32174	83.46339001	1
## 3706	353	386.240983	169.590406808	316.20792	127.65809715	1
## 3707	481	459.832489	242.687596032	316.20792	193.20149195	1
## 3708	202	240.189505	250.174638039	316.20792	200.69977438	1
## 3709	90	138.826679	309.363237505	316.20792	254.22753303	1
## 3710	134	155.979216	326.616061357	316.20792	271.08193524	1
## 3711	149	167.542112	342.586856526	316.20792	286.77605891	1
## 3712	136	157.132961	353.662327148	316.20792	300.10005973	1
## 3713	155	154.581596	375.689507086	316.20792	315.11839921	1
## 3714	128	145.432611	381.669832345	316.20792	323.19611611	1
## 3715	233	278.621996	390.161913345	316.20792	330.30789309	1
## 3716	506	510.337228	408.698449362	316.20792	348.32192642	1
## 3717	459	485.595350	405.916348287	316.20792	346.65766551	1
## 3718	384	391.644763	339.879834505	316.20792	288.64175390	1
## 3719	280	310.537832	332.677935825	316.20792	282.77119263	1
## 3720	202	225.995896	333.535281426	316.20792	283.96002452	1

## 3721	176	173.583114	309.937904496	316.20792	262.42389292	1
## 3722	116	125.185659	317.926624258	316.20792	269.72924634	1
## 3723	47	43.585680	128.351346709	32.32174	89.56420367	1
## 3724	16	22.121834	137.016042669	32.32174	91.97762360	1
## 3725	6	10.759617	126.929952473	32.32174	88.89519822	1
## 3726	2	9.192445	133.411955487	32.32174	96.77998610	1
## 3727	6	11.591116	151.697652627	32.32174	114.89048394	1
## 3728	20	27.149633	140.777454915	32.32174	107.49685436	1
## 3729	118	121.352723	155.622242630	32.32174	119.37129790	1
## 3730	314	342.820341	174.911295281	316.20792	137.09593771	1
## 3731	432	445.060054	213.484439708	316.20792	173.62798676	1
## 3732	168	189.372670	290.696831071	316.20792	240.51614978	1
## 3733	94	135.181361	306.597675840	316.20792	249.03146229	1
## 3734	118	142.486771	342.457560227	316.20792	283.65393758	1
## 3735	140	162.393029	370.759878089	316.20792	311.02409069	1
## 3736	136	164.053989	366.220221388	316.20792	310.03572875	1
## 3737	118	143.222256	374.684468093	316.20792	315.50490466	1
## 3738	104	150.946777	407.408267042	316.20792	347.08071071	1
## 3739	200	273.515751	404.122804729	316.20792	345.61002623	1
## 3740	409	481.788694	398.930984035	316.20792	338.96645406	1
## 3741	466	499.296820	396.652244197	316.20792	337.10861671	1
## 3742	326	423.392817	391.515463656	316.20792	339.68216376	1
## 3743	254	317.827966	376.201619152	316.20792	329.72548231	1
## 3744	171	210.930908	347.155593422	316.20792	314.91669953	1
## 3745	153	169.639807	339.977506946	316.20792	298.49899453	1
## 3746	97	125.449351	349.674447755	316.20792	308.10042714	1
## 3747	69	54.762917	147.420307505	32.32174	113.79352987	1
## 3748	23	28.884530	154.907349512	32.32174	121.29181231	1
## 3749	13	12.506903	150.059075254	32.32174	105.25217343	1
## 3750	6	8.434509	157.546117261	32.32174	112.75045586	1
## 3751	4	8.289463	139.294724572	32.32174	96.36414368	1
## 3752	28	30.515106	146.781766579	32.32174	103.86242611	1
## 3753	104	116.138940	153.012930715	32.32174	111.84367850	1
## 3754	267	304.858785	204.817633660	316.20792	159.35202755	1
## 3755	452	457.666926	236.334889317	316.20792	188.43882539	1
## 3756	213	225.325503	254.040056345	316.20792	208.07227676	1
## 3757	111	156.172288	274.006140237	316.20792	226.83625272	1
## 3758	153	164.986466	306.451266013	316.20792	256.86592220	1
## 3759	207	198.974124	326.468367965	316.20792	272.65727257	1
## 3760	189	200.281629	333.453732217	316.20792	280.34848402	1
## 3761	165	172.065037	356.080374605	316.20792	303.99530673	1
## 3762	212	209.033228	348.427816231	316.20792	295.34504889	1
## 3763	285	312.397846	326.812682991	316.20792	271.39330531	1
## 3764	517	579.387826	341.883442336	316.20792	287.78715843	1
## 3765	463	515.620555	328.051847250	316.20792	275.60714661	1
## 3766	306	390.599216	329.186182541	316.20792	278.34276248	1
## 3767	250	287.159329	322.687465916	316.20792	275.15478586	1
## 3768	218	231.858334	321.836590470	316.20792	274.04753855	1
## 3769	185	187.566774	301.955829089	316.20792	254.03512267	1
## 3770	146	133.179155	307.936154348	316.20792	262.11283956	1
## 3771	117	111.989849	114.657264148	32.32174	83.26147842	1
## 3772	77	81.821884	121.391789523	32.32174	91.04915438	1
## 3773	60	67.842613	129.129670407	32.32174	98.45097230	1
## 3774	28	29.632489	121.676932850	32.32174	92.67687553	1

## 3775	13	16.400315	138.003570065	32.32174	108.58775869	1
## 3776	16	18.581195	157.292622716	32.32174	126.31239849	1
## 3777	40	42.118574	199.357694628	32.32174	166.10787626	1
## 3778	68	112.679459	220.328817512	316.20792	184.48534677	1
## 3779	143	158.342762	233.665204997	316.20792	196.93987218	1
## 3780	230	248.364442	231.307612803	316.20792	196.41205934	1
## 3781	264	296.403042	248.137611256	316.20792	212.12936607	1
## 3782	325	360.778454	252.131042296	316.20792	216.36486719	1
## 3783	347	386.989830	288.294467104	316.20792	247.91760498	1
## 3784	387	395.072256	295.278147873	316.20792	255.60946384	1
## 3785	380	388.999140	320.367211423	316.20792	281.26232481	1
## 3786	374	389.086854	327.854253430	316.20792	288.76060724	1
## 3787	394	413.221124	335.949031406	316.20792	302.31045429	1
## 3788	337	354.654057	298.867573598	316.20792	269.89513461	1
## 3789	286	319.441836	291.162313681	316.20792	264.21814977	1
## 3790	264	288.123775	288.854684504	316.20792	254.78644170	1
## 3791	275	279.372349	271.608330807	316.20792	238.01362407	1
## 3792	220	211.644604	272.744349580	316.20792	240.74859254	1
## 3793	190	164.860669	271.391796379	316.20792	239.83427425	1
## 3794	131	128.630622	285.708355609	316.20792	256.51816830	1
## 3795	119	113.034572	106.676872224	32.32174	74.87206075	1
## 3796	93	93.301732	95.254996757	32.32174	67.67136019	1
## 3797	66	64.802769	91.994401692	32.32174	61.58480162	1
## 3798	28	29.918412	99.984804937	32.32174	68.88950762	1
## 3799	14	12.720745	101.822322282	32.32174	74.30770815	1
## 3800	10	11.616594	110.314403282	32.32174	81.41948513	1
## 3801	14	24.101544	115.791367304	32.32174	89.69077846	1
## 3802	34	63.888314	151.226742810	316.20792	123.17680568	1
## 3803	92	134.068945	183.342177352	316.20792	154.63296418	1
## 3804	182	221.558039	214.357755254	316.20792	183.91269104	1
## 3805	311	331.426467	252.731078864	316.20792	217.56857901	1
## 3806	367	376.527583	272.948001633	316.20792	236.23609046	1
## 3807	420	411.612454	310.263584708	316.20792	273.25175687	1
## 3808	373	382.137399	282.097607417	316.20792	241.66053826	1
## 3809	315	357.039595	307.409675549	316.20792	265.57433363	1
## 3810	360	379.993087	303.171875787	316.20792	261.51688160	1
## 3811	350	291.346998	218.915771383	316.20792	199.45414934	1
## 3812	252	281.596930	226.402813390	316.20792	206.95243177	1
## 3813	256	285.468867	260.976875523	316.20792	228.55273666	1
## 3814	223	262.236736	267.458878537	316.20792	236.43752454	1
## 3815	206	223.494974	244.363179362	316.20792	214.70846393	1
## 3816	140	174.440725	250.845182376	316.20792	222.59325181	1
## 3817	128	144.698352	252.984556660	316.20792	224.94236224	1
## 3818	107	107.931097	272.526131670	316.20792	242.56989012	1
## 3819	28	37.078803	102.993849828	32.32174	61.60834740	1
## 3820	16	21.046822	123.038786075	32.32174	79.04229885	1
## 3821	10	11.839899	125.681521597	32.32174	81.19783285	1
## 3822	7	13.828248	159.564697286	32.32174	109.72837928	1
## 3823	4	8.000491	143.247497273	32.32174	100.15755587	1
## 3824	29	28.246576	146.393594032	32.32174	102.11951344	1
## 3825	105	113.632594	154.382313794	32.32174	109.42486685	1
## 3826	328	389.396206	184.392852703	316.20792	139.09109916	1
## 3827	476	494.961877	214.706932033	316.20792	165.68759396	1
## 3828	224	247.847233	239.013961173	316.20792	189.98789479	1

## 3829	118	162.835655	262.898164913	316.20792	213.15110013	1
## 3830	159	182.478138	275.731191161	316.20792	225.79920197	1
## 3831	196	228.043502	282.967394290	316.20792	233.39394891	1
## 3832	227	260.906632	306.218366376	316.20792	261.05338077	1
## 3833	200	245.800128	324.606099638	316.20792	273.21862744	1
## 3834	185	241.091498	328.731084577	316.20792	273.15083107	1
## 3835	326	377.979597	335.714765346	316.20792	280.84268993	1
## 3836	601	627.984502	337.275293001	316.20792	284.71410647	1
## 3837	586	617.195911	349.683810367	316.20792	296.22576024	1
## 3838	423	455.611233	339.796485944	316.20792	290.08822630	1
## 3839	331	352.621767	329.881327225	316.20792	282.30809127	1
## 3840	218	256.752079	343.998065638	316.20792	296.11582425	1
## 3841	134	176.525462	334.084590401	316.20792	288.33504181	1
## 3842	89	127.206000	341.068271171	316.20792	296.02690067	1
## 3843	31	43.576168	156.387263124	32.32174	112.30071121	1
## 3844	13	18.794589	164.879344124	32.32174	119.41248819	1
## 3845	10	11.851090	172.869747368	32.32174	126.71719420	1
## 3846	2	8.966513	166.422048804	32.32174	120.55659198	1
## 3847	3	8.414178	145.483546888	32.32174	103.90395455	1
## 3848	26	28.669533	163.067745456	32.32174	119.33122033	1
## 3849	113	123.949168	170.051426225	32.32174	127.02307919	1
## 3850	365	397.688906	194.237486904	316.20792	147.11719444	1
## 3851	486	496.703414	213.701893040	316.20792	166.07409941	1
## 3852	193	235.728821	236.249683072	316.20792	191.05094662	1
## 3853	130	174.880134	244.240086317	316.20792	198.35565263	1
## 3854	143	177.048755	269.631006805	316.20792	220.93942350	1
## 3855	169	229.316727	278.373926682	316.20792	227.95473597	1
## 3856	209	255.770265	276.970355420	316.20792	230.01304327	1
## 3857	159	207.548310	275.645008076	316.20792	236.67324311	1
## 3858	178	231.482070	284.309704035	316.20792	239.08666304	1
## 3859	330	383.667285	317.256507566	316.20792	268.92340351	1
## 3860	569	536.611724	291.305506214	316.20792	257.55634951	1
## 3861	538	532.101501	294.846167470	316.20792	247.14961479	1
## 3862	386	440.877867	310.894131513	316.20792	261.51436137	1
## 3863	297	331.178625	290.157133895	316.20792	247.73723760	1
## 3864	243	258.415317	299.905092765	316.20792	254.36604463	1
## 3865	188	190.745909	291.447316216	316.20792	248.97845331	1
## 3866	110	115.209178	275.405822328	316.20792	234.69529131	1
## 3867	52	46.849812	114.304368237	32.32174	69.77792070	1
## 3868	14	17.742150	114.686186896	32.32174	72.80293010	1
## 3869	9	11.277181	117.528743234	32.32174	77.83462517	1
## 3870	1	6.030659	108.618623507	32.32174	69.66798470	1
## 3871	4	7.532559	127.658520762	32.32174	87.48844160	1
## 3872	21	25.885267	120.456622083	32.32174	81.61788033	1
## 3873	121	129.549204	142.129243539	32.32174	102.67858290	1
## 3874	370	392.795215	165.934594923	316.20792	127.17181274	1
## 3875	498	503.582101	200.589619501	316.20792	159.30463241	1
## 3876	207	256.971031	220.504685332	316.20792	181.04123395	1
## 3877	135	182.151079	246.874494000	316.20792	201.59525088	1
## 3878	164	208.864670	287.604835686	316.20792	243.20372310	1
## 3879	211	250.392449	309.130337868	316.20792	258.41499160	1
## 3880	189	234.907485	342.580502637	316.20792	288.05815564	1
## 3881	178	232.207659	345.293188558	316.20792	297.39250080	1
## 3882	164	227.398603	360.839474846	316.20792	311.95017640	1

## 3883	312	342.980894	370.587433716	316.20792	318.57898343	1
## 3884	638	627.441858	369.513553687	316.20792	319.21080171	1
## 3885	607	634.776835	362.813332763	316.20792	313.14731141	1
## 3886	416	484.853596	355.914974504	316.20792	304.20701263	1
## 3887	330	357.508948	334.223955955	316.20792	287.84376872	1
## 3888	257	258.935277	330.236995070	316.20792	283.68985218	1
## 3889	175	198.794053	323.234917207	316.20792	280.69545198	1
## 3890	107	139.579951	322.333023700	316.20792	282.56083026	1
## 3891	47	49.330050	139.411254762	32.32174	98.15809441	1
## 3892	17	23.360271	130.450116974	32.32174	92.96407953	1
## 3893	5	13.079157	154.134499898	32.32174	113.25112379	1
## 3894	4	6.099439	110.675239606	32.32174	80.36115870	1
## 3895	6	8.429217	129.462614501	32.32174	98.27872753	1
## 3896	25	29.123088	160.673991128	32.32174	118.24487066	1
## 3897	112	95.988663	138.562257269	32.32174	112.60707055	1
## 3898	188	238.473166	129.150459787	316.20792	104.63335910	1
## 3899	388	469.376148	169.401252439	316.20792	135.88826403	1
## 3900	261	263.791685	192.582274125	316.20792	156.36888472	1
## 3901	121	164.530790	221.612641290	316.20792	181.80574840	1
## 3902	150	176.488992	235.703228890	316.20792	193.97023288	1
## 3903	206	221.735719	273.545985406	316.20792	220.24517914	1
## 3904	151	189.593556	277.091095360	316.20792	233.89137591	1
## 3905	153	181.906869	285.835698720	316.20792	240.90604098	1
## 3906	159	193.156582	271.500742397	316.20792	228.91960559	1
## 3907	294	297.823048	246.171332216	316.20792	215.63453852	1
## 3908	272	362.938898	228.092554485	316.20792	194.54986928	1
## 3909	325	386.647474	228.219512174	316.20792	185.48159839	1
## 3910	327	324.269470	230.862247696	316.20792	187.63713239	1
## 3911	201	245.264673	239.103489818	316.20792	194.84537388	1
## 3912	188	161.834019	241.974307058	316.20792	213.38285673	1
## 3913	151	133.674688	249.461349065	316.20792	220.88113916	1
## 3914	16	65.609537	251.099045594	316.20792	223.42317861	1
## 3915	24	30.294116	56.744963261	32.32174	21.04126718	1
## 3916	23	17.776675	51.725129089	32.32174	15.63125500	1
## 3917	13	12.052733	58.710493341	32.32174	23.32246645	1
## 3918	6	7.947309	66.197535348	32.32174	30.82074888	1
## 3919	6	7.501362	68.336909632	32.32174	33.16985931	1
## 3920	13	19.018628	60.303641963	32.32174	28.91871606	1
## 3921	97	109.333756	86.899422261	32.32174	53.99214256	1
## 3922	250	356.077504	130.394042047	316.20792	94.53756295	1
## 3923	454	503.205142	136.201752347	316.20792	107.31363691	1
## 3924	224	230.984529	233.128279360	316.20792	185.63811640	1
## 3925	170	188.176638	240.615321367	316.20792	193.13639883	1
## 3926	181	201.871221	218.949170066	316.20792	172.15728085	1
## 3927	243	246.171794	241.125152759	316.20792	193.02440699	1
## 3928	204	224.343557	267.443943367	316.20792	216.55104950	1
## 3929	215	231.180221	301.370918642	316.20792	250.61715860	1
## 3930	243	241.040588	335.099756584	316.20792	281.80645921	1
## 3931	355	381.496725	331.312616516	316.20792	280.52870375	1
## 3932	552	532.495860	346.992166874	316.20792	308.90539111	1
## 3933	450	513.458888	354.479208881	316.20792	316.40367355	1
## 3934	328	284.667447	232.849568522	316.20792	203.34253485	1
## 3935	232	264.969440	252.233012213	316.20792	211.76692505	1
## 3936	208	218.990636	259.469215343	316.20792	219.36167199	1

## 3937	175	157.339805	239.760440484	316.20792	200.58281611	1
## 3938	178	143.854656	258.296976501	316.20792	218.59684944	1
## 3939	104	105.835491	71.370793017	32.32174	44.50815485	1
## 3940	95	89.580977	89.405651279	32.32174	62.71511720	1
## 3941	53	59.913020	78.234614690	32.32174	55.41795213	1
## 3942	20	24.627865	87.230056927	32.32174	62.33615269	1
## 3943	5	12.152575	94.717098934	32.32174	69.83443512	1
## 3944	7	12.274935	117.594580199	32.32174	93.38479332	1
## 3945	27	27.835079	126.840861314	32.32174	100.20652936	1
## 3946	57	64.617066	151.728420565	316.20792	122.98387666	1
## 3947	131	144.917579	164.312291418	316.20792	135.72779561	1
## 3948	218	244.904656	223.327220879	316.20792	188.02264167	1
## 3949	244	286.402868	233.950348325	316.20792	198.56759334	1
## 3950	404	371.102956	240.432351339	316.20792	206.45238122	1
## 3951	420	418.837871	244.176626983	316.20792	210.78369944	1
## 3952	327	380.968237	280.313501061	316.20792	246.95295872	1
## 3953	334	372.253023	322.483347622	316.20792	286.73380754	1
## 3954	367	375.978828	333.306295884	316.20792	300.15492029	1
## 3955	468	442.239216	311.494308875	316.20792	279.58549080	1
## 3956	449	428.775896	326.815907097	316.20792	295.88287940	1
## 3957	381	392.403994	313.485989767	316.20792	283.50993857	1
## 3958	326	335.721240	328.305910234	316.20792	300.00025619	1
## 3959	188	241.995505	314.975992904	316.20792	287.62731535	1
## 3960	183	209.205484	304.282166739	316.20792	278.49332536	1
## 3961	161	178.698481	321.110481710	316.20792	294.21127949	1
## 3962	150	151.624398	326.336606854	316.20792	302.57903733	1
## 3963	89	107.134288	143.334930514	32.32174	113.57505635	1
## 3964	76	83.526761	150.651041044	32.32174	125.77104843	1
## 3965	72	70.699015	134.078980062	32.32174	104.10694472	1
## 3966	30	32.082864	125.950266308	32.32174	103.22478145	1
## 3967	17	17.670915	142.276903523	32.32174	119.13566460	1
## 3968	19	18.100615	138.663433459	32.32174	119.09082172	1
## 3969	33	35.516992	148.914753566	32.32174	125.52605231	1
## 3970	71	90.959903	156.401795574	316.20792	133.02433474	1
## 3971	84	154.852004	175.893407567	316.20792	159.55575786	1
## 3972	169	213.468487	185.059781281	316.20792	161.77624876	1
## 3973	244	297.110298	227.124853194	316.20792	201.57172653	1
## 3974	377	373.039067	246.840098208	316.20792	220.43216699	1
## 3975	396	392.064633	266.806182099	316.20792	239.19614295	1
## 3976	363	383.577603	281.624419084	316.20792	255.68710799	1
## 3977	317	338.390931	273.722076877	316.20792	253.06458429	1
## 3978	362	375.186346	289.518146998	316.20792	261.59452574	1
## 3979	378	401.696482	316.564586990	316.20792	289.44764881	1
## 3980	397	405.285969	313.251918820	316.20792	280.40244619	1
## 3981	296	331.844798	305.098737735	316.20792	277.87638700	1
## 3982	311	320.293171	300.328687396	316.20792	266.43864067	1
## 3983	232	257.088570	285.292232501	316.20792	251.76897323	1
## 3984	167	193.423329	266.035800818	316.20792	235.76916650	1
## 3985	152	164.860669	271.391796379	316.20792	239.83427425	1
## 3986	92	111.084061	278.375477149	316.20792	247.52613311	1
## 3987	26	37.742744	98.297062533	32.32174	55.85526305	1
## 3988	12	14.909266	85.419488379	32.32174	46.26137137	1
## 3989	2	7.322118	92.906530386	32.32174	53.75965380	1
## 3990	1	7.164777	95.526508749	32.32174	72.39360117	1

## 3991	3	6.422719	102.138382180	32.32174	75.97573896	1
## 3992	3	16.844432	120.171556960	32.32174	94.18334872	1
## 3993	26	78.412805	132.858747499	32.32174	107.24113907	1
## 3994	46	148.204896	107.553149522	316.20792	83.40892828	1
## 3995	221	249.606683	126.089685539	316.20792	101.42296161	1
## 3996	219	221.785457	159.009283213	316.20792	123.68518394	1
## 3997	91	148.698612	166.496325220	316.20792	131.18346637	1
## 3998	94	157.404427	171.471611486	316.20792	139.64768872	1
## 3999	162	205.469387	204.697088190	316.20792	171.03056576	1
## 4000	179	218.002137	228.552402591	316.20792	186.61990038	1
## 4001	175	215.431569	250.728385285	316.20792	207.48702651	1
## 4002	205	226.323408	258.717105047	316.20792	214.79237993	1
## 4003	299	334.305681	285.035895654	316.20792	238.31902244	1
## 4004	565	599.422847	298.598254769	316.20792	255.29295743	1
## 4005	538	540.509601	294.887000010	316.20792	246.42670230	1
## 4006	431	434.580319	281.334078097	316.20792	235.79282706	1
## 4007	316	352.981944	279.981524896	316.20792	234.87850877	1
## 4008	206	256.789737	271.774587224	316.20792	229.39445294	1
## 4009	130	171.080453	278.587336516	316.20792	241.78402145	1
## 4010	60	101.212729	271.356548497	316.20792	228.33958945	1
## 4011	33	41.012926	116.811875375	32.32174	66.76406856	1
## 4012	14	15.060499	120.940253968	32.32174	84.81793405	1
## 4013	6	7.568416	117.377801964	32.32174	81.80046558	1
## 4014	2	4.622181	124.864843971	32.32174	89.29874801	1
## 4015	9	9.997064	116.127339204	32.32174	76.43375047	1
## 4016	25	26.380068	124.116058966	32.32174	83.73910389	1
## 4017	115	124.380858	131.603100974	32.32174	91.23738632	1
## 4018	309	322.933767	123.569833305	316.20792	86.98624308	1
## 4019	401	471.160334	151.924852711	316.20792	111.38312319	1
## 4020	275	251.714823	161.923650458	316.20792	117.91546571	1
## 4021	161	185.022660	185.304492961	316.20792	141.27224747	1
## 4022	171	198.773869	199.818534399	316.20792	148.64191038	1
## 4023	189	212.727585	238.893356581	316.20792	184.98103041	1
## 4024	207	215.661256	275.758279961	316.20792	219.21700026	1
## 4025	152	192.509301	298.939301647	316.20792	239.69762095	1
## 4026	170	200.471333	319.407063294	316.20792	258.26866789	1
## 4027	335	334.213955	332.241773024	316.20792	270.91612233	1
## 4028	572	552.725538	318.410177938	316.20792	258.73611051	1
## 4029	536	528.631002	310.030625307	316.20792	257.95041174	1
## 4030	425	399.249296	302.327048872	316.20792	252.27277948	1
## 4031	326	362.028466	316.974354380	316.20792	273.46145416	1
## 4032	229	245.346501	312.627757877	316.20792	257.22888627	1
## 4033	109	155.698069	301.709243648	316.20792	249.83460928	1
## 4034	64	104.559227	320.245779666	316.20792	267.84864261	1
## 4035	33	42.978608	129.012244087	32.32174	76.48362552	1
## 4036	21	20.671296	135.494247101	32.32174	84.36841340	1
## 4037	7	11.293033	140.720372245	32.32174	92.73617124	1
## 4038	7	8.173929	150.468331115	32.32174	99.36497826	1
## 4039	11	9.723139	138.795616770	32.32174	92.26074221	1
## 4040	23	26.314768	133.023265965	32.32174	87.14012356	1
## 4041	122	122.943104	159.619046263	32.32174	112.21355006	1
## 4042	311	373.285166	187.644374435	316.20792	138.03691919	1
## 4043	423	516.057269	213.789495038	316.20792	160.33064912	1
## 4044	219	254.930078	211.232082027	316.20792	156.92667520	1

## 4045	135	175.087382	245.964275479	316.20792	187.73011777	1
## 4046	145	185.769272	251.944600738	316.20792	195.80783467	1
## 4047	188	192.400014	300.614273288	316.20792	246.20078412	1
## 4048	147	171.028065	321.082034935	316.20792	264.77183107	1
## 4049	145	174.795547	337.912033388	316.20792	280.48913779	1
## 4050	146	167.719860	336.559480187	316.20792	279.57481950	1
## 4051	258	299.726633	338.171025903	316.20792	280.47361045	1
## 4052	529	550.906145	349.653356632	316.20792	291.04174517	1
## 4053	513	520.750045	346.038203086	316.20792	290.99754970	1
## 4054	342	418.202892	368.994536707	316.20792	313.21788339	1
## 4055	282	308.266224	309.985022356	316.20792	255.07335227	1
## 4056	247	238.767892	306.925931590	316.20792	251.86230737	1
## 4057	148	157.540159	307.385974167	316.20792	259.48920932	1
## 4058	105	115.832527	315.376377412	316.20792	266.79391532	1
## 4059	49	47.123743	144.853742957	32.32174	89.05562787	1
## 4060	31	26.370036	163.390278974	32.32174	107.06966120	1
## 4061	4	12.732106	170.877320981	32.32174	114.56794363	1
## 4062	5	10.661886	175.679992288	32.32174	127.73052304	1
## 4063	7	8.800669	165.764833569	32.32174	119.95038801	1
## 4064	24	29.810537	192.333408010	32.32174	137.44929637	1
## 4065	100	119.801028	199.820450017	32.32174	144.94757881	1
## 4066	327	373.196189	205.124799079	316.20792	157.91722919	1
## 4067	432	449.194914	228.305820765	316.20792	178.39784989	1
## 4068	227	256.607919	234.787823780	316.20792	186.28263777	1
## 4069	127	171.032151	256.963806473	316.20792	207.14976390	1
## 4070	136	192.514044	264.781594758	316.20792	219.15282697	1
## 4071	160	184.245185	274.451329710	316.20792	221.17974144	1
## 4072	186	185.659931	290.777966925	316.20792	237.09062459	1
## 4073	149	173.719824	289.676252602	316.20792	236.07984180	1
## 4074	189	204.453659	329.106916831	316.20792	272.63572130	1
## 4075	275	302.599362	307.640586346	316.20792	254.53276439	1
## 4076	569	520.434109	292.604131451	316.20792	239.86309695	1
## 4077	540	521.530289	302.775544158	316.20792	241.69708241	1
## 4078	400	418.165102	309.257547172	316.20792	249.58187029	1
## 4079	352	341.844832	299.794731630	316.20792	244.58078442	1
## 4080	234	242.520259	306.778412399	316.20792	252.27264328	1
## 4081	162	186.466193	313.089483937	316.20792	264.85514081	1
## 4082	105	112.774213	323.260896644	316.20792	266.68912626	1
## 4083	63	49.269496	132.651690763	32.32174	79.33671832	1
## 4084	28	25.002607	127.712392429	32.32174	72.59603423	1
## 4085	14	15.690985	135.199434436	32.32174	80.09431666	1
## 4086	5	7.953408	139.922198342	32.32174	88.65565093	1
## 4087	9	8.659824	146.153362479	32.32174	96.63690332	1
## 4088	20	25.559740	134.531666195	32.32174	86.56004168	1
## 4089	91	125.897019	161.879963126	32.32174	111.34407466	1
## 4090	268	323.506809	169.196073656	316.20792	123.54006673	1
## 4091	466	477.488251	209.950227545	316.20792	154.60139524	1
## 4092	231	255.779634	254.146345903	316.20792	197.83004768	1
## 4093	145	163.946621	323.682940807	316.20792	259.19032517	1
## 4094	203	199.733629	342.973676940	316.20792	276.91431757	1
## 4095	201	215.517348	343.076822426	316.20792	278.39319040	1
## 4096	221	233.203374	360.608319450	316.20792	296.79372918	1
## 4097	229	224.033144	347.781763357	316.20792	284.22721191	1
## 4098	216	239.086752	388.615824647	316.20792	319.88978555	1

## 4099	327	364.487884	392.965097733	316.20792	324.34204616	1
## 4100	557	611.209645	377.149575475	316.20792	314.57829374	1
## 4101	452	557.169074	385.390817597	316.20792	321.78653523	1
## 4102	385	449.314875	379.142939850	316.20792	318.50209409	1
## 4103	288	339.028528	368.726103375	316.20792	310.91488808	1
## 4104	233	261.017138	363.230742261	316.20792	307.34105342	1
## 4105	167	186.562484	368.456867405	316.20792	315.70881126	1
## 4106	172	164.625563	365.725784390	316.20792	311.07192475	1
## 4107	116	125.628165	199.192051362	32.32174	155.71800536	1
## 4108	95	95.468236	194.200051484	32.32174	151.95059426	1
## 4109	59	75.519460	200.509439539	32.32174	164.53373920	1
## 4110	39	37.600109	188.357176161	32.32174	147.07593586	1
## 4111	11	19.571530	195.844218168	32.32174	154.57421829	1
## 4112	14	15.460140	187.637280496	32.32174	149.09016246	1
## 4113	29	36.997682	211.321663420	32.32174	169.37720672	1
## 4114	42	105.214761	219.813744419	316.20792	176.48898371	1
## 4115	112	162.090712	264.234550842	316.20792	217.97792315	1
## 4116	186	226.180003	284.200634734	316.20792	236.74189911	1
## 4117	302	344.617904	290.682637748	316.20792	244.62668699	1
## 4118	331	387.418333	307.382765784	316.20792	264.64664380	1
## 4119	392	428.000188	324.063961481	316.20792	274.51516386	1
## 4120	371	430.156864	331.551003488	316.20792	282.01344629	1
## 4121	383	409.772817	328.239390362	316.20792	278.89951331	1
## 4122	392	403.911598	330.701237406	316.20792	288.33032299	1
## 4123	410	434.419556	353.482617459	316.20792	303.05862152	1
## 4124	399	434.179575	356.074334919	316.20792	308.18678111	1
## 4125	307	377.986300	351.584012797	316.20792	304.22644099	1
## 4126	375	371.764106	352.944719636	316.20792	305.22169645	1
## 4127	269	291.024476	353.074015934	316.20792	308.34381778	1
## 4128	202	221.296357	347.580338302	316.20792	304.76933570	1
## 4129	187	196.576183	364.408653272	316.20792	320.48728984	1
## 4130	179	173.316888	359.496560795	316.20792	321.32112388	1
## 4131	115	125.682243	171.469689492	32.32174	134.24967014	1
## 4132	90	100.504537	180.715970607	32.32174	141.07140618	1
## 4133	87	77.424074	173.514071928	32.32174	135.20084491	1
## 4134	34	33.679688	159.682476842	32.32174	123.02083309	1
## 4135	11	14.393003	166.918679972	32.32174	130.61558003	1
## 4136	12	14.161538	172.897321748	32.32174	138.69394434	1
## 4137	20	29.434921	180.384363756	32.32174	146.19222677	1
## 4138	51	87.201335	200.350447647	316.20792	164.95620273	1
## 4139	107	148.660607	216.952790988	316.20792	176.15474729	1
## 4140	206	234.904709	244.000914462	316.20792	204.00722295	1
## 4141	332	348.559320	282.546224594	316.20792	238.89667091	1
## 4142	346	382.223522	297.164640762	316.20792	252.51147487	1
## 4143	443	451.960316	322.053883496	316.20792	275.28817476	1
## 4144	442	437.124751	326.776647402	316.20792	283.84950903	1
## 4145	443	448.864456	336.524606272	316.20792	290.47831605	1
## 4146	403	428.305669	341.750731416	316.20792	298.84607389	1
## 4147	455	451.351200	348.083931675	316.20792	300.88207511	1
## 4148	421	429.012859	347.540618741	316.20792	308.89483510	1
## 4149	382	387.076663	349.904681090	316.20792	309.50423252	1
## 4150	317	334.036606	348.751948705	316.20792	311.46607531	1
## 4151	213	251.296527	349.887967479	316.20792	314.20104377	1
## 4152	183	212.782017	344.115616674	316.20792	309.08042512	1

## 4153	114	166.852253	358.152447686	316.20792	318.28691296	1
## 4154	78	127.268827	360.518193517	316.20792	318.89566297	1
## 4155	32	41.583546	132.362129434	32.32174	92.01863461	1
## 4156	15	17.282921	122.116224437	32.32174	79.73371895	1
## 4157	6	8.187892	127.923934737	32.32174	92.50979291	1
## 4158	2	5.430945	135.410976744	32.32174	100.00807534	1
## 4159	9	9.486465	128.181872207	32.32174	86.56299593	1
## 4160	22	25.562880	141.518259693	32.32174	99.01752135	1
## 4161	94	118.582091	160.054795710	32.32174	117.03155468	1
## 4162	261	330.294938	185.445716198	316.20792	139.61532555	1
## 4163	447	500.685071	197.748175351	316.20792	144.88248569	1
## 4164	187	241.172921	262.035942272	316.20792	215.84627307	1
## 4165	150	180.357219	271.783901142	316.20792	222.47508010	1
## 4166	150	188.008342	262.321085599	316.20792	217.47399423	1
## 4167	170	198.301923	284.497068293	316.20792	238.34112037	1
## 4168	164	188.290417	286.913832185	316.20792	235.97724479	1
## 4169	158	189.185967	292.139957329	316.20792	244.34500263	1
## 4170	202	221.065605	310.597640990	316.20792	263.68906047	1
## 4171	275	334.964372	321.523253812	316.20792	265.23300499	1
## 4172	604	616.147136	329.511973574	316.20792	272.53835840	1
## 4173	591	578.963358	343.577693927	316.20792	289.31871696	1
## 4174	396	427.764472	324.172459488	316.20792	267.47012357	1
## 4175	305	332.993153	317.673742863	316.20792	264.28214694	1
## 4176	242	255.430694	323.401545762	316.20792	272.45697576	1
## 4177	145	172.138462	316.199647083	316.20792	266.58641448	1
## 4178	81	113.487442	323.686689090	316.20792	274.08469691	1
## 4179	30	36.292238	126.327873387	32.32174	82.14792249	1
## 4180	13	18.628202	142.072925446	32.32174	93.65048953	1
## 4181	11	12.298322	147.880635746	32.32174	106.42656348	1
## 4182	2	7.815600	155.367677753	32.32174	113.92484592	1
## 4183	8	8.819659	164.534051467	32.32174	116.14533682	1
## 4184	21	26.947722	163.181498266	32.32174	115.23101853	1
## 4185	124	131.163604	162.383324363	32.32174	111.15049822	1
## 4186	347	381.767098	176.221389604	316.20792	123.41209462	1
## 4187	456	501.525696	197.895694542	316.20792	144.47214978	1
## 4188	246	264.828791	234.206238624	316.20792	181.87432165	1
## 4189	157	187.126044	308.413470010	316.20792	247.34443499	1
## 4190	167	179.004081	325.615275801	316.20792	267.17146278	1
## 4191	202	216.201394	340.511081577	316.20792	276.07328074	1
## 4192	189	195.078729	350.858502897	316.20792	291.33057099	1
## 4193	160	193.779175	367.964207475	316.20792	302.33553913	1
## 4194	166	187.234132	378.311628796	316.20792	317.59282938	1
## 4195	261	279.347182	377.313634076	316.20792	310.63614800	1
## 4196	579	514.862473	349.854232494	316.20792	299.84917589	1
## 4197	504	495.782422	353.952666702	316.20792	304.39790100	1
## 4198	299	352.152432	341.705585676	316.20792	284.37716058	1
## 4199	296	318.380607	334.242891118	316.20792	281.18062984	1
## 4200	195	225.385695	337.664694003	316.20792	278.43024882	1
## 4201	134	155.300923	324.864288722	316.20792	267.50698004	1
## 4202	81	110.124021	332.100491852	316.20792	275.10172699	1
## 4203	36	39.474686	132.480759286	32.32174	84.03442797	1
## 4204	28	26.127899	141.897971878	32.32174	86.15845437	1
## 4205	16	14.163795	133.440195328	32.32174	80.77086305	1
## 4206	5	8.566639	137.237827642	32.32174	94.31994790	1

## 4207	5	8.292267	146.404201357	32.32174	96.54043881	1
## 4208	22	28.503795	149.548614633	32.32174	98.50304379	1
## 4209	116	119.423520	195.582824455	32.32174	139.72512534	1
## 4210	336	356.011352	246.661161580	316.20792	189.16611641	1
## 4211	540	511.052092	268.412635392	316.20792	208.89679448	1
## 4212	221	243.297123	290.137958391	316.20792	226.98422405	1
## 4213	126	157.166454	308.344803175	316.20792	246.42474640	1
## 4214	170	190.984653	336.145443282	316.20792	273.98782853	1
## 4215	243	239.056118	344.134163044	316.20792	281.29318194	1
## 4216	231	239.302648	373.417052569	316.20792	306.63293369	1
## 4217	188	203.222950	378.641494230	316.20792	315.00133894	1
## 4218	189	212.780597	393.686102762	316.20792	329.75194356	1
## 4219	328	362.452232	405.444139618	316.20792	335.60773969	1
## 4220	570	666.284234	421.770776833	316.20792	351.51862284	1
## 4221	588	624.915805	414.768698970	316.20792	348.52422264	1
## 4222	401	482.786589	398.806057439	316.20792	332.91103614	1
## 4223	333	379.848096	394.515556133	316.20792	331.82685711	1
## 4224	221	281.761991	390.477577188	316.20792	330.64556615	1
## 4225	183	209.827059	384.982216073	316.20792	327.07173148	1
## 4226	129	147.230710	375.570418591	316.20792	319.09802003	1
## 4227	54	57.870818	190.387732790	32.32174	135.56475959	1
## 4228	32	28.450864	184.892371675	32.32174	131.99092492	1
## 4229	8	13.487201	177.690472995	32.32174	126.12036365	1
## 4230	9	11.232435	173.201834355	32.32174	122.15937612	1
## 4231	6	9.020805	165.496574438	32.32174	116.48239128	1
## 4232	25	27.941761	174.993694431	32.32174	123.20766281	1
## 4233	123	130.217170	188.330081916	32.32174	135.66218823	1
## 4234	320	376.943220	207.794488052	316.20792	154.61909321	1
## 4235	555	520.695757	263.768149723	316.20792	206.43020712	1
## 4236	260	248.584383	288.154031219	316.20792	229.40048344	1
## 4237	132	169.150132	300.987057466	316.20792	242.04858529	1
## 4238	169	185.493546	324.367899969	316.20792	265.40536706	1
## 4239	233	232.107090	342.627446296	316.20792	281.87261641	1
## 4240	232	232.207818	355.035963663	316.20792	293.38427018	1
## 4241	163	201.805461	372.792148752	316.20792	310.04509596	1
## 4242	240	254.017970	394.543622564	316.20792	329.77577402	1
## 4243	323	353.946260	403.660033262	316.20792	340.90016016	1
## 4244	594	652.747120	406.857148082	316.20792	339.88949214	1
## 4245	586	620.629242	402.315807899	316.20792	338.90177761	1
## 4246	455	477.768720	394.108870227	316.20792	333.41772178	1
## 4247	340	392.889716	401.595912234	316.20792	340.91600422	1
## 4248	323	308.845306	392.887296806	316.20792	335.62487741	1
## 4249	207	219.325598	384.480538318	316.20792	327.26466050	1
## 4250	126	137.213058	359.825420851	316.20792	309.08830736	1
## 4251	68	59.298989	187.792300141	32.32174	137.15516306	1
## 4252	31	28.756153	195.279342148	32.32174	144.65344549	1
## 4253	13	13.980008	149.079615959	32.32174	102.27938853	1
## 4254	11	13.253982	197.774384278	32.32174	148.38431683	1
## 4255	6	11.453749	190.572485598	32.32174	142.51375555	1
## 4256	30	30.051132	179.001807375	32.32174	129.46426833	1
## 4257	108	120.641816	198.967891267	32.32174	148.22824429	1
## 4258	243	323.369993	233.121238090	316.20792	180.55399298	1
## 4259	492	519.368404	279.830795671	316.20792	222.81605810	1
## 4260	260	242.773206	314.485820249	316.20792	254.94887776	1

## 4261	170	183.002039	332.242005338	316.20792	271.60970354	1
## 4262	214	208.412015	364.132751816	316.20792	304.80557504	1
## 4263	263	251.784496	371.619793823	316.20792	312.30385748	1
## 4264	292	270.977773	383.526633434	316.20792	324.00844027	1
## 4265	303	294.370172	402.338875577	316.20792	337.31013501	1
## 4266	381	311.092673	415.250754181	316.20792	348.62821236	1
## 4267	427	389.950391	427.306396548	316.20792	366.18158181	1
## 4268	461	559.669153	429.219799202	316.20792	364.01128267	1
## 4269	422	546.840277	425.232838317	316.20792	359.85736612	1
## 4270	318	429.551828	423.655597052	316.20792	360.68276084	1
## 4271	269	322.692420	376.529684226	316.20792	317.36518481	1
## 4272	218	263.105420	371.034323111	316.20792	313.79135015	1
## 4273	222	217.668558	381.885105669	316.20792	328.85506398	1
## 4274	140	146.364171	373.981708418	316.20792	320.30127064	1
## 4275	115	126.009768	198.105018943	32.32174	156.72832695	1
## 4276	78	89.181143	182.765023628	32.32174	145.12839701	1
## 4277	52	64.767718	186.612618958	32.32174	149.77358664	1
## 4278	26	39.216734	194.099660965	32.32174	157.27186907	1
## 4279	11	14.888015	178.058167078	32.32174	142.98870707	1
## 4280	14	14.977425	149.086971611	32.32174	114.66015498	1
## 4281	32	30.561312	177.112299783	32.32174	140.48352411	1
## 4282	45	76.194189	197.529043369	316.20792	162.02719663	1
## 4283	132	150.385979	234.393966749	316.20792	196.26316648	1
## 4284	179	208.632075	274.196838233	316.20792	230.66899707	1
## 4285	271	323.339958	330.871998476	316.20792	285.16334305	1
## 4286	357	364.463365	339.867440713	316.20792	292.08154360	1
## 4287	374	385.400170	367.215737644	316.20792	316.86557657	1
## 4288	404	398.576945	374.201101895	316.20792	324.55678802	1
## 4289	392	375.787653	407.877238294	316.20792	358.71936163	1
## 4290	331	353.879190	426.187802681	316.20792	372.21398540	1
## 4291	398	377.080064	433.899532753	316.20792	377.97255482	1
## 4292	349	393.832663	412.008693387	316.20792	358.73314984	1
## 4293	383	407.099086	414.651428909	316.20792	360.88868384	1
## 4294	305	340.111869	408.654390039	316.20792	357.50777819	1
## 4295	284	309.769600	378.928994457	316.20792	329.46926704	1
## 4296	232	242.053193	372.428594349	316.20792	326.28193782	1
## 4297	201	209.944261	366.934916717	316.20792	322.70745574	1
## 4298	154	160.213706	369.802340303	316.20792	323.12327674	1
## 4299	144	135.059239	181.906394462	32.32174	137.68044255	1
## 4300	78	88.263017	180.079369363	32.32174	144.53357141	1
## 4301	69	73.225964	196.377117238	32.32174	152.87058384	1
## 4302	33	32.979188	177.429303113	32.32174	151.92205405	1
## 4303	5	13.549567	184.916345120	32.32174	159.42033648	1
## 4304	1	10.177267	136.834727880	32.32174	113.51728773	1
## 4305	3	14.636702	119.934659146	32.32174	93.27902563	1
## 4306	25	48.562263	146.078096267	316.20792	115.57340297	1
## 4307	92	122.566855	189.545510196	316.20792	148.54430523	1
## 4308	181	225.447615	214.433069447	316.20792	171.32165253	1
## 4309	264	315.574636	249.791276079	316.20792	206.13705684	1
## 4310	390	391.202910	270.962219780	316.20792	227.39068843	1
## 4311	404	436.964949	305.617244358	316.20792	259.52350810	1
## 4312	421	395.031241	306.274769142	316.20792	257.83617891	1
## 4313	375	365.266499	326.742530789	316.20792	276.40722585	1
## 4314	376	364.764560	347.462814796	316.20792	294.88116087	1

## 4315	414	387.992169	354.949856803	316.20792	302.37944330	1
## 4316	358	320.465266	365.515329459	316.20792	315.35840999	1
## 4317	181	284.650673	373.002371466	316.20792	322.85669242	1
## 4318	183	227.905557	255.031338643	316.20792	223.12793622	1
## 4319	176	194.142102	257.573093087	316.20792	237.15999104	1
## 4320	167	172.194940	269.503744902	316.20792	238.31743011	1
## 4321	162	170.256638	287.035241926	316.20792	256.71796889	1
## 4322	147	138.762825	280.307815145	316.20792	243.07996046	1
## 4323	140	126.422747	83.982498641	32.32174	51.70307137	1
## 4324	119	103.476169	90.717024015	32.32174	59.49074733	1
## 4325	63	71.700119	96.695665792	32.32174	67.56911164	1
## 4326	26	30.508460	115.232201809	32.32174	85.58314498	1
## 4327	12	14.812142	128.397657818	32.32174	102.73538004	1
## 4328	4	11.511965	119.738376969	32.32174	94.47227506	1
## 4329	16	27.328690	116.148719108	32.32174	83.88028845	1
## 4330	36	73.884921	142.241138168	316.20792	109.14729138	1
## 4331	86	121.063086	180.814282595	316.20792	145.67934043	1
## 4332	238	253.466892	209.899689912	316.20792	180.33332332	1
## 4333	280	324.605679	253.394309699	316.20792	220.87874371	1
## 4334	349	361.899943	260.881351706	316.20792	228.37702614	1
## 4335	447	419.991671	279.339035367	316.20792	247.72108398	1
## 4336	423	418.828156	293.455773780	316.20792	261.52881695	1
## 4337	408	419.778974	315.101189379	316.20792	275.01500139	1
## 4338	408	421.152023	336.575673501	316.20792	293.19889547	1
## 4339	452	443.579032	346.974112882	316.20792	305.48356014	1
## 4340	436	429.586194	337.562315400	316.20792	297.50984868	1
## 4341	418	419.232841	347.310274270	316.20792	304.13865571	1
## 4342	375	374.501830	341.142303923	316.20792	305.45545971	1
## 4343	386	365.527303	328.515568647	316.20792	295.76510352	1
## 4344	457	359.215815	314.683973561	316.20792	283.58509170	1
## 4345	326	302.555882	322.672693323	316.20792	290.89044512	1
## 4346	138	129.736118	306.129521680	316.20792	276.80021214	1
## 4347	55	57.607043	167.427455459	32.32174	119.73513602	1
## 4348	39	32.216306	175.588790181	32.32174	122.34213237	1
## 4349	13	13.847526	151.237213135	32.32174	101.09604172	1
## 4350	8	8.894978	160.985172005	32.32174	107.72484874	1
## 4351	5	7.308058	178.516669030	32.32174	126.12538753	1
## 4352	20	27.281145	183.239432937	32.32174	134.68672179	1
## 4353	94	119.665721	181.185381164	32.32174	131.08917144	1
## 4354	270	345.227100	220.260203346	316.20792	167.42829147	1
## 4355	432	516.966364	240.978803870	316.20792	185.90287390	1
## 4356	227	262.628598	263.154786563	316.20792	206.77000004	1
## 4357	139	183.787724	289.248889106	316.20792	232.03635556	1
## 4358	172	200.762656	315.844669404	316.20792	257.10978206	1
## 4359	201	232.955765	335.810753295	316.20792	275.87375802	1
## 4360	203	217.452765	349.147140781	316.20792	288.32828344	1
## 4361	178	223.721966	338.530483490	316.20792	277.86491635	1
## 4362	162	206.206841	362.361985687	316.20792	304.00139469	1
## 4363	281	359.127449	364.978570395	316.20792	304.51368019	1
## 4364	545	581.539506	372.465612402	316.20792	312.01196262	1
## 4365	496	589.673675	355.219258705	316.20792	295.23914500	1
## 4366	368	445.844915	353.363344267	316.20792	294.51840314	1
## 4367	284	352.211216	333.180725947	316.20792	277.57507735	1
## 4368	245	255.112018	357.868464382	316.20792	297.47626358	1

## 4369	155	174.296881	350.164887947	316.20792	291.79863132	1
## 4370	73	108.182832	350.797545483	316.20792	294.72717621	1
## 4371	37	49.288446	155.568721181	32.32174	100.29230684	1
## 4372	15	19.543428	156.201378717	32.32174	103.22085173	1
## 4373	5	10.989689	151.886410081	32.32174	100.49277679	1
## 4374	6	8.009079	157.865051858	32.32174	108.57114110	1
## 4375	6	8.922623	150.492221702	32.32174	107.39828947	1
## 4376	35	31.204081	159.658595416	32.32174	109.61878037	1
## 4377	121	124.690533	181.834578110	32.32174	130.48590651	1
## 4378	312	342.119551	191.983233657	316.20792	148.79830534	1
## 4379	428	569.563650	212.279008783	316.20792	166.13579228	1
## 4380	189	229.682270	202.694596342	316.20792	162.86043788	1
## 4381	43	131.025726	208.424082723	316.20792	171.03461929	1
## 4382	127	185.383063	232.980895696	316.20792	189.30718597	1
## 4383	152	196.199572	265.504873828	316.20792	218.00683095	1
## 4384	140	184.625388	264.403159504	316.20792	216.99604815	1
## 4385	163	194.630152	291.273590883	316.20792	231.42586642	1
## 4386	185	209.656740	289.921037682	316.20792	230.51154813	1
## 4387	275	309.493845	296.904718452	316.20792	238.20340699	1
## 4388	596	603.617050	334.048315004	316.20792	273.98551341	1
## 4389	563	601.134001	328.552953890	316.20792	270.41167875	1
## 4390	394	433.386229	313.014821239	316.20792	255.93494032	1
## 4391	312	330.817510	306.314600315	316.20792	249.87145002	1
## 4392	241	252.879219	295.897763841	316.20792	242.28424402	1
## 4393	186	179.749900	303.384805848	316.20792	249.78252645	1
## 4394	98	125.797797	296.686268406	316.20792	243.71838874	1
## 4395	35	44.720525	103.867163723	32.32174	54.26283062	1
## 4396	16	19.983553	112.359244723	32.32174	61.37460760	1
## 4397	8	13.022345	119.846286730	32.32174	68.87289004	1
## 4398	4	7.277125	108.927772500	32.32174	61.47861305	1
## 4399	4	7.604740	127.464308518	32.32174	79.49264638	1
## 4400	32	30.712722	134.951350525	32.32174	86.99092881	1
## 4401	118	131.102527	141.260738580	32.32174	99.57407375	1
## 4402	292	363.494432	154.095448310	316.20792	112.22152819	1
## 4403	443	490.917184	196.886886042	316.20792	150.08436393	1
## 4404	179	241.933639	237.139362176	316.20792	181.33862145	1
## 4405	101	167.985309	271.240007456	316.20792	216.63764313	1
## 4406	142	170.299701	314.785645303	316.20792	254.21043793	1
## 4407	171	196.285306	350.170002748	316.20792	290.66909074	1
## 4408	155	189.581277	363.506390233	316.20792	303.12361616	1
## 4409	160	189.678027	375.264427089	316.20792	308.97941229	1
## 4410	166	205.648212	382.751469096	316.20792	316.47769472	1
## 4411	265	325.803579	394.156630952	316.20792	328.37520653	1
## 4412	569	604.433438	408.775047120	316.20792	341.99001049	1
## 4413	562	538.756838	393.487753348	316.20792	327.41680755	1
## 4414	365	448.606824	377.195420582	316.20792	313.23011006	1
## 4415	285	326.361395	355.130911212	316.20792	292.75779249	1
## 4416	209	259.526764	344.663056677	316.20792	288.14321207	1
## 4417	182	206.576224	352.150098684	316.20792	295.64149450	1
## 4418	129	143.352580	342.183921904	316.20792	290.83398506	1
## 4419	47	54.548477	177.590540328	32.32174	122.65318573	1
## 4420	34	24.080084	148.740313322	32.32174	98.53081922	1
## 4421	22	16.969268	162.512450255	32.32174	115.80334926	1
## 4422	6	8.196382	153.774945488	32.32174	102.93835172	1

## 4423	11	11.007253	169.623088714	32.32174	114.42693723	1
## 4424	27	28.677748	171.260785242	32.32174	116.96897667	1
## 4425	102	122.190933	193.134910998	32.32174	140.90519291	1
## 4426	332	370.156057	189.399844035	316.20792	142.58608150	1
## 4427	457	506.322533	214.790764523	316.20792	165.16985237	1
## 4428	241	233.878231	243.570292810	316.20792	190.70318055	1
## 4429	138	183.472276	246.213028332	316.20792	192.85871455	1
## 4430	165	183.453824	243.101236023	316.20792	192.62094265	1
## 4431	213	210.799208	265.780579954	316.20792	213.29449236	1
## 4432	229	212.941098	287.956562647	316.20792	234.16161850	1
## 4433	216	196.657555	309.178524409	316.20792	252.44262450	1
## 4434	141	189.461977	316.665566416	316.20792	259.94090693	1
## 4435	132	189.524136	244.687628035	316.20792	200.33643748	1
## 4436	167	211.711597	233.065931752	316.20792	190.25957585	1
## 4437	316	369.192612	251.140796029	316.20792	202.14020900	1
## 4438	270	288.366761	258.627838036	316.20792	209.63849143	1
## 4439	250	271.351894	267.370757914	316.20792	216.65380391	1
## 4440	204	202.268064	274.685184961	316.20792	228.85044340	1
## 4441	169	178.929346	292.216681986	316.20792	247.25098218	1
## 4442	151	157.054042	297.946168368	316.20792	255.42516359	1
## 4443	121	121.728489	111.772501516	32.32174	81.04707547	1
## 4444	53	85.365676	99.649127477	32.32174	71.16314285	1
## 4445	55	73.042292	109.820540184	32.32174	72.99712831	1
## 4446	30	32.087087	116.804220954	32.32174	80.68898717	1
## 4447	6	11.490684	139.059056003	32.32174	100.22608881	1
## 4448	15	15.129087	126.962887822	32.32174	97.91667432	1
## 4449	38	32.374925	151.850447073	32.32174	120.69402163	1
## 4450	71	64.673975	177.915660276	316.20792	138.38650642	1
## 4451	182	164.408223	215.785622648	316.20792	172.23597082	1
## 4452	247	229.223681	261.993502474	316.20792	214.69096496	1
## 4453	264	314.942306	286.579204787	316.20792	240.53740235	1
## 4454	290	359.924286	315.435901947	316.20792	264.74135345	1
## 4455	366	398.551672	328.018089317	316.20792	277.48591981	1
## 4456	416	433.086124	351.902293058	316.20792	300.64912514	1
## 4457	373	383.887152	374.779774323	316.20792	324.19948334	1
## 4458	402	395.970605	385.934097302	316.20792	336.19345966	1
## 4459	416	426.138109	377.223798392	316.20792	330.90298026	1
## 4460	401	415.223053	403.819578690	316.20792	355.97640676	1
## 4461	378	406.811379	398.376919118	316.20792	349.42929910	1
## 4462	306	372.939781	347.332886444	316.20792	301.71249370	1
## 4463	314	287.774468	349.195271037	316.20792	302.51482014	1
## 4464	238	232.847497	349.827928574	316.20792	305.44336503	1
## 4465	214	197.548237	342.626029894	316.20792	299.57280376	1
## 4466	140	147.816646	359.454344865	316.20792	315.29075789	1
## 4467	154	143.873674	174.271659063	32.32174	131.75749745	1
## 4468	113	101.770278	181.255339832	32.32174	139.44935632	1
## 4469	96	87.281677	164.461329312	32.32174	125.45558785	1
## 4470	25	31.537437	155.049531830	32.32174	117.48187639	1
## 4471	5	11.452687	173.586067848	32.32174	135.49590972	1
## 4472	17	16.866834	168.515215614	32.32174	133.05852313	1
## 4473	25	29.665293	162.821717165	32.32174	126.60787998	1
## 4474	65	84.710687	205.535986023	316.20792	165.80009281	1
## 4475	92	140.554583	226.203568487	316.20792	187.24730083	1
## 4476	169	211.743233	241.048356202	316.20792	199.12174437	1

## 4477	268	316.476276	279.446147143	316.20792	234.42152824	1
## 4478	287	359.263822	293.787573621	316.20792	246.48954821	1
## 4479	377	384.643415	334.370796033	316.20792	282.24858636	1
## 4480	367	408.184083	336.259331440	316.20792	284.69416130	1
## 4481	349	385.248772	361.148574173	316.20792	307.47086119	1
## 4482	361	408.125551	378.150559147	316.20792	324.42172790	1
## 4483	372	408.780261	381.217803550	316.20792	327.71370998	1
## 4484	363	401.032923	398.749300575	316.20792	346.11424876	1
## 4485	363	409.109730	385.922744482	316.20792	333.54773149	1
## 4486	303	329.697600	375.055248313	316.20792	323.18082892	1
## 4487	268	293.771566	355.321606206	316.20792	309.01784711	1
## 4488	227	225.394515	342.495050113	316.20792	296.45132985	1
## 4489	143	158.991278	340.640819157	316.20792	295.72994057	1
## 4490	72	105.882948	342.780193441	316.20792	298.07905100	1
## 4491	35	53.731042	169.608464922	32.32174	114.26441547	1
## 4492	10	20.983398	187.443502367	32.32174	129.59521675	1
## 4493	12	14.605030	193.925505382	32.32174	137.48000463	1
## 4494	10	10.434672	185.718567710	32.32174	131.99594880	1
## 4495	4	7.452382	168.472214012	32.32174	115.22313117	1
## 4496	26	31.075487	174.450855789	32.32174	123.30149549	1
## 4497	121	129.976696	188.792282267	32.32174	135.36951545	1
## 4498	317	411.985488	203.133708745	316.20792	147.43753542	1
## 4499	420	453.524177	240.501993363	316.20792	181.47992884	1
## 4500	208	225.145632	275.407856818	316.20792	213.51628400	1
## 4501	117	161.085777	298.588878505	316.20792	233.99690469	1
## 4502	128	166.254707	308.710328195	316.20792	244.73478538	1
## 4503	148	194.681466	328.425573209	316.20792	263.59522584	1
## 4504	141	163.948769	347.888295863	316.20792	282.55277823	1
## 4505	134	161.098958	349.249002701	316.20792	283.54803369	1
## 4506	146	185.756451	352.367265165	316.20792	283.86739018	1
## 4507	239	281.831407	359.352629417	316.20792	291.55860163	1
## 4508	514	517.299078	367.341349179	316.20792	298.86395504	1
## 4509	472	509.582533	380.956409837	316.20792	312.86461703	1
## 4510	373	412.481927	368.329674561	316.20792	303.17426084	1
## 4511	236	293.711896	309.078878415	316.20792	248.80839819	1
## 4512	130	188.077644	299.667080934	316.20792	240.83468673	1
## 4513	90	155.186627	319.278606344	316.20792	265.64102578	1
## 4514	55	104.985723	309.866808862	316.20792	257.66731433	1
## 4515	22	35.976859	137.664842700	32.32174	85.20681840	1
## 4516	14	18.161931	144.399368074	32.32174	92.99449436	1
## 4517	9	12.928603	152.137248959	32.32174	100.39631228	1
## 4518	8	9.270289	156.185720151	32.32174	113.84893262	1
## 4519	6	8.627629	168.116371966	32.32174	115.00637169	1
## 4520	25	26.200423	174.347536103	32.32174	122.98762408	1
## 4521	115	118.328350	242.202060773	32.32174	183.69507087	1
## 4522	330	354.683908	261.664783427	316.20792	202.65262326	1
## 4523	417	485.180589	263.025490265	316.20792	203.64787872	1
## 4524	176	215.742485	287.513407882	316.20792	220.67290387	1
## 4525	123	152.723128	307.801964533	316.20792	246.51857907	1
## 4526	125	160.051139	315.289006540	316.20792	254.01686150	1
## 4527	163	189.762744	354.414846783	316.20792	287.38335594	1
## 4528	136	188.606654	354.016314514	316.20792	289.05515779	1
## 4529	124	170.707061	385.507419358	316.20792	316.49870714	1
## 4530	148	188.273013	393.999500358	316.20792	323.61048412	1

## 4531	202	269.607249	384.112175934	316.20792	317.47295018	1
## 4532	428	480.106876	397.448563419	316.20792	329.92747560	1
## 4533	511	504.703289	392.707402420	316.20792	326.06359999	1
## 4534	337	427.941202	400.723956477	316.20792	335.01155449	1
## 4535	308	343.317072	403.063151578	316.20792	340.23682599	1
## 4536	258	275.067430	409.043476837	316.20792	348.31454289	1
## 4537	194	209.887422	404.553154715	316.20792	344.35420278	1
## 4538	79	121.191523	390.670541568	316.20792	335.14681655	1
## 4539	46	58.072358	190.520241907	32.32174	136.69857583	1
## 4540	12	20.179472	213.476575529	32.32174	158.91890952	1
## 4541	5	12.704014	220.963617536	32.32174	166.41719195	1
## 4542	4	11.760212	219.237573514	32.32174	161.39380000	1
## 4543	5	12.068927	227.729654514	32.32174	168.50557699	1
## 4544	26	27.609510	234.211657528	32.32174	176.39036487	1
## 4545	121	122.529394	241.197021780	32.32174	184.08157632	1
## 4546	313	358.146527	262.669822419	316.20792	202.26611781	1
## 4547	449	466.074130	295.114948195	316.20792	232.29578730	1
## 4548	186	218.180013	325.125487104	316.20792	261.96201961	1
## 4549	113	163.080624	321.563035101	316.20792	258.94455114	1
## 4550	165	188.232519	349.867036446	316.20792	286.31405683	1
## 4551	174	197.982394	354.944358834	316.20792	288.83302801	1
## 4552	158	164.970637	339.660458715	316.20792	292.38148693	1
## 4553	116	162.923200	347.147500722	316.20792	299.87976936	1
## 4554	46	86.768757	195.915290926	316.20792	161.82065626	1
## 4555	141	199.860240	219.719587265	316.20792	180.38261646	1
## 4556	488	424.738768	262.683639957	316.20792	213.54709514	1
## 4557	463	433.536781	278.280944305	316.20792	225.13214515	1
## 4558	419	364.134660	279.416963079	316.20792	227.86711362	1
## 4559	342	324.146831	276.859550068	316.20792	224.46313970	1
## 4560	250	256.554478	294.391047093	316.20792	242.86367848	1
## 4561	184	181.251333	288.695865161	316.20792	236.41368274	1
## 4562	116	133.815749	291.338600683	316.20792	238.56921674	1
## 4563	46	52.460785	150.829417865	32.32174	95.26278239	1
## 4564	25	24.149026	175.241450173	32.32174	119.87630721	1
## 4565	10	12.471645	186.472942026	32.32174	130.54090644	1
## 4566	6	8.990921	188.110638554	32.32174	133.08294588	1
## 4567	6	8.918630	203.683075655	32.32174	149.28386997	1
## 4568	28	30.505745	198.189398022	32.32174	145.70938790	1
## 4569	130	128.413031	196.836844821	32.32174	144.79506961	1
## 4570	334	356.236175	226.144201676	316.20792	171.77871727	1
## 4571	486	492.525430	247.869524675	316.20792	189.86614684	1
## 4572	224	237.464238	272.429076175	316.20792	214.06933574	1
## 4573	127	177.597768	296.311596433	316.20792	237.23318849	1
## 4574	148	183.911355	320.195800173	316.20792	260.39639383	1
## 4575	223	230.911939	338.453663018	316.20792	276.86429059	1
## 4576	177	206.091863	357.467409460	316.20792	293.04149900	1
## 4577	178	206.925330	353.931108269	316.20792	291.66727902	1
## 4578	180	213.806879	371.938132236	316.20792	308.23164029	1
## 4579	274	360.568330	376.660896143	316.20792	316.79297456	1
## 4580	595	642.329942	369.458997463	316.20792	310.92241329	1
## 4581	578	611.920069	361.052238975	316.20792	302.56219638	1
## 4582	400	438.307194	375.672338625	316.20792	316.17635292	1
## 4583	348	338.006191	370.680338748	316.20792	312.40894183	1
## 4584	261	268.318393	347.281099152	316.20792	293.74961872	1

## 4585	176	198.831184	332.696987433	316.20792	281.85900043	1
## 4586	124	133.493255	325.267433642	316.20792	271.46967700	1
## 4587	80	58.029648	129.035253830	32.32174	77.42066566	1
## 4588	20	21.945897	136.018934599	32.32174	85.11252452	1
## 4589	38	22.736469	126.105459363	32.32174	77.33174208	1
## 4590	7	9.465021	145.143673135	32.32174	95.15284640	1
## 4591	10	10.338752	152.129037387	32.32174	102.84405785	1
## 4592	23	28.746750	159.112718157	32.32174	110.53591671	1
## 4593	120	130.445615	164.418750701	32.32174	123.50491968	1
## 4594	274	354.993641	202.963005789	316.20792	152.46309800	1
## 4595	564	520.404205	212.961803536	316.20792	158.99544052	1
## 4596	207	245.517701	255.451384330	316.20792	199.92736636	1
## 4597	166	197.447652	239.438779782	316.20792	193.21807508	1
## 4598	210	228.992357	275.269774829	316.20792	220.26667966	1
## 4599	238	253.410643	297.021248642	316.20792	239.99735772	1
## 4600	247	260.468401	291.248897836	316.20792	234.87673907	1
## 4601	265	256.363577	305.365636249	316.20792	248.68447204	1
## 4602	237	258.545312	331.459738792	316.20792	273.95082756	1
## 4603	361	390.779867	326.189065742	316.20792	268.63727989	1
## 4604	587	634.077575	360.419581438	316.20792	299.63365149	1
## 4605	496	580.182998	354.925903806	316.20792	296.05916941	1
## 4606	394	450.788803	356.563600335	316.20792	298.60120886	1
## 4607	343	364.724078	350.791249529	316.20792	293.48059020	1
## 4608	261	273.215749	337.939826188	316.20792	285.52994702	1
## 4609	223	221.810050	340.807249775	316.20792	285.94576801	1
## 4610	167	157.778338	332.600312102	316.20792	280.46171219	1
## 4611	110	117.896001	142.536359697	32.32174	103.32699577	1
## 4612	75	90.051551	133.827744270	32.32174	98.03586896	1
## 4613	58	76.110922	132.976868823	32.32174	96.92862165	1
## 4614	26	30.883494	129.414416820	32.32174	93.91115318	1
## 4615	16	14.203955	147.198436205	32.32174	112.21458004	1
## 4616	10	13.199479	137.786638723	32.32174	104.24086859	1
## 4617	37	31.118278	152.378904079	32.32174	116.21242405	1
## 4618	52	60.615810	176.261424337	316.20792	139.37627680	1
## 4619	127	143.244973	213.629708955	316.20792	173.41867021	1
## 4620	222	217.276844	258.129367734	316.20792	213.57758515	1
## 4621	322	339.584951	270.962393981	316.20792	226.22568700	1
## 4622	396	418.678989	298.061535517	316.20792	251.10553707	1
## 4623	463	447.810705	323.452456005	316.20792	273.68930794	1
## 4624	497	443.272482	326.770539285	316.20792	276.88482551	1
## 4625	433	423.686251	328.408235814	316.20792	279.42686495	1
## 4626	428	438.266557	342.247984537	316.20792	291.68781394	1
## 4627	425	422.285718	348.980826429	316.20792	299.47613731	1
## 4628	475	449.527905	355.462829443	316.20792	307.36092519	1
## 4629	428	412.283168	363.954910443	316.20792	314.47270217	1
## 4630	406	379.985934	357.454510335	316.20792	311.28537296	1
## 4631	296	298.834535	352.965871695	316.20792	307.32438543	1
## 4632	252	242.130492	339.134276610	316.20792	295.14437361	1
## 4633	201	195.322766	332.157065995	316.20792	287.53409933	1
## 4634	168	163.305777	341.629318739	316.20792	298.87524495	1
## 4635	125	125.830032	154.738411891	32.32174	113.04590531	1
## 4636	102	96.562236	147.033151974	32.32174	107.36892047	1
## 4637	94	81.219930	155.023555218	32.32174	114.67362647	1
## 4638	47	43.841674	162.510597225	32.32174	122.17190890	1

## 4639	10	12.396736	154.303659553	32.32174	116.68785307	1
## 4640	12	15.943842	177.484681240	32.32174	137.16847376	1
## 4641	21	24.274738	169.277743567	32.32174	131.68441794	1
## 4642	50	65.878880	182.614131053	316.20792	144.13894335	1
## 4643	118	140.624179	220.484093425	316.20792	177.98840775	1
## 4644	184	221.592463	255.139118003	316.20792	210.12122742	1
## 4645	304	319.250919	264.055707885	316.20792	218.36945248	1
## 4646	391	409.172049	289.446628373	316.20792	240.95322335	1
## 4647	420	429.927023	296.933670380	316.20792	248.45150578	1
## 4648	472	439.565906	329.629635033	316.20792	278.38471076	1
## 4649	430	437.800997	338.121716033	316.20792	285.49648774	1
## 4650	324	373.185019	363.712457338	316.20792	310.95641969	1
## 4651	317	387.541424	358.720457461	316.20792	307.18900859	1
## 4652	369	408.204936	361.086203292	316.20792	307.79775860	1
## 4653	390	394.826714	373.694541475	316.20792	322.18557346	1
## 4654	379	367.605252	349.342964429	316.20792	300.93948280	1
## 4655	262	284.155918	349.696948793	316.20792	302.32189112	1
## 4656	207	222.744148	341.993372358	316.20792	296.64425886	1
## 4657	181	169.306187	334.791473678	316.20792	290.77369759	1
## 4658	93	110.557211	317.241579560	316.20792	277.07061747	1
## 4659	51	51.805270	148.714336710	32.32174	95.72256930	1
## 4660	25	25.567659	157.709778948	32.32174	102.64076985	1
## 4661	10	13.496205	133.609040780	32.32174	81.29821469	1
## 4662	7	8.735344	151.642215560	32.32174	99.50582445	1
## 4663	4	8.161363	152.778234333	32.32174	102.24079292	1
## 4664	17	31.095199	159.260237348	32.32174	110.12558080	1
## 4665	105	131.819152	155.697785344	32.32174	107.10811233	1
## 4666	277	381.073186	196.782685512	316.20792	142.67422146	1
## 4667	347	492.005820	218.455306968	316.20792	163.73492403	1
## 4668	203	233.889790	244.774097575	316.20792	187.26156654	1
## 4669	130	186.116763	268.656617833	316.20792	210.42541929	1
## 4670	141	180.763888	301.554086786	316.20792	243.23413793	1
## 4671	165	199.140756	301.959089210	316.20792	241.64392067	1
## 4672	152	180.710478	322.930212094	316.20792	260.02139118	1
## 4673	138	172.198338	331.674815454	316.20792	267.03605624	1
## 4674	164	189.051551	351.640899345	316.20792	285.80003220	1
## 4675	265	335.427580	358.373741237	316.20792	293.58835557	1
## 4676	545	545.327158	375.454578568	316.20792	309.20919778	1
## 4677	558	585.642778	377.593952852	316.20792	311.55830821	1
## 4678	398	459.169176	363.711339705	316.20792	302.35092198	1
## 4679	323	345.339863	356.509441026	316.20792	296.48036071	1
## 4680	202	272.100814	336.325139224	316.20792	279.53768233	1
## 4681	140	174.296881	350.164887947	316.20792	291.79863132	1
## 4682	91	108.182832	350.797545483	316.20792	294.72717621	1
## 4683	51	54.548477	177.590540328	32.32174	122.65318573	1
## 4684	13	19.489639	183.899928383	32.32174	135.23633067	1
## 4685	13	13.487920	178.880722649	32.32174	123.89440144	1
## 4686	3	8.892562	186.367764656	32.32174	131.39268387	1
## 4687	5	7.588216	193.351445425	32.32174	139.08454273	1
## 4688	19	29.352475	183.968537283	32.32174	138.68470200	1
## 4689	134	127.650492	197.304924769	32.32174	151.13922742	1
## 4690	315	370.795491	220.485946455	316.20792	171.61984811	1
## 4691	412	427.165781	233.822333940	316.20792	184.07437353	1
## 4692	199	226.043612	267.973997281	316.20792	216.40076962	1

## 4693	141	165.036749	297.283037618	316.20792	243.38376987	1
## 4694	127	146.331264	297.055436825	316.20792	240.35786208	1
## 4695	153	180.728846	318.529920947	316.20792	258.54175616	1
## 4696	172	178.077382	338.746843716	316.20792	277.20926761	1
## 4697	152	156.821249	354.370298877	316.20792	290.43756611	1
## 4698	158	199.255319	380.966079175	316.20792	315.51099261	1
## 4699	277	282.964446	400.481503372	316.20792	331.49527200	1
## 4700	513	514.693283	320.659051775	316.20792	265.66926242	1
## 4701	530	541.688290	330.407010645	316.20792	272.29806944	1
## 4702	388	419.456270	307.311311470	316.20792	250.56900883	1
## 4703	277	319.490833	309.401351175	316.20792	255.89009743	1
## 4704	241	260.344143	317.640909815	316.20792	263.09898634	1
## 4705	156	182.908217	322.867034959	316.20792	271.46674418	1
## 4706	92	111.329015	312.860852163	316.20792	272.98556393	1
## 4707	40	42.315841	126.113670935	32.32174	74.88399651	1
## 4708	11	16.737598	131.841473834	32.32174	83.05882533	1
## 4709	9	10.669615	139.328515841	32.32174	90.55710776	1
## 4710	6	8.898945	148.574796956	32.32174	97.37884381	1
## 4711	4	6.870829	150.663153179	32.32174	102.70057982	1
## 4712	23	32.429373	159.909434294	32.32174	109.52231587	1
## 4713	116	135.741219	152.457751781	32.32174	109.67948874	1
## 4714	303	382.264230	176.843633277	316.20792	132.64976506	1
## 4715	438	498.116742	218.048446860	316.20792	166.49079013	1
## 4716	209	255.284451	235.883484306	316.20792	181.82159140	1
## 4717	110	176.551944	247.711471561	316.20792	194.85619870	1
## 4718	142	176.781644	283.874896369	316.20792	226.40893649	1
## 4719	149	159.879161	304.542478832	316.20792	247.85614451	1
## 4720	120	163.989626	327.774518580	316.20792	265.36413961	1
## 4721	127	162.382605	348.243963709	316.20792	283.93453914	1
## 4722	138	161.236510	361.355663129	316.20792	298.12877756	1
## 4723	234	290.670047	346.969688745	316.20792	289.11496776	1
## 4724	455	473.328821	351.092990202	316.20792	289.04781880	1
## 4725	497	493.123268	359.083393446	316.20792	296.35252480	1
## 4726	382	406.658282	342.036860566	316.20792	282.45586825	1
## 4727	309	336.123067	327.000405671	316.20792	267.78620080	1
## 4728	242	253.060354	353.371497904	316.20792	294.59934031	1
## 4729	169	174.972817	347.174638217	316.20792	288.34227358	1
## 4730	99	130.522617	338.264518490	316.20792	280.17563311	1
## 4731	42	43.420040	163.378181628	32.32174	113.37943415	1
## 4732	21	20.448397	145.630150176	32.32174	96.79954554	1
## 4733	6	11.640231	153.117192183	32.32174	104.29782798	1
## 4734	6	9.171580	170.145327970	32.32174	122.89194319	1
## 4735	4	9.529317	160.231852734	32.32174	115.11116075	1
## 4736	18	25.385853	167.718894741	32.32174	122.60944318	1
## 4737	117	121.164743	175.205936748	32.32174	130.10772561	1
## 4738	274	323.524447	189.044001988	316.20792	142.36932201	1
## 4739	381	428.207002	213.933244721	316.20792	165.14602190	1
## 4740	200	217.945895	243.465289641	316.20792	190.38995656	1
## 4741	78	136.824892	265.139594579	316.20792	211.45001172	1
## 4742	106	145.944076	303.260395830	316.20792	245.20301161	1
## 4743	135	152.332490	334.248767874	316.20792	266.90822033	1
## 4744	102	146.298013	341.232448644	316.20792	274.60007920	1
## 4745	147	161.517379	368.833267934	316.20792	299.28700025	1
## 4746	133	156.490297	367.931374427	316.20792	301.15237853	1

## 4747	210	261.587244	392.820617160	316.20792	323.92907842	1
## 4748	414	465.976829	407.188194451	316.20792	337.64034688	1
## 4749	382	435.901512	397.525558092	316.20792	329.76309993	1
## 4750	284	351.753241	355.745629508	316.20792	291.59534333	1
## 4751	237	297.853329	347.538691835	316.20792	286.11128750	1
## 4752	225	246.946680	340.336793156	316.20792	280.24072622	1
## 4753	149	174.028189	355.658391379	316.20792	296.53811482	1
## 4754	113	125.816041	357.296087907	316.20792	299.08015427	1
## 4755	60	69.543001	208.119296403	32.32174	148.59467920	1
## 4756	24	25.930747	207.496076068	32.32174	152.00619405	1
## 4757	14	17.338794	176.036308627	32.32174	120.02835520	1
## 4758	7	12.498384	191.861268087	32.32174	136.13216738	1
## 4759	13	12.914427	193.498964616	32.32174	138.67420682	1
## 4760	19	24.445893	186.297065937	32.32174	132.80364555	1
## 4761	96	103.701873	208.222209753	32.32174	153.76723619	1
## 4762	252	317.674564	245.868539105	316.20792	195.28768324	1
## 4763	322	340.671691	272.689007467	316.20792	218.62139673	1
## 4764	208	215.080685	286.448848790	316.20792	226.28110058	1
## 4765	115	146.512375	327.733569774	316.20792	264.72337079	1
## 4766	109	146.474079	342.101147065	316.20792	278.43463926	1
## 4767	115	148.178667	366.711716625	316.20792	299.66520257	1
## 4768	123	140.442376	367.569062226	316.20792	300.85403446	1
## 4769	101	150.355418	389.796062980	316.20792	318.74853502	1
## 4770	133	151.412192	384.804063103	316.20792	314.98112392	1
## 4771	182	271.138558	403.752536364	316.20792	348.36030560	1
## 4772	306	416.746882	387.803750035	316.20792	324.77754140	1
## 4773	284	473.253160	424.244164534	316.20792	357.87706318	1
## 4774	250	363.576002	408.508549676	316.20792	352.71455589	1
## 4775	212	296.635182	376.917856773	316.20792	319.10809749	1
## 4776	190	229.055636	373.434257126	316.20792	314.76060451	1
## 4777	149	195.234217	407.190300925	316.20792	353.52442326	1
## 4778	103	132.782523	375.476956079	316.20792	315.71242670	1
## 4779	101	116.388592	217.652947842	32.32174	173.07375811	1
## 4780	70	87.961115	235.738824165	32.32174	188.30809487	1
## 4781	61	69.174501	241.466627064	32.32174	196.48292369	1
## 4782	22	30.711751	207.824795116	32.32174	164.04453575	1
## 4783	9	14.171269	209.713330523	32.32174	166.49011069	1
## 4784	7	18.677327	226.541645493	32.32174	182.20806482	1
## 4785	25	38.804481	267.826366477	32.32174	220.65033503	1
## 4786	45	109.386764	274.811730729	316.20792	228.34154648	1
## 4787	109	147.386668	303.138915840	316.20792	251.09582551	1
## 4788	132	185.553132	309.119241099	316.20792	259.17354241	1
## 4789	198	296.520975	341.139857993	316.20792	288.06676382	1
## 4790	216	307.086649	368.661824928	316.20792	314.08370938	1
## 4791	235	289.878321	380.491495665	316.20792	327.11766926	1
## 4792	245	288.000193	392.623023341	316.20792	337.08253905	1
## 4793	236	284.151698	382.656846561	316.20792	332.27502961	1
## 4794	215	264.603705	404.832829254	316.20792	353.14215575	1
## 4795	221	267.694869	414.580788124	316.20792	359.77096277	1
## 4796	197	255.620749	422.067830131	316.20792	367.26924521	1
## 4797	196	278.661792	420.794129286	316.20792	365.02490241	1
## 4798	217	272.655480	353.858634725	316.20792	313.63998989	1
## 4799	145	218.927782	364.533408670	316.20792	315.28039892	1
## 4800	154	195.273864	372.020450677	316.20792	322.77868135	1

## 4801	125	174.762814	373.154785968	316.20792	325.51429723	1
## 4802	104	128.954048	379.135111228	316.20792	333.59201412	1
## 4803	119	124.155029	206.933145065	32.32174	161.13151819	1
## 4804	96	88.655529	193.101549980	32.32174	148.95150638	1
## 4805	60	65.221200	212.816794994	32.32174	167.81194684	1
## 4806	37	36.389611	220.303837001	32.32174	175.31022928	1
## 4807	6	13.685906	215.562676001	32.32174	171.44635367	1
## 4808	8	13.355423	222.798879130	32.32174	179.04110061	1
## 4809	22	35.332773	241.085631315	32.32174	203.08286810	1
## 4810	35	80.068028	259.844116870	316.20792	213.42656620	1
## 4811	104	146.485339	282.323639984	316.20792	231.22395483	1
## 4812	154	203.319657	291.569921099	316.20792	238.04569087	1
## 4813	226	284.191561	323.010007882	316.20792	268.46186581	1
## 4814	243	317.846503	316.760446652	316.20792	265.17807208	1
## 4815	246	304.080632	357.967998763	316.20792	304.94971938	1
## 4816	252	341.933909	350.341591202	316.20792	297.94271003	1
## 4817	283	324.264508	352.203975795	316.20792	298.74503647	1
## 4818	238	308.777647	388.565537938	316.20792	333.17458275	1
## 4819	249	312.054654	396.052579945	316.20792	340.67286518	1
## 4820	249	286.912450	407.657562618	316.20792	355.44653807	1
## 4821	243	302.553797	403.670601733	316.20792	351.29262153	1
## 4822	240	314.134262	394.258804252	316.20792	343.31891007	1
## 4823	195	261.775445	391.476703176	316.20792	341.65464916	1
## 4824	153	196.450649	355.823109760	316.20792	309.98991952	1
## 4825	98	144.213240	348.570193020	316.20792	307.09198383	1
## 4826	50	104.505372	341.197362863	316.20792	305.91913220	1
## 4827	34	55.874712	171.161719783	32.32174	125.15116591	1
## 4828	12	20.524371	169.107668010	32.32174	121.55361556	1
## 4829	6	10.380216	161.905769331	32.32174	115.68305428	1
## 4830	4	9.102294	169.563742815	32.32174	118.48362707	1
## 4831	6	9.741371	161.660345563	32.32174	109.92983373	1
## 4832	24	26.883823	169.147387570	32.32174	117.42811617	1
## 4833	107	118.973599	174.955097870	32.32174	130.20419012	1
## 4834	277	322.601201	197.832579136	316.20792	153.75454832	1
## 4835	387	433.980950	220.008561829	316.20792	174.62167446	1
## 4836	135	204.802344	260.762715719	316.20792	205.68300296	1
## 4837	84	143.450753	289.568394818	316.20792	232.85957964	1
## 4838	107	129.215804	304.491406452	316.20792	249.33591573	1
## 4839	67	133.534840	311.978448459	316.20792	256.83419817	1
## 4840	78	167.810259	256.065242051	316.20792	208.39051841	1
## 4841	90	153.852397	247.658483562	316.20792	200.03030150	1
## 4842	112	164.771871	243.193657126	316.20792	185.52217026	1
## 4843	198	236.683641	247.916421033	316.20792	194.08350452	1
## 4844	485	465.949292	279.582479445	316.20792	229.01908903	1
## 4845	533	469.615423	294.427267161	316.20792	240.89353257	1
## 4846	386	409.162729	310.753904376	316.20792	256.80441572	1
## 4847	302	316.441678	304.304522330	316.20792	250.64446092	1
## 4848	194	204.971064	281.582313975	316.20792	233.02447397	1
## 4849	125	149.022057	289.069355982	316.20792	240.52275640	1
## 4850	87	120.037030	298.064798219	316.20792	247.44095695	1
## 4851	28	35.605209	137.163164945	32.32174	85.39974741	1
## 4852	12	19.657972	144.650206952	32.32174	92.89802985	1
## 4853	7	10.650604	124.188915460	32.32174	74.40856749	1
## 4854	4	7.393737	132.177635222	32.32174	81.71392090	1

## 4855	6	9.247419	142.377937269	32.32174	91.12177708	1
## 4856	27	30.986195	140.549857125	32.32174	92.04363631	1
## 4857	110	133.971843	169.406554286	32.32174	116.24758740	1
## 4858	318	356.259441	227.165605877	316.20792	169.02540342	1
## 4859	424	451.051493	263.302479955	316.20792	205.19466270	1
## 4860	187	220.068764	310.290710709	316.20792	249.00286440	1
## 4861	138	168.071878	349.365532891	316.20792	285.34198443	1
## 4862	151	180.492936	361.142502086	316.20792	301.34921731	1
## 4863	147	200.123917	378.898687175	316.20792	318.01004309	1
## 4864	182	202.691688	382.571328937	316.20792	315.16319755	1
## 4865	147	180.647146	400.076675149	316.20792	331.92048784	1
## 4866	163	210.109891	418.587060354	316.20792	348.29127268	1
## 4867	254	304.491639	401.791366351	316.20792	334.29815162	1
## 4868	537	580.826295	410.534286228	316.20792	341.31346410	1
## 4869	546	575.952587	406.045647588	316.20792	337.35247657	1
## 4870	398	430.028805	397.335348678	316.20792	332.06199717	1
## 4871	290	333.768480	391.589148686	316.20792	328.58462702	1
## 4872	267	285.507011	386.095471053	316.20792	325.01014494	1
## 4873	158	210.852718	372.965374540	316.20792	315.51336518	1
## 4874	89	128.316036	373.321042385	316.20792	316.89512609	1
## 4875	45	53.099745	219.553521799	32.32174	166.90106031	1
## 4876	10	22.341530	235.851269675	32.32174	175.23807274	1
## 4877	6	16.172574	232.618508905	32.32174	170.79411525	1
## 4878	4	8.628660	212.886550281	32.32174	156.63048604	1
## 4879	4	10.134650	236.344561657	32.32174	178.65789071	1
## 4880	18	27.116822	232.860962010	32.32174	174.31039774	1
## 4881	123	123.195805	239.342965024	32.32174	182.19518562	1
## 4882	347	370.086108	266.440423077	316.20792	207.07568310	1
## 4883	433	489.376046	293.036203375	316.20792	232.14910960	1
## 4884	216	230.567217	321.841882475	316.20792	259.32568628	1
## 4885	114	173.693710	335.327072716	316.20792	277.62899836	1
## 4886	136	184.480857	353.083257805	316.20792	294.28982414	1
## 4887	169	199.673973	373.403900179	316.20792	307.01143701	1
## 4888	180	204.762246	387.996165534	316.20792	318.98299247	1
## 4889	127	192.522098	397.642088282	316.20792	331.55705067	1
## 4890	140	222.807069	415.899951127	316.20792	348.02494743	1
## 4891	268	328.345451	424.090175188	316.20792	358.20581450	1
## 4892	572	594.238683	424.523011908	316.20792	358.25819832	1
## 4893	541	599.682561	419.730832847	316.20792	357.36694830	1
## 4894	375	463.943543	418.907791696	316.20792	357.90230208	1
## 4895	294	336.233015	381.598678776	316.20792	320.96822025	1
## 4896	245	277.982920	374.596600914	316.20792	317.97382005	1
## 4897	180	207.106555	374.475058335	316.20792	321.19240588	1
## 4898	109	144.125125	395.949542456	316.20792	339.37629996	1
## 4899	45	56.478749	199.542009158	32.32174	144.09502345	1
## 4900	29	27.800020	210.617479780	32.32174	157.41902427	1
## 4901	7	14.112337	213.234064489	32.32174	157.93130977	1
## 4902	5	10.051911	218.961867388	32.32174	166.10613859	1
## 4903	6	12.238943	206.889511410	32.32174	153.24958039	1
## 4904	27	31.779238	205.536958209	32.32174	152.33526210	1
## 4905	116	127.761732	201.723667328	32.32174	149.41425814	1
## 4906	305	384.110282	216.315932684	316.20792	161.38581360	1
## 4907	456	490.334159	238.491915377	316.20792	182.25293974	1
## 4908	210	230.511929	273.648617711	316.20792	214.19283039	1

## 4909	116	170.812539	297.333000634	316.20792	234.47987465	1
## 4910	154	169.465853	314.308834796	316.20792	249.78749287	1
## 4911	186	198.145415	327.922211971	316.20792	263.78880227	1
## 4912	152	189.120742	354.517992269	316.20792	288.86222877	1
## 4913	138	193.135818	350.056559487	316.20792	292.47575938	1
## 4914	146	162.656709	361.857340884	316.20792	297.93584854	1
## 4915	256	301.489309	375.472401542	316.20792	311.93651054	1
## 4916	468	516.468222	364.352383014	316.20792	301.66671988	1
## 4917	483	488.806653	365.713089852	316.20792	302.66197534	1
## 4918	322	399.338227	360.217728737	316.20792	299.08814068	1
## 4919	270	339.205969	353.015830058	316.20792	293.21757940	1
## 4920	196	225.730250	349.532230411	316.20792	288.87008643	1
## 4921	174	187.705438	341.826970494	316.20792	283.19310158	1
## 4922	123	130.397380	337.259479498	316.20792	280.56213856	1
## 4923	57	52.391097	149.866894894	32.32174	94.92572794	1
## 4924	34	25.549433	156.850575664	32.32174	102.61758680	1
## 4925	13	12.087969	162.076700808	32.32174	110.98534464	1
## 4926	11	9.102294	169.563742815	32.32174	118.48362707	1
## 4927	6	8.479238	162.412862196	32.32174	109.64044021	1
## 4928	27	27.909506	167.638987340	32.32174	118.00819804	1
## 4929	90	111.986229	173.446697640	32.32174	130.78427200	1
## 4930	254	316.183224	199.340979366	316.20792	153.17446644	1
## 4931	384	418.312795	215.588764225	316.20792	170.41537410	1
## 4932	179	214.749667	324.569824241	316.20792	258.86909905	1
## 4933	106	148.899883	355.308412452	316.20792	286.60204192	1
## 4934	161	185.069467	373.315436419	316.20792	303.16640319	1
## 4935	135	170.571092	412.139419724	316.20792	339.60198773	1
## 4936	156	190.473861	409.002760167	316.20792	343.98008991	1
## 4937	148	186.679752	428.318363547	316.20792	357.08820822	1
## 4938	169	186.640023	436.307083310	316.20792	364.39356163	1
## 4939	233	299.838229	446.056725662	316.20792	371.02172125	1
## 4940	421	483.236186	452.035367439	316.20792	379.10008556	1
## 4941	362	475.155603	432.857788112	316.20792	361.77025432	1
## 4942	241	367.879036	421.686751523	316.20792	354.47308926	1
## 4943	206	309.751399	421.444240484	316.20792	353.48548951	1
## 4944	163	244.201496	403.418819423	316.20792	341.61858690	1
## 4945	174	215.965957	399.431858539	316.20792	337.46467036	1
## 4946	116	123.627110	392.429780676	316.20792	334.47027016	1
## 4947	133	127.893405	205.580766065	32.32174	159.05219848	1
## 4948	90	86.460419	211.310252447	32.32174	167.22637988	1
## 4949	42	63.507927	219.048133331	32.32174	174.62819781	1
## 4950	43	44.666625	206.221577238	32.32174	162.06168054	1
## 4951	10	16.620101	199.019678559	32.32174	156.19111926	1
## 4952	13	19.757440	199.677203343	32.32174	154.50379008	1
## 4953	24	33.351031	207.415084228	32.32174	161.90560800	1
## 4954	42	86.598915	233.681173292	316.20792	188.40552351	1
## 4955	114	144.382204	262.990213629	316.20792	215.38852376	1
## 4956	174	206.946433	312.160508890	316.20792	259.65727456	1
## 4957	261	300.652606	330.697044907	316.20792	277.67130789	1
## 4958	317	340.841377	353.323687295	316.20792	301.31813060	1
## 4959	341	367.723089	369.148646755	316.20792	317.42194277	1
## 4960	308	340.689950	392.199798024	316.20792	342.20521355	1
## 4961	305	313.918536	405.536185510	316.20792	354.65973897	1
## 4962	302	319.320813	410.864346775	316.20792	357.08224563	1

## 4963	302	344.414257	428.699384221	316.20792	372.41304691	1
## 4964	302	317.270992	429.756550639	316.20792	376.47803988	1
## 4965	299	332.067228	435.110862717	316.20792	380.54379504	1
## 4966	256	335.230126	391.106353604	316.20792	342.63904923	1
## 4967	206	266.564994	398.383389273	316.20792	349.51088368	1
## 4968	205	219.189829	387.265054227	316.20792	339.24044562	1
## 4969	209	197.376846	381.268015357	316.20792	335.85953997	1
## 4970	177	155.214214	376.025176602	316.20792	332.18859338	1
## 4971	113	120.456675	203.823210440	32.32174	159.72809745	1
## 4972	79	85.704708	189.991615354	32.32174	147.54808563	1
## 4973	67	72.918609	188.639062153	32.32174	146.63376734	1
## 4974	50	42.407570	194.617703930	32.32174	154.71213166	1
## 4975	13	16.670169	187.415805250	32.32174	148.84157038	1
## 4976	8	15.500606	197.112746059	32.32174	158.44300299	1
## 4977	13	26.020943	208.239234742	32.32174	168.79437823	1
## 4978	45	87.630794	244.505979237	316.20792	200.66098742	1
## 4979	142	165.041702	265.980463359	316.20792	218.84488150	1
## 4980	183	215.305457	294.656272042	316.20792	250.32410827	1
## 4981	254	291.552248	345.334967533	316.20792	294.01277718	1
## 4982	275	319.951937	376.350545435	316.20792	323.29250405	1
## 4983	338	336.601088	402.667652559	316.20792	346.81979397	1
## 4984	294	314.474978	411.359554376	316.20792	356.80773203	1
## 4985	326	325.163066	419.349957620	316.20792	364.11243803	1
## 4986	293	341.075243	448.206654781	316.20792	388.31638913	1
## 4987	306	331.460976	457.652756713	316.20792	398.01428625	1
## 4988	320	323.452291	465.339619536	316.20792	408.38872976	1
## 4989	304	366.112319	402.041233042	316.20792	347.66651783	1
## 4990	274	325.441114	361.795855501	316.20792	310.56192783	1
## 4991	275	286.409160	369.282897508	316.20792	318.06021027	1
## 4992	164	200.044028	361.577637591	316.20792	312.38322542	1
## 4993	96	140.526756	333.057101819	316.20792	286.83436990	1
## 4994	70	99.257315	348.127861164	316.20792	303.22822301	1
## 4995	29	49.565764	165.080523079	32.32174	109.03868277	1
## 4996	17	26.458906	163.224608640	32.32174	108.31794091	1
## 4997	11	14.251555	163.355588421	32.32174	111.43941482	1
## 4998	4	8.496564	160.798175411	32.32174	108.03544090	1
## 4999	4	7.863208	147.243570015	32.32174	97.40221307	1
## 5000	26	33.169379	154.228934267	32.32174	105.09342452	1
## 5001	100	131.283482	161.465137397	32.32174	112.68817146	1
## 5002	282	351.113098	237.249035930	316.20792	184.75766150	1
## 5003	382	414.730535	307.538147467	316.20792	245.82854547	1
## 5004	166	214.814814	322.028376700	316.20792	263.74535210	1
## 5005	97	156.553027	355.027881775	316.20792	290.60881957	1
## 5006	119	168.214206	377.203864468	316.20792	311.47594571	1
## 5007	168	212.283947	389.837069899	316.20792	321.24788648	1
## 5008	150	203.850077	402.498109626	316.20792	332.66242833	1
## 5009	123	192.522707	418.495055607	316.20792	349.99980050	1
## 5010	129	217.939365	421.286593885	316.20792	358.00412116	1
## 5011	231	324.183687	428.773635892	316.20792	365.50240359	1
## 5012	514	582.035598	360.562276077	316.20792	298.51775463	1
## 5013	543	642.689351	376.559222059	316.20792	315.85512680	1
## 5014	413	453.386960	355.171743931	316.20792	296.42214538	1
## 5015	305	345.969437	332.500553637	316.20792	275.82953284	1
## 5016	220	238.287330	316.960737504	316.20792	261.35344183	1

## 5017	137	198.872857	321.685184893	316.20792	269.91412868	1
## 5018	96	121.308656	316.240841839	316.20792	263.36766843	1
## 5019	29	47.833224	134.923574343	32.32174	87.20691037	1
## 5020	12	20.704243	144.169855458	32.32174	94.02864641	1
## 5021	8	11.818659	166.796497846	32.32174	117.67546912	1
## 5022	5	8.236733	160.650656220	32.32174	108.44577681	1
## 5023	10	10.199468	166.630981479	32.32174	116.52349371	1
## 5024	21	28.676124	174.619701241	32.32174	123.82884712	1
## 5025	117	127.248464	198.503904982	32.32174	146.99205246	1
## 5026	335	332.729563	238.383945340	316.20792	180.06850596	1
## 5027	435	419.692013	258.350029231	316.20792	198.83248192	1
## 5028	213	220.459388	304.305386697	316.20792	241.38458798	1
## 5029	140	170.883777	345.590107681	316.20792	279.82685819	1
## 5030	128	190.138267	369.776168360	316.20792	299.92097343	1
## 5031	157	199.285400	385.271436587	316.20792	317.45127462	1
## 5032	203	229.442524	391.753439601	316.20792	325.33606250	1
## 5033	159	248.416770	422.993705568	316.20792	352.87607635	1
## 5034	168	254.223456	430.480747575	316.20792	360.37435879	1
## 5035	274	322.508011	437.967789582	316.20792	367.87264122	1
## 5036	556	577.142795	436.842263055	316.20792	377.40900214	1
## 5037	556	607.138804	418.166361483	316.20792	359.88624189	1
## 5038	454	469.254866	421.736967124	316.20792	362.98464753	1
## 5039	288	334.755292	395.928007909	316.20792	339.34601317	1
## 5040	254	278.417613	385.483965577	316.20792	324.18428902	1
## 5041	191	220.029347	368.967999792	316.20792	317.66857418	1
## 5042	132	163.918710	404.403375298	316.20792	351.15460140	1
## 5043	43	51.264941	232.201409136	32.32174	178.69410547	1
## 5044	16	21.845117	227.209409258	32.32174	174.92669438	1
## 5045	11	17.830415	241.326147671	32.32174	188.73442735	1
## 5046	4	15.534267	228.448573518	32.32174	179.14053567	1
## 5047	7	12.642437	243.821189801	32.32174	192.46529869	1
## 5048	24	28.481319	243.422657532	32.32174	194.13710053	1
## 5049	110	103.628433	220.005540641	32.32174	171.25761032	1
## 5050	271	335.087241	263.647908139	316.20792	211.72054773	1
## 5051	437	443.574637	270.129911153	316.20792	219.60533561	1
## 5052	195	242.525041	269.279035707	316.20792	218.49808830	1
## 5053	68	150.918266	266.699493975	316.20792	225.64061069	1
## 5054	122	198.628256	276.116706567	316.20792	227.76463709	1
## 5055	161	196.839332	294.905136506	316.20792	251.61347555	1
## 5056	144	191.663702	298.950214045	316.20792	246.94443404	1
## 5057	147	187.459842	306.437256052	316.20792	254.44271647	1
## 5058	118	170.284481	248.459986550	316.20792	203.48619804	1
## 5059	150	203.960390	246.157434509	316.20792	212.17550441	1
## 5060	425	406.522731	261.173153701	316.20792	219.35223831	1
## 5061	492	370.567427	255.931369991	316.20792	221.61256136	1
## 5062	321	326.169016	263.418411998	316.20792	229.11084379	1
## 5063	87	170.233260	272.664693113	316.20792	235.93257984	1
## 5064	88	142.820273	265.433905094	316.20792	222.48814784	1
## 5065	77	93.573345	270.739937638	316.20792	235.45715081	1
## 5066	56	104.885028	279.655472475	316.20792	237.77410623	1
## 5067	17	34.320485	107.453506313	32.32174	65.31361030	1
## 5068	17	16.716590	98.041708831	32.32174	57.33989884	1
## 5069	7	11.667982	105.528750838	32.32174	64.83818127	1
## 5070	3	6.271870	111.336461138	32.32174	77.61425523	1

## 5071	7	9.768342	135.893274111	32.32174	95.88682190	1
## 5072	20	28.357257	143.380316118	32.32174	103.38510433	1
## 5073	97	113.853892	155.892553088	32.32174	108.95085952	1
## 5074	282	317.709780	163.379595096	316.20792	116.44914196	1
## 5075	398	432.953907	193.190313188	316.20792	143.23921319	1
## 5076	187	213.452634	225.383545042	316.20792	167.43407754	1
## 5077	113	166.383191	238.996922218	316.20792	181.43538695	1
## 5078	149	186.286610	260.447594136	316.20792	210.16642475	1
## 5079	205	211.371466	282.623576829	316.20792	231.03355089	1
## 5080	205	238.685182	296.860228659	316.20792	243.11619980	1
## 5081	167	221.344384	325.439936129	316.20792	265.77336691	1
## 5082	165	231.848614	334.433694884	316.20792	272.69221487	1
## 5083	290	338.395677	316.010315673	316.20792	255.07234270	1
## 5084	555	636.896871	323.497357680	316.20792	262.57062513	1
## 5085	523	499.402311	286.414216390	316.20792	230.15595287	1
## 5086	366	416.911484	293.650419519	316.20792	237.75069981	1
## 5087	286	323.843275	297.949729589	316.20792	251.10685565	1
## 5088	211	233.947623	305.436771596	316.20792	258.60513808	1
## 5089	174	200.017876	308.753799832	316.20792	255.86938600	1
## 5090	132	133.732495	308.884779613	316.20792	258.99085991	1
## 5091	54	45.463753	136.682813451	32.32174	86.53036398	1
## 5092	19	19.623874	129.230075894	32.32174	80.75626722	1
## 5093	19	13.508303	160.947152367	32.32174	112.71922614	1
## 5094	6	7.995631	144.204159908	32.32174	95.75283208	1
## 5095	7	8.618597	152.443718547	32.32174	102.96172098	1
## 5096	16	27.793281	159.178243922	32.32174	110.74939694	1
## 5097	101	145.004897	167.417802562	32.32174	117.95828585	1
## 5098	270	376.766959	180.754190047	316.20792	130.41281127	1
## 5099	454	481.405757	230.177007668	316.20792	174.58445014	1
## 5100	226	290.555665	256.972608782	316.20792	202.53403771	1
## 5101	163	199.586348	277.440370429	316.20792	221.10508465	1
## 5102	147	195.851638	297.737200598	316.20792	244.37384124	1
## 5103	216	225.945642	306.903574313	316.20792	246.59433215	1
## 5104	204	222.396680	320.239961798	316.20792	259.04885757	1
## 5105	245	240.431026	326.047672098	316.20792	271.82493152	1
## 5106	210	232.042925	322.735003927	316.20792	262.77972890	1
## 5107	330	386.291986	355.180129703	316.20792	292.80939839	1
## 5108	550	609.189900	357.572026347	316.20792	295.06139689	1
## 5109	466	634.858284	351.825826355	316.20792	291.58402674	1
## 5110	372	447.636281	346.833826477	316.20792	287.81661564	1
## 5111	291	333.422151	341.340148845	316.20792	284.24213357	1
## 5112	173	234.650124	327.005192522	316.20792	272.25569818	1
## 5113	188	191.369109	334.995595766	316.20792	279.56040418	1
## 5114	139	123.680174	327.793697087	316.20792	273.68984290	1
## 5115	133	119.387311	125.675211678	32.32174	86.42588104	1
## 5116	67	86.303070	132.660575930	32.32174	94.11709248	1
## 5117	53	68.092434	141.152656930	32.32174	101.22886947	1
## 5118	42	40.492469	145.955328237	32.32174	114.39144887	1
## 5119	10	14.340513	142.392876234	32.32174	111.37398040	1
## 5120	6	11.339799	131.194633787	32.32174	96.50229720	1
## 5121	27	24.960501	138.932514672	32.32174	103.90411512	1
## 5122	63	64.504800	172.382679440	316.20792	133.54727916	1
## 5123	121	124.374535	179.869721447	316.20792	141.04556159	1
## 5124	215	239.229546	234.638523309	316.20792	190.36701988	1

## 5125	290	301.826221	241.451272601	316.20792	202.75658839	1
## 5126	349	364.171755	278.990488696	316.20792	232.10127216	1
## 5127	382	410.861218	307.796167796	316.20792	259.27784884	1
## 5128	441	412.513294	306.523521995	316.20792	262.96477569	1
## 5129	380	398.078626	335.750971449	316.20792	285.34717821	1
## 5130	362	385.880045	345.198128425	316.20792	300.97634497	1
## 5131	343	282.548713	262.795025732	316.20792	234.86873378	1
## 5132	149	259.727904	270.282067739	316.20792	242.36701621	1
## 5133	211	272.358709	278.373452061	316.20792	237.79520139	1
## 5134	171	217.032808	269.864029012	316.20792	241.31215272	1
## 5135	137	179.256979	288.903926267	316.20792	259.13260962	1
## 5136	114	138.091003	281.925660608	316.20792	245.59106570	1
## 5137	120	127.876447	289.412702615	316.20792	253.08934813	1
## 5138	108	115.337269	294.466212800	316.20792	266.15546303	1
## 5139	80	95.980969	123.943578345	32.32174	88.41717557	1
## 5140	73	78.198535	130.927259115	32.32174	96.10903443	1
## 5141	66	70.772437	137.912623367	32.32174	103.80024588	1
## 5142	32	32.989895	143.891265143	32.32174	111.87861019	1
## 5143	6	12.037837	153.057638858	32.32174	114.09910110	1
## 5144	5	11.919558	150.500225847	32.32174	110.69512718	1
## 5145	13	26.643567	157.485590099	32.32174	118.38633863	1
## 5146	39	58.315646	176.523803871	316.20792	136.20744295	1
## 5147	89	129.736215	200.909685367	316.20792	159.17771927	1
## 5148	184	214.655367	227.428296791	316.20792	185.58052286	1
## 5149	266	309.549341	267.004796728	316.20792	221.72671387	1
## 5150	269	314.134305	284.709963757	316.20792	241.36016523	1
## 5151	370	393.744177	367.027457484	316.20792	310.91704616	1
## 5152	324	395.971508	374.514499491	316.20792	318.41532859	1
## 5153	322	370.792491	357.494117423	316.20792	306.16192053	1
## 5154	326	324.293773	262.769049120	316.20792	232.06048385	1
## 5155	193	286.116739	270.256091127	316.20792	239.55876629	1
## 5156	194	266.869908	289.371873691	316.20792	249.79072352	1
## 5157	229	295.804321	285.072043823	316.20792	245.35219346	1
## 5158	228	258.836983	282.765469689	316.20792	241.85175503	1
## 5159	183	226.363424	278.699656449	316.20792	239.02786299	1
## 5160	136	172.713027	285.685020700	316.20792	246.71907444	1
## 5161	103	134.571285	277.779939967	316.20792	238.16592852	1
## 5162	55	95.887913	305.859253247	316.20792	267.27514722	1
## 5163	30	38.185030	137.332010397	32.32174	85.92709905	1
## 5164	12	21.204262	130.631789472	32.32174	79.86360876	1
## 5165	7	9.729495	116.749176326	32.32174	70.65622253	1
## 5166	1	6.085812	124.236218333	32.32174	78.15450496	1
## 5167	10	8.590907	133.482499448	32.32174	84.97624100	1
## 5168	15	24.766837	174.516381554	32.32174	123.51497572	1
## 5169	95	119.366927	216.207962646	32.32174	159.20137982	1
## 5170	267	313.616719	236.424885415	316.20792	177.86889127	1
## 5171	349	397.675370	259.104229346	316.20792	198.54244098	1
## 5172	183	204.378480	280.075352230	316.20792	216.91991149	1
## 5173	124	165.979909	305.890781600	316.20792	240.64013044	1
## 5174	179	194.866260	327.563403056	316.20792	261.70083301	1
## 5175	182	229.226557	337.711003560	316.20792	274.08196219	1
## 5176	151	201.500540	356.221388764	316.20792	290.45274703	1
## 5177	150	202.787927	360.068984095	316.20792	295.09793665	1
## 5178	126	192.184640	377.825169184	316.20792	311.75876243	1

## 5179	282	315.743482	395.330515396	316.20792	328.51605272	1
## 5180	527	598.686723	400.807479418	316.20792	336.78734605	1
## 5181	529	634.743805	397.522017105	316.20792	335.31666156	1
## 5182	416	459.897473	394.238238275	316.20792	333.84532967	1
## 5183	286	326.323314	367.597910071	316.20792	311.82611334	1
## 5184	186	241.664576	358.264964945	316.20792	302.52237738	1
## 5185	147	201.423837	366.002845830	316.20792	309.92419530	1
## 5186	72	131.818567	349.961351942	316.20792	295.64103330	1
## 5187	35	39.996436	143.683033630	32.32174	90.69041302	1
## 5188	14	22.341911	177.637843201	32.32174	126.39912320	1
## 5189	12	14.923561	176.285290000	32.32174	125.48480491	1
## 5190	3	10.099242	201.451522424	32.32174	149.80828879	1
## 5191	7	10.316931	176.570433327	32.32174	127.11252607	1
## 5192	30	30.597951	205.454964783	32.32174	152.95907825	1
## 5193	101	114.746854	219.492850841	32.32174	168.09683572	1
## 5194	343	419.151827	206.640143935	316.20792	153.88706996	1
## 5195	392	488.785040	235.896482729	316.20792	183.84334321	1
## 5196	175	242.923231	264.503396056	316.20792	214.07502846	1
## 5197	144	179.121430	285.977880178	316.20792	232.25892254	1
## 5198	149	189.947610	295.144253892	316.20792	234.47941344	1
## 5199	185	216.327415	314.606976546	316.20792	253.43696583	1
## 5200	175	221.973246	342.910977891	316.20792	280.80647153	1
## 5201	148	199.639215	369.306937372	316.20792	303.00373695	1
## 5202	164	208.669595	387.843473389	316.20792	321.01777029	1
## 5203	285	317.995419	395.581354274	316.20792	328.41958821	1
## 5204	532	639.410328	347.901062150	316.20792	288.26821420	1
## 5205	585	616.060114	355.889781912	316.20792	295.57356762	1
## 5206	371	433.119770	375.129499984	316.20792	316.27018560	1
## 5207	292	328.958361	397.382651551	316.20792	335.80793465	1
## 5208	230	253.933076	393.395690667	316.20792	331.65401810	1
## 5209	155	192.280143	401.636932789	316.20792	338.86225960	1
## 5210	75	134.104401	398.603992836	316.20792	337.29446319	1
## 5211	37	51.984033	212.917945797	32.32174	153.95477918	1
## 5212	17	22.740629	207.422584682	32.32174	150.38094451	1
## 5213	11	14.784225	214.407948934	32.32174	158.07215596	1
## 5214	4	11.173935	207.206050254	32.32174	152.20159469	1
## 5215	5	12.062754	223.029326232	32.32174	168.30605427	1
## 5216	32	31.910317	208.445214514	32.32174	156.41543598	1
## 5217	119	118.282971	214.423856290	32.32174	164.49380029	1
## 5218	305	347.337345	235.898340412	316.20792	182.67769437	1
## 5219	399	424.130030	272.310920615	316.20792	214.13461506	1
## 5220	180	214.067986	292.780365745	316.20792	232.70501459	1
## 5221	113	165.783645	323.015592718	316.20792	260.63153390	1
## 5222	149	173.889886	337.686710430	316.20792	271.27306485	1
## 5223	240	229.013848	356.144394091	316.20792	290.61712269	1
## 5224	191	224.208116	363.380597221	316.20792	298.21186963	1
## 5225	178	216.710046	386.310780029	316.20792	318.78895483	1
## 5226	194	227.164931	408.486762723	316.20792	339.65608097	1
## 5227	282	317.254074	424.310038701	316.20792	355.76054056	1
## 5228	584	589.142427	425.947735230	316.20792	358.30258000	1
## 5229	559	598.932866	423.165634154	316.20792	356.63831909	1
## 5230	413	439.171023	428.468928172	316.20792	363.67669983	1
## 5231	312	363.594678	411.197707227	316.20792	351.51975629	1
## 5232	209	267.500999	413.763273875	316.20792	355.00466738	1

## 5233	139	199.154391	404.802136088	316.20792	349.81065249	1
## 5234	108	154.181371	413.797578325	316.20792	356.72885304	1
## 5235	46	55.701543	212.468569667	32.32174	157.43420519	1
## 5236	26	32.517547	220.457289429	32.32174	164.73955860	1
## 5237	11	14.779877	196.356551261	32.32174	143.39700344	1
## 5238	9	10.239474	191.364551384	32.32174	139.62959234	1
## 5239	5	8.798372	199.354954629	32.32174	146.93429834	1
## 5240	25	29.910287	198.504079183	32.32174	145.82705103	1
## 5241	106	122.946154	190.800502748	32.32174	140.14941878	1
## 5242	307	334.313530	233.791761297	316.20792	180.88841560	1
## 5243	390	442.698680	273.369944716	316.20792	217.03395919	1
## 5244	197	220.138775	300.970764007	316.20792	241.72088024	1
## 5245	132	165.746189	319.228626851	316.20792	258.18877701	1
## 5246	187	191.286355	336.984811941	316.20792	274.84960278	1
## 5247	214	233.930091	359.160794634	316.20792	295.71672892	1
## 5248	217	243.721859	360.296813408	316.20792	298.45169739	1
## 5249	142	220.530700	380.133026882	316.20792	321.51832344	1
## 5250	178	222.577262	392.645263853	316.20792	327.08407863	1
## 5251	298	369.573429	402.792864356	316.20792	339.46520781	1
## 5252	582	632.588730	406.865147752	316.20792	342.37068443	1
## 5253	571	602.276531	405.740249663	316.20792	345.97512830	1
## 5254	371	440.217287	390.026763526	316.20792	330.26612470	1
## 5255	288	338.858874	386.239623458	316.20792	328.98836923	1
## 5256	206	241.832062	362.815916531	316.20792	308.68515022	1
## 5257	157	189.206961	368.794558308	316.20792	316.76351453	1
## 5258	127	151.017047	362.927389855	316.20792	309.07995879	1
## 5259	65	57.568032	178.246381809	32.32174	125.35376934	1
## 5260	23	24.544659	185.230062578	32.32174	133.04562820	1
## 5261	15	13.427610	179.033202891	32.32174	126.78856148	1
## 5262	9	9.965416	194.858162352	32.32174	142.89237365	1
## 5263	5	9.295775	201.841843121	32.32174	150.58423251	1
## 5264	26	27.788943	196.849843244	32.32174	146.81682141	1
## 5265	76	108.324834	223.445623541	32.32174	171.89024791	1
## 5266	264	337.038185	250.544765077	316.20792	196.77009798	1
## 5267	426	432.267042	281.785031043	316.20792	224.31011184	1
## 5268	205	226.804114	310.511857787	316.20792	252.81671303	1
## 5269	130	166.565581	325.556466319	316.20792	267.56731764	1
## 5270	156	207.065579	345.973209905	316.20792	289.11099017	1
## 5271	222	246.318951	369.578740472	316.20792	310.72805893	1
## 5272	253	269.778842	368.305039627	316.20792	308.48371614	1
## 5273	186	217.280763	383.398982738	316.20792	320.26234258	1
## 5274	249	244.787110	390.384346990	316.20792	327.95355403	1
## 5275	334	374.444314	403.166355177	316.20792	343.57428147	1
## 5276	516	594.010855	415.073194788	316.20792	355.27886426	1
## 5277	465	582.090900	379.098812095	316.20792	316.53178796	1
## 5278	385	432.377365	375.060833149	316.20792	315.35049701	1
## 5279	287	312.778938	376.698529678	316.20792	317.89253645	1
## 5280	226	260.577462	363.568433164	316.20792	308.39575669	1
## 5281	231	211.755251	356.315516424	316.20792	305.49782101	1
## 5282	151	147.793412	363.802558431	316.20792	312.99610344	1
## 5283	84	115.457405	189.685108065	32.32174	148.74661336	1
## 5284	77	92.459887	181.982586674	32.32174	149.00025074	1
## 5285	74	78.932638	189.640560158	32.32174	151.80082353	1
## 5286	27	34.656606	175.859983134	32.32174	136.64818612	1

## 5287	10	12.472334	158.139157539	32.32174	127.64281565	1
## 5288	18	16.083289	166.803853498	32.32174	130.05623558	1
## 5289	22	28.950367	174.040056627	32.32174	137.65098252	1
## 5290	44	87.059148	185.244769229	316.20792	152.60425030	1
## 5291	118	168.669720	223.817913656	316.20792	189.13629935	1
## 5292	208	226.380479	211.415866444	316.20792	177.70623016	1
## 5293	260	285.284201	225.757292922	316.20792	189.77425013	1
## 5294	314	327.699315	247.429914378	316.20792	210.83495270	1
## 5295	421	328.239342	189.029819478	316.20792	158.74133878	1
## 5296	153	258.118494	255.827003529	316.20792	216.54879402	1
## 5297	259	320.527220	272.575411099	316.20792	227.66550302	1
## 5298	358	312.082295	241.025903146	316.20792	211.24574153	1
## 5299	281	311.946933	265.835238479	316.20792	229.42119628	1
## 5300	269	304.545930	278.668264726	316.20792	242.06929813	1
## 5301	292	295.298623	281.483615207	316.20792	239.52647507	1
## 5302	237	252.547696	271.397525011	316.20792	236.44404969	1
## 5303	183	196.357272	269.039932817	316.20792	235.91623685	1
## 5304	167	158.826960	279.291252925	316.20792	242.35146744	1
## 5305	154	150.455487	286.778294932	316.20792	249.84974988	1
## 5306	120	132.271920	287.410952468	316.20792	252.77829477	1
## 5307	90	90.153225	113.026293361	32.32174	85.78916680	1
## 5308	73	73.227525	100.148719207	32.32174	76.19527512	1
## 5309	62	68.563834	107.635761214	32.32174	83.69355755	1
## 5310	27	31.318512	106.254318673	32.32174	75.20536853	1
## 5311	3	11.847759	111.056989980	32.32174	88.36794794	1
## 5312	10	12.667181	119.721685940	32.32174	90.78136786	1
## 5313	6	14.851191	126.203688954	32.32174	98.66615574	1
## 5314	24	47.015037	152.096287197	316.20792	121.05699760	1
## 5315	41	85.085992	161.091729435	316.20792	127.97519815	1
## 5316	103	141.223053	166.899439735	316.20792	140.75127211	1
## 5317	183	224.208533	210.537785141	316.20792	169.02446471	1
## 5318	198	228.848377	217.521465910	316.20792	176.71632358	1
## 5319	281	265.703524	223.832537447	316.20792	189.29882110	1
## 5320	377	331.833542	250.399428405	316.20792	206.79837688	1
## 5321	370	341.809871	271.570372106	316.20792	228.05200847	1
## 5322	331	373.161120	287.897009322	316.20792	243.96289162	1
## 5323	292	366.499984	294.882373574	316.20792	251.65410307	1
## 5324	329	362.807604	316.554995030	316.20792	272.71480564	1
## 5325	347	392.709707	309.856457588	316.20792	266.65066793	1
## 5326	259	285.369271	294.820002693	316.20792	251.98100049	1
## 5327	193	196.539614	273.353672208	316.20792	233.87804358	1
## 5328	155	116.333907	244.922600920	316.20792	216.61263715	1
## 5329	39	75.765369	252.409642927	316.20792	224.11091958	1
## 5330	27	64.520226	262.655028125	316.20792	245.31346101	1
## 5331	25	28.990350	84.586691495	32.32174	52.86958006	1
## 5332	10	16.876758	94.505581842	32.32174	54.80067744	1
## 5333	3	9.088102	110.781200996	32.32174	73.68418618	1
## 5334	7	8.231892	123.213530566	32.32174	74.64869623	1
## 5335	5	8.556981	129.695533581	32.32174	82.53348411	1
## 5336	17	24.660543	125.458788863	32.32174	84.40730172	1
## 5337	90	113.128818	135.630201570	32.32174	86.24128717	1
## 5338	258	312.939418	143.117243577	316.20792	93.73956961	1
## 5339	355	395.736470	185.659525914	316.20792	131.69822244	1
## 5340	222	228.146590	193.146567921	316.20792	139.19650488	1

## 5341	141	168.382125	231.467189988	316.20792	175.82566584	1
## 5342	153	193.148609	263.939521621	316.20792	213.42985347	1
## 5343	178	217.281993	288.298197259	316.20792	228.82561165	1
## 5344	193	221.115947	320.743323035	316.20792	258.85528114	1
## 5345	151	205.969063	306.636021824	316.20792	251.38760791	1
## 5346	182	224.345965	314.281195150	316.20792	268.08902803	1
## 5347	283	350.646211	325.630261809	316.20792	264.83815098	1
## 5348	530	704.286908	341.202698909	316.20792	281.03907507	1
## 5349	483	527.587409	304.544066500	316.20792	249.76085088	1
## 5350	397	452.577005	308.765152652	316.20792	258.51511417	1
## 5351	285	305.710820	286.925331347	316.20792	236.30308360	1
## 5352	184	228.109627	315.306501565	316.20792	262.34321221	1
## 5353	98	164.514009	314.958987357	316.20792	261.04238847	1
## 5354	88	114.067860	316.095006130	316.20792	263.77735693	1
## 5355	31	41.434634	141.882961983	32.32174	92.08987190	1
## 5356	16	17.503425	150.375042983	32.32174	99.20164888	1
## 5357	4	8.623073	144.178183296	32.32174	92.94458216	1
## 5358	6	6.891524	151.665225303	32.32174	100.44286459	1
## 5359	5	8.498686	175.097085867	32.32174	120.82702077	1
## 5360	30	30.005905	167.644348310	32.32174	115.05292400	1
## 5361	119	122.770723	175.885590432	32.32174	122.26116550	1
## 5362	346	381.712376	196.804011773	316.20792	143.61190901	1
## 5363	441	420.261290	249.415616375	316.20792	187.85694411	1
## 5364	198	226.686825	241.659338397	316.20792	185.15258485	1
## 5365	111	165.099763	263.384661397	316.20792	203.24001443	1
## 5366	150	189.914246	295.275407874	316.20792	236.43588593	1
## 5367	162	202.449602	317.000730873	316.20792	254.52331550	1
## 5368	192	216.583511	323.984411643	316.20792	262.21517436	1
## 5369	182	209.015544	340.111228042	316.20792	275.24989644	1
## 5370	159	201.376093	366.126478228	316.20792	301.84627646	1
## 5371	303	378.804691	372.357642365	316.20792	309.82752885	1
## 5372	600	594.261199	361.065637315	316.20792	298.32417820	1
## 5373	570	662.518370	366.793440214	316.20792	306.49900702	1
## 5374	376	484.683352	361.298079099	316.20792	302.92517235	1
## 5375	280	332.289844	358.889468844	316.20792	305.36998510	1
## 5376	215	258.850854	353.897468967	316.20792	301.60257400	1
## 5377	152	197.860410	340.065873881	316.20792	289.42256219	1
## 5378	77	119.246942	329.275546587	316.20792	277.72628252	1
## 5379	24	45.812644	147.481468583	32.32174	97.14257939	1
## 5380	14	17.854424	141.535447774	32.32174	90.78904816	1
## 5381	6	13.508303	160.947152367	32.32174	112.71922614	1
## 5382	5	7.409817	142.695759677	32.32174	96.33291396	1
## 5383	5	8.872369	161.232295695	32.32174	114.34694729	1
## 5384	28	29.586596	168.719337702	32.32174	121.84522972	1
## 5385	105	128.293155	159.307540220	32.32174	113.87151827	1
## 5386	308	387.051444	208.730357841	316.20792	158.04315714	1
## 5387	487	466.799001	253.480855498	316.20792	198.10560757	1
## 5388	209	243.029520	284.670103403	316.20792	228.61824701	1
## 5389	118	181.632513	309.055984899	316.20792	251.58852333	1
## 5390	128	185.780576	322.643211262	316.20792	263.94658424	1
## 5391	189	212.007755	338.994715725	316.20792	275.24159331	1
## 5392	176	234.481416	349.393155106	316.20792	287.52625799	1
## 5393	192	230.269039	373.277358847	316.20792	310.68946332	1
## 5394	159	234.706902	358.942402523	316.20792	298.70302794	1

## 5395	300	394.866657	373.787190239	316.20792	310.57747148	1
## 5396	552	695.776979	362.165493955	316.20792	300.50060984	1
## 5397	556	600.619147	345.196129949	316.20792	285.27457620	1
## 5398	347	449.994530	352.181494200	316.20792	292.96578765	1
## 5399	280	345.797299	347.691172078	316.20792	289.00544753	1
## 5400	230	280.820136	339.987595644	316.20792	283.32781528	1
## 5401	171	188.319214	334.492234529	316.20792	279.75398061	1
## 5402	105	135.694416	343.487676766	316.20792	286.67218116	1
## 5403	56	54.934729	162.922925903	32.32174	110.22202957	1
## 5404	24	23.198094	163.384651962	32.32174	117.84828412	1
## 5405	6	11.743923	173.556064669	32.32174	119.68226957	1
## 5406	6	8.240481	173.208550460	32.32174	118.38144583	1
## 5407	9	8.542533	165.001612788	32.32174	112.89739001	1
## 5408	27	28.843588	162.444199777	32.32174	109.49341609	1
## 5409	103	121.124724	167.748548840	32.32174	122.46306648	1
## 5410	308	341.170143	177.669122669	316.20792	124.39351644	1
## 5411	420	441.281163	199.594266485	316.20792	145.35710709	1
## 5412	228	236.466793	241.805174106	316.20792	184.74289636	1
## 5413	129	182.622330	255.141561591	316.20792	197.19742177	1
## 5414	141	192.044510	286.157139493	316.20792	226.47714863	1
## 5415	173	221.056142	319.105626506	316.20792	256.31324169	1
## 5416	187	218.643461	327.848546384	316.20792	263.32855416	1
## 5417	182	201.803014	353.942648926	316.20792	288.59490968	1
## 5418	174	205.364002	356.082023210	316.20792	290.94402011	1
## 5419	245	324.641802	363.569065217	316.20792	298.44230254	1
## 5420	409	493.679016	366.692404817	316.20792	316.88267347	1
## 5421	274	503.644187	341.837466534	316.20792	295.83015925	1
## 5422	141	253.374427	259.047522366	316.20792	210.06937856	1
## 5423	165	218.709237	266.534564373	316.20792	217.56766099	1
## 5424	149	194.871931	285.271976251	316.20792	244.38912505	1
## 5425	135	179.683499	311.417096855	316.20792	266.68285498	1
## 5426	114	134.705864	319.405816617	316.20792	273.98820839	1
## 5427	62	57.668701	151.729706273	32.32174	111.97850646	1
## 5428	20	19.078047	100.054125426	32.32174	68.75728016	1
## 5429	8	11.962417	120.800560246	32.32174	88.87446368	1
## 5430	3	7.409817	142.695759677	32.32174	96.33291396	1
## 5431	8	8.575678	139.133307674	32.32174	93.31544549	1
## 5432	17	28.027982	146.620349681	32.32174	100.81372792	1
## 5433	93	124.574912	154.107391688	32.32174	108.31201035	1
## 5434	263	315.278841	167.272847697	316.20792	125.46424542	1
## 5435	398	496.898561	173.251489473	316.20792	133.54260973	1
## 5436	218	280.342751	236.155649444	316.20792	182.66281445	1
## 5437	165	213.769377	255.369216703	316.20792	201.71618393	1
## 5438	165	201.670411	252.337331795	316.20792	206.07965717	1
## 5439	222	229.570695	274.513314488	316.20792	226.94678331	1
## 5440	232	238.648950	289.607257599	316.20792	238.72540975	1
## 5441	220	226.544181	320.092268406	316.20792	260.62419491	1
## 5442	222	259.366027	345.181331956	316.20792	286.27705587	1
## 5443	327	368.787661	350.909134855	316.20792	294.45188469	1
## 5444	527	534.348399	335.602908744	316.20792	269.72724500	1
## 5445	425	524.496558	343.089950751	316.20792	277.22552743	1
## 5446	165	247.105394	272.119389972	316.20792	229.42494476	1
## 5447	58	124.914906	254.743165858	316.20792	216.95477722	1
## 5448	107	169.055432	262.824593179	316.20792	214.96052844	1

## 5449	122	138.264152	253.412795697	316.20792	206.98681698	1
## 5450	106	111.245967	258.467989364	316.20792	220.05228446	1
## 5451	128	123.985585	82.762231367	32.32174	51.78163113	1
## 5452	47	78.064709	107.148112863	32.32174	74.75190745	1
## 5453	69	73.927190	125.684648880	32.32174	92.76594078	1
## 5454	51	42.726640	133.171690887	32.32174	100.26422321	1
## 5455	7	14.817195	111.031067688	32.32174	87.05255238	1
## 5456	8	13.336725	131.246935413	32.32174	99.78879419	1
## 5457	24	25.463619	139.315562575	32.32174	111.69539274	1
## 5458	44	63.558809	152.070364905	316.20792	119.74160204	1
## 5459	133	153.745279	202.194681098	316.20792	166.59647297	1
## 5460	190	230.377810	230.220009269	316.20792	192.41984209	1
## 5461	306	343.725445	251.945332269	316.20792	210.50727166	1
## 5462	338	371.631406	266.512730376	316.20792	227.09470121	1
## 5463	409	400.690479	282.110034724	316.20792	238.67975122	1
## 5464	378	403.768687	302.076118616	316.20792	257.44372718	1
## 5465	375	420.846145	335.526283385	316.20792	287.08689121	1
## 5466	390	449.826026	356.272718204	316.20792	307.20407473	1
## 5467	373	417.485712	357.130063805	316.20792	308.39290662	1
## 5468	383	413.930125	357.987409406	316.20792	309.58173851	1
## 5469	394	400.726078	334.891710230	316.20792	287.85267790	1
## 5470	291	330.748459	326.684772558	316.20792	282.36862207	1
## 5471	248	270.151065	334.675175803	316.20792	289.67332807	1
## 5472	225	226.399831	318.633681915	316.20792	275.39016607	1
## 5473	223	187.966003	309.249090291	316.20792	274.99097275	1
## 5474	157	116.644090	317.410425012	316.20792	277.59796911	1
## 5475	74	105.065391	146.213497843	32.32174	104.75096773	1
## 5476	86	88.367285	137.305061599	32.32174	96.58367984	1
## 5477	64	67.503507	144.288742368	32.32174	104.27553870	1
## 5478	51	41.377698	137.590204926	32.32174	98.21140100	1
## 5479	6	11.455745	150.926592412	32.32174	110.66592642	1
## 5480	8	14.074930	140.560773998	32.32174	100.10609482	1
## 5481	14	24.098040	147.796977128	32.32174	107.70084176	1
## 5482	31	61.190021	174.643596303	316.20792	132.67780375	1
## 5483	92	119.286801	195.563701126	316.20792	154.02789985	1
## 5484	231	232.724852	219.949582622	316.20792	176.99817617	1
## 5485	274	282.143090	233.787647862	316.20792	189.25977257	1
## 5486	313	348.389002	283.634974365	316.20792	234.56785951	1
## 5487	374	371.180485	305.810957058	316.20792	255.43498565	1
## 5488	310	363.408766	309.709570450	316.20792	257.10754969	1
## 5489	235	275.788527	239.891567855	316.20792	208.51012566	1
## 5490	68	172.360716	237.928540158	316.20792	195.61362052	1
## 5491	258	275.761139	260.304343668	316.20792	219.35690774	1
## 5492	270	283.845508	267.288024438	316.20792	227.04876660	1
## 5493	311	283.520287	276.785144430	316.20792	233.77403814	1
## 5494	282	318.216490	304.161275656	316.20792	260.20067219	1
## 5495	181	211.414353	285.909882966	316.20792	243.81436001	1
## 5496	138	179.757570	293.396924973	316.20792	251.31264245	1
## 5497	134	155.248095	298.199596280	316.20792	264.47522185	1
## 5498	68	107.877149	317.913786250	316.20792	277.40439268	1
## 5499	40	47.953353	132.487703911	32.32174	80.58435062	1
## 5500	21	21.875860	138.718868048	32.32174	88.56560301	1
## 5501	8	14.410236	181.565345933	32.32174	135.64555797	1
## 5502	5	11.907527	187.874733988	32.32174	148.22870291	1

## 5503	12	11.712530	193.876132924	32.32174	139.82865385	1
## 5504	24	28.884252	198.278107553	32.32174	141.30764146	1
## 5505	112	113.905793	213.599705776	32.32174	157.60503006	1
## 5506	281	337.459163	221.590109020	316.20792	164.90973607	1
## 5507	351	433.851266	229.077151027	316.20792	172.40801850	1
## 5508	187	219.144707	256.625268774	316.20792	200.06821255	1
## 5509	121	172.791284	283.724410310	316.20792	224.94806262	1
## 5510	131	182.473344	328.753581139	316.20792	266.55664962	1
## 5511	207	225.191828	340.885108815	316.20792	276.52151941	1
## 5512	205	240.329787	360.677522703	316.20792	294.05258279	1
## 5513	225	229.802580	366.908686839	316.20792	302.03383518	1
## 5514	199	223.166638	372.887328616	316.20792	310.11219949	1
## 5515	320	357.483531	381.882770853	316.20792	317.03040004	1
## 5516	591	612.414574	394.994470274	316.20792	331.22463846	1
## 5517	609	599.566253	393.918906763	316.20792	331.85710416	1
## 5518	416	459.341670	390.885966810	316.20792	330.28930775	1
## 5519	268	320.756956	376.326322422	316.20792	320.04258537	1
## 5520	208	238.259793	369.124423743	316.20792	314.17202409	1
## 5521	153	176.838024	378.370704858	316.20792	320.99376014	1
## 5522	64	114.919906	372.624504865	316.20792	317.51638998	1
## 5523	35	42.708661	189.148356628	32.32174	136.27985615	1
## 5524	19	21.235358	177.526660345	32.32174	126.20299451	1
## 5525	6	10.611286	172.534660467	32.32174	122.43558342	1
## 5526	6	10.044317	181.530102704	32.32174	129.35378397	1
## 5527	5	9.454213	172.318126040	32.32174	124.25623359	1
## 5528	36	30.588116	180.306845802	32.32174	131.56158701	1
## 5529	114	121.233651	178.954292601	32.32174	130.64726872	1
## 5530	344	355.580278	228.298257865	316.20792	176.14893209	1
## 5531	504	521.066971	234.479458985	316.20792	193.03407971	1
## 5532	225	258.999285	266.924584761	316.20792	223.06374919	1
## 5533	148	186.327215	303.258941047	316.20792	249.91877734	1
## 5534	186	200.199493	319.134918568	316.20792	263.04996392	1
## 5535	237	261.269623	315.321627687	316.20792	260.12895996	1
## 5536	234	312.076427	348.797943268	316.20792	291.41537249	1
## 5537	651	406.897008	356.034146398	316.20792	299.01011943	1
## 5538	601	393.220895	356.942510059	316.20792	297.22632574	1
## 5539	444	413.640409	367.340949440	316.20792	309.51099041	1
## 5540	472	606.141312	371.916594074	316.20792	312.22289060	1
## 5541	519	582.319875	378.900274843	316.20792	319.91474946	1
## 5542	367	423.324657	333.984260820	316.20792	278.70032362	1
## 5543	260	306.826936	329.493938698	316.20792	274.73998351	1
## 5544	211	230.077047	318.021045170	316.20792	270.51190853	1
## 5545	191	180.682520	327.769004040	316.20792	277.14071556	1
## 5546	80	111.213296	326.416450838	316.20792	276.22639727	1
## 5547	38	46.038207	163.054079885	32.32174	112.17850206	1
## 5548	24	25.120847	157.560402252	32.32174	108.60401998	1
## 5549	6	9.104993	142.020586119	32.32174	94.12792897	1
## 5550	1	4.708694	149.507628127	32.32174	101.62621140	1
## 5551	7	8.108102	139.594152890	32.32174	93.84542896	1
## 5552	27	28.070295	147.081194897	32.32174	101.34371139	1
## 5553	108	126.257996	152.808997796	32.32174	109.51854021	1
## 5554	308	383.954152	193.392220209	316.20792	145.27757836	1
## 5555	468	518.164593	196.431630316	316.20792	146.92695935	1
## 5556	213	232.497820	211.778095787	316.20792	158.60847387	1

## 5557	146	179.804634	261.625422289	316.20792	203.91656081	1
## 5558	185	208.219434	284.052243860	316.20792	224.68722244	1
## 5559	235	230.313186	295.682093781	316.20792	234.84502125	1
## 5560	236	221.231866	325.994489628	316.20792	261.44216347	1
## 5561	204	215.038518	333.481531635	316.20792	268.94044590	1
## 5562	204	227.442539	341.471934880	316.20792	276.24515190	1
## 5563	271	322.788605	339.616020441	316.20792	275.52441004	1
## 5564	567	600.525180	346.098023456	316.20792	283.40919792	1
## 5565	621	645.502882	340.100984585	316.20792	280.02829227	1
## 5566	440	457.227502	347.588026593	316.20792	287.52657470	1
## 5567	334	345.548624	342.596026715	316.20792	283.75916361	1
## 5568	236	249.076585	338.609065830	316.20792	279.60524706	1
## 5569	181	183.786318	337.256512629	316.20792	278.69092877	1
## 5570	70	115.383642	329.049574957	316.20792	273.20687295	1
## 5571	52	51.380058	145.798114785	32.32174	90.23062611	1
## 5572	15	18.407175	165.843051032	32.32174	107.66457757	1
## 5573	5	10.654592	173.330093039	32.32174	115.16286000	1
## 5574	4	8.907577	162.913256565	32.32174	107.57565399	1
## 5575	7	9.852141	162.565742356	32.32174	106.27483025	1
## 5576	26	28.449983	159.504968108	32.32174	103.06443277	1
## 5577	102	120.566741	165.485293367	32.32174	111.14214966	1
## 5578	313	339.384676	185.981944354	316.20792	137.28706733	1
## 5579	484	517.713088	209.864464612	316.20792	160.45092008	1
## 5580	162	221.089398	232.040447305	316.20792	181.31804622	1
## 5581	142	179.049212	254.216429999	316.20792	202.18517236	1
## 5582	151	143.782956	214.571569952	316.20792	179.64033524	1
## 5583	41	134.434589	222.058611959	316.20792	187.13861767	1
## 5584	37	141.220261	234.663556488	316.20792	183.40477067	1
## 5585	113	182.314271	255.610867169	316.20792	212.32938490	1
## 5586	132	199.549194	277.786849862	316.20792	233.19651104	1
## 5587	121	204.478381	250.165294869	316.20792	201.01665643	1
## 5588	312	325.070516	257.652336877	316.20792	208.51493886	1
## 5589	408	387.233702	265.720964039	316.20792	220.42153742	1
## 5590	272	339.328492	272.187001762	316.20792	224.41336371	1
## 5591	225	254.758075	276.005707753	316.20792	221.48468261	1
## 5592	187	206.228702	282.236871890	316.20792	229.46593500	1
## 5593	147	157.763972	268.050718323	316.20792	223.32828627	1
## 5594	84	116.172662	277.046160560	316.20792	230.24648683	1
## 5595	51	46.930593	105.596711031	32.32174	57.49659737	1
## 5596	23	22.131977	110.822836175	32.32174	65.86435521	1
## 5597	20	13.183254	109.521301034	32.32174	61.97741133	1
## 5598	11	7.534538	110.657319808	32.32174	64.71237979	1
## 5599	8	9.323046	122.234468186	32.32174	77.84345160	1
## 5600	26	28.258955	128.042178485	32.32174	90.61952556	1
## 5601	105	127.138403	137.208552200	32.32174	92.84001646	1
## 5602	266	358.584593	161.594433695	316.20792	115.81029278	1
## 5603	404	549.648040	176.690060288	316.20792	127.58827181	1
## 5604	230	290.538668	214.005643363	316.20792	164.60393823	1
## 5605	123	194.924257	252.378966973	316.20792	198.25982620	1
## 5606	214	230.123263	271.367217729	316.20792	224.98482574	1
## 5607	243	253.932668	271.773903636	316.20792	223.39396106	1
## 5608	237	250.031764	300.579582735	316.20792	250.57053774	1
## 5609	219	227.694579	313.836062820	316.20792	258.42381802	1
## 5610	249	244.541820	322.909728976	316.20792	269.94391113	1

## 5611	343	347.682486	318.090344058	316.20792	261.47814297	1
## 5612	489	502.440719	289.871665224	316.20792	232.86019735	1
## 5613	410	458.984486	293.669297538	316.20792	246.40928221	1
## 5614	290	314.009303	285.435154009	316.20792	233.35070824	1
## 5615	222	264.938945	292.671357138	316.20792	240.94545518	1
## 5616	190	232.161946	301.414277016	316.20792	247.96076766	1
## 5617	152	184.573244	307.896280030	316.20792	255.84555554	1
## 5618	136	128.551951	298.233643671	316.20792	247.96830859	1
## 5619	145	132.595600	122.607793074	32.32174	84.29890039	1
## 5620	64	81.154486	131.099874074	32.32174	91.41067737	1
## 5621	77	71.094089	139.088593836	32.32174	98.71603079	1
## 5622	30	34.155508	145.399665374	32.32174	111.29852831	1
## 5623	4	12.915623	152.886707381	32.32174	118.79681075	1
## 5624	12	16.391161	161.629627258	32.32174	125.81212322	1
## 5625	18	29.770280	169.116669265	32.32174	133.31040565	1
## 5626	28	68.591511	177.608750265	316.20792	140.42218264	1
## 5627	76	103.976016	183.336553164	316.20792	148.59701146	1
## 5628	156	169.085365	193.587873272	316.20792	155.03224205	1
## 5629	205	229.610044	212.878609404	316.20792	172.75623445	1
## 5630	88	111.311245	184.134440612	316.20792	154.87836157	1
## 5631	76	98.487927	206.136753301	316.20792	174.51257512	1
## 5632	43	122.253476	211.866239683	316.20792	182.68675653	1
## 5633	23	48.306748	203.007138017	316.20792	171.54749047	1
## 5634	30	58.002682	210.494180025	316.20792	179.04577290	1
## 5635	24	61.492623	217.479544276	316.20792	186.73698435	1
## 5636	16	63.123545	230.242620125	316.20792	192.20627503	1
## 5637	1	46.761978	154.741935447	316.20792	127.97815240	1
## 5638	8	62.921592	163.234016446	316.20792	135.08992938	1
## 5639	53	165.404191	205.667502043	316.20792	160.87346636	1
## 5640	142	240.305659	256.847875289	316.20792	204.36920625	1
## 5641	237	323.992508	267.196980092	316.20792	219.62584910	1
## 5642	306	414.802098	301.852004670	316.20792	251.75866876	1
## 5643	431	469.943662	327.944423730	316.20792	277.02567170	1
## 5644	447	458.799439	346.705647812	316.20792	293.29999203	1
## 5645	469	468.424068	353.187650826	316.20792	301.18477991	1
## 5646	491	491.703470	382.496691164	316.20792	328.16778016	1
## 5647	398	463.354411	367.937046776	316.20792	317.92105777	1
## 5648	402	434.473451	363.899067830	316.20792	316.73976682	1
## 5649	387	376.266063	350.267293561	316.20792	307.43591608	1
## 5650	214	284.485288	364.384031974	316.20792	321.24364905	1
## 5651	186	225.406499	319.466334469	316.20792	280.02987062	1
## 5652	98	142.350573	302.923162826	316.20792	265.93963764	1
## 5653	64	90.069760	295.721264146	316.20792	260.06907636	1
## 5654	34	41.171340	127.194021296	32.32174	78.72102819	1
## 5655	20	19.952542	137.671313033	32.32174	89.67566836	1
## 5656	13	12.538814	146.665071788	32.32174	96.59451632	1
## 5657	6	8.756297	152.645397048	32.32174	104.67223322	1
## 5658	3	5.476522	151.145324655	32.32174	104.16825084	1
## 5659	17	25.060159	147.582872652	32.32174	101.15078237	1
## 5660	102	126.783387	155.069914659	32.32174	108.64906481	1
## 5661	284	349.472010	204.492732280	316.20792	152.82070368	1
## 5662	404	450.292913	224.960493926	316.20792	171.39175062	1
## 5663	188	228.595065	241.287131142	316.20792	187.30263377	1
## 5664	115	162.744378	273.230579163	316.20792	217.52523227	1

## 5665	138	183.349804	279.712582177	316.20792	225.41002016	1
## 5666	207	254.018322	297.999334361	316.20792	249.45178764	1
## 5667	218	247.610307	319.620937756	316.20792	273.48511580	1
## 5668	182	243.411332	322.157615064	316.20792	269.39615616	1
## 5669	220	255.071439	332.408935172	316.20792	275.83138676	1
## 5670	282	369.093702	345.745322657	316.20792	288.28591217	1
## 5671	591	622.866955	335.659232461	316.20792	285.20348679	1
## 5672	547	586.557707	333.628592974	316.20792	277.31856271	1
## 5673	367	417.360152	341.115634981	316.20792	284.81684514	1
## 5674	277	308.775830	327.987221950	316.20792	275.31941797	1
## 5675	202	238.439280	335.975941712	316.20792	282.62477139	1
## 5676	142	180.682520	327.769004040	316.20792	277.14071556	1
## 5677	75	111.369951	322.024487530	316.20792	273.66269799	1
## 5678	27	40.205517	110.147662617	32.32174	63.65937022	1
## 5679	13	19.544620	128.182520879	32.32174	81.86633257	1
## 5680	10	10.817411	118.770723398	32.32174	73.89262111	1
## 5681	4	7.217625	127.764482152	32.32174	80.81146908	1
## 5682	6	8.170759	120.060905718	32.32174	75.13383682	1
## 5683	28	31.857062	126.292069855	32.32174	83.11508921	1
## 5684	119	128.902984	148.718891426	32.32174	103.88575084	1
## 5685	357	407.579004	173.606450677	316.20792	126.66309814	1
## 5686	493	495.118572	222.950415941	316.20792	172.16476151	1
## 5687	218	224.923255	259.113840749	316.20792	203.71749930	1
## 5688	137	170.388789	302.608460536	316.20792	244.26291969	1
## 5689	175	190.468030	319.861284387	316.20792	261.11732190	1
## 5690	237	272.715590	324.082370539	316.20792	269.87158519	1
## 5691	229	241.494468	343.597794736	316.20792	285.85586458	1
## 5692	209	231.270793	356.509673340	316.20792	297.17394192	1
## 5693	196	247.971311	360.581956736	316.20792	300.07941854	1
## 5694	337	384.021340	362.644162146	316.20792	303.75790606	1
## 5695	611	634.122417	353.734042419	316.20792	295.59126559	1
## 5696	576	600.664923	348.240364787	316.20792	292.01678351	1
## 5697	465	455.273244	331.723343957	316.20792	279.56979903	1
## 5698	298	318.647911	337.701985734	316.20792	287.64816334	1
## 5699	223	237.093491	307.699600462	316.20792	258.06286820	1
## 5700	143	175.881317	316.668491968	316.20792	269.59759024	1
## 5701	93	111.377771	324.155533975	316.20792	277.09587267	1
## 5702	32	46.166019	128.425031919	32.32174	82.85393231	1
## 5703	15	20.182850	135.912073926	32.32174	90.35221475	1
## 5704	6	12.081763	122.860829768	32.32174	79.52541048	1
## 5705	6	8.017754	119.298377765	32.32174	76.50794201	1
## 5706	5	7.799953	137.834913782	32.32174	94.52197535	1
## 5707	27	30.245514	118.882022520	32.32174	75.45243111	1
## 5708	111	123.642700	138.120057110	32.32174	96.14969650	1
## 5709	328	411.487604	160.945236749	316.20792	116.41355771	1
## 5710	467	529.831304	194.170713453	316.20792	147.79643475	1
## 5711	244	265.286968	209.015501169	316.20792	159.67087829	1
## 5712	138	180.201160	287.338989738	316.20792	232.41702950	1
## 5713	171	190.704185	307.806751384	316.20792	250.98807645	1
## 5714	260	256.701290	318.933240068	316.20792	261.33945168	1
## 5715	221	244.339099	339.177997132	316.20792	281.64956422	1
## 5716	196	225.165932	340.537020488	316.20792	282.64546709	1
## 5717	172	227.320202	348.024062495	316.20792	290.14374952	1
## 5718	309	360.827057	351.091306898	316.20792	293.43573159	1

## 5719	608	620.205720	346.099307020	316.20792	289.66832050	1
## 5720	565	630.762029	335.986010967	316.20792	279.01137698	1
## 5721	446	459.254347	393.759744285	316.20792	329.42303202	1
## 5722	289	341.948963	324.493610982	316.20792	272.05663667	1
## 5723	201	232.252047	322.388541148	316.20792	271.43171190	1
## 5724	157	192.972394	304.838647030	316.20792	257.72863179	1
## 5725	84	106.416123	282.497147970	316.20792	235.70953023	1
## 5726	51	46.697199	110.464027260	32.32174	63.77638594	1
## 5727	21	24.404849	128.749724399	32.32174	81.88688378	1
## 5728	25	17.744609	119.337926918	32.32174	73.91317233	1
## 5729	14	12.587751	126.824968925	32.32174	81.41145476	1
## 5730	7	9.397691	117.413171443	32.32174	73.43774330	1
## 5731	23	29.875902	146.999201471	32.32174	101.96752754	1
## 5732	105	123.611838	153.627040194	32.32174	109.44262692	1
## 5733	342	401.423127	161.114082201	316.20792	116.94090935	1
## 5734	498	525.939957	187.760880560	316.20792	139.04171027	1
## 5735	207	242.096599	209.435185498	316.20792	160.10176542	1
## 5736	138	181.695555	246.801786633	316.20792	194.14480625	1
## 5737	192	212.273530	288.086507618	316.20792	232.58707646	1
## 5738	229	264.545834	293.894217917	316.20792	245.36315042	1
## 5739	219	267.218672	307.258439698	316.20792	259.46027692	1
## 5740	198	249.075746	302.569351803	316.20792	258.55504537	1
## 5741	174	223.421856	318.034675646	316.20792	262.58020619	1
## 5742	308	362.245168	332.376102124	316.20792	274.64822616	1
## 5743	628	669.834582	328.389141239	316.20792	270.49430961	1
## 5744	531	625.375385	335.374505491	316.20792	278.18552106	1
## 5745	443	511.006178	327.167567819	316.20792	272.70146523	1
## 5746	280	357.547441	317.331261456	316.20792	263.59130570	1
## 5747	177	217.506509	331.475205726	316.20792	284.97355681	1
## 5748	179	198.998694	339.465608971	316.20792	292.27826282	1
## 5749	126	150.163069	325.605124546	316.20792	272.52438027	1
## 5750	64	62.810263	152.398119391	32.32174	100.45038979	1
## 5751	32	26.813374	131.491245341	32.32174	97.30224531	1
## 5752	20	20.516649	138.978287348	32.32174	104.80052774	1
## 5753	8	8.986384	121.201366556	32.32174	80.64676841	1
## 5754	4	8.396050	129.111862400	32.32174	83.35022928	1
## 5755	20	28.231252	135.672089332	32.32174	95.83690971	1
## 5756	76	117.526776	144.838463047	32.32174	98.05740061	1
## 5757	259	357.290047	151.823827298	316.20792	105.74861206	1
## 5758	456	482.438635	177.716425542	316.20792	128.13945392	1
## 5759	220	279.906010	170.967925084	316.20792	130.97921144	1
## 5760	140	190.597402	200.778643176	316.20792	157.76928267	1
## 5761	192	203.138496	217.529789273	316.20792	174.81661390	1
## 5762	260	243.890736	238.076403276	316.20792	192.05763633	1
## 5763	279	254.157044	258.743985739	316.20792	213.50484435	1
## 5764	283	278.933075	280.418290677	316.20792	234.56489951	1
## 5765	346	315.993105	290.417088425	316.20792	241.09724203	1
## 5766	381	374.266836	295.894052447	316.20792	249.36853535	1
## 5767	455	518.464136	289.195515005	316.20792	243.30439765	1
## 5768	355	481.418971	297.184234767	316.20792	250.60975106	1
## 5769	287	388.493173	290.656628802	316.20792	239.84790371	1
## 5770	196	282.958381	281.193813259	316.20792	234.84681784	1
## 5771	149	191.796992	288.509923790	316.20792	247.04280992	1
## 5772	147	166.054619	297.252843667	316.20792	254.05812239	1

## 5773	98	115.878988	304.739885674	316.20792	261.55640482	1
## 5774	87	103.313450	127.858157207	32.32174	98.36996658	1
## 5775	74	80.159293	146.696550163	32.32174	113.31490982	1
## 5776	41	66.882978	153.681914415	32.32174	121.00612127	1
## 5777	35	36.571052	147.154308450	32.32174	110.24427392	1
## 5778	7	13.347268	154.641350457	32.32174	117.74255635	1
## 5779	12	16.339465	171.469665427	32.32174	133.46051048	1
## 5780	23	24.784475	169.615434471	32.32174	132.73912121	1
## 5781	38	73.990004	177.604154233	316.20792	140.04447463	1
## 5782	89	134.677030	199.278459172	316.20792	161.10452978	1
## 5783	201	240.684190	212.442231698	316.20792	178.25741226	1
## 5784	258	307.777577	227.089537206	316.20792	199.44608694	1
## 5785	194	260.455185	226.240345242	316.20792	198.33819222	1
## 5786	257	342.218514	265.458893044	316.20792	222.40508446	1
## 5787	353	361.044176	264.106339843	316.20792	221.49076617	1
## 5788	380	379.544673	272.548457826	316.20792	237.50643838	1
## 5789	388	377.950322	272.875236332	316.20792	231.31432857	1
## 5790	374	376.919943	280.863956094	316.20792	238.61968198	1
## 5791	371	384.211639	288.854359339	316.20792	245.92438798	1
## 5792	339	367.284962	295.336362353	316.20792	253.80917586	1
## 5793	295	308.829174	287.631102436	316.20792	248.13219102	1
## 5794	219	218.924474	284.572011670	316.20792	244.92114612	1
## 5795	164	175.967001	276.866751753	316.20792	239.24416127	1
## 5796	162	160.691137	283.852116005	316.20792	246.93537272	1
## 5797	123	132.633685	281.571692685	316.20792	245.07818279	1
## 5798	109	123.223962	101.535170307	32.32174	63.81858069	1
## 5799	75	88.710946	121.276566134	32.32174	84.32226965	1
## 5800	60	68.659705	129.768647134	32.32174	91.43404663	1
## 5801	43	39.464185	118.146950850	32.32174	81.35718500	1
## 5802	4	10.714296	138.391707914	32.32174	101.66729753	1
## 5803	6	13.746499	145.375388684	32.32174	109.35915639	1
## 5804	3	19.834942	152.160932119	32.32174	114.17420676	1
## 5805	30	60.699661	178.253351179	316.20792	139.44120970	1
## 5806	70	111.095146	185.238715431	316.20792	147.13242115	1
## 5807	189	214.535490	192.725757438	316.20792	154.63070358	1
## 5808	297	305.444803	220.247724372	316.20792	180.64764913	1
## 5809	337	368.094509	248.776413782	316.20792	206.27744183	1
## 5810	435	420.286198	270.952396475	316.20792	227.14456797	1
## 5811	419	430.234105	293.459125447	316.20792	252.51647474	1
## 5812	361	402.469011	294.540104068	316.20792	246.03432398	1
## 5813	410	401.269892	301.272945960	316.20792	253.82264735	1
## 5814	337	379.601379	329.073586067	316.20792	281.38572948	1
## 5815	376	415.168245	309.392645503	316.20792	264.24947468	1
## 5816	356	391.560965	316.376326273	316.20792	271.94133354	1
## 5817	328	354.397158	309.174427593	316.20792	266.07077226	1
## 5818	229	286.135769	318.420708708	316.20792	272.89250831	1
## 5819	207	215.358677	310.464609914	316.20792	267.31198797	1
## 5820	155	167.795232	316.775681451	316.20792	279.89448550	1
## 5821	104	122.843323	331.092240681	316.20792	296.57837955	1
## 5822	97	94.292192	121.586383721	32.32174	91.25256488	1
## 5823	54	68.156320	110.164508254	32.32174	84.05186432	1
## 5824	39	52.518185	118.656589254	32.32174	91.16364130	1
## 5825	16	26.053240	139.454042134	32.32174	108.30819923	1
## 5826	8	16.299302	157.739739274	32.32174	126.41869707	1

## 5827	6	12.193233	146.317863807	32.32174	119.21799651	1
## 5828	11	21.564480	153.301544576	32.32174	126.90985538	1
## 5829	41	76.234976	162.971279528	316.20792	128.93676985	1
## 5830	101	141.254418	160.441072375	316.20792	133.10731407	1
## 5831	152	202.491987	180.436045606	316.20792	159.44516075	1
## 5832	244	283.933348	204.291360007	316.20792	175.03449537	1
## 5833	308	302.276551	202.938806806	316.20792	174.12017708	1
## 5834	353	367.013416	225.616467254	316.20792	194.79437420	1
## 5835	389	400.590429	237.947815747	316.20792	207.63540506	1
## 5836	357	400.429910	247.617550699	316.20792	209.66231954	1
## 5837	253	269.333801	217.998213331	316.20792	187.86830202	1
## 5838	284	279.133859	225.485255338	316.20792	195.36658445	1
## 5839	114	173.116966	202.008846868	316.20792	178.03663844	1
## 5840	123	176.118536	210.924381704	316.20792	180.35359385	1
## 5841	175	169.817072	204.254105164	316.20792	187.79524392	1
## 5842	82	124.846721	214.252902912	316.20792	194.32758644	1
## 5843	60	100.974637	224.173476741	316.20792	196.25803641	1
## 5844	64	90.191737	232.146231212	316.20792	199.67042823	1
## 5845	20	56.342127	222.989294700	316.20792	203.78999707	1
## 5846	8	13.190200	58.469941426	32.32174	24.17035084	1
## 5847	2	4.434676	71.684786332	32.32174	39.84346210	1
## 5848	1	3.451958	79.926028454	32.32174	47.05170359	1
## 5849	4	5.788402	89.092402168	32.32174	49.27219449	1
## 5850	21	20.428603	109.164544273	32.32174	74.28066409	1
## 5851	72	102.090655	117.829240232	32.32174	76.69408401	1
## 5852	172	265.856643	136.867454005	316.20792	94.51518833	1
## 5853	364	255.935391	143.178525542	316.20792	107.09768585	1
## 5854	185	208.227363	157.266374616	316.20792	113.33154810	1
## 5855	106	107.968608	157.649248319	316.20792	122.28782715	1
## 5856	89	106.647041	165.639651563	316.20792	129.59253315	1
## 5857	67	106.546084	173.126693571	316.20792	137.09081558	1
## 5858	29	59.390328	168.055841337	316.20792	134.65342899	1
## 5859	24	63.581450	175.292044466	316.20792	142.24817593	1
## 5860	89	99.075251	171.278932769	316.20792	136.45101089	1
## 5861	106	116.668639	178.765974776	316.20792	143.94929332	1
## 5862	291	322.560785	201.191741303	316.20792	158.78868531	1
## 5863	373	326.483012	208.678783310	316.20792	166.28696774	1
## 5864	281	311.224657	216.667503072	316.20792	173.59232116	1
## 5865	163	135.991845	220.465135386	316.20792	187.14140601	1
## 5866	121	117.670466	227.701338516	316.20792	194.73615295	1
## 5867	84	108.098491	224.362519533	316.20792	184.04770184	1
## 5868	58	65.248031	228.912668480	316.20792	197.30739316	1
## 5869	13	19.835369	57.888356270	32.32174	19.76203473	1
## 5870	5	6.353879	64.197744325	32.32174	32.34517966	1
## 5871	6	6.833282	72.862440284	32.32174	34.75859959	1
## 5872	2	4.525594	83.011095832	32.32174	53.07099841	1
## 5873	4	4.899857	91.001499076	32.32174	60.37570441	1
## 5874	16	20.447510	86.405118741	32.32174	50.17087067	1
## 5875	75	93.750765	129.928627867	32.32174	98.29016178	1
## 5876	86	153.814888	137.164830996	316.20792	105.88490872	1
## 5877	328	252.435508	137.241825669	316.20792	105.72053305	1
## 5878	190	140.507536	152.891431643	316.20792	120.59208006	1
## 5879	66	85.973079	160.378473650	316.20792	128.09036249	1
## 5880	10	39.791872	152.345205982	316.20792	123.83921924	1

## 5881	22	43.841842	148.133557032	316.20792	121.42501570	1
## 5882	11	59.488784	180.578682808	316.20792	151.45468519	1
## 5883	25	40.143547	177.016230805	316.20792	148.43721672	1
## 5884	58	76.557809	189.901958596	316.20792	158.11204557	1
## 5885	144	189.699336	215.887264398	316.20792	171.20328522	1
## 5886	285	252.373582	220.015642991	316.20792	189.25715071	1
## 5887	237	252.194882	227.502684998	316.20792	196.75543314	1
## 5888	226	282.875282	236.669058712	316.20792	198.97592405	1
## 5889	96	138.219988	243.985169242	316.20792	211.17191612	1
## 5890	38	97.291799	251.472211249	316.20792	218.67019856	1
## 5891	29	62.975847	243.316291638	316.20792	210.21351714	1
## 5892	24	52.458226	251.305011400	316.20792	217.51887056	1
## 5893	14	16.847289	59.994306947	32.32174	27.48323056	1
## 5894	4	10.269671	85.083370497	32.32174	53.13609152	1
## 5895	2	7.383238	98.298215403	32.32174	68.80920277	1
## 5896	3	5.420133	108.972989348	32.32174	70.44961180	1
## 5897	14	16.576303	114.780699648	32.32174	83.22568576	1
## 5898	56	78.396731	123.523619525	32.32174	90.24099823	1
## 5899	179	195.622691	130.005622539	316.20792	98.12578611	1
## 5900	195	231.202021	137.994342302	316.20792	105.43113953	1
## 5901	69	141.893383	135.911401189	316.20792	94.25971845	1
## 5902	65	106.453601	159.995425746	316.20792	120.29908487	1
## 5903	98	108.974475	169.492545738	316.20792	127.02435640	1
## 5904	102	118.161091	182.828933224	316.20792	139.47888182	1
## 5905	126	161.736238	223.238485632	316.20792	174.00500739	1
## 5906	120	161.397573	244.911107088	316.20792	195.06570996	1
## 5907	139	131.540092	215.916099418	316.20792	177.28430159	1
## 5908	156	131.103629	206.253463059	316.20792	169.40705464	1
## 5909	113	142.917812	213.740505066	316.20792	176.90533707	1
## 5910	68	115.786669	222.483424944	316.20792	183.92064955	1
## 5911	52	94.611095	210.360050905	316.20792	174.03671693	1
## 5912	89	177.542020	230.021539331	316.20792	189.93916075	1
## 5913	82	98.773803	240.673556116	316.20792	208.05798314	1
## 5914	70	65.448091	228.801020955	316.20792	198.07758602	1
## 5915	26	52.200065	236.288062962	316.20792	205.57586845	1
## 5916	16	22.546612	84.952390716	32.32174	50.01461761	1
## 5917	8	13.912382	74.508348385	32.32174	34.85289347	1
## 5918	8	8.876580	83.502107140	32.32174	41.77174143	1
## 5919	2	6.219939	104.248541959	32.32174	61.88892495	1
## 5920	3	6.112481	108.549535511	32.32174	75.24443337	1
## 5921	14	22.042955	117.212547988	32.32174	77.65850071	1
## 5922	57	88.426322	111.440197182	32.32174	72.53788206	1
## 5923	108	156.489680	119.257985468	316.20792	84.54094512	1
## 5924	288	226.911425	138.497703539	316.20792	105.23756310	1
## 5925	136	143.162250	145.984745546	316.20792	112.73584553	1
## 5926	29	89.781872	139.127448348	316.20792	103.40048719	1
## 5927	72	95.301761	159.873883167	316.20792	123.51767070	1
## 5928	75	117.091200	174.889602360	316.20792	130.69440460	1
## 5929	122	165.503399	234.581563063	316.20792	184.02858681	1
## 5930	148	192.200667	258.967444558	316.20792	206.99886313	1
## 5931	188	228.823184	288.474622230	316.20792	236.85867187	1
## 5932	285	332.031940	298.222581100	316.20792	243.48747890	1
## 5933	505	479.532788	267.292325709	316.20792	212.95931212	1
## 5934	410	447.401453	273.774328723	316.20792	220.84410000	1

## 5935	349	328.434581	246.962013998	316.20792	197.59132367	1
## 5936	210	211.061835	236.294338646	316.20792	190.10058217	1
## 5937	203	204.115827	259.171819912	316.20792	213.65094037	1
## 5938	160	152.884342	243.910676952	316.20792	200.72098593	1
## 5939	148	122.197291	252.906119189	316.20792	207.63918648	1
## 5940	116	106.055084	75.521029485	32.32174	44.64632467	1
## 5941	83	80.858876	81.328739785	32.32174	57.42239863	1
## 5942	64	72.358395	78.095979015	32.32174	52.97844114	1
## 5943	37	33.817101	75.284988600	32.32174	43.74030950	1
## 5944	7	12.988859	95.278906787	32.32174	64.14688654	1
## 5945	8	12.988471	103.518465426	32.32174	71.35577545	1
## 5946	6	18.043950	111.508868671	32.32174	78.66048145	1
## 5947	52	61.751245	137.601287731	316.20792	103.92748438	1
## 5948	119	134.617035	162.490530464	316.20792	126.70418427	1
## 5949	207	231.221734	189.137328823	316.20792	148.80498519	1
## 5950	318	343.027313	242.146891577	316.20792	198.80298986	1
## 5951	360	391.039688	262.112975468	316.20792	217.56696582	1
## 5952	404	382.754215	269.098339720	316.20792	225.25817727	1
## 5953	370	433.278019	298.909057812	316.20792	252.04824850	1
## 5954	359	424.559961	306.396099819	316.20792	259.54653093	1
## 5955	480	442.637183	312.878102834	316.20792	267.43131881	1
## 5956	431	434.844913	319.861783603	316.20792	275.12317768	1
## 5957	460	459.319431	327.852186848	316.20792	282.42788368	1
## 5958	360	385.866189	322.356825733	316.20792	278.85404901	1
## 5959	315	353.026941	322.989483269	316.20792	281.78259391	1
## 5960	245	265.364237	293.967269742	316.20792	256.42666740	1
## 5961	230	216.084619	275.465038174	316.20792	240.13681973	1
## 5962	175	182.326795	281.443679951	316.20792	248.21518404	1
## 5963	139	130.606743	259.303056752	316.20792	235.00351321	1
## 5964	108	118.406261	88.780422297	32.32174	57.26522575	1
## 5965	88	88.305111	94.588132597	32.32174	70.04129971	1
## 5966	76	73.584993	127.440118480	32.32174	97.31510309	1
## 5967	45	43.404421	133.169604862	32.32174	105.48928450	1
## 5968	9	15.851228	126.189655720	32.32174	91.94838799	1
## 5969	39	21.306269	133.676697727	32.32174	99.44667042	1
## 5970	20	23.640140	123.763222491	32.32174	91.66588798	1
## 5971	37	67.351163	135.340370868	316.20792	104.79695979	1
## 5972	94	131.764650	176.625091852	316.20792	143.23923000	1
## 5973	227	246.241743	198.801074546	316.20792	164.10635614	1
## 5974	334	355.035580	237.875896728	316.20792	200.44547616	1
## 5975	402	386.051578	245.362938735	316.20792	207.94375859	1
## 5976	411	394.006395	252.849980742	316.20792	215.44204103	1
## 5977	350	376.692290	289.264244428	316.20792	246.89831431	1
## 5978	342	404.720987	293.917057935	316.20792	248.28083741	1
## 5979	404	507.222009	322.973575912	316.20792	275.36094958	1
## 5980	483	515.421419	324.611272441	316.20792	277.90298902	1
## 5981	380	427.753352	329.334036348	316.20792	286.46432329	1
## 5982	339	396.370403	296.948082270	316.20792	253.54296539	1
## 5983	333	319.001721	280.630882256	316.20792	243.97214198	1
## 5984	226	249.702052	273.428983577	316.20792	238.10158071	1
## 5985	159	195.981204	293.845727163	316.20792	259.64525323	1
## 5986	95	133.331960	302.017018885	316.20792	259.67468356	1
## 5987	45	80.277290	269.532422339	316.20792	250.82023869	1
## 5988	16	30.255536	76.415509405	32.32174	32.92886267	1

## 5989	12	15.830203	82.394151182	32.32174	41.00722698	1
## 5990	2	8.723547	89.881193189	32.32174	48.50550942	1
## 5991	4	6.680878	87.505778020	32.32174	45.25038382	1
## 5992	24	33.464798	123.391813220	32.32174	81.51610761	1
## 5993	109	124.146853	130.878855227	32.32174	89.01439005	1
## 5994	312	356.291234	144.215242712	316.20792	101.46891546	1
## 5995	408	509.000048	170.109524438	316.20792	123.85910990	1
## 5996	176	243.499582	207.675946390	316.20792	160.77831181	1
## 5997	129	174.364665	245.095249069	316.20792	191.84807964	1
## 5998	165	220.299544	267.772909517	316.20792	212.52227676	1
## 5999	184	230.465104	296.578588617	316.20792	239.69885344	1
## 6000	163	225.604068	295.929217470	316.20792	241.46711980	1
## 6001	189	219.249242	316.900340354	316.20792	259.84459031	1
## 6002	212	238.718945	329.761200897	316.20792	274.13529324	1
## 6003	298	377.012113	329.890497196	316.20792	277.25741457	1
## 6004	590	671.186128	333.512120897	316.20792	277.38319462	1
## 6005	571	607.089309	329.021798775	316.20792	273.42285451	1
## 6006	436	493.861096	323.024759905	316.20792	270.04194886	1
## 6007	299	341.334769	304.722349154	316.20792	256.62826227	1
## 6008	195	238.175324	290.189255497	316.20792	241.76501839	1
## 6009	150	175.884834	270.983841875	316.20792	222.79258608	1
## 6010	69	108.989450	277.465844889	316.20792	230.67737396	1
## 6011	26	34.728478	88.365039239	32.32174	42.74488414	1
## 6012	10	17.691641	101.052229778	32.32174	55.80267448	1
## 6013	2	11.435959	123.678872166	32.32174	79.44949719	1
## 6014	4	9.092001	114.267074684	32.32174	71.47578574	1
## 6015	8	7.934632	104.855277203	32.32174	63.50207428	1
## 6016	20	28.346095	112.342319210	32.32174	71.00035671	1
## 6017	122	132.772915	121.588600325	32.32174	77.82209276	1
## 6018	362	361.480437	145.723642943	316.20792	100.88883358	1
## 6019	425	485.327641	163.730666910	316.20792	117.45319485	1
## 6020	214	236.320475	209.184346621	316.20792	160.19822993	1
## 6021	135	175.816816	229.122596217	316.20792	177.31960481	1
## 6022	153	193.187557	260.641535356	316.20792	206.40575524	1
## 6023	187	229.121290	281.612658240	316.20792	224.78322575	1
## 6024	184	212.483531	311.423376333	316.20792	251.57329698	1
## 6025	190	215.791344	319.664618455	316.20792	258.78153847	1
## 6026	180	216.806094	326.648299224	316.20792	266.47339734	1
## 6027	292	356.348565	332.879463361	316.20792	274.45464973	1
## 6028	579	679.192270	340.366505368	316.20792	281.95293216	1
## 6029	539	574.493884	313.050829405	316.20792	258.89373226	1
## 6030	396	441.088396	297.009335518	316.20792	244.61057026	1
## 6031	272	324.753634	288.099215791	316.20792	236.44392979	1
## 6032	245	245.683186	280.395639357	316.20792	230.76629753	1
## 6033	144	177.197356	287.379320126	316.20792	238.45815639	1
## 6034	74	111.806754	294.364684378	316.20792	246.14936784	1
## 6035	33	43.086394	116.062533860	32.32174	68.82909344	1
## 6036	8	17.269155	123.549575867	32.32174	76.32737587	1
## 6037	5	9.703922	112.629378155	32.32174	68.93374629	1
## 6038	8	8.590210	111.327843015	32.32174	65.04680241	1
## 6039	9	8.396050	129.111862400	32.32174	83.35022928	1
## 6040	31	30.391336	119.950903796	32.32174	75.28005331	1
## 6041	145	132.614275	127.437945803	32.32174	82.77833574	1
## 6042	370	357.290047	151.823827298	316.20792	105.74861206	1

## 6043	429	480.087512	166.165253776	316.20792	117.81663203	1
## 6044	202	245.718817	190.551135272	316.20792	140.78690835	1
## 6045	142	181.654514	232.762042893	316.20792	180.17269761	1
## 6046	164	199.363870	255.441386824	316.20792	200.84624732	1
## 6047	212	228.350484	287.462003719	316.20792	229.73946874	1
## 6048	178	237.791458	307.929765365	316.20792	248.31051568	1
## 6049	124	197.774421	327.394171501	316.20792	267.26742065	1
## 6050	176	225.362606	342.012587670	316.20792	280.88222461	1
## 6051	277	372.375645	337.523949030	316.20792	276.92123708	1
## 6052	599	666.723885	345.010991037	316.20792	284.41951951	1
## 6053	586	590.720309	316.690276082	316.20792	261.74682507	1
## 6054	381	416.465593	297.964411494	316.20792	253.12796004	1
## 6055	261	318.040643	343.095618445	316.20792	288.79129588	1
## 6056	213	230.930364	314.299376547	316.20792	267.95477894	1
## 6057	160	186.061588	320.278018324	316.20792	276.03314325	1
## 6058	72	110.734567	312.574441890	316.20792	270.35551099	1
## 6059	37	46.642407	142.553485190	32.32174	92.42429452	1
## 6060	20	20.502993	150.543888434	32.32174	99.72900052	1
## 6061	5	11.109583	142.336950762	32.32174	94.24494469	1
## 6062	8	10.651856	149.573153892	32.32174	101.83969163	1
## 6063	7	10.484386	140.412195288	32.32174	93.76951567	1
## 6064	31	33.252271	146.139998187	32.32174	101.94434449	1
## 6065	124	119.804648	145.169209325	32.32174	102.56218124	1
## 6066	338	382.247545	168.550051828	316.20792	125.91896301	1
## 6067	391	505.831258	193.610226038	316.20792	143.99795325	1
## 6068	209	220.543267	203.187253431	316.20792	155.32446992	1
## 6069	121	180.615084	223.603997017	316.20792	176.86814245	1
## 6070	159	206.631850	243.769901725	316.20792	198.50827949	1
## 6071	179	212.089411	239.332281146	316.20792	191.57466638	1
## 6072	189	236.870369	249.558734005	316.20792	202.62577105	1
## 6073	170	220.444293	259.306692875	316.20792	209.25457808	1
## 6074	135	184.878955	246.255448718	316.20792	198.42777382	1
## 6075	222	253.889856	219.269463989	316.20792	173.94208491	1
## 6076	261	235.476348	196.479643843	175.93855	161.33367900	1
## 6077	244	263.058440	239.626923622	175.93855	199.41327423	1
## 6078	232	255.269694	242.111527825	175.93855	192.36567054	1
## 6079	248	236.223184	256.177248177	175.93855	209.14602910	1
## 6080	145	163.308714	263.664290184	175.93855	216.64431153	1
## 6081	115	129.470803	255.708191390	175.93855	211.06379119	1
## 6082	69	94.520491	262.190194404	175.93855	218.94857907	1
## 6083	48	44.756432	75.299287556	32.32174	33.11923943	1
## 6084	26	24.752371	91.122563533	32.32174	49.22369902	1
## 6085	10	11.794027	85.429065084	32.32174	42.77305586	1
## 6086	6	9.060479	92.412745854	32.32174	50.46491472	1
## 6087	4	7.744862	100.403149098	32.32174	57.76962073	1
## 6088	32	32.063088	89.482951386	32.32174	50.37599115	1
## 6089	93	103.653611	108.522848641	32.32174	68.19644805	1
## 6090	299	318.541255	122.864275119	175.93855	80.26446802	1
## 6091	409	443.141661	144.035218820	175.93855	101.51809961	1
## 6092	210	234.730790	190.241415164	175.93855	143.97374116	1
## 6093	140	178.036184	217.090772866	316.20792	174.88132538	1
## 6094	179	209.868132	222.064375650	316.20792	183.34619514	1
## 6095	251	241.396429	246.399239085	316.20792	209.28909705	1
## 6096	223	244.790891	266.365322976	316.20792	228.05307300	1

## 6097	225	237.525518	269.986946677	316.20792	228.17885306	1
## 6098	203	235.840878	278.479027677	316.20792	235.29063004	1
## 6099	358	373.700676	272.481988807	316.20792	231.90972440	1
## 6100	566	509.067223	279.465669577	316.20792	239.60158326	1
## 6101	482	492.266544	278.616477613	316.20792	238.49368854	1
## 6102	315	343.029985	273.624477736	316.20792	234.72627744	1
## 6103	225	267.667407	278.347241642	316.20792	243.28761171	1
## 6104	163	188.206111	268.155093233	316.20792	233.96069270	1
## 6105	167	159.119010	264.140926491	175.93855	222.23225802	1
## 6106	126	144.487475	293.648104162	316.20792	252.09206676	1
## 6107	108	106.052755	80.108317405	32.32174	50.20263291	1
## 6108	80	80.084155	86.590320419	32.32174	58.08742079	1
## 6109	79	74.004761	71.727535528	32.32174	44.65066593	1
## 6110	28	30.697901	102.066082189	32.32174	72.89105664	1
## 6111	5	13.006974	109.553124196	32.32174	80.38933907	1
## 6112	5	13.305355	117.543527440	32.32174	87.69404507	1
## 6113	22	27.851298	124.356276733	32.32174	100.08361358	1
## 6114	37	74.313888	120.290463492	175.93855	97.25972154	1
## 6115	108	111.361910	128.782544492	175.93855	104.37149853	1
## 6116	177	204.700768	163.716242243	175.93855	138.05045476	1
## 6117	249	268.203537	175.847769918	316.20792	148.01532455	1
## 6118	367	340.034308	188.179118411	316.20792	160.85635542	1
## 6119	372	351.619354	197.876059220	316.20792	170.45778803	1
## 6120	349	340.247493	202.649841188	316.20792	176.04649671	1
## 6121	297	321.200871	201.297287986	316.20792	175.13217842	1
## 6122	354	324.853381	208.784329993	316.20792	182.63046086	1
## 6123	305	340.220211	233.644683387	316.20792	197.83329002	1
## 6124	359	350.477742	225.941106952	316.20792	192.15565776	1
## 6125	329	334.903297	231.748817252	316.20792	204.93173172	1
## 6126	256	267.038246	248.246385944	316.20792	216.14490523	1
## 6127	176	218.747021	255.733427951	316.20792	223.64318766	1
## 6128	170	170.133146	247.857236557	316.20792	222.66391246	1
## 6129	143	150.223820	257.526971509	316.20792	224.69082694	1
## 6130	136	119.795624	230.211295546	175.93855	201.63162704	1
## 6131	112	104.256403	70.063862387	32.32174	39.30037656	1
## 6132	79	84.582440	77.550904394	32.32174	46.79865900	1
## 6133	89	74.552542	68.640784668	32.32174	38.63201852	1
## 6134	36	32.696314	75.122787682	32.32174	46.51680640	1
## 6135	1	9.233365	94.162684937	32.32174	64.33726330	1
## 6136	6	10.809783	101.649726944	32.32174	71.83554574	1
## 6137	12	25.069277	109.638446707	32.32174	79.14089915	1
## 6138	44	74.228233	133.522650447	175.93855	102.30410449	1
## 6139	69	109.279790	141.511370209	175.93855	109.60945790	1
## 6140	140	196.334807	165.897251705	175.93855	132.57973422	1
## 6141	260	276.931230	166.677428432	316.20792	135.09794320	1
## 6142	317	332.884781	189.858450118	316.20792	155.57856389	1
## 6143	364	360.008763	210.526032582	316.20792	177.02577191	1
## 6144	376	377.206944	232.702015275	316.20792	197.89289805	1
## 6145	311	352.729311	253.198666261	316.20792	224.03781572	1
## 6146	365	355.518290	251.846113060	316.20792	223.12349743	1
## 6147	369	364.962065	245.147575618	316.20792	217.05935972	1
## 6148	325	368.995335	253.136295381	316.20792	224.36471313	1
## 6149	289	333.487685	267.956215848	316.20792	240.85503075	1
## 6150	245	258.016110	251.914721960	316.20792	226.57186876	1

## 6151	180	211.623349	259.150925090	316.20792	234.16661570	1
## 6152	147	160.036009	266.637967097	316.20792	241.66489813	1
## 6153	84	124.132774	274.125009104	316.20792	249.16318056	1
## 6154	54	93.172303	285.048938444	316.20792	250.70777249	1
## 6155	37	38.872288	99.651745445	32.32174	61.46160116	1
## 6156	10	18.264000	106.133748459	32.32174	69.34638904	1
## 6157	13	13.808672	114.122468221	32.32174	76.65174245	1
## 6158	5	6.932888	104.710670740	32.32174	68.67803099	1
## 6159	8	8.785785	112.701073984	32.32174	75.98273700	1
## 6160	28	31.318415	120.689793746	32.32174	83.28809041	1
## 6161	113	139.014552	130.359528698	32.32174	85.31500489	1
## 6162	332	342.556754	125.117744988	316.20792	87.57532794	1
## 6163	420	507.280880	147.995226253	316.20792	111.12568614	1
## 6164	215	249.853542	181.724064195	316.20792	142.31498675	1
## 6165	105	169.971628	203.396685651	316.20792	163.37568932	1
## 6166	139	179.100460	217.236434373	316.20792	175.63663831	1
## 6167	189	207.949321	232.307193718	316.20792	192.03049142	1
## 6168	177	209.422792	244.135180973	316.20792	205.06509872	1
## 6169	188	218.506399	254.888178836	316.20792	211.30740029	1
## 6170	187	235.754141	262.878582081	316.20792	218.61210629	1
## 6171	263	330.387329	269.360585095	316.20792	226.49689417	1
## 6172	568	547.081240	261.655325178	316.20792	220.81990933	1
## 6173	540	515.074529	254.453426499	316.20792	214.94934805	1
## 6174	374	399.020933	261.438790751	316.20792	222.64055950	1
## 6175	231	322.234584	269.427510513	316.20792	229.94591292	1
## 6176	200	210.024583	277.417913757	316.20792	237.25061892	1
## 6177	129	159.804011	284.904955764	316.20792	244.74890135	1
## 6178	68	97.659889	281.844181516	316.20792	241.53850386	1
## 6179	25	35.258954	109.140537599	32.32174	69.27093695	1
## 6180	14	15.080603	77.629752097	32.32174	40.26572369	1
## 6181	5	8.869440	85.116794104	32.32174	47.76400612	1
## 6182	3	6.131127	104.658369114	32.32174	65.39153401	1
## 6183	6	7.952917	102.271887580	32.32174	57.28985044	1
## 6184	22	26.161947	108.079597880	32.32174	70.06592440	1
## 6185	114	119.296789	115.566639887	32.32174	77.56420683	1
## 6186	329	352.999617	122.552004139	316.20792	85.25541828	1
## 6187	209	192.744287	116.607038374	316.20792	84.83315669	1
## 6188	69	113.600708	123.592402626	316.20792	92.52436814	1
## 6189	30	63.531424	149.183143931	316.20792	117.98430009	1
## 6190	56	62.910946	156.670185938	316.20792	125.48258252	1
## 6191	60	101.528438	152.577166840	316.20792	115.08417234	1
## 6192	103	114.299468	159.560847609	316.20792	122.77603120	1
## 6193	112	150.276001	187.161666900	316.20792	147.46295225	1
## 6194	192	209.084380	226.939671136	316.20792	186.48465693	1
## 6195	264	268.723526	218.532912647	316.20792	178.12444002	1
## 6196	511	464.636818	226.694247369	316.20792	180.73143638	1
## 6197	492	461.297749	234.181289376	316.20792	188.22971881	1
## 6198	337	298.147992	223.010252787	316.20792	180.93255374	1
## 6199	253	223.743132	211.388556503	316.20792	170.85569211	1
## 6200	206	187.257742	218.875598510	316.20792	178.35397454	1
## 6201	148	149.921556	226.362640517	316.20792	185.85225697	1
## 6202	81	107.961804	233.849682524	316.20792	193.35053940	1
## 6203	27	29.596060	42.538978071	32.32174	3.31489940	1
## 6204	17	15.487811	63.285412891	32.32174	23.43208292	1

## 6205	6	9.489833	70.772454898	32.32174	30.93036535	1
## 6206	6	7.134107	78.088565428	32.32174	43.12635743	1
## 6207	7	8.246673	73.068731255	32.32174	37.71634525	1
## 6208	31	23.715918	81.059134500	32.32174	45.02105125	1
## 6209	117	102.277563	89.047854262	32.32174	52.32640466	1
## 6210	330	333.271166	96.534896269	316.20792	59.82468710	1
## 6211	462	428.070737	102.515221528	316.20792	67.90240399	1
## 6212	208	199.131085	115.600770136	316.20792	80.45339392	1
## 6213	133	147.977518	159.796888494	316.20792	123.68204637	1
## 6214	180	182.775092	186.947048090	316.20792	145.58927085	1
## 6215	193	209.082354	210.077051716	316.20792	169.04251713	1
## 6216	181	193.960975	233.508912280	316.20792	189.42667331	1
## 6217	179	192.439010	241.497632042	316.20792	196.73202672	1
## 6218	185	208.019409	247.477957301	316.20792	204.80974362	1
## 6219	281	308.253482	254.964999308	316.20792	212.30802605	1
## 6220	536	492.664891	261.777748601	316.20792	224.69759456	1
## 6221	408	364.153462	243.526355911	316.20792	208.31128239	1
## 6222	283	227.440189	218.090887516	316.20792	188.78172168	1
## 6223	160	171.172053	225.577929523	316.20792	196.28000411	1
## 6224	200	180.825706	217.143965177	316.20792	180.34526907	1
## 6225	127	140.917557	242.231345245	316.20792	205.99877745	1
## 6226	95	103.946432	247.307612588	316.20792	202.58647899	1
## 6227	41	37.154282	75.105646426	32.32174	30.12598305	1
## 6228	11	13.632500	80.662517849	32.32174	42.99852152	1
## 6229	10	11.047373	88.400398733	32.32174	50.40033944	1
## 6230	12	7.367886	95.636601863	32.32174	57.99508638	1
## 6231	2	5.760318	103.123643870	32.32174	65.49336882	1
## 6232	30	24.403555	110.861524754	32.32174	72.89518674	1
## 6233	101	94.654111	105.590851704	32.32174	67.58163907	1
## 6234	311	318.011983	112.576215956	316.20792	75.27285052	1
## 6235	415	396.096232	121.068296956	316.20792	82.38462750	1
## 6236	203	191.891082	148.165755009	316.20792	107.26512499	1
## 6237	120	153.995430	173.054997742	316.20792	130.04182487	1
## 6238	165	166.800377	180.038678511	316.20792	137.73368374	1
## 6239	176	186.453496	206.132781054	316.20792	163.00003926	1
## 6240	193	186.487776	214.121500816	316.20792	170.30539267	1
## 6241	183	180.935413	222.111904061	316.20792	177.61009867	1
## 6242	181	190.426010	243.282847762	316.20792	198.86373026	1
## 6243	301	313.377872	261.316022541	316.20792	217.07134002	1
## 6244	563	475.255169	253.361607229	316.20792	211.49017227	1
## 6245	551	444.831124	244.200648625	316.20792	203.41999631	1
## 6246	420	328.458623	238.177458942	316.20792	198.39584217	1
## 6247	285	216.217720	229.518178093	316.20792	190.13273718	1
## 6248	221	197.958102	253.151542956	316.20792	213.39240703	1
## 6249	187	158.490276	230.480352662	316.20792	192.79979449	1
## 6250	113	116.161321	249.718387252	316.20792	213.49705988	1
## 6251	52	40.172185	98.188831108	32.32174	50.76202266	1
## 6252	31	22.642389	85.058734594	32.32174	41.26524290	1
## 6253	20	15.379736	94.305015709	32.32174	48.08697894	1
## 6254	8	11.477620	100.032818608	32.32174	56.26180776	1
## 6255	13	13.628019	105.840528908	32.32174	69.03788172	1
## 6256	22	23.710411	134.115640913	32.32174	88.83351669	1
## 6257	104	116.601151	143.111083150	32.32174	95.75171725	1
## 6258	254	221.967618	149.671310083	316.20792	108.23839768	1

## 6259	317	249.695090	157.158352090	316.20792	115.73668011	1
## 6260	111	119.710930	151.386001284	316.20792	110.61606146	1
## 6261	35	51.438799	158.371365536	316.20792	118.30727291	1
## 6262	21	46.894328	165.858407543	316.20792	125.80555534	1
## 6263	29	64.295427	186.604842363	316.20792	145.92273885	1
## 6264	34	44.247071	174.732307201	316.20792	135.94234173	1
## 6265	24	46.279002	182.219349208	316.20792	143.44062416	1
## 6266	61	75.576254	209.065968384	316.20792	168.41758615	1
## 6267	56	146.898484	214.793771283	316.20792	176.59241497	1
## 6268	99	179.904388	204.851406707	316.20792	161.23776181	1
## 6269	234	229.432408	214.017780421	316.20792	163.45825271	1
## 6270	248	248.710179	242.874477582	316.20792	187.66220381	1
## 6271	179	208.668919	242.251257247	316.20792	191.07371866	1
## 6272	138	155.915441	239.243184543	316.20792	184.89004817	1
## 6273	157	143.421894	259.989619362	316.20792	205.00723169	1
## 6274	148	124.377628	246.185230134	316.20792	200.40173801	1
## 6275	93	97.642899	71.235355734	32.32174	31.84039632	1
## 6276	79	85.357345	90.302458846	32.32174	57.23537136	1
## 6277	68	74.545898	97.789500853	32.32174	64.73365379	1
## 6278	31	38.264562	105.447474337	32.32174	67.53422657	1
## 6279	8	11.960464	108.844409974	32.32174	69.39971963	1
## 6280	5	12.630111	114.652120274	32.32174	82.17579359	1
## 6281	18	24.181798	122.139162281	32.32174	89.67407602	1
## 6282	46	76.867551	142.885597100	316.20792	109.79125953	1
## 6283	121	132.133183	151.551348104	316.20792	118.13594910	1
## 6284	175	198.519565	169.307533193	316.20792	134.79677488	1
## 6285	293	271.286589	176.794575200	316.20792	142.29505731	1
## 6286	386	347.786667	201.180456696	316.20792	165.26533363	1
## 6287	407	355.781767	208.667498703	316.20792	172.76361606	1
## 6288	460	400.321451	233.224311676	316.20792	191.03618274	1
## 6289	390	394.039923	255.981879525	316.20792	216.31162500	1
## 6290	452	404.345112	263.468921532	316.20792	223.80990743	1
## 6291	449	405.306673	255.514506220	316.20792	218.22873968	1
## 6292	426	412.789591	279.620659498	316.20792	233.72160978	1
## 6293	400	385.166658	272.418760819	316.20792	227.85104851	1
## 6294	308	280.623893	250.198230219	316.20792	210.03813254	1
## 6295	243	239.519858	268.734766236	316.20792	228.05216587	1
## 6296	222	195.615123	277.730208474	316.20792	234.97036642	1
## 6297	193	159.427200	270.980024533	316.20792	237.81077136	1
## 6298	150	134.559495	274.126121292	316.20792	239.77272892	1
## 6299	173	135.817737	100.415754900	32.32174	67.89231487	1
## 6300	124	111.860908	109.662036014	32.32174	74.71405092	1
## 6301	106	80.706694	100.451114394	32.32174	75.54777018	1
## 6302	59	49.427974	107.938156401	32.32174	83.04605261	1
## 6303	8	19.667918	117.686115271	32.32174	89.67485964	1
## 6304	3	14.074120	141.038696872	32.32174	99.52585363	1
## 6305	17	23.604984	147.097246050	32.32174	112.20546308	1
## 6306	38	71.150794	141.826572999	316.20792	106.89191541	1
## 6307	86	128.234858	166.161436434	316.20792	132.83481731	1
## 6308	155	216.877191	190.547317930	316.20792	155.80509363	1
## 6309	275	289.165878	198.034359937	316.20792	163.30337606	1
## 6310	361	363.881481	224.681158296	316.20792	185.40417698	1
## 6311	413	379.888820	229.907283440	316.20792	193.77193482	1
## 6312	369	386.759163	252.083266133	316.20792	214.63906096	1

## 6313	347	373.106998	244.881367454	316.20792	208.76849968	1
## 6314	353	374.760020	252.368409461	316.20792	216.26678211	1
## 6315	464	436.037922	290.912664548	316.20792	245.22496043	1
## 6316	420	413.813964	283.710765869	316.20792	239.35439916	1
## 6317	404	404.627541	291.197807876	316.20792	246.85268159	1
## 6318	329	309.794284	269.357986571	316.20792	224.64065102	1
## 6319	186	233.177291	276.092511945	316.20792	232.42832698	1
## 6320	137	153.061968	253.421321651	316.20792	211.83571444	1
## 6321	104	127.403774	274.167756470	316.20792	231.95289795	1
## 6322	79	107.583710	266.966912835	316.20792	232.01360632	1
## 6323	29	36.714254	96.680430877	32.32174	51.34210454	1
## 6324	17	22.198702	119.186104805	32.32174	70.78274166	1
## 6325	8	14.972921	126.673146812	32.32174	78.28102409	1
## 6326	5	9.317227	119.141556899	32.32174	73.83695183	1
## 6327	6	9.573155	128.136999136	32.32174	80.75515238	1
## 6328	25	27.522758	147.375033725	32.32174	101.45241778	1
## 6329	113	116.601151	143.111083150	32.32174	95.75171725	1
## 6330	332	326.617715	149.089724927	316.20792	103.83008156	1
## 6331	355	371.892701	156.576766934	316.20792	111.32836399	1
## 6332	205	261.272954	184.228604285	316.20792	133.04265946	1
## 6333	154	181.985013	191.715646292	316.20792	140.54094189	1
## 6334	159	193.751628	235.183060221	316.20792	173.51184414	1
## 6335	209	195.639191	239.985731528	316.20792	186.67442354	1
## 6336	187	200.793238	264.371613024	316.20792	209.64469986	1
## 6337	154	214.347495	282.377581947	316.20792	220.27779149	1
## 6338	209	235.598435	312.889798611	316.20792	249.75109478	1
## 6339	313	351.608406	308.401159971	316.20792	245.79010726	1
## 6340	570	569.562492	304.335346730	316.20792	242.96621522	1
## 6341	553	479.947175	270.893335599	316.20792	213.40398835	1
## 6342	383	358.268655	280.339437530	316.20792	223.10188547	1
## 6343	251	262.717882	267.260359077	316.20792	210.63248013	1
## 6344	182	198.470747	274.747401084	316.20792	218.13076256	1
## 6345	136	145.657851	265.335603603	316.20792	210.15705110	1
## 6346	75	101.838760	272.822645610	316.20792	217.65533353	1
## 6347	37	40.323558	100.620679448	32.32174	45.19483760	1
## 6348	10	16.475256	108.611082692	32.32174	52.49954361	1
## 6349	11	13.364190	115.093085707	32.32174	60.38433149	1
## 6350	10	9.317227	119.141556899	32.32174	73.83695183	1
## 6351	8	10.819279	126.457667429	32.32174	86.03294391	1
## 6352	24	19.712177	133.944709436	32.32174	93.53122634	1
## 6353	124	117.769644	143.361922028	32.32174	95.65525274	1
## 6354	249	311.487524	150.848964035	316.20792	103.15353517	1
## 6355	427	478.782912	175.234845530	316.20792	126.12381149	1
## 6356	193	174.343924	182.549272578	316.20792	138.32045098	1
## 6357	122	118.150097	178.485142819	316.20792	135.49591153	1
## 6358	123	172.136087	203.545317030	316.20792	153.57490177	1
## 6359	162	176.365920	211.534036792	316.20792	160.88025518	1
## 6360	151	191.685047	265.376652017	316.20792	209.25819442	1
## 6361	152	183.119665	253.954776550	316.20792	202.05749386	1
## 6362	205	203.912582	252.351384471	316.20792	201.23964008	1
## 6363	258	288.709136	255.746636625	316.20792	203.10578055	1
## 6364	530	434.820091	249.974285820	316.20792	197.98516190	1
## 6365	356	372.193054	252.115343586	316.20792	200.33362491	1
## 6366	320	311.745025	258.093985363	316.20792	208.41198922	1

## 6367	238	272.504196	283.458983559	316.20792	229.68036453	1
## 6368	196	206.630810	274.047186077	316.20792	221.70665308	1
## 6369	121	121.738646	271.993134304	316.20792	218.10910273	1
## 6370	93	109.476849	279.480176311	316.20792	225.60738516	1
## 6371	36	38.591681	105.769809919	32.32174	53.72697111	1
## 6372	14	18.899010	113.256851926	32.32174	61.22525354	1
## 6373	9	11.293788	125.014888781	32.32174	67.08104967	1
## 6374	3	9.981779	114.800611651	32.32174	68.30062697	1
## 6375	4	9.755408	135.717977947	32.32174	83.72010083	1
## 6376	22	23.748508	128.266295434	32.32174	83.87727371	1
## 6377	114	101.295798	136.838283835	32.32174	95.59029583	1
## 6378	185	190.541017	144.325325842	316.20792	103.08857826	1
## 6379	287	250.851671	158.666752320	316.20792	115.15659823	1
## 6380	155	161.393686	166.153794327	316.20792	122.65488066	1
## 6381	129	125.418762	171.550850948	316.20792	126.32492885	1
## 6382	151	183.076968	216.804709842	316.20792	166.19380285	1
## 6383	184	194.635126	237.221453428	316.20792	187.73747538	1
## 6384	162	204.843495	267.557661479	316.20792	203.78747387	1
## 6385	170	232.072614	307.412834589	316.20792	241.47980146	1
## 6386	181	222.650519	289.361262716	316.20792	227.96965035	1
## 6387	280	334.830523	297.853343716	316.20792	235.08142734	1
## 6388	591	605.225886	305.843746960	316.20792	242.38613334	1
## 6389	524	425.371850	270.046427925	316.20792	222.99363149	1
## 6390	372	375.299543	277.533469932	316.20792	230.49191392	1
## 6391	102	152.653640	268.226675619	316.20792	222.83142645	1
## 6392	74	122.867072	263.910023501	316.20792	220.10399892	1
## 6393	87	121.738646	271.993134304	316.20792	218.10910273	1
## 6394	71	96.384437	266.973300132	316.20792	212.69909055	1
## 6395	40	36.974738	95.776372962	32.32174	39.85208917	1
## 6396	23	18.278802	88.324690449	32.32174	40.00926204	1
## 6397	2	10.045270	95.811732457	32.32174	47.50754448	1
## 6398	8	8.314796	116.558167276	32.32174	67.62472799	1
## 6399	7	8.484930	137.304602096	32.32174	87.74191150	1
## 6400	22	26.658696	143.284927355	32.32174	95.81962840	1
## 6401	111	128.991526	150.521130484	32.32174	103.41437534	1
## 6402	283	353.869861	160.440020831	316.20792	105.34547272	1
## 6403	431	510.875005	176.715639986	316.20792	124.22898146	1
## 6404	225	250.802678	205.372516330	316.20792	145.55677148	1
## 6405	127	192.584912	246.432549249	316.20792	185.73875469	1
## 6406	158	202.726157	256.909840986	316.20792	196.69339486	1
## 6407	195	235.866942	275.593896195	316.20792	214.29709228	1
## 6408	211	231.844740	277.733270479	316.20792	216.64620271	1
## 6409	167	231.765442	320.777230571	316.20792	254.41192653	1
## 6410	227	254.470946	343.032065620	316.20792	273.94902816	1
## 6411	291	378.845482	358.855341598	316.20792	290.05348775	1
## 6412	589	693.046439	346.228606322	316.20792	280.36313156	1
## 6413	584	733.774671	359.869817793	316.20792	296.00704205	1
## 6414	384	451.942511	339.357508240	316.20792	280.49020527	1
## 6415	273	332.130202	334.365508363	316.20792	276.72279418	1
## 6416	225	243.925250	327.865108255	316.20792	273.53546496	1
## 6417	175	189.839520	302.984019159	316.20792	250.83970224	1
## 6418	81	106.944382	280.642520099	316.20792	228.82060069	1
## 6419	60	46.690124	95.181161124	32.32174	43.74120368	1
## 6420	23	23.515973	115.676757066	32.32174	63.95485170	1

## 6421	15	14.042954	110.155245138	32.32174	58.73776854	1
## 6422	3	9.136588	117.642287145	32.32174	66.23605097	1
## 6423	8	10.235322	126.636045900	32.32174	73.15489894	1
## 6424	26	31.680964	134.123087907	32.32174	80.65318137	1
## 6425	98	119.674218	142.113491152	32.32174	87.95788737	1
## 6426	297	353.122340	149.600533159	316.20792	95.45616980	1
## 6427	456	541.070458	174.687913226	316.20792	121.10967818	1
## 6428	237	276.359869	197.868934913	316.20792	141.59029887	1
## 6429	168	216.742233	233.677801239	316.20792	179.18539975	1
## 6430	217	244.856093	269.841226047	316.20792	210.73813754	1
## 6431	254	275.552592	277.406491973	316.20792	222.83831252	1
## 6432	266	283.586289	315.104467824	316.20792	255.45421693	1
## 6433	266	277.557250	316.238803115	316.20792	258.18983280	1
## 6434	245	249.011033	318.524641546	316.20792	254.19733768	1
## 6435	360	390.150627	312.527602676	316.20792	250.81643203	1
## 6436	591	610.191173	319.511283445	316.20792	258.50829089	1
## 6437	511	544.020727	326.903507805	316.20792	263.44363624	1
## 6438	374	383.644424	314.806284579	316.20792	255.20295211	1
## 6439	230	292.702689	322.293326586	316.20792	262.70123455	1
## 6440	206	235.954518	315.792926478	316.20792	259.51390533	1
## 6441	159	164.028910	325.542568831	316.20792	266.14206494	1
## 6442	132	137.002657	333.029610838	316.20792	273.64034737	1
## 6443	130	115.776899	134.798269913	32.32174	88.42680544	1
## 6444	58	75.097888	126.591332241	32.32174	82.94274962	1
## 6445	67	60.843810	138.575340726	32.32174	93.31795532	1
## 6446	25	31.272895	154.901977941	32.32174	109.22883847	1
## 6447	8	17.200081	158.749573272	32.32174	113.87402810	1
## 6448	5	12.081838	153.707610378	32.32174	119.01051223	1
## 6449	19	22.730850	146.478505842	32.32174	105.56543282	1
## 6450	36	69.601587	149.349323082	175.93855	124.10291567	1
## 6451	67	104.779390	134.034823452	175.93855	101.95519460	1
## 6452	129	118.215323	127.084818694	175.93855	101.91943845	1
## 6453	121	133.237104	147.831253514	175.93855	122.03662197	1
## 6454	132	128.226709	135.707879475	175.93855	112.15268935	1
## 6455	158	198.313955	149.466037315	175.93855	119.81304061	1
## 6456	125	167.314355	158.210640674	175.93855	126.82770567	1
## 6457	180	223.038623	196.357592738	175.93855	162.22395406	1
## 6458	195	234.504132	202.588756874	175.93855	170.20520645	1
## 6459	223	225.777352	193.427798270	175.93855	162.13503048	1
## 6460	228	218.920961	197.476269462	175.93855	175.58765083	1
## 6461	140	136.179961	175.308440406	175.93855	154.80146186	1
## 6462	126	152.399310	195.020946893	175.93855	167.73128010	1
## 6463	66	97.473578	182.423100956	175.93855	165.61479463	1
## 6464	56	72.327534	189.910142964	175.93855	173.11307706	1
## 6465	70	81.094675	187.827201851	175.93855	161.94165599	1
## 6466	65	62.484704	193.634912151	175.93855	174.71772995	1
## 6467	47	44.984758	22.688823859	32.32174	1.77426406	1
## 6468	24	33.300468	36.831713085	32.32174	17.22524553	1
## 6469	30	27.659432	45.072955207	32.32174	24.43348702	1
## 6470	9	16.149192	52.309158337	32.32174	32.02823396	1
## 6471	7	10.816360	60.972170813	32.32174	34.44230130	1
## 6472	7	9.995341	64.792560287	32.32174	31.51297279	1
## 6473	15	20.321944	83.528917121	32.32174	52.40316720	1
## 6474	29	56.635528	108.416476372	175.93855	75.18051450	1

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## 6475      64  99.560549 114.224186672 175.93855  87.95658846  1
## 6476     115 143.401516 132.004183965 175.93855  94.07027051  1
## 6477     248 238.882766 147.605510405 175.93855 117.84506533  1
## 6478     292 284.111471 171.488030663 175.93855 141.00891808  1
## 6479     321 314.474877 192.658974363 175.93855 162.26254967  1
## 6480     308 267.377398 198.970045901 175.93855 174.84504720  1
## 6481     256 219.342499 151.765280719 175.93855 132.85749568  1
## 6482     173 176.903800 160.759039474 175.93855 139.77634364  1
## 6483     206 176.383742 153.981649676 175.93855 135.04223044  1
## 6484     167 174.010241 160.967013928 175.93855 142.73344189  1
## 6485     174 188.055541 183.894458210 175.93855 157.37990486  1
## 6486     162 168.822620 207.778661950 175.93855 180.54311020  1
## 6487      87 115.595074 210.923075227 175.93855 182.50571518  1
## 6488      88 102.760080 230.637265197 175.93855 195.43488600  1
## 6489      64  78.705036 210.405738905 175.93855 193.32672509  1
## 6490      25  59.606805 221.251444327 175.93855 190.26942447  1
## 6491      16  23.725143 33.866302064 32.32174 -8.75023228  1
## 6492       6  13.415460 60.211243484 32.32174 16.41965873  1
## 6493       4   7.930824 78.998618379 32.32174 34.33722755  1
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## 6495       8   8.911092 63.814470092 32.32174 21.24289745  1
## 6496      21  27.557680 99.780412693 32.32174 62.10986637  1
## 6497      94 108.871812 116.557709602 32.32174 80.80044610  1
## 6498     249 312.800822 126.305668472 175.93855 87.42925312  1
## 6499     372 446.221500 133.291032724 175.93855 95.12046457  1
## 6500     153 209.390324 163.275420821 175.93855 123.14344839  1
## 6501     101 155.410801 171.013301705 175.93855 130.54526631  1
## 6502     126 172.083443 169.460927687 175.93855 126.75478694  1
## 6503     147 184.300319 175.439569464 175.93855 134.83315125  1
## 6504     118 132.790186 196.439581688 175.93855 160.78449249  1
## 6505     120 125.387165 175.423910898 175.93855 145.46123215  1
## 6506     101 128.904681 182.910952905 175.93855 152.95951458  1
## 6507     218 267.577362 193.836565727 175.93855 154.50345910  1
## 6508     495 449.609040 202.328646727 175.93855 161.61523608  1
## 6509     412 432.386071 209.815688734 175.93855 169.11351851  1
## 6510     315 297.365628 216.217784347 175.93855 172.39706125  1
## 6511     204 178.439183 207.086770128 175.93855 177.83202565  1
## 6512     138 150.747996 216.253143842 175.93855 180.05251656  1
## 6513      91 114.833834 223.740185849 175.93855 187.55079899  1
## 6514      54  84.802697 232.986466964 175.93855 194.37253504  1
## 6515      27  28.280927 49.484167914 32.32174 11.49275271  1
## 6516       9  12.335192 57.222048798 32.32174 18.89457063  1
## 6517       3   7.431951 62.949851698 32.32174 27.06939945  1
## 6518       6   7.329308 84.924958530 32.32174 39.12909487  1
## 6519       7   7.961121 92.161161659 32.32174 46.72384182  1
## 6520      27  27.853462 100.400720299 32.32174 53.93273072  1
## 6521     112 117.988234 107.386084551 32.32174 61.62394217  1
## 6522     309 355.275229 123.737589014 175.93855 72.91895124  1
## 6523     400 481.565607 147.118431517 175.93855 96.27573301  1
## 6524     187 220.689089 183.055484779 175.93855 129.56883121  1
## 6525     126 174.557799 196.895233501 175.93855 141.82978020  1
## 6526     124 205.469014 228.560008349 316.20792 170.50624213  1
## 6527     199 219.470660 259.826425129 316.20792 199.68950449  1
## 6528     173 214.039440 267.313467136 316.20792 207.18778692  1

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## 6529	183	223.847914	286.525350912	316.20792	226.24180382	1
## 6530	194	229.762811	287.886057751	316.20792	227.23705928	1
## 6531	309	344.932237	296.127299873	316.20792	234.44530077	1
## 6532	585	563.535903	289.930440186	316.20792	228.18823404	1
## 6533	524	533.513967	280.969302399	316.20792	222.99421916	1
## 6534	345	368.116435	272.762364726	316.20792	217.51016333	1
## 6535	261	298.893388	280.249406734	316.20792	225.00844576	1
## 6536	166	191.072419	271.539107824	316.20792	219.71796636	1
## 6537	114	152.928179	279.026149831	316.20792	227.21624879	1
## 6538	66	87.025954	269.614352349	175.93855	219.24253734	1
## 6539	43	40.872192	97.412386187	32.32174	46.78204141	1
## 6540	11	17.653618	105.402789432	32.32174	54.08674741	1
## 6541	3	9.039126	95.990991950	32.32174	46.11303595	1
## 6542	6	8.467394	102.472994965	32.32174	53.99782383	1
## 6543	5	9.257442	89.092059573	32.32174	44.59750858	1
## 6544	32	31.642280	112.099411256	32.32174	63.84521669	1
## 6545	117	125.534568	119.084775508	32.32174	71.53642814	1
## 6546	301	413.408674	143.470657003	175.93855	94.50670446	1
## 6547	467	524.368267	197.685079566	316.20792	146.99436477	1
## 6548	219	283.826551	222.676358421	316.20792	163.82581348	1
## 6549	133	194.687221	246.360741345	316.20792	184.11285774	1
## 6550	170	212.850152	285.886223221	316.20792	223.23167434	1
## 6551	214	237.229469	306.606507228	316.20792	241.70560936	1
## 6552	219	261.987985	322.603453210	316.20792	259.04298152	1
## 6553	190	236.190816	331.095534209	316.20792	266.15475851	1
## 6554	182	233.146834	325.323183404	316.20792	261.03413986	1
## 6555	282	350.072837	333.564425526	316.20792	268.24238135	1
## 6556	591	657.691057	339.793906180	316.20792	276.22428115	1
## 6557	593	635.047802	320.816147671	316.20792	261.77061099	1
## 6558	374	424.610948	315.320786556	316.20792	258.19677633	1
## 6559	246	275.063631	259.355278522	316.20792	206.46659958	1
## 6560	201	193.483653	248.938442048	316.20792	198.87939358	1
## 6561	154	161.920145	282.614578446	316.20792	233.04196719	1
## 6562	73	99.847455	274.962020072	316.20792	224.39170934	1
## 6563	40	45.763010	115.316264669	32.32174	61.86752985	1
## 6564	22	23.750644	136.843050416	32.32174	83.33792092	1
## 6565	10	10.271184	129.641151737	32.32174	77.46735964	1
## 6566	5	5.478060	131.782209503	32.32174	79.81582266	1
## 6567	5	9.598525	151.323784513	32.32174	97.44335054	1
## 6568	24	28.825323	151.453080812	32.32174	100.56547187	1
## 6569	114	117.559186	144.251182132	32.32174	94.69491059	1
## 6570	302	352.094423	166.427164826	175.93855	115.56203673	1
## 6571	457	485.893934	179.261874556	175.93855	128.20949117	1
## 6572	208	239.031363	190.890040994	175.93855	138.36793738	1
## 6573	129	191.428260	236.968050403	316.20792	185.12558161	1
## 6574	144	202.227461	256.934134295	316.20792	203.88955757	1
## 6575	226	234.051437	271.778922010	316.20792	215.76400111	1
## 6576	191	223.081239	285.895660423	316.20792	229.57173408	1
## 6577	195	232.673850	305.861744315	316.20792	248.33571004	1
## 6578	219	235.220088	307.471606548	316.20792	249.23514841	1
## 6579	323	359.729028	309.333991142	316.20792	250.03747485	1
## 6580	568	591.862816	303.336952272	316.20792	246.65656920	1
## 6581	538	556.508703	277.703346543	316.20792	224.25020001	1
## 6582	343	414.284480	290.641375960	316.20792	237.21152585	1

## 6583	260	263.168763	252.500894051	316.20792	201.89686205	1
## 6584	195	174.839990	223.729519401	175.93855	176.44447103	1
## 6585	148	150.875583	242.967553991	175.93855	197.14173642	1
## 6586	99	105.463004	232.854257937	175.93855	186.48479291	1
## 6587	67	43.463480	59.143891545	32.32174	14.60437886	1
## 6588	28	21.320896	66.630933552	32.32174	22.10266129	1
## 6589	5	9.780095	68.268630081	32.32174	24.64470073	1
## 6590	10	8.115387	72.116225412	32.32174	29.28989036	1
## 6591	5	7.488904	81.362506527	32.32174	36.11162640	1
## 6592	27	30.337614	103.989148914	32.32174	59.75844911	1
## 6593	87	108.149704	98.216798109	32.32174	54.63783046	1
## 6594	242	284.164126	92.444447304	175.93855	49.51721181	1
## 6595	417	483.981754	138.148965892	175.93855	92.16578238	1
## 6596	241	257.754676	162.534847388	175.93855	115.13605870	1
## 6597	174	221.618411	203.118069800	316.20792	150.89509685	1
## 6598	230	239.313450	231.844896544	316.20792	179.40169803	1
## 6599	235	262.887512	273.129617528	316.20792	217.84396824	1
## 6600	305	283.106127	296.085951150	316.20792	240.06430194	1
## 6601	256	275.417554	300.582743426	316.20792	244.10622663	1
## 6602	270	310.747368	339.657565609	316.20792	280.44534666	1
## 6603	419	474.090186	334.665565731	316.20792	276.67793556	1
## 6604	563	623.505690	308.206126005	316.20792	247.38344356	1
## 6605	465	514.885152	292.392287230	316.20792	237.61904372	1
## 6606	294	369.575532	316.050119423	316.20792	262.52260947	1
## 6607	197	278.703060	324.317512358	316.20792	271.37409946	1
## 6608	166	184.766326	278.117786169	316.20792	229.00004249	1
## 6609	146	158.897523	285.604828176	316.20792	236.49832492	1
## 6610	136	149.239025	304.141364194	316.20792	254.51235826	1
## 6611	89	97.831534	102.526240023	32.32174	67.05481996	1
## 6612	65	71.371456	82.064948531	32.32174	48.56535760	1
## 6613	45	57.164113	89.551990538	32.32174	56.06364003	1
## 6614	20	26.318169	77.930294254	32.32174	45.98677839	1
## 6615	10	11.403220	68.569514833	32.32174	35.04044135	1
## 6616	8	11.585507	88.814271898	32.32174	55.35055388	1
## 6617	22	26.317766	81.282681985	32.32174	50.90648162	1
## 6618	73	87.872540	90.278124222	175.93855	57.82468217	1
## 6619	103	133.180236	134.474242580	175.93855	101.05333462	1
## 6620	217	225.658064	164.709469554	316.20792	128.97985393	1
## 6621	337	304.569656	178.045857039	316.20792	141.43437934	1
## 6622	397	414.874437	249.488810324	316.20792	207.96754452	1
## 6623	446	489.939358	315.082418131	316.20792	269.54446671	1
## 6624	485	512.566016	300.019812423	316.20792	253.23155077	1
## 6625	465	466.799400	298.416420345	316.20792	252.41369699	1
## 6626	496	523.823230	340.402639901	316.20792	293.53919926	1
## 6627	451	481.963254	332.499242649	316.20792	284.98540592	1
## 6628	393	431.597364	321.630062999	316.20792	274.61915076	1
## 6629	359	425.441882	331.605676981	316.20792	285.76671995	1
## 6630	248	285.330158	273.428586662	316.20792	231.93404043	1
## 6631	202	216.403482	254.675516217	316.20792	215.74065727	1
## 6632	187	182.129446	260.403319117	316.20792	223.91548609	1
## 6633	149	145.915374	262.041015645	316.20792	226.45752554	1
## 6634	142	118.402550	239.369825351	175.93855	205.86491300	1
## 6635	129	113.170916	62.826913941	32.32174	27.86809220	1
## 6636	78	72.715517	68.805555718	32.32174	35.94645651	1

## 6637	55	55.701630	76.292597725	32.32174	43.44473895	1
## 6638	30	26.318169	77.930294254	32.32174	45.98677839	1
## 6639	14	15.218418	85.417336261	32.32174	53.48506082	1
## 6640	15	15.032766	92.904378268	32.32174	60.98334326	1
## 6641	21	26.742060	100.391420275	32.32174	68.48162569	1
## 6642	44	72.336216	112.298259886	175.93855	80.18620848	1
## 6643	107	124.418753	121.214849768	175.93855	88.43443354	1
## 6644	185	225.658064	164.709469554	316.20792	128.97985393	1
## 6645	365	360.703858	211.142037444	316.20792	169.69513506	1
## 6646	423	456.525397	269.325597917	316.20792	223.60939916	1
## 6647	455	479.627391	302.551074621	316.20792	254.99227620	1
## 6648	418	473.307627	315.887462106	316.20792	267.44680162	1
## 6649	500	505.437749	323.850031056	316.20792	273.10890653	1
## 6650	407	458.765012	322.497477855	316.20792	272.19458824	1
## 6651	470	458.854799	325.841711948	316.20792	277.03335430	1
## 6652	438	435.128248	296.819498421	316.20792	251.67742779	1
## 6653	414	437.942251	334.464772729	316.20792	287.26660520	1
## 6654	302	295.768695	267.475921498	316.20792	226.66392604	1
## 6655	193	230.535439	275.213802382	316.20792	234.06574397	1
## 6656	173	181.526782	254.752510890	316.20792	215.57628161	1
## 6657	152	147.977450	228.642749781	316.20792	200.93800698	1
## 6658	123	119.226065	246.978409937	316.20792	210.14460960	1
## 6659	53	68.799872	36.137822751	32.32174	6.63178939	1
## 6660	34	44.948304	51.034912092	32.32174	21.79272992	1
## 6661	19	34.533606	58.521954099	32.32174	29.29101235	1
## 6662	11	20.014070	60.159650628	32.32174	31.83305179	1
## 6663	6	14.617005	54.387299823	32.32174	26.71243314	1
## 6664	21	17.284690	61.874341830	32.32174	34.21071558	1
## 6665	44	39.135518	63.512038358	32.32174	36.75275502	1
## 6666	114	141.037107	90.107818656	175.93855	61.82618152	1
## 6667	254	244.809896	126.192391108	316.20792	94.70894381	1
## 6668	219	244.260540	152.788171406	316.20792	119.78237031	1
## 6669	265	312.720574	177.728432200	316.20792	139.58644462	1
## 6670	322	351.757055	210.347227980	316.20792	170.84902669	1
## 6671	365	405.511358	285.960195036	316.20792	247.61622638	1
## 6672	365	397.548057	323.776400821	316.20792	278.50769413	1
## 6673	370	398.458995	337.112788306	316.20792	290.96221955	1
## 6674	384	394.512193	327.780898225	316.20792	287.58975323	1
## 6675	402	423.255961	322.538059470	316.20792	283.91880664	1
## 6676	459	466.205218	298.688160180	316.20792	262.47978697	1
## 6677	473	455.304407	300.776516403	316.20792	267.80152298	1
## 6678	336	329.405294	236.976452154	316.20792	207.27224007	1
## 6679	225	251.568587	261.533265126	316.20792	225.54480674	1
## 6680	175	163.196278	225.681534376	316.20792	191.00326862	1
## 6681	126	131.557571	233.168576383	316.20792	198.50155105	1
## 6682	75	99.889894	233.377780082	316.20792	206.22491751	1
## 6683	30	34.746327	86.711287229	32.32174	44.66338531	1
## 6684	11	16.857155	76.597991175	32.32174	34.00644180	1
## 6685	5	8.990513	84.837549815	32.32174	41.21533070	1
## 6686	3	9.417917	105.082306880	32.32174	61.52544323	1
## 6687	5	8.594692	113.071026642	32.32174	68.83079665	1
## 6688	20	31.567923	118.297151786	32.32174	77.19855448	1
## 6689	123	129.406945	140.021419741	32.32174	89.35471441	1
## 6690	352	402.757589	134.779636030	316.20792	91.61503747	1

## 6691	406	543.571392	165.265701882	316.20792	119.44509227	1
## 6692	235	257.670811	213.630778966	316.20792	166.97650958	1
## 6693	149	198.584768	223.378737836	316.20792	173.60531661	1
## 6694	123	186.763964	222.529545873	316.20792	172.49742189	1
## 6695	181	215.079940	230.016587880	316.20792	179.99570432	1
## 6696	180	224.833231	238.005307642	316.20792	187.30105774	1
## 6697	171	203.244025	242.306301194	316.20792	200.65656616	1
## 6698	175	214.582001	241.428219890	316.20792	191.97480071	1
## 6699	320	372.825728	259.964755908	316.20792	209.98883405	1
## 6700	604	561.432975	257.909020652	316.20792	206.39193111	1
## 6701	539	536.327021	264.894384904	316.20792	214.08314256	1
## 6702	318	309.142801	255.482587423	316.20792	206.10943110	1
## 6703	234	263.639948	262.969629430	316.20792	213.60771354	1
## 6704	175	213.689129	281.002804210	316.20792	231.81532330	1
## 6705	147	172.209182	271.591006728	316.20792	223.84161184	1
## 6706	57	95.364260	280.586448965	316.20792	230.75981240	1
## 6707	25	34.922233	105.871043580	32.32174	59.26590379	1
## 6708	10	15.277501	111.678753880	32.32174	72.04197775	1
## 6709	2	8.072842	123.358566817	32.32174	73.29588133	1
## 6710	2	6.161352	99.258883694	32.32174	57.88459581	1
## 6711	7	7.405835	108.254325931	32.32174	64.80279636	1
## 6712	22	26.751900	129.675053465	32.32174	80.02869380	1
## 6713	112	119.115300	135.904534119	32.32174	88.01059360	1
## 6714	259	313.558551	145.654176472	316.20792	94.63875321	1
## 6715	404	411.057031	153.141218479	316.20792	102.13703565	1
## 6716	197	218.437683	161.633299479	316.20792	109.24881263	1
## 6717	113	159.963586	168.115302493	316.20792	117.13360051	1
## 6718	120	111.099902	159.658580988	316.20792	117.67727883	1
## 6719	62	91.489376	180.405015807	316.20792	137.79446235	1
## 6720	101	96.624794	186.132818706	316.20792	145.96929117	1
## 6721	78	90.445446	181.365506894	316.20792	140.46216707	1
## 6722	45	94.943807	188.349187663	316.20792	148.15402593	1
## 6723	55	169.274281	216.122621913	316.20792	168.14258992	1
## 6724	251	197.554485	202.821593922	316.20792	163.34351981	1
## 6725	172	187.659445	208.800235699	316.20792	171.42188412	1
## 6726	109	165.602957	216.287277706	316.20792	178.92016655	1
## 6727	90	140.478364	223.272641958	316.20792	186.61137800	1
## 6728	83	110.362713	217.500291153	316.20792	181.49075935	1
## 6729	43	78.302069	237.995887094	316.20792	201.70440737	1
## 6730	54	69.015450	245.482929102	316.20792	209.20268981	1
## 6731	15	24.171371	75.712811279	32.32174	31.17500882	1
## 6732	12	16.033429	80.938936423	32.32174	39.54276666	1
## 6733	4	9.205910	88.425978431	32.32174	47.04104909	1
## 6734	6	9.137275	85.919583481	32.32174	40.66444959	1
## 6735	7	9.100420	91.899908740	32.32174	48.74216649	1
## 6736	17	21.062605	99.386950747	32.32174	56.24044892	1
## 6737	52	85.541649	104.943822169	32.32174	69.11298738	1
## 6738	81	132.371879	113.183380809	316.20792	76.32187629	1
## 6739	209	183.033190	119.917906183	316.20792	84.10955225	1
## 6740	109	115.751384	133.505132546	316.20792	96.46761316	1
## 6741	69	89.479841	141.493852308	316.20792	103.77296657	1
## 6742	84	152.122495	203.515625230	316.20792	157.48521491	1
## 6743	105	148.378093	199.953173226	316.20792	154.46774644	1
## 6744	162	186.477580	227.103332822	316.20792	176.37497092	1

## 6745	133	182.604433	253.670223780	316.20792	193.87452670	1
## 6746	155	185.137333	261.157265788	316.20792	201.37280913	1
## 6747	276	325.641547	277.987264240	316.20792	217.09011585	1
## 6748	479	395.786330	251.029540413	316.20792	206.11021472	1
## 6749	268	386.039530	258.516582420	316.20792	213.60849715	1
## 6750	205	289.196189	266.176239387	316.20792	216.40842253	1
## 6751	181	246.191217	277.352691086	316.20792	217.85590253	1
## 6752	123	168.023835	283.331332863	316.20792	225.93426685	1
## 6753	114	152.954835	290.818374870	316.20792	233.43254928	1
## 6754	47	85.791977	273.877900203	316.20792	225.78038636	1
## 6755	39	38.082452	88.338317310	32.32174	36.09909680	1
## 6756	24	20.958220	96.577875950	32.32174	43.30798570	1
## 6757	6	9.360948	98.718933716	32.32174	45.65644872	1
## 6758	7	8.846421	105.702614486	32.32174	53.34830758	1
## 6759	8	9.141147	114.194695486	32.32174	60.46008456	1
## 6760	17	21.967379	119.500728030	32.32174	73.42908754	1
## 6761	94	99.781770	139.069508898	32.32174	98.63113356	1
## 6762	147	155.777249	146.556550905	316.20792	106.12941599	1
## 6763	209	372.440062	150.801449260	316.20792	104.33653555	1
## 6764	180	201.964641	150.453935051	316.20792	103.03571182	1
## 6765	125	108.410267	165.932609548	316.20792	122.60496846	1
## 6766	87	89.020857	164.304350221	316.20792	126.40298876	1
## 6767	75	88.309367	171.791392228	316.20792	133.90127120	1
## 6768	132	211.478506	230.750226493	316.20792	171.04772840	1
## 6769	156	214.412233	322.082268997	316.20792	256.50924520	1
## 6770	230	239.984844	328.313433134	316.20792	264.49049759	1
## 6771	344	417.434271	328.946090670	316.20792	267.41904249	1
## 6772	481	539.429344	327.220046648	316.20792	262.39565054	1
## 6773	423	563.137048	336.216772451	316.20792	275.57297367	1
## 6774	248	382.563931	344.458014573	316.20792	282.78121516	1
## 6775	196	294.365253	337.203414350	316.20792	279.88392688	1
## 6776	178	214.668012	332.211414473	316.20792	276.11651579	1
## 6777	143	152.362577	297.564543532	175.93855	244.06463329	1
## 6778	95	116.326280	304.046546546	175.93855	251.94942117	1
## 6779	106	119.193468	136.004413287	32.32174	97.17558365	1
## 6780	73	84.307519	146.003211035	32.32174	103.70792617	1
## 6781	56	65.248976	143.645618841	32.32174	103.18011332	1
## 6782	23	27.545423	138.653618964	32.32174	99.41270223	1
## 6783	6	11.710630	128.236782489	32.32174	91.82549622	1
## 6784	7	10.671614	127.387590526	32.32174	90.71760150	1
## 6785	20	24.228804	126.261008954	32.32174	94.32269278	1
## 6786	57	72.868428	124.457796059	175.93855	90.62867792	1
## 6787	125	146.696683	190.076271114	175.93855	147.58972604	1
## 6788	207	272.730701	239.671075256	316.20792	192.99492490	1
## 6789	322	386.725968	262.150598370	316.20792	210.79231353	1
## 6790	374	454.575578	285.531440873	316.20792	234.14909530	1
## 6791	456	452.537233	312.679916987	316.20792	256.05696720	1
## 6792	394	446.198705	324.509587724	316.20792	269.09092708	1
## 6793	472	459.855347	336.416427335	316.20792	280.79550987	1
## 6794	377	428.916254	354.674290180	316.20792	297.26340664	1
## 6795	443	474.259221	364.823574166	316.20792	309.64388840	1
## 6796	441	510.762157	352.222989702	316.20792	301.59678071	1
## 6797	372	466.955873	331.033648908	316.20792	285.04060779	1
## 6798	238	290.678624	299.298175341	316.20792	257.77510753	1

## 6799	179	230.879537	313.414913755	316.20792	271.58284050	1
## 6800	168	190.039037	335.669748804	316.20792	291.11994214	1
## 6801	166	186.488103	354.907783394	316.20792	311.81720753	1
## 6802	135	142.298107	345.999347150	175.93855	303.64991964	1
## 6803	107	114.632976	160.814977865	32.32174	120.11730662	1
## 6804	77	90.204394	155.822977988	32.32174	116.34989552	1
## 6805	65	67.957155	141.991382902	32.32174	104.16988370	1
## 6806	42	34.759255	149.478424909	32.32174	111.66816614	1
## 6807	12	16.349347	157.970505909	32.32174	118.77994312	1
## 6808	7	15.840385	164.955870161	32.32174	126.47115457	1
## 6809	10	18.844368	134.225435587	32.32174	98.81914886	1
## 6810	48	82.405889	155.898057043	175.93855	119.87985143	1
## 6811	99	142.816241	176.088828999	175.93855	136.90411439	1
## 6812	190	264.214899	239.195548313	316.20792	194.83110241	1
## 6813	347	419.105270	258.882959032	316.20792	212.04894180	1
## 6814	377	458.340097	294.821695776	316.20792	245.34139259	1
## 6815	444	509.296028	307.654722023	316.20792	257.98949444	1
## 6816	438	488.193558	321.745309624	316.20792	270.15397892	1
## 6817	462	536.187432	318.182857620	316.20792	267.13651045	1
## 6818	412	467.404380	344.077139346	316.20792	289.52670489	1
## 6819	466	504.609299	321.405949052	316.20792	268.93409235	1
## 6820	405	434.728610	317.669827045	316.20792	264.68371130	1
## 6821	328	396.854328	319.056684696	316.20792	267.32221525	1
## 6822	233	263.461597	313.059645826	316.20792	263.94130960	1
## 6823	178	213.770113	321.802565704	316.20792	270.95662208	1
## 6824	102	155.958987	328.033729840	316.20792	278.93787447	1
## 6825	130	143.826614	348.501491487	316.20792	297.50892141	1
## 6826	62	109.912727	349.358837088	316.20792	298.69775330	1
## 6827	37	41.183885	164.635936804	32.32174	104.56029589	1
## 6828	17	21.006434	183.397160886	32.32174	120.83461622	1
## 6829	7	15.508028	190.884202893	32.32174	128.33289865	1
## 6830	2	11.828289	206.153099572	32.32174	147.60356025	1
## 6831	5	12.285907	179.340784847	32.32174	124.35078392	1
## 6832	29	32.078976	174.399803030	32.32174	117.61074724	1
## 6833	114	118.984114	198.811835339	32.32174	142.22427206	1
## 6834	309	346.592362	203.112828891	316.20792	155.57978048	1
## 6835	414	414.921159	220.946182854	316.20792	170.91122917	1
## 6836	206	241.722089	242.195978911	316.20792	190.83483625	1
## 6837	135	194.278903	255.201620118	316.20792	198.78458104	1
## 6838	166	219.071062	276.042872585	316.20792	221.46470164	1
## 6839	205	238.682271	291.668011229	316.20792	234.69235274	1
## 6840	205	223.081239	285.895660423	316.20792	229.57173408	1
## 6841	166	216.539713	294.359907128	316.20792	235.04090999	1
## 6842	208	237.464043	272.693755826	316.20792	214.06179200	1
## 6843	302	347.287380	294.869738520	316.20792	234.92891814	1
## 6844	620	612.124582	276.818166647	316.20792	221.41876704	1
## 6845	518	518.566517	290.883886999	316.20792	238.19912560	1
## 6846	333	388.103280	276.601632219	316.20792	223.23941721	1
## 6847	229	257.828051	258.350239529	316.20792	206.85310503	1
## 6848	177	188.593724	259.987936058	316.20792	209.39514448	1
## 6849	104	147.558298	265.715738958	316.20792	217.56997330	1
## 6850	62	86.441966	241.365216956	175.93855	202.25515228	1
## 6851	31	39.667819	84.101975314	32.32174	37.13576591	1
## 6852	11	13.143373	70.800947323	32.32174	32.33669580	1

## 6853	5	6.949798	62.366982977	32.32174	16.40196076	1
## 6854	1	5.422336	69.854024984	32.32174	23.90024319	1
## 6855	4	6.637516	75.912574161	32.32174	36.57985264	1
## 6856	21	27.982017	100.749115351	32.32174	62.32982553	1
## 6857	109	133.079907	124.683282108	32.32174	76.58913564	1
## 6858	341	366.029650	118.910931303	175.93855	71.46851699	1
## 6859	499	570.463490	162.405551089	316.20792	112.01393737	1
## 6860	227	295.098335	174.062606867	316.20792	129.74625432	1
## 6861	102	180.597083	211.629028819	316.20792	166.66545622	1
## 6862	147	215.115379	274.562078130	316.20792	223.35953167	1
## 6863	201	274.617700	300.907019550	316.20792	248.52942268	1
## 6864	219	249.714905	327.050456671	316.20792	270.82380002	1
## 6865	169	239.270211	321.556779038	316.20792	267.24931794	1
## 6866	205	243.247531	311.335741289	316.20792	250.34852821	1
## 6867	304	356.404023	304.358530674	316.20792	242.73825393	1
## 6868	625	620.368323	297.356452812	316.20792	239.74385373	1
## 6869	570	572.952929	274.963935690	316.20792	220.69737776	1
## 6870	317	389.992055	300.130168114	316.20792	245.02086164	1
## 6871	227	308.696062	293.933308427	316.20792	238.76379492	1
## 6872	206	228.458226	290.398062281	316.20792	243.32084458	1
## 6873	137	159.771841	272.650030829	316.20792	226.74095597	1
## 6874	70	101.000406	280.638750591	316.20792	234.04630939	1
## 6875	34	36.012015	108.436784429	32.32174	61.58581346	1
## 6876	16	16.649832	115.923826436	32.32174	69.08409589	1
## 6877	7	10.533180	123.410868443	32.32174	76.58237832	1
## 6878	3	7.242076	93.287995637	32.32174	56.14693866	1
## 6879	3	11.183644	86.008928083	32.32174	51.60575447	1
## 6880	31	64.123728	139.425350944	32.32174	98.84789304	1
## 6881	68	172.366230	160.171785764	316.20792	118.96507656	1
## 6882	210	269.632524	192.997620834	316.20792	144.59563144	1
## 6883	202	165.201911	154.857138926	316.20792	109.28096764	1
## 6884	123	130.690514	162.344180933	316.20792	116.77925007	1
## 6885	149	116.223251	152.551674157	316.20792	113.20465322	1
## 6886	130	116.663049	161.296277517	316.20792	120.21931828	1
## 6887	106	132.448966	175.557796594	316.20792	127.68609311	1
## 6888	97	102.527984	179.355428908	316.20792	141.23517796	1
## 6889	120	102.826893	173.079716865	316.20792	136.30813574	1
## 6890	201	178.124401	200.178858401	316.20792	161.18798581	1
## 6891	181	199.929796	207.665900408	316.20792	168.68626824	1
## 6892	140	171.613280	201.893549602	316.20792	163.56564959	1
## 6893	197	244.438267	248.774038660	316.20792	201.13000507	1
## 6894	145	198.041834	240.569839515	316.20792	201.57657147	1
## 6895	85	147.769320	244.639384384	316.20792	198.55142586	1
## 6896	107	111.745586	255.895743484	316.20792	204.60015101	1
## 6897	69	87.442313	263.382785491	316.20792	212.09843344	1
## 6898	26	29.285993	86.005766565	32.32174	29.79040845	1
## 6899	15	16.503203	107.757240378	32.32174	49.52108651	1
## 6900	4	8.895881	116.752682615	32.32174	56.43928707	1
## 6901	1	6.864449	120.201919877	32.32174	61.59127711	1
## 6902	8	7.915133	127.688961884	32.32174	69.08955955	1
## 6903	26	28.218313	127.567419305	32.32174	72.30814538	1
## 6904	92	105.444990	124.360809349	32.32174	69.50743639	1
## 6905	318	343.176568	137.551361125	175.93855	82.37165031	1
## 6906	426	442.494533	174.242614502	175.93855	115.37470757	1

## 6907	223	234.827464	182.734695501	175.93855	122.48648456	1
## 6908	130	177.432729	211.489356540	175.93855	152.63568682	1
## 6909	129	174.820166	234.921217104	175.93855	173.01984301	1
## 6910	199	198.515553	257.877550726	175.93855	195.24017670	1
## 6911	164	217.619200	278.848673610	316.20792	213.61764721	1
## 6912	155	187.866104	271.673980788	175.93855	215.32160407	1
## 6913	160	199.471393	270.773770763	175.93855	217.18633494	1
## 6914	234	282.434988	278.260812770	175.93855	224.68461737	1
## 6915	494	459.211163	291.372512191	175.93855	238.87885579	1
## 6916	469	455.507069	284.872112083	175.93855	235.69152657	1
## 6917	298	354.597706	295.043524790	175.93855	237.52551203	1
## 6918	241	258.752529	300.349557335	175.93855	250.49451501	1
## 6919	165	172.240618	303.163224333	175.93855	247.95233936	1
## 6920	128	145.756913	311.153627578	175.93855	255.25704536	1
## 6921	90	116.474125	296.064471139	175.93855	243.56065091	1
## 6922	50	44.494972	109.173564291	32.32174	57.73131127	1
## 6923	26	25.099661	116.158928543	32.32174	65.42252272	1
## 6924	18	14.321275	107.951990871	32.32174	59.93846690	1
## 6925	7	6.931083	98.036832152	32.32174	52.15833187	1
## 6926	6	8.100715	106.027235396	32.32174	59.46303787	1
## 6927	31	28.510611	97.117115670	32.32174	51.29639740	1
## 6928	85	109.985212	121.001319410	32.32174	74.45960273	1
## 6929	233	303.148712	128.488361417	175.93855	81.95788517	1
## 6930	402	443.525804	168.064861355	175.93855	118.10407618	1
## 6931	222	245.820128	187.556473348	175.93855	144.63549929	1
## 6932	138	183.733855	224.394190871	175.93855	171.29695100	1
## 6933	174	208.900184	257.844355640	316.20792	200.94011504	1
## 6934	240	238.425152	266.587275517	316.20792	207.95542751	1
## 6935	206	214.249531	262.098636877	175.93855	203.99443999	1
## 6936	198	266.907612	294.040401415	316.20792	234.21768590	1
## 6937	235	242.295657	288.797562660	316.20792	230.54673932	1
## 6938	302	336.246860	295.781243430	316.20792	238.23859818	1
## 6939	524	475.658483	276.630869961	175.93855	228.48328508	1
## 6940	397	427.365251	271.638870084	175.93855	224.71587399	1
## 6941	253	294.993846	281.388512436	175.93855	231.34403360	1
## 6942	184	247.551297	286.111276342	175.93855	239.90536787	1
## 6943	143	178.255963	279.583670378	175.93855	229.14352051	1
## 6944	113	146.467543	295.910307593	175.93855	245.05440367	1
## 6945	117	120.002884	280.873852698	175.93855	230.38473622	1
## 6946	96	96.493620	104.493801986	32.32174	67.00536896	1
## 6947	70	83.056814	111.980843993	32.32174	74.50365139	1
## 6948	31	58.250477	120.472924993	32.32174	81.61542838	1
## 6949	20	27.498303	125.949889015	32.32174	89.88672171	1
## 6950	8	12.175330	117.995473702	32.32174	84.30555396	1
## 6951	8	11.969035	123.974115479	32.32174	92.38391827	1
## 6952	18	24.231894	114.562317998	32.32174	84.41020681	1
## 6953	57	69.750255	112.759105102	175.93855	80.71619195	1
## 6954	114	136.626243	141.235092968	175.93855	109.31925765	1
## 6955	169	196.477612	164.919475892	175.93855	129.60630191	1
## 6956	236	260.039748	187.876864558	175.93855	157.75790524	1
## 6957	282	290.327934	195.363906565	175.93855	165.25618768	1
## 6958	343	353.629153	225.598078494	175.93855	187.25143734	1
## 6959	322	402.814262	265.374399248	316.20792	226.27378943	1
## 6960	310	349.104827	262.472384757	175.93855	226.33461257	1

## 6961	382	373.564955	265.009062065	175.93855	222.24565294	1
## 6962	359	402.078971	291.101481125	316.20792	247.51265587	1
## 6963	360	359.396959	263.785805162	175.93855	224.45345597	1
## 6964	335	316.425655	266.880883861	175.93855	229.38803912	1
## 6965	220	224.850549	244.130841210	175.93855	210.12545109	1
## 6966	159	170.982882	245.768537739	175.93855	212.66749054	1
## 6967	157	144.808311	227.517145049	175.93855	196.28117836	1
## 6968	144	128.936492	235.004187056	175.93855	203.77946079	1
## 6969	108	94.518820	223.382490773	175.93855	193.70259915	1
## 6970	88	86.478540	34.281685122	32.32174	5.77010933	1
## 6971	71	68.428018	41.768727129	32.32174	13.26839177	1
## 6972	50	53.823865	44.914823888	32.32174	15.23034933	1
## 6973	46	31.373821	50.893465665	32.32174	23.30871364	1
## 6974	6	12.410742	58.380507672	32.32174	30.80699607	1
## 6975	3	9.751721	60.018204201	32.32174	33.34903552	1
## 6976	12	19.548660	69.264485316	32.32174	40.17077156	1
## 6977	21	50.484530	82.350033924	175.93855	52.72176149	1
## 6978	88	103.398145	96.438938041	175.93855	64.88689338	1
## 6979	143	165.141454	137.672640965	175.93855	106.30178918	1
## 6980	289	272.309215	163.566922691	175.93855	128.69198362	1
## 6981	333	300.350948	181.798634722	175.93855	143.51663188	1
## 6982	413	394.196308	231.219768861	316.20792	187.68891817	1
## 6983	415	413.438666	252.390712562	316.20792	208.94254975	1
## 6984	408	415.285529	260.381115806	316.20792	216.24725576	1
## 6985	387	410.727337	273.492815227	316.20792	230.44149418	1
## 6986	405	413.718933	274.851838583	316.20792	231.43739705	1
## 6987	340	339.853764	257.805305702	316.20792	217.54074050	1
## 6988	284	316.945355	264.790669954	316.20792	225.23195195	1
## 6989	193	203.834207	227.881198668	175.93855	194.05019227	1
## 6990	144	165.581319	242.076789437	175.93855	206.52790074	1
## 6991	99	134.637441	249.563831444	175.93855	214.02618317	1
## 6992	94	111.738297	240.402872840	175.93855	205.95600721	1
## 6993	49	80.324996	248.894953840	175.93855	213.06778419	1
## 6994	32	36.564397	77.603432890	32.32174	32.78278786	1
## 6995	15	14.373611	70.452552271	32.32174	23.93960099	1
## 6996	7	8.219938	66.388422513	32.32174	21.11506154	1
## 6997	4	7.413415	84.674119652	32.32174	39.22555938	1
## 6998	6	8.452652	90.652761429	32.32174	47.30392369	1
## 6999	21	25.550203	81.240963948	32.32174	39.33021224	1
## 7000	86	101.844212	96.336590541	32.32174	51.10819127	1
## 7001	285	289.659961	80.825663748	175.93855	44.20597098	1
## 7002	398	467.750474	114.275828516	175.93855	73.84913501	1
## 7003	195	234.936746	140.871608814	175.93855	98.92256151	1
## 7004	129	174.059248	155.714713047	175.93855	110.79765247	1
## 7005	168	223.302375	195.492717284	316.20792	149.81935714	1
## 7006	220	228.429087	216.663660985	316.20792	171.07298873	1
## 7007	198	222.933367	240.849721663	316.20792	191.16710397	1
## 7008	206	234.002615	247.833402433	316.20792	198.85896283	1
## 7009	177	225.288336	271.187039079	316.20792	214.64122646	1
## 7010	310	348.461625	264.486818154	316.20792	208.57773617	1
## 7011	614	595.845314	256.279880482	316.20792	203.09368034	1
## 7012	486	530.751324	286.542941751	316.20792	232.66280073	1
## 7013	237	229.607164	222.997110033	175.93855	190.15871517	1
## 7014	129	196.103311	235.602054563	175.93855	186.42486816	1

## 7015	126	163.619234	226.190257081	175.93855	178.45115670	1
## 7016	79	118.376899	267.050469184	175.93855	215.75697884	1
## 7017	59	95.564226	263.012490238	175.93855	214.57568788	1
## 7018	30	35.940681	85.713695231	32.32174	36.86955544	1
## 7019	11	14.795639	93.200737238	32.32174	44.36783787	1
## 7020	5	7.974348	83.788939756	32.32174	36.39412641	1
## 7021	4	8.115387	72.116225412	32.32174	29.28989036	1
## 7022	5	7.871378	76.014838804	32.32174	30.96245440	1
## 7023	24	25.049013	83.501880811	32.32174	38.46073683	1
## 7024	98	118.850221	101.536739073	32.32174	56.66769918	1
## 7025	314	336.065177	129.639236118	175.93855	81.16169122	1
## 7026	408	558.523428	154.398608435	175.93855	108.24104120	1
## 7027	223	264.305214	214.921938127	175.93855	159.95580538	1
## 7028	128	181.111326	237.599598575	316.20792	180.63000251	1
## 7029	166	204.284773	258.069043704	316.20792	199.20040203	1
## 7030	200	279.245643	292.550398279	316.20792	230.10030912	1
## 7031	198	297.578556	310.809944605	316.20792	246.56755847	1
## 7032	200	246.667483	309.404689861	316.20792	248.62651318	1
## 7033	234	264.254489	321.009672534	316.20792	263.40018606	1
## 7034	285	404.969054	330.003431289	316.20792	270.31903403	1
## 7035	585	634.303332	335.983756548	316.20792	278.39675093	1
## 7036	518	580.377485	320.722613588	316.20792	265.46679648	1
## 7037	338	348.730657	262.770211335	175.93855	209.89440397	1
## 7038	248	253.413916	262.901191116	175.93855	213.01587788	1
## 7039	201	189.170298	253.991071389	175.93855	204.84923740	1
## 7040	170	160.875446	279.381991877	175.93855	227.43300828	1
## 7041	94	108.641007	268.965155403	175.93855	219.84580227	1
## 7042	32	40.362890	97.768228234	32.32174	46.99880089	1
## 7043	12	15.137235	117.309803244	32.32174	64.62632877	1
## 7044	3	6.466093	123.290128503	32.32174	72.70404567	1
## 7045	3	5.478060	131.782209503	32.32174	79.81582266	1
## 7046	5	7.820643	125.081988579	32.32174	73.75233236	1
## 7047	21	28.729100	132.067352831	32.32174	81.44354381	1
## 7048	92	111.874079	139.554394838	32.32174	88.94182624	1
## 7049	299	348.870607	146.036397852	175.93855	96.82661412	1
## 7050	464	489.153213	167.034726593	175.93855	122.77860277	1
## 7051	240	249.510177	195.563416003	175.93855	148.40839547	1
## 7052	131	182.877242	217.460725523	316.20792	167.72938503	1
## 7053	155	193.168149	234.514356997	316.20792	175.77570911	1
## 7054	194	235.780896	267.690925728	316.20792	221.99375102	1
## 7055	82	180.738941	251.849252657	316.20792	210.58675010	1
## 7056	66	122.827195	209.989416672	316.20792	167.81774836	1
## 7057	70	121.660062	217.476458679	316.20792	175.31603079	1
## 7058	213	253.742674	226.471900916	316.20792	182.23423134	1
## 7059	454	432.632641	234.209781801	316.20792	189.63604926	1
## 7060	453	469.850016	244.381194508	316.20792	191.47003472	1
## 7061	331	310.134578	232.205118926	316.20792	184.55937510	1
## 7062	207	235.229282	226.432768121	316.20792	179.43875645	1
## 7063	157	180.869831	262.398710721	316.20792	220.30572538	1
## 7064	135	132.620272	235.386575179	175.93855	194.17678797	1
## 7065	75	85.631728	242.873617187	175.93855	201.67507041	1
## 7066	26	32.303119	51.733844211	32.32174	6.94172076	1
## 7067	11	15.137845	59.220886218	32.32174	14.44000319	1
## 7068	8	8.818349	63.349264810	32.32174	32.49386867	1

## 7069	4	7.410309	70.836306817	32.32174	39.99215111	1
## 7070	4	9.608812	97.432087115	32.32174	65.06557761	1
## 7071	15	20.512395	106.427529352	32.32174	71.98377816	1
## 7072	46	76.440448	131.514909420	32.32174	97.63728654	1
## 7073	137	256.147888	103.972206783	175.93855	64.12740743	1
## 7074	316	272.749762	130.646210999	175.93855	93.80272648	1
## 7075	171	253.134447	158.419645249	316.20792	113.79129047	1
## 7076	62	76.915072	151.469640491	316.20792	113.75553433	1
## 7077	52	72.518919	157.951643506	316.20792	121.64032221	1
## 7078	53	72.856909	165.438685513	316.20792	129.13860464	1
## 7079	74	142.898415	175.108420465	316.20792	131.16551912	1
## 7080	92	121.727399	196.730023860	316.20792	155.19884727	1
## 7081	107	161.829169	205.976304975	316.20792	162.02058332	1
## 7082	207	348.670760	248.266064951	316.20792	200.07634808	1
## 7083	322	369.055972	245.440164289	316.20792	192.87652449	1
## 7084	240	292.362274	258.127354829	175.93855	205.93431484	1
## 7085	219	244.852082	253.915705879	175.93855	203.52011130	1
## 7086	182	211.381870	257.734411870	175.93855	200.59143020	1
## 7087	132	149.967301	270.924963647	175.93855	213.45564412	1
## 7088	111	114.888227	257.370358252	175.93855	202.82241628	1
## 7089	68	78.596683	268.801670921	175.93855	216.36317659	1
## 7090	44	39.321252	82.785932648	32.32174	34.44998159	1
## 7091	16	18.707751	84.423629177	32.32174	36.99202104	1
## 7092	4	9.935499	92.414032421	32.32174	44.29672704	1
## 7093	8	8.574495	85.212133742	32.32174	38.42616576	1
## 7094	10	11.539067	103.748669759	32.32174	56.44019910	1
## 7095	25	30.635155	117.892614030	32.32174	77.82245021	1
## 7096	75	97.520430	112.370047058	32.32174	66.67409741	1
## 7097	205	281.602505	119.857089065	175.93855	74.17237984	1
## 7098	374	439.079817	142.536432996	175.93855	94.84592955	1
## 7099	229	244.573642	163.707376697	175.93855	116.09956113	1
## 7100	130	166.775707	177.043764182	175.93855	128.55408655	1
## 7101	168	194.040264	205.849443282	175.93855	155.73066323	1
## 7102	213	225.091771	238.600448088	175.93855	194.88098743	1
## 7103	228	220.971855	242.672731483	175.93855	197.78646405	1
## 7104	185	202.721000	234.967471566	175.93855	192.10947921	1
## 7105	215	221.632030	250.089248972	175.93855	205.53070673	1
## 7106	308	320.054617	249.439877825	175.93855	207.29897309	1
## 7107	446	402.081587	247.583963387	175.93855	206.57823123	1
## 7108	368	398.151660	248.944670225	175.93855	207.57348669	1
## 7109	204	303.445150	262.558047401	175.93855	221.57479609	1
## 7110	143	176.185416	239.715925630	175.93855	205.67989320	1
## 7111	74	87.230141	220.459493947	175.93855	189.68008647	1
## 7112	36	60.009545	213.057774451	175.93855	180.93336412	1
## 7113	39	52.970810	208.039623761	175.93855	175.52270453	1
## 7114	19	30.253890	12.550834758	32.32174	-5.43180680	1
## 7115	18	25.194552	25.887222244	32.32174	7.02271862	1
## 7116	17	22.723167	33.374264251	32.32174	14.52100105	1
## 7117	8	12.375900	56.130777056	32.32174	33.86517367	1
## 7118	1	7.238234	63.617819063	32.32174	41.36345610	1
## 7119	1	6.809092	31.882345496	32.32174	14.09795584	1
## 7120	5	12.296294	52.628780315	32.32174	34.21513935	1
## 7121	7	24.211441	60.115822322	175.93855	41.71342179	1
## 7122	20	36.515964	73.452209807	175.93855	54.16794720	1

## 7123	20	36.297482	80.939251814	175.93855	61.66622964	1
## 7124	12	27.725390	68.815877776	175.93855	51.78229702	1
## 7125	27	30.377221	77.307958775	175.93855	58.89407400	1
## 7126	50	40.769859	93.962603742	175.93855	73.37911555	1
## 7127	30	38.085090	101.953006987	175.93855	80.68382155	1
## 7128	29	36.483727	108.184171123	175.93855	88.66507394	1
## 7129	41	63.703350	93.294835502	175.93855	79.84484057	1
## 7130	22	36.102256	102.039438862	175.93855	86.85950564	1
## 7131	31	40.001152	109.526480869	175.93855	94.35778807	1
## 7132	43	41.184704	117.013522876	175.93855	101.85607050	1
## 7133	39	71.822245	147.469644343	175.93855	116.18098493	1
## 7134	47	59.723754	154.956686350	175.93855	123.67926736	1
## 7135	50	59.587980	162.443728357	175.93855	131.17754979	1
## 7136	54	57.000541	161.820508023	175.93855	134.58906465	1
## 7137	36	46.522504	168.804188792	175.93855	142.28092351	1
## 7138	54	56.173565	-2.894416132	32.32174	-30.37314885	1
## 7139	43	48.733228	5.094303630	32.32174	-23.06779544	1
## 7140	50	42.960916	13.084706875	32.32174	-15.76308944	1
## 7141	33	24.037125	54.195757855	32.32174	21.44626819	1
## 7142	11	12.333246	44.282282618	32.32174	13.66548575	1
## 7143	4	9.907639	68.164802876	32.32174	36.82933850	1
## 7144	10	16.375415	74.897644768	32.32174	44.61766187	1
## 7145	22	43.657095	78.113691927	175.93855	53.75843061	1
## 7146	80	100.080301	106.268890516	175.93855	75.27914964	1
## 7147	147	148.663609	137.005795245	175.93855	103.01273993	1
## 7148	178	199.252630	156.419183320	175.93855	124.94227049	1
## 7149	240	258.794298	195.545023563	175.93855	158.30876493	1
## 7150	314	329.654095	215.007746217	175.93855	177.26631732	1
## 7151	345	366.934589	244.316786555	175.93855	204.24931757	1
## 7152	300	392.330444	268.199306813	175.93855	227.41317032	1
## 7153	290	381.037431	281.814367471	175.93855	241.41383231	1
## 7154	320	348.928919	295.427744647	175.93855	255.41514172	1
## 7155	245	297.199529	289.934067014	175.93855	251.84065964	1
## 7156	213	252.413781	275.174601810	175.93855	238.71777618	1
## 7157	153	261.432743	324.030287481	316.20792	275.78708501	1
## 7158	92	137.123939	244.470143847	175.93855	213.87402040	1
## 7159	79	105.188122	226.218751157	175.93855	197.48770822	1
## 7160	71	80.203777	207.967358467	175.93855	181.10139604	1
## 7161	37	54.460928	177.236923893	175.93855	153.44939033	1
## 7162	23	25.023197	8.709681043	32.32174	-27.89865784	1
## 7163	13	15.632002	29.456115863	32.32174	-7.78147432	1
## 7164	3	8.755826	17.834419579	32.32174	-17.85833596	1
## 7165	3	6.483669	27.080700694	32.32174	-11.03659992	1
## 7166	6	8.524864	32.808503593	32.32174	-2.86177110	1
## 7167	18	22.865201	21.186807309	32.32174	-12.93863273	1
## 7168	86	85.649194	47.782587607	32.32174	12.13479377	1
## 7169	227	237.211707	42.010236802	175.93855	7.01417512	1
## 7170	372	390.465341	72.776030870	175.93855	42.32163613	1
## 7171	211	239.379551	119.034928757	175.93855	81.80400468	1
## 7172	105	172.761075	180.208738960	175.93855	139.17462651	1
## 7173	128	196.119427	216.039734008	175.93855	166.22323108	1
## 7174	170	216.592637	244.143914536	175.93855	190.71657571	1
## 7175	152	189.386038	255.800970314	175.93855	208.44889265	1
## 7176	141	183.575596	256.658315915	175.93855	209.63772454	1

## 7177	168	212.799498	264.819650636	175.93855	212.24472089	1
## 7178	272	327.440570	250.988055551	175.93855	200.06470908	1
## 7179	486	479.268099	257.971736320	175.93855	207.75656794	1
## 7180	422	396.270031	232.338130591	175.93855	185.35019875	1
## 7181	238	290.516823	239.825172598	175.93855	192.84848118	1
## 7182	172	214.078819	247.312214605	175.93855	200.34676361	1
## 7183	116	127.134823	221.079801553	175.93855	181.50295082	1
## 7184	85	97.069664	228.566843561	175.93855	189.00123325	1
## 7185	52	73.458624	236.053885568	175.93855	196.49951568	1
## 7186	21	23.607954	39.210200279	32.32174	1.62464842	1
## 7187	11	13.188695	61.132605569	32.32174	16.65761684	1
## 7188	4	7.342201	67.443677106	32.32174	29.24011437	1
## 7189	6	7.192122	74.427357875	32.32174	36.93197323	1
## 7190	8	8.692491	79.252786342	32.32174	33.61613927	1
## 7191	18	23.745838	80.387121633	32.32174	36.35175515	1
## 7192	93	95.336799	87.874163640	32.32174	43.85003758	1
## 7193	254	302.397284	112.260045136	175.93855	66.82031390	1
## 7194	419	441.808336	137.650965624	175.93855	89.40408477	1
## 7195	222	229.905645	166.379475850	175.93855	117.91003854	1
## 7196	135	170.988800	193.901442784	175.93855	143.92698410	1
## 7197	117	172.560138	204.526253712	175.93855	154.47128835	1
## 7198	176	218.690150	256.609629829	316.20792	203.52577397	1
## 7199	167	201.097004	244.535590369	175.93855	190.66986318	1
## 7200	150	196.836002	274.346308462	316.20792	217.45993441	1
## 7201	186	205.769541	286.452968889	316.20792	232.04067828	1
## 7202	298	326.165603	290.803925458	175.93855	236.49229148	1
## 7203	506	485.811610	264.493288488	175.93855	213.04658613	1
## 7204	460	432.027010	256.286350816	175.93855	207.56253031	1
## 7205	313	307.477306	263.522553945	175.93855	215.15727725	1
## 7206	209	204.745640	234.923165817	175.93855	190.93844623	1
## 7207	127	133.511507	208.612528846	175.93855	167.49274088	1
## 7208	96	106.130594	216.099570854	175.93855	174.99102331	1
## 7209	72	76.442216	204.477874570	175.93855	164.91416168	1
## 7210	19	19.974071	26.426562930	32.32174	-12.50257724	1
## 7211	10	13.970526	28.064259458	32.32174	-9.96053779	1
## 7212	2	7.315365	35.551301465	32.32174	-2.46225536	1
## 7213	2	5.956401	69.557129097	32.32174	30.27382923	1
## 7214	4	7.448974	50.525385480	32.32174	12.53430950	1
## 7215	27	24.446819	71.271820299	32.32174	32.65149301	1
## 7216	92	92.026614	78.758862306	32.32174	40.14977545	1
## 7217	251	255.509995	86.245904313	175.93855	47.64805788	1
## 7218	472	411.280289	86.322898986	175.93855	47.48368221	1
## 7219	228	220.584946	99.659286471	175.93855	59.93820763	1
## 7220	133	168.515624	161.561145976	175.93855	115.37554003	1
## 7221	144	161.375155	175.650050094	175.93855	127.54067192	1
## 7222	189	209.353799	230.697525129	175.93855	178.40826678	1
## 7223	161	196.071099	259.503204228	175.93855	205.58484346	1
## 7224	172	199.762847	279.469288120	316.20792	224.34881942	1
## 7225	187	203.252687	267.847591836	175.93855	214.27195778	1
## 7226	266	303.139044	274.329594851	175.93855	222.15674566	1
## 7227	553	484.257576	247.315775826	175.93855	196.02845567	1
## 7228	479	430.163205	228.562705381	175.93855	179.83507251	1
## 7229	282	278.969655	218.647546662	175.93855	172.05493749	1
## 7230	182	211.072318	248.233576690	175.93855	200.58472172	1

## 7231	168	168.752094	238.821779208	175.93855	192.61101027	1
## 7232	106	120.873141	240.459475737	175.93855	195.15304971	1
## 7233	57	70.762653	236.144507101	175.93855	192.42497477	1
## 7234	31	30.393190	63.942540939	32.32174	19.96447884	1
## 7235	15	14.114704	55.283260090	32.32174	11.70137385	1
## 7236	7	9.434043	73.819796108	32.32174	29.71540719	1
## 7237	5	7.893322	70.257344104	32.32174	26.69793872	1
## 7238	4	7.585808	71.142524000	32.32174	29.52937169	1
## 7239	28	24.956760	79.382082640	32.32174	36.73826059	1
## 7240	99	107.111709	104.773003129	32.32174	59.32203147	1
## 7241	292	327.005978	91.924318314	175.93855	57.30201051	1
## 7242	402	445.493901	105.260705800	175.93855	69.75653593	1
## 7243	164	211.525814	120.354648910	175.93855	81.53516237	1
## 7244	110	158.389029	150.589875884	175.93855	109.46168168	1
## 7245	120	164.467906	191.344029774	175.93855	140.52301018	1
## 7246	179	200.411411	251.737489048	316.20792	196.54042446	1
## 7247	169	196.775866	271.029280225	316.20792	220.19568649	1
## 7248	152	180.384174	269.849341984	316.20792	214.58301114	1
## 7249	162	186.039748	277.336383991	316.20792	222.08129357	1
## 7250	267	290.821859	294.164698961	316.20792	237.79924771	1
## 7251	498	428.238025	272.726202772	175.93855	221.33889188	1
## 7252	433	417.431545	257.437225517	175.93855	206.76633636	1
## 7253	252	277.180148	249.482810205	175.93855	201.18516861	1
## 7254	209	223.603498	242.531750403	175.93855	195.21814282	1
## 7255	144	164.009507	233.621630676	175.93855	187.05150235	1
## 7256	137	126.249697	225.588363008	175.93855	182.80035910	1
## 7257	95	97.564818	234.583805245	175.93855	189.71855966	1
## 7258	43	31.860407	59.194107146	32.32174	23.11593713	1
## 7259	17	15.306480	66.681149153	32.32174	30.61421956	1
## 7260	10	13.470302	87.427583972	32.32174	50.73140308	1
## 7261	8	8.038377	67.520671779	32.32174	29.07573870	1
## 7262	7	8.517374	73.751835915	32.32174	37.05699109	1
## 7263	23	24.726972	79.730477692	32.32174	45.13535540	1
## 7264	66	86.548886	88.725919930	32.32174	52.05355595	1
## 7265	245	287.385345	106.533123080	175.93855	65.74175615	1
## 7266	395	388.885405	114.071183148	175.93855	70.26741299	1
## 7267	254	231.239086	164.525190574	175.93855	115.69579491	1
## 7268	134	154.996296	169.751315718	175.93855	124.06355275	1
## 7269	162	164.407079	193.937376397	175.93855	144.15766799	1
## 7270	197	188.087803	240.394411618	175.93855	186.51684503	1
## 7271	194	212.228953	245.445811714	175.93855	187.72042064	1
## 7272	201	220.915614	259.762370944	175.93855	204.40431469	1
## 7273	237	248.800484	281.236855066	175.93855	222.58820877	1
## 7274	290	342.281321	306.403087489	175.93855	246.91169265	1
## 7275	480	488.188629	297.268279698	175.93855	240.48476518	1
## 7276	374	411.035522	319.773953626	175.93855	259.92540231	1
## 7277	196	310.309249	308.602917036	175.93855	252.62823724	1
## 7278	186	208.918596	289.875997404	175.93855	238.07810257	1
## 7279	123	146.815683	284.380636289	175.93855	234.50426791	1
## 7280	115	125.863528	293.125239649	175.93855	241.51893297	1
## 7281	89	101.953115	288.133239772	175.93855	237.75152187	1
## 7282	52	52.630201	121.597823261	32.32174	82.39824989	1
## 7283	62	51.034463	128.079826275	32.32174	90.28303777	1
## 7284	31	32.371266	114.751592427	32.32174	77.90944952	1

## 7285	8	15.363658	121.735273197	32.32174	85.60130838	1
## 7286	8	11.663213	115.036735755	32.32174	79.53717068	1
## 7287	2	7.152665	107.834837075	32.32174	73.66660940	1
## 7288	23	20.369017	114.064317730	32.32174	81.64850920	1
## 7289	34	66.261211	122.054720974	175.93855	88.95321520	1
## 7290	84	120.208419	144.984903783	175.93855	109.53030040	1
## 7291	141	153.654675	157.817930031	175.93855	122.17840225	1
## 7292	227	220.652485	177.029813807	175.93855	141.23241915	1
## 7293	238	294.937495	209.173082644	175.93855	174.33117873	1
## 7294	372	352.508272	217.665163644	175.93855	181.44295571	1
## 7295	355	368.330955	255.734946834	175.93855	218.16858119	1
## 7296	386	396.359167	273.992809678	175.93855	234.63647795	1
## 7297	343	379.588203	272.215747596	175.93855	232.58571159	1
## 7298	335	397.588118	273.576454434	175.93855	233.58096705	1
## 7299	334	341.199928	274.209111970	175.93855	236.50951194	1
## 7300	237	249.830317	252.491942608	175.93855	218.50301954	1
## 7301	204	223.103903	245.991542500	175.93855	215.31569032	1
## 7302	165	154.332639	218.900554602	175.93855	190.51677742	1
## 7303	118	124.208366	226.387596609	175.93855	198.01505986	1
## 7304	82	91.855922	230.235191940	175.93855	202.66024948	1
## 7305	85	84.202187	220.823394458	175.93855	194.68653803	1
## 7306	75	76.037703	37.571934286	32.32174	11.71029119	1
## 7307	115	91.890219	25.950238002	32.32174	1.63342956	1
## 7308	29	46.857283	33.437280009	32.32174	9.13171199	1
## 7309	9	13.193779	21.815583726	32.32174	-0.94514965	1
## 7310	6	8.042755	29.302625733	32.32174	6.55313278	1
## 7311	5	8.927929	39.050584603	32.32174	13.18193981	1
## 7312	16	19.329387	64.893848268	32.32174	38.54475984	1
## 7313	28	43.973349	59.372336340	175.93855	33.32767668	1
## 7314	90	108.341665	70.778553241	175.93855	51.15645813	1
## 7315	170	163.331866	110.633726351	175.93855	88.84878571	1
## 7316	262	252.649788	157.237225718	175.93855	124.86635720	1
## 7317	320	340.637015	199.951494577	175.93855	164.05857003	1
## 7318	346	343.712905	220.619077040	175.93855	185.50577805	1
## 7319	314	337.138308	243.349439032	175.93855	203.20670217	1
## 7320	320	339.838913	242.498563586	175.93855	202.09945487	1
## 7321	306	332.260036	264.674546279	175.93855	222.96658101	1
## 7322	347	335.347785	257.976008837	175.93855	216.90244330	1
## 7323	256	286.167293	243.139374759	175.93855	205.10893693	1
## 7324	185	214.827464	223.882943077	175.93855	189.10913020	1
## 7325	151	164.977604	210.128516865	175.93855	175.59974129	1
## 7326	116	123.353552	199.210002635	175.93855	168.20546430	1
## 7327	88	95.380600	206.446205765	175.93855	175.80021124	1
## 7328	45	75.734392	199.165454729	175.93855	171.25967447	1
## 7329	50	57.912597	202.311551488	175.93855	173.22163204	1
## 7330	15	19.478144	32.275908408	32.32174	-7.54633425	1
## 7331	8	12.015538	39.762950415	32.32174	-0.04805182	1
## 7332	2	6.109847	28.141254131	32.32174	-10.12491346	1
## 7333	3	5.944212	35.628296138	32.32174	-2.62663103	1
## 7334	6	6.703110	43.115338145	32.32174	4.87165140	1
## 7335	26	24.822181	44.753034674	32.32174	7.41369085	1
## 7336	99	93.689242	44.711399496	32.32174	15.23352182	1
## 7337	311	311.467021	52.198441503	175.93855	22.73180425	1
## 7338	410	401.655565	51.573937604	175.93855	19.88419653	1

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## 7339    174 208.708211  71.512187200 175.93855  37.00557141  1
## 7340    123 164.539055 101.997198007 175.93855  58.90435656  1
## 7341    128 160.708357 161.888979527 175.93855 115.11469985  1
## 7342    179 208.599428 201.414461403 175.93855 154.23351645  1
## 7343    189 212.584065 273.585463991 316.20792 218.83339220  1
## 7344    145 217.818436 314.696514971 316.20792 256.04274982  1
## 7345    170 218.070105 321.178517985 316.20792 263.92753770  1
## 7346    295 317.045146 297.528439512 316.20792 245.36467911  1
## 7347    528 482.725231 301.930414141 316.20792 246.84366671  1
## 7348    425 404.943071 265.775142970 175.93855 215.37186610  1
## 7349    300 294.616815 271.502945869 175.93855 223.54669492  1
## 7350    204 204.745640 234.923165817 175.93855 190.93844623  1
## 7351    139 148.177871 214.011214630 175.93855 169.66928730  1
## 7352    108 106.002333 217.607971084 175.93855 174.41094143  1
## 7353     48 71.811256 211.835620278 175.93855 169.29032278  1
## 7354     18 21.381052 33.784308638 32.32174 -8.12641613  1
## 7355     11 15.620492 22.413451232 32.32174 -18.29974228  1
## 7356      1 6.309574 41.400646944 32.32174  2.49398762  1
## 7357      3 5.738940 48.887688951 32.32174  9.99227005  1
## 7358      4 7.448974 50.525385480 32.32174 12.53430950  1
## 7359     18 24.485436 59.520827717 32.32174 19.45251005  1
## 7360     99 94.616252 65.499469494 32.32174 27.53087436  1
## 7361    323 314.758971 74.745750609 175.93855 34.35261041  1
## 7362    466 439.315857 74.822745281 175.93855 34.18823474  1
## 7363    191 218.352859 105.508631949 175.93855 64.89445062  1
## 7364    129 166.007885 167.410491455 175.93855 120.33178301  1
## 7365    147 167.502460 205.027931467 175.93855 154.27835934  1
## 7366    203 201.689786 254.371896732 316.20792 199.78002271  1
## 7367    196 202.286738 274.841341861 316.20792 218.35042224  1
## 7368    161 195.395864 293.802386760 316.20792 237.50090365  1
## 7369    188 202.615067 307.138774245 316.20792 249.95542906  1
## 7370    289 315.020857 309.278148529 316.20792 252.30453949  1
## 7371    499 500.312888 312.199557223 316.20792 256.00621006  1
## 7372    462 432.694952 280.965761412 175.93855 228.54778079  1
## 7373    278 294.616815 271.502945869 175.93855 223.54669492  1
## 7374    181 203.753460 223.873671806 175.93855 180.42269532  1
## 7375    182 167.533390 231.360713813 175.93855 187.92097776  1
## 7376    108 105.153582 202.840178041 175.93855 162.37212223  1
## 7377     48 74.188616 223.586612861 175.93855 182.48930574  1
## 7378     13 20.873677 38.125253886 32.32174 -2.59009127  1
## 7379     10 12.015538 39.762950415 32.32174 -0.04805182  1
## 7380      5 6.109847 28.141254131 32.32174 -10.12491346  1
## 7381      4 5.944212 35.628296138 32.32174 -2.62663103  1
## 7382      4 6.421190 56.374730958 32.32174 17.49055249  1
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## 7385    300 285.349092 72.986511501 175.93855 35.02915680  1
## 7386    456 436.885777 73.063506174 175.93855 34.86478113  1
## 7387    219 230.954381 86.399893659 175.93855 47.31930655  1
## 7388    105 156.136966 150.762490844 175.93855 104.76332462  1
## 7389    152 163.861166 196.691697497 175.93855 145.67218218  1
## 7390    180 187.353640 251.235811293 316.20792 196.73335347  1
## 7391    167 185.216458 258.722853300 316.20792 204.23163591  1
## 7392    179 184.187492 278.688937192 316.20792 222.99561186  1

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## 7393	151	214.791813	293.810714598	316.20792	236.41683939	1
## 7394	281	290.821859	294.164698961	316.20792	237.79924771	1
## 7395	485	437.105002	249.448505755	175.93855	199.46098294	1
## 7396	408	396.325055	242.246607075	175.93855	193.59042167	1
## 7397	304	297.962191	238.684155072	175.93855	190.57295320	1
## 7398	219	228.005478	233.362463961	175.93855	188.23203111	1
## 7399	161	150.662928	207.051826990	175.93855	164.78632577	1
## 7400	114	120.815898	214.538868998	175.93855	172.28460820	1
## 7401	66	78.909217	216.176565526	175.93855	174.82664765	1
## 7402	24	25.991953	49.823944842	32.32174	7.32239470	1
## 7403	11	13.259439	55.631655142	32.32174	20.09846866	1
## 7404	5	7.605551	41.800060057	32.32174	7.91845684	1
## 7405	11	7.889095	52.474834001	32.32174	9.55886587	1
## 7406	3	7.226805	59.961876008	32.32174	17.05714830	1
## 7407	23	24.779096	47.413364650	32.32174	11.96868466	1
## 7408	114	96.393927	54.900406657	32.32174	19.46696710	1
## 7409	272	281.416029	81.999548192	175.93855	44.34681717	1
## 7410	436	415.103723	94.080057807	175.93855	57.28431254	1
## 7411	211	234.057002	107.667284170	175.93855	69.64237345	1
## 7412	117	156.545482	136.273142453	175.93855	93.94278905	1
## 7413	108	149.170124	198.781682883	175.93855	149.50041642	1
## 7414	167	177.717014	194.066672696	175.93855	147.27978931	1
## 7415	96	93.757312	151.387763332	175.93855	115.74303179	1
## 7416	64	78.655489	144.359534656	175.93855	111.10538309	1
## 7417	62	88.688559	165.356808353	175.93855	131.12610210	1
## 7418	73	119.133541	171.587972490	175.93855	139.10735449	1
## 7419	177	160.160936	179.075014497	175.93855	146.60563692	1
## 7420	273	303.231440	187.236349219	175.93855	149.21263327	1
## 7421	211	272.901747	217.827418239	175.93855	177.35591206	1
## 7422	168	191.685306	246.208588458	175.93855	203.39604067	1
## 7423	136	143.936762	265.921094945	175.93855	216.32585891	1
## 7424	89	121.224877	282.751093398	175.93855	232.04316563	1
## 7425	82	105.287139	271.859785025	175.93855	232.22340678	1
## 7426	66	59.217547	84.388750110	32.32174	52.09586823	1
## 7427	19	28.154853	78.444412784	32.32174	45.74168959	1
## 7428	11	22.793048	85.177254676	32.32174	53.53001296	1
## 7429	6	10.628845	76.466955766	32.32174	48.23953356	1
## 7430	8	9.717547	83.953997773	32.32174	55.73781599	1
## 7431	13	16.750045	118.964864397	32.32174	88.08739514	1
## 7432	46	35.873528	130.699717487	32.32174	98.55841794	1
## 7433	121	123.105717	136.929198142	175.93855	106.54031774	1
## 7434	258	211.359920	158.654521141	175.93855	124.62774731	1
## 7435	201	200.441183	166.869612450	175.93855	130.19274031	1
## 7436	200	200.260166	182.743906489	175.93855	143.32457431	1
## 7437	170	203.662907	195.075254982	175.93855	156.16560517	1
## 7438	239	224.944495	202.060619233	175.93855	163.85681662	1
## 7439	236	235.588630	233.802562955	175.93855	191.20390146	1
## 7440	247	237.312251	239.782888214	175.93855	199.28161836	1
## 7441	216	234.482278	240.666384628	175.93855	202.11369875	1
## 7442	238	241.352402	253.276406293	175.93855	216.50086619	1
## 7443	310	259.132677	243.864608812	175.93855	208.52715473	1
## 7444	208	214.393402	250.094089466	175.93855	216.50905453	1
## 7445	199	187.257662	250.225069247	175.93855	219.63052844	1
## 7446	109	126.925129	258.213789009	175.93855	226.93588186	1

## 7447	83	87.010366	246.090414971	175.93855	217.05194924	1
## 7448	91	97.522471	273.187873024	175.93855	241.93244672	1
## 7449	73	79.360593	259.808621115	175.93855	232.53148406	1
## 7450	64	62.055560	61.282642224	32.32174	32.47558252	1
## 7451	54	55.142621	68.769684231	32.32174	39.97386495	1
## 7452	46	40.200948	64.454715595	32.32174	37.24579001	1
## 7453	17	14.479008	61.644780224	32.32174	33.93892801	1
## 7454	7	9.846107	35.334143254	32.32174	10.49322267	1
## 7455	4	8.236679	58.967508117	32.32174	33.75289251	1
## 7456	7	15.619577	67.710427994	32.32174	40.76820499	1
## 7457	27	43.507032	75.699147756	175.93855	48.07355840	1
## 7458	101	104.803195	105.934374730	175.93855	76.00007771	1
## 7459	160	161.156181	144.507519157	175.93855	112.53212675	1
## 7460	232	247.123565	165.703330106	175.93855	129.16988426	1
## 7461	315	332.118372	200.358354684	175.93855	161.30270393	1
## 7462	366	356.389843	247.492421147	175.93855	204.70121712	1
## 7463	353	377.750506	284.357344527	175.93855	238.93718697	1
## 7464	435	393.977990	297.944570889	316.20792	251.29524788	1
## 7465	386	376.680009	326.499411112	316.20792	278.56828907	1
## 7466	361	377.230005	326.853395475	316.20792	279.95069739	1
## 7467	285	310.975664	324.071294400	316.20792	278.28643647	1
## 7468	203	245.071565	254.118344251	175.93855	215.87064808	1
## 7469	171	211.662844	280.289615668	175.93855	239.80762651	1
## 7470	132	154.751799	288.280018912	175.93855	247.11233251	1
## 7471	122	129.194280	302.396757326	175.93855	260.92006548	1
## 7472	118	121.804643	309.380438095	175.93855	268.61192434	1
## 7473	101	116.713868	285.202531053	175.93855	248.59874627	1
## 7474	73	82.213096	111.822910939	32.32174	81.22311285	1
## 7475	71	72.759970	89.932071573	32.32174	61.98370786	1
## 7476	57	61.588642	117.480817758	32.32174	83.71198486	1
## 7477	28	26.874848	112.740711803	32.32174	85.77937890	1
## 7478	6	14.458660	120.227753810	32.32174	93.27766133	1
## 7479	5	13.955666	126.258042085	32.32174	92.45148300	1
## 7480	23	23.571078	122.192228845	32.32174	89.62759096	1
## 7481	43	84.257044	131.187671082	175.93855	96.54579151	1
## 7482	79	120.159810	136.413796226	175.93855	104.91354935	1
## 7483	135	201.640343	191.233616148	175.93855	151.26238205	1
## 7484	241	281.827452	233.272537248	175.93855	189.41461132	1
## 7485	295	313.962283	256.955236689	175.93855	209.70230299	1
## 7486	354	347.514465	304.619870246	316.20792	260.48175789	1
## 7487	339	347.989320	312.106912253	316.20792	267.98004032	1
## 7488	371	365.522037	328.909076411	316.20792	282.05474596	1
## 7489	310	327.097971	290.996249614	316.20792	251.25884432	1
## 7490	319	358.210773	342.125604800	316.20792	297.72720980	1
## 7491	231	274.065702	346.647492845	316.20792	297.48111335	1
## 7492	190	252.411710	354.134534852	316.20792	304.97939578	1
## 7493	157	199.256812	351.854111532	316.20792	303.12220585	1
## 7494	139	168.859707	354.921355935	316.20792	306.41418792	1
## 7495	95	134.881406	343.750319345	175.93855	299.11702285	1
## 7496	89	113.842334	342.450467687	175.93855	295.22943156	1
## 7497	67	92.490188	320.480775965	175.93855	277.32005109	1
## 7498	30	40.573804	134.023503821	32.32174	79.24326598	1
## 7499	11	15.914885	132.921789497	32.32174	78.23248318	1
## 7500	17	15.844597	141.413870497	32.32174	85.34426016	1

## 7501	7	7.127750	132.956093947	32.32174	79.95666885	1
## 7502	5	6.700735	139.438096962	32.32174	87.84145673	1
## 7503	19	25.897678	145.747485017	32.32174	100.42460167	1
## 7504	114	111.134474	141.683355258	32.32174	97.60006221	1
## 7505	322	346.704679	151.351406728	175.93855	99.62762410	1
## 7506	452	475.054811	173.052917523	175.93855	128.26219740	1
## 7507	233	223.817397	188.651905354	175.93855	139.84659999	1
## 7508	111	152.208196	210.073687933	316.20792	161.00376707	1
## 7509	128	155.645079	235.889117302	316.20792	184.72398602	1
## 7510	202	207.256886	259.995270581	316.20792	200.21685612	1
## 7511	203	223.700108	296.158695389	316.20792	231.76959391	1
## 7512	185	215.786968	317.129818273	316.20792	250.14706442	1
## 7513	195	221.357476	332.875925377	316.20792	267.58090110	1
## 7514	315	325.870962	331.600541050	316.20792	265.33720572	1
## 7515	519	508.733452	336.323304956	316.20792	273.89853998	1
## 7516	489	461.876451	304.666683745	316.20792	245.30301522	1
## 7517	302	355.453122	330.732951993	316.20792	268.92676966	1
## 7518	240	273.829387	339.225032992	316.20792	276.03854664	1
## 7519	213	221.555019	346.712074999	316.20792	283.53682907	1
## 7520	113	142.469279	341.720075122	316.20792	279.76941798	1
## 7521	61	111.680742	324.673542241	316.20792	265.87276143	1
## 7522	22	33.191568	153.476615072	32.32174	93.02576005	1
## 7523	10	18.706918	168.798213295	32.32174	109.32314865	1
## 7524	15	16.543704	166.691459978	32.32174	108.69887130	1
## 7525	4	10.854657	159.067790944	32.32174	107.62248418	1
## 7526	7	11.299193	182.419744108	32.32174	123.40539523	1
## 7527	28	32.216836	174.967006551	32.32174	117.63129846	1
## 7528	108	115.506819	192.197701681	32.32174	145.03219698	1
## 7529	319	346.157331	186.251680872	316.20792	138.67866574	1
## 7530	480	446.427689	192.733683886	316.20792	146.56345362	1
## 7531	200	224.628241	214.658827702	316.20792	167.52704427	1
## 7532	138	163.127537	225.411825565	316.20792	173.76934585	1
## 7533	134	172.521023	231.390467342	316.20792	181.84771016	1
## 7534	176	198.942057	220.922612807	316.20792	177.23312974	1
## 7535	153	169.809604	248.178830616	316.20792	205.38484786	1
## 7536	147	172.044419	258.350243323	316.20792	207.21883331	1
## 7537	191	209.842241	263.323846107	316.20792	215.68370307	1
## 7538	271	296.993774	247.282352220	316.20792	201.40054108	1
## 7539	451	430.408070	241.085492533	316.20792	195.14347435	1
## 7540	441	429.056447	250.080934770	316.20792	202.06167490	1
## 7541	286	301.961276	258.823854648	316.20792	209.07698738	1
## 7542	238	225.793483	234.593246062	175.93855	192.03708230	1
## 7543	168	173.455841	258.226610925	316.20792	215.29675215	1
## 7544	128	124.500218	229.956914031	175.93855	189.65143212	1
## 7545	80	86.782164	224.184563225	175.93855	184.53081347	1
## 7546	31	25.008112	50.223357955	32.32174	12.74686392	1
## 7547	5	9.129435	57.539468485	32.32174	24.94285600	1
## 7548	10	9.172232	66.956681077	32.32174	27.06688240	1
## 7549	5	7.349802	74.443723084	32.32174	34.56516483	1
## 7550	4	6.901664	64.832104786	32.32174	23.71529230	1
## 7551	13	13.477844	87.738475391	32.32174	54.83952122	1
## 7552	56	82.246829	96.654010228	32.32174	57.15647664	1
## 7553	137	163.639888	100.953320297	175.93855	70.51263247	1
## 7554	232	196.597008	108.440362305	175.93855	78.01091490	1

## 7555	82	107.494677	115.927404312	175.93855	85.50919734	1
## 7556	36	64.542359	123.414446319	175.93855	93.00747977	1
## 7557	60	65.111777	132.409888556	175.93855	99.92568032	1
## 7558	54	63.573307	125.129137520	175.93855	95.38514355	1
## 7559	58	66.192426	148.136489203	175.93855	114.63285166	1
## 7560	61	127.773074	144.043470105	175.93855	104.23444148	1
## 7561	66	85.366098	168.458240940	175.93855	134.77858852	1
## 7562	123	116.851555	175.945282947	175.93855	142.27687096	1
## 7563	233	282.285016	199.877766221	175.93855	156.53682848	1
## 7564	189	151.569435	203.103770381	175.93855	163.10003118	1
## 7565	111	131.902237	210.590812388	175.93855	170.59831361	1
## 7566	99	103.834078	212.228508917	175.93855	173.14035306	1
## 7567	75	83.163820	217.956311816	175.93855	181.31518188	1
## 7568	46	60.821958	218.588969352	175.93855	184.24372677	1
## 7569	31	47.853342	224.567611129	175.93855	192.32209108	1
## 7570	24	26.352426	56.055054660	32.32174	13.81079273	1
## 7571	5	10.372895	75.294772731	32.32174	34.50741071	1
## 7572	5	6.847742	83.786853731	32.32174	41.61918770	1
## 7573	3	6.171154	104.082628856	32.32174	58.95667464	1
## 7574	4	9.671054	140.375524164	32.32174	92.46653233	1
## 7575	22	26.275138	107.239392063	32.32174	72.02496017	1
## 7576	75	83.163306	149.755123669	32.32174	114.60013450	1
## 7577	168	254.178551	143.558263983	175.93855	108.34306778	1
## 7578	355	324.388545	151.296144867	175.93855	115.74488570	1
## 7579	198	221.126989	160.965879819	175.93855	117.77180017	1
## 7580	81	140.838923	168.452921826	175.93855	125.27008261	1
## 7581	97	115.758935	157.361792637	175.93855	122.57416268	1
## 7582	121	163.968263	200.602835019	175.93855	157.28542534	1
## 7583	124	145.494717	219.442911457	175.93855	172.22972117	1
## 7584	110	149.012016	225.924914472	175.93855	180.11450905	1
## 7585	116	150.991724	234.416995472	175.93855	187.22628603	1
## 7586	195	251.378490	259.329650491	175.93855	205.71561219	1
## 7587	399	419.711591	259.685318337	175.93855	207.09737310	1
## 7588	307	400.303097	270.534417412	175.93855	222.16173434	1
## 7589	217	295.506790	259.416082366	175.93855	211.89129627	1
## 7590	169	199.062208	274.537859772	175.93855	225.31252379	1
## 7591	116	150.172076	281.521540541	175.93855	233.00438266	1
## 7592	84	102.990964	255.210903571	175.93855	209.55867731	1
## 7593	58	80.178719	262.196267823	175.93855	217.24988876	1
## 7594	30	33.853258	97.828857876	32.32174	53.58849900	1
## 7595	10	16.186543	116.919773192	32.32174	68.43633032	1
## 7596	10	11.857233	116.798230613	32.32174	71.65491615	1
## 7597	2	8.141560	131.920008019	32.32174	85.07614368	1
## 7598	5	12.009387	124.917930156	32.32174	82.08174348	1
## 7599	22	25.804570	131.901610926	32.32174	89.77360234	1
## 7600	71	87.035524	138.636136300	32.32174	97.56127830	1
## 7601	216	304.608605	147.379056178	175.93855	104.57659077	1
## 7602	375	414.173236	155.367775940	175.93855	111.88194419	1
## 7603	213	243.091378	181.183205309	175.93855	135.60216313	1
## 7604	115	173.840240	190.178647547	175.93855	142.52036369	1
## 7605	140	193.461573	217.900435298	175.93855	171.41347032	1
## 7606	165	210.668445	235.605602326	175.93855	191.04692168	1
## 7607	177	203.647870	257.131104509	175.93855	206.25819018	1
## 7608	154	201.721014	263.109746286	175.93855	214.33655449	1

## 7609	178	203.916045	275.016585897	175.93855	226.04113728	1
## 7610	209	288.443268	282.503627904	175.93855	233.53941971	1
## 7611	378	430.177418	279.721526829	175.93855	231.87515880	1
## 7612	328	346.762974	270.813090585	175.93855	223.70787091	1
## 7613	190	254.971689	261.401293103	175.93855	215.73415945	1
## 7614	137	183.089016	253.920721251	175.93855	208.31746160	1
## 7615	111	141.943902	260.906085503	175.93855	216.00867305	1
## 7616	97	112.147696	252.699147830	175.93855	210.52461723	1
## 7617	59	81.236028	243.008677176	175.93855	201.00476920	1
## 7618	53	62.048426	76.976621903	32.32174	45.45792078	1
## 7619	35	43.015728	95.062498226	32.32174	60.69225755	1
## 7620	46	42.684567	85.599682684	32.32174	55.69117168	1
## 7621	15	14.932027	118.121977333	32.32174	84.39146407	1
## 7622	8	8.647958	126.866580693	32.32174	91.40612913	1
## 7623	2	8.874494	109.567525453	32.32174	77.60658451	1
## 7624	12	16.819146	109.472533604	32.32174	76.20864885	1
## 7625	41	58.837050	115.702014258	175.93855	84.19054865	1
## 7626	92	105.873357	137.877996952	175.93855	105.05767479	1
## 7627	142	149.599204	160.808179761	175.93855	125.63475999	1
## 7628	200	216.853892	194.709004224	175.93855	158.05762059	1
## 7629	233	265.910500	220.673236349	175.93855	187.62662620	1
## 7630	311	357.805792	255.682819409	175.93855	213.71708277	1
## 7631	363	369.942314	280.068700904	175.93855	236.68735909	1
## 7632	349	379.449867	283.386784185	175.93855	239.88287666	1
## 7633	382	399.401906	269.225497865	175.93855	229.12935385	1
## 7634	287	352.955533	285.101475387	175.93855	242.26054044	1
## 7635	232	313.021043	280.560135203	175.93855	241.27282591	1
## 7636	208	259.484307	267.933399927	175.93855	231.58246972	1
## 7637	182	193.868430	206.794949219	175.93855	181.86730320	1
## 7638	163	167.797248	250.568242178	175.93855	223.95886016	1
## 7639	108	125.243287	248.512506922	175.93855	220.36195722	1
## 7640	106	122.325178	261.347216652	175.93855	233.00941166	1
## 7641	93	102.115808	271.518629359	175.93855	234.84339711	1
## 7642	93	84.904548	89.472028996	32.32174	54.35680591	1
## 7643	84	73.180643	113.154728438	32.32174	74.64449758	1
## 7644	56	51.960129	121.145131682	32.32174	81.94920358	1
## 7645	37	32.125224	118.113246774	32.32174	86.31267682	1
## 7646	12	13.791077	114.550794770	32.32174	83.29520835	1
## 7647	4	10.082590	136.726777464	32.32174	104.16233449	1
## 7648	9	19.595417	143.710458234	32.32174	111.85419335	1
## 7649	23	83.070402	152.375154193	175.93855	114.26761328	1
## 7650	65	119.965666	150.348308277	175.93855	118.24458106	1
## 7651	138	178.622297	161.144050682	175.93855	124.09117567	1
## 7652	229	242.303142	165.946721989	175.93855	137.25375508	1
## 7653	286	295.881587	210.870889649	316.20792	178.54911809	1
## 7654	304	303.136840	218.859609412	316.20792	185.85447150	1
## 7655	369	334.521835	245.680077774	316.20792	209.18818500	1
## 7656	363	346.109316	243.372448597	316.20792	199.75647693	1
## 7657	351	332.036253	237.125625893	316.20792	202.40330544	1
## 7658	306	306.348284	254.657122918	316.20792	220.80384422	1
## 7659	203	250.834928	263.149203918	316.20792	227.91562120	1
## 7660	145	233.456234	274.275692601	316.20792	238.26699644	1
## 7661	157	197.853114	250.878136487	316.20792	219.60702592	1
## 7662	113	182.722534	273.054119181	316.20792	240.47415206	1

## 7663	105	123.997764	248.702542135	175.93855	219.22806141	1
## 7664	40	55.282980	224.352020134	175.93855	203.91324039	1
## 7665	28	48.040966	231.839062141	175.93855	211.41152282	1
## 7666	17	25.008112	50.223357955	32.32174	12.74686392	1
## 7667	12	9.762861	59.297024111	32.32174	24.26695703	1
## 7668	3	5.679670	47.675327827	32.32174	14.19009539	1
## 7669	4	4.515774	54.157330842	32.32174	22.07488327	1
## 7670	5	4.783006	61.644372849	32.32174	29.57316570	1
## 7671	20	22.998856	68.549829700	32.32174	32.66313201	1
## 7672	76	77.957746	70.187526229	32.32174	35.20517146	1
## 7673	246	266.389204	105.396930105	175.93855	64.17178911	1
## 7674	391	383.348809	110.119694012	175.93855	72.73312338	1
## 7675	237	237.428012	125.215320605	175.93855	84.51110241	1
## 7676	135	142.579608	166.950701283	316.20792	125.73306918	1
## 7677	128	151.418182	176.196982398	316.20792	132.55480523	1
## 7678	162	161.376718	191.595749495	316.20792	147.52281674	1
## 7679	134	159.252769	199.082791502	316.20792	155.02109917	1
## 7680	135	162.406666	190.676033013	175.93855	146.66088227	1
## 7681	108	94.235907	158.769627969	175.93855	124.09309165	1
## 7682	108	114.748823	166.256669976	175.93855	131.59137409	1
## 7683	210	152.700723	169.150244375	175.93855	133.65044358	1
## 7684	192	152.840139	188.137440087	175.93855	154.44417348	1
## 7685	137	125.748441	176.515743803	175.93855	144.36731184	1
## 7686	80	104.662478	199.975438662	175.93855	166.39406910	1
## 7687	114	91.940423	206.457441677	175.93855	174.27885698	1
## 7688	78	69.725519	213.441122446	175.93855	181.97071585	1
## 7689	33	52.808410	221.431525691	175.93855	189.27542185	1
## 7690	14	16.832903	26.905883443	32.32174	-2.47686288	1
## 7691	6	8.856722	40.743948684	32.32174	9.78473352	1
## 7692	6	6.641478	28.620574645	32.32174	-0.09919910	1
## 7693	3	5.606683	36.107616652	32.32174	7.39908333	1
## 7694	7	7.313517	57.859090464	32.32174	27.12976140	1
## 7695	18	15.073130	65.346132471	32.32174	34.62804383	1
## 7696	64	80.006845	73.507467193	32.32174	37.23504018	1
## 7697	121	146.746836	81.325255478	175.93855	49.23810324	1
## 7698	190	173.819616	88.812297485	175.93855	56.73638567	1
## 7699	149	109.391819	98.379367877	175.93855	70.64046838	1
## 7700	52	67.124936	105.866409884	175.93855	78.13875081	1
## 7701	32	55.622188	115.614368754	175.93855	84.76755783	1
## 7702	21	44.268527	109.089501316	175.93855	79.93633271	1
## 7703	26	41.779304	122.425888801	175.93855	92.39085813	1
## 7704	35	42.335082	129.912930808	175.93855	99.88914056	1
## 7705	34	62.892585	155.000310876	175.93855	125.54264894	1
## 7706	62	87.915705	162.487352883	175.93855	133.04093137	1
## 7707	165	132.341663	158.223402308	175.93855	127.34023084	1
## 7708	148	134.529608	164.202044084	175.93855	135.41859515	1
## 7709	111	121.391294	192.557063490	175.93855	159.81547526	1
## 7710	127	162.369157	190.474122377	175.93855	148.64405419	1
## 7711	90	125.614004	198.462842139	175.93855	155.94940761	1
## 7712	87	108.735784	229.902928922	316.20792	186.36558254	1
## 7713	39	69.675170	232.545664444	175.93855	188.52111654	1
## 7714	16	21.495560	60.343698282	32.32174	16.06062061	1
## 7715	8	11.939464	68.584940404	32.32174	23.26886210	1
## 7716	6	6.318795	81.247035175	32.32174	40.61467359	1

## 7717	3	5.085747	88.734077182	32.32174	48.11295603	1
## 7718	5	7.315579	115.329857480	32.32174	73.18638253	1
## 7719	17	19.417078	90.924523846	32.32174	48.98229523	1
## 7720	69	76.488544	76.036871707	32.32174	40.16141445	1
## 7721	156	218.903863	90.881659422	175.93855	52.03585798	1
## 7722	323	366.454795	117.728278598	175.93855	77.01281998	1
## 7723	167	190.492648	138.420728309	316.20792	93.84415391	1
## 7724	76	125.035540	145.907770316	316.20792	101.34243635	1
## 7725	116	156.401074	199.932557584	316.20792	148.70422248	1
## 7726	160	186.840729	240.817865455	175.93855	181.72202346	1
## 7727	174	187.099030	238.392661471	175.93855	186.20579167	1
## 7728	213	216.734859	241.208011952	175.93855	183.66296861	1
## 7729	207	204.994681	246.764883374	175.93855	196.53550708	1
## 7730	173	225.539409	230.974228364	175.93855	182.15588057	1
## 7731	163	175.279448	209.787626097	175.93855	171.53032987	1
## 7732	145	258.832338	255.792946579	175.93855	205.17854071	1
## 7733	122	235.204319	256.849057952	175.93855	203.31226403	1
## 7734	68	147.407890	249.647159273	175.93855	197.44170276	1
## 7735	66	110.389206	269.439573160	175.93855	214.97276613	1
## 7736	62	88.480196	261.986835603	175.93855	209.19866937	1
## 7737	51	78.207517	267.965477380	175.93855	217.27703368	1
## 7738	23	40.393926	69.198131669	32.32174	38.91995354	1
## 7739	24	28.126222	79.951129531	32.32174	45.16225512	1
## 7740	22	23.316576	70.488313989	32.32174	40.16116925	1
## 7741	5	10.442218	60.772976087	32.32174	35.25719530	1
## 7742	2	9.413066	82.196442147	32.32174	56.41371497	1
## 7743	11	10.566951	89.934323032	32.32174	63.81553289	1
## 7744	6	20.674058	97.170526162	32.32174	71.41027983	1
## 7745	40	58.168300	62.271132861	175.93855	39.45550926	1
## 7746	46	92.851040	103.305014967	175.93855	77.99424397	1
## 7747	81	135.662884	129.821942909	175.93855	104.39769498	1
## 7748	98	158.276191	151.997925602	175.93855	125.26482112	1
## 7749	142	209.851911	217.416579841	175.93855	179.34970815	1
## 7750	150	216.141565	246.395928944	175.93855	207.75919742	1
## 7751	175	210.438419	266.362012836	175.93855	226.52317337	1
## 7752	168	202.543972	285.374075796	316.20792	242.70102920	1
## 7753	149	201.745951	292.106917687	316.20792	250.48935257	1
## 7754	114	206.718586	293.467624526	316.20792	251.48460803	1
## 7755	74	164.537239	294.300102879	175.93855	257.28931400	1
## 7756	37	110.261290	246.419989938	175.93855	214.26177891	1
## 7757	28	116.384598	239.468930136	175.93855	208.29475313	1
## 7758	31	70.304951	187.644546534	175.93855	159.22474017	1
## 7759	26	55.021319	206.181082551	175.93855	177.23877350	1
## 7760	22	51.041177	213.668124558	175.93855	184.73705594	1
## 7761	21	41.976165	203.251288084	175.93855	177.14984993	1
## 7762	29	30.644021	59.349073331	32.32174	14.52526589	1
## 7763	14	15.107024	64.071837238	32.32174	23.08660016	1
## 7764	10	10.743378	44.720587908	32.32174	4.52385635	1
## 7765	2	5.343402	65.467022727	32.32174	24.64103986	1
## 7766	7	7.873824	78.803410212	32.32174	37.09556528	1
## 7767	5	17.763860	78.681867633	32.32174	40.31415111	1
## 7768	13	67.703119	68.819410458	32.32174	29.56074309	1
## 7769	35	186.950429	74.547213357	175.93855	37.73557191	1
## 7770	74	287.398975	84.295172227	175.93855	44.36437893	1

## 7771	95	214.976454	118.118827816	175.93855	78.11661663	1
## 7772	142	178.148373	151.118332890	175.93855	104.98008410	1
## 7773	226	196.867373	180.348520871	175.93855	133.29310885	1
## 7774	272	241.751901	238.532081344	175.93855	187.20737295	1
## 7775	283	238.256899	272.987285106	316.20792	216.46403154	1
## 7776	272	285.493876	299.583065403	316.20792	241.53745804	1
## 7777	310	319.814670	313.196442579	316.20792	255.53876744	1
## 7778	261	332.177856	307.702764946	316.20792	251.96428537	1
## 7779	184	351.529041	325.234261971	316.20792	270.36482415	1
## 7780	153	299.655890	298.672786123	175.93855	247.01558331	1
## 7781	134	244.828692	242.125064496	175.93855	196.80900750	1
## 7782	95	178.969202	265.160250474	175.93855	217.69931669	1
## 7783	85	135.268733	230.711516867	175.93855	188.52424269	1
## 7784	58	109.314562	233.857613626	175.93855	190.48620025	1
## 7785	33	66.406942	230.546000501	175.93855	187.37226727	1
## 7786	47	74.470820	54.669311026	32.32174	23.79932358	1
## 7787	29	69.487744	56.056168678	32.32174	26.43782754	1
## 7788	23	44.732408	46.895210074	32.32174	18.36765157	1
## 7789	17	23.353215	52.623012973	32.32174	26.54248039	1
## 7790	4	11.221554	60.110054980	32.32174	34.04076282	1
## 7791	3	10.206228	82.615728907	32.32174	53.48139995	1
## 7792	10	19.174542	88.172600330	32.32174	66.35393842	1
## 7793	17	43.973349	59.372336340	175.93855	33.32767668	1
## 7794	60	102.990829	108.465462727	175.93855	78.92580456	1
## 7795	83	132.471604	121.801850212	175.93855	91.38032998	1
## 7796	141	188.605976	122.580343457	175.93855	93.89918637	1
## 7797	230	322.896725	185.513392768	175.93855	150.59326182	1
## 7798	309	344.501833	227.248773446	175.93855	191.81522859	1
## 7799	325	405.993813	261.903798024	175.93855	223.94804826	1
## 7800	299	323.418243	261.132829979	175.93855	227.44204609	1
## 7801	314	340.333914	287.226932521	316.20792	252.70840161	1
## 7802	275	290.369887	272.467467317	175.93855	239.58551815	1
## 7803	184	255.732272	279.954509324	175.93855	247.08380058	1
## 7804	185	239.812513	243.097739581	175.93855	212.92876790	1
## 7805	146	187.976705	223.590469021	175.93855	197.02542568	1
## 7806	141	168.082465	264.147140703	175.93855	237.40098532	1
## 7807	92	107.964798	206.897920503	175.93855	184.51117745	1
## 7808	65	94.457478	227.644355323	175.93855	204.62836097	1
## 7809	69	73.239508	219.911889549	175.93855	191.37685798	1
## 7810	46	71.719951	47.709923386	32.32174	18.91636205	1
## 7811	44	61.421584	55.196965393	32.32174	26.41464449	1
## 7812	31	42.601048	56.834661922	32.32174	28.95668393	1
## 7813	17	26.717072	51.062311117	32.32174	23.83606528	1
## 7814	4	10.282185	60.308592232	32.32174	30.65780132	1
## 7815	5	9.974311	75.151696465	32.32174	42.53289228	1
## 7816	9	20.170066	99.035900205	32.32174	65.69609761	1
## 7817	23	67.089496	96.478487195	175.93855	62.29212370	1
## 7818	42	113.400385	122.120246561	175.93855	84.77943006	1
## 7819	111	154.621778	169.003474146	175.93855	128.27440776	1
## 7820	189	205.160171	176.490516153	175.93855	135.77269019	1
## 7821	240	290.135826	216.821216205	316.20792	171.62884026	1
## 7822	256	327.275614	250.220362913	316.20792	204.24462989	1
## 7823	313	342.266998	247.359409481	316.20792	203.91039348	1
## 7824	313	374.068449	320.335630245	316.20792	265.24760269	1

## 7825	317	399.879429	324.807555274	316.20792	273.90540147	1
## 7826	323	392.184638	294.354110390	316.20792	247.80017975	1
## 7827	204	313.929331	286.147172718	316.20792	242.31612392	1
## 7828	155	241.449842	265.964554399	316.20792	225.37279814	1
## 7829	139	199.861576	259.767694712	175.93855	219.11573141	1
## 7830	104	174.571806	282.445355161	316.20792	239.78992854	1
## 7831	88	117.986826	275.746817719	175.93855	233.72579083	1
## 7832	66	87.595918	271.681004478	175.93855	230.90189879	1
## 7833	32	65.522451	279.168046485	175.93855	238.40018122	1
## 7834	16	27.158128	94.245325384	32.32174	41.38656273	1
## 7835	13	14.689829	101.983206268	32.32174	48.78838066	1
## 7836	5	6.633083	85.543180111	32.32174	36.17702051	1
## 7837	4	7.709378	104.028698068	32.32174	57.16367943	1
## 7838	34	28.051153	87.259154878	32.32174	44.81380686	1
## 7839	104	102.718911	113.153436604	32.32174	67.20400130	1
## 7840	277	312.877791	105.872685568	175.93855	62.66346453	1
## 7841	407	408.344462	98.421003055	175.93855	62.82063741	1
## 7842	208	217.392279	128.786100446	175.93855	86.44450662	1
## 7843	107	151.170052	170.772320002	175.93855	127.57000889	1
## 7844	118	169.889569	209.345464429	316.20792	164.10205793	1
## 7845	178	208.619371	247.889719517	316.20792	193.06023626	1
## 7846	162	205.332101	266.627131395	316.20792	219.88170031	1
## 7847	143	210.823033	281.642850588	316.20792	227.05843420	1
## 7848	150	198.543255	277.205230009	316.20792	220.12482109	1
## 7849	264	304.023723	279.344604293	316.20792	222.47393152	1
## 7850	468	476.031709	301.520586986	316.20792	243.34105766	1
## 7851	416	470.037173	285.982454336	316.20792	228.86431923	1
## 7852	264	328.630925	267.731061646	316.20792	212.47800705	1
## 7853	218	255.439019	274.040449701	316.20792	225.06115199	1
## 7854	156	184.392857	272.186218745	316.20792	224.33976272	1
## 7855	109	135.431607	258.554444476	316.20792	215.03591198	1
## 7856	46	83.738272	266.543164238	316.20792	222.34126539	1
## 7857	22	31.555416	93.759612920	32.32174	45.47245334	1
## 7858	17	20.794739	102.755055157	32.32174	52.39065389	1
## 7859	5	8.627929	90.155525738	32.32174	50.27481584	1
## 7860	2	6.922233	97.642567745	32.32174	57.77309827	1
## 7861	6	7.930127	127.557005442	32.32174	78.61727092	1
## 7862	22	25.926024	119.070339553	32.32174	65.65580888	1
## 7863	89	99.302027	143.456221048	32.32174	88.62608520	1
## 7864	342	357.766115	163.197616875	316.20792	109.12977416	1
## 7865	449	448.266591	177.539043353	316.20792	121.19779413	1
## 7866	202	167.933399	198.617279495	316.20792	151.75102791	1
## 7867	36	126.764942	206.104321502	316.20792	159.24931035	1
## 7868	11	52.855172	160.884767058	316.20792	121.10462201	1
## 7869	18	55.759520	160.243897950	175.93855	120.62382268	1
## 7870	22	73.572953	176.519517104	175.93855	139.50733142	1
## 7871	36	61.118498	139.080533768	175.93855	106.87589968	1
## 7872	65	77.465740	164.299467735	175.93855	128.22611056	1
## 7873	151	131.271813	170.027270634	175.93855	136.40093938	1
## 7874	354	346.658874	180.449522219	175.93855	138.13846033	1
## 7875	358	344.952569	198.986058236	175.93855	156.15249366	1
## 7876	250	270.386096	206.976461481	175.93855	163.45719966	1
## 7877	184	190.671695	196.307102646	175.93855	155.96710558	1
## 7878	125	139.359949	203.794144653	175.93855	163.46538801	1

## 7879	95	113.208859	224.764212493	175.93855	175.91158888	1
## 7880	53	73.125224	241.169702065	175.93855	190.49244753	1
## 7881	24	32.512406	100.407996887	32.32174	47.28312510	1
## 7882	8	13.947711	91.699381459	32.32174	41.99199829	1
## 7883	5	7.355278	81.733204679	32.32174	37.18448885	1
## 7884	1	5.093517	89.220246687	32.32174	44.68277129	1
## 7885	5	7.593417	80.813488198	32.32174	36.32255438	1
## 7886	22	24.914519	68.688430677	32.32174	26.43926917	1
## 7887	103	80.745771	55.560017645	32.32174	16.94184200	1
## 7888	285	249.935294	76.306452465	175.93855	37.05902552	1
## 7889	478	391.222009	91.149556698	175.93855	48.93411647	1
## 7890	193	221.814539	119.253737226	175.93855	73.42746109	1
## 7891	110	159.422939	157.323520415	175.93855	110.15308657	1
## 7892	122	181.721103	204.283916874	175.93855	152.31868718	1
## 7893	160	192.236338	206.201341620	175.93855	162.33813284	1
## 7894	147	175.586574	242.892594996	175.93855	195.34119010	1
## 7895	112	170.252063	250.379637003	175.93855	202.83947254	1
## 7896	115	186.284750	246.565291078	175.93855	193.98719893	1
## 7897	226	298.157050	253.298132970	175.93855	201.77552230	1
## 7898	380	421.380649	247.381001500	175.93855	202.99586179	1
## 7899	376	445.471905	256.547375215	175.93855	205.21635270	1
## 7900	279	320.597273	238.072349504	175.93855	196.50102317	1
## 7901	190	218.939865	245.559391511	175.93855	203.99930560	1
## 7902	135	158.545760	265.324599542	175.93855	213.95585084	1
## 7903	87	119.351744	258.824199434	175.93855	210.76852162	1
## 7904	50	83.772211	269.050652294	175.93855	221.81962630	1
## 7905	20	35.516285	97.771731699	32.32174	49.59644107	1
## 7906	10	16.458667	80.976037696	32.32174	35.60332001	1
## 7907	9	12.500048	97.553513789	32.32174	51.41773865	1
## 7908	7	9.216168	104.286355681	32.32174	59.20606203	1
## 7909	1	7.943473	112.276758925	32.32174	66.51076803	1
## 7910	24	24.748895	119.260439695	32.32174	74.20262689	1
## 7911	97	96.567524	101.512408242	32.32174	57.62273828	1
## 7912	276	317.482256	110.255328120	175.93855	64.63805075	1
## 7913	477	479.598468	134.139531860	175.93855	87.80125609	1
## 7914	224	234.697354	171.004455240	175.93855	122.03722594	1
## 7915	93	151.945572	181.627582686	175.93855	132.58217761	1
## 7916	102	151.313646	203.049365264	175.93855	153.73934469	1
## 7917	148	193.735888	222.513771401	175.93855	172.69624966	1
## 7918	154	181.839164	254.958897177	175.93855	202.72591915	1
## 7919	150	177.161405	262.445939184	175.93855	210.22420158	1
## 7920	154	183.332133	269.932981191	175.93855	217.72248401	1
## 7921	201	258.597268	276.916661960	175.93855	225.41434288	1
## 7922	418	424.662044	258.440581206	175.93855	210.76774370	1
## 7923	405	413.210579	272.055641864	175.93855	224.76840569	1
## 7924	228	283.878853	267.063641986	175.93855	221.00099460	1
## 7925	190	219.053600	274.550683993	175.93855	228.49927703	1
## 7926	162	163.814395	237.190553013	175.93855	194.53782078	1
## 7927	104	122.386841	242.918355912	175.93855	202.71264960	1
## 7928	73	80.744762	220.326017974	175.93855	180.79001256	1
## 7929	38	35.128289	48.124051812	32.32174	8.32951663	1
## 7930	15	13.690595	37.203854101	32.32174	0.93588705	1
## 7931	10	9.604351	44.690896108	32.32174	8.43416948	1
## 7932	1	5.747552	35.279098626	32.32174	0.46045803	1

## 7933	3	5.756324	42.766140633	32.32174	7.95874046	1
## 7934	23	22.846345	51.761582870	32.32174	14.87694101	1
## 7935	87	79.594070	57.740224647	32.32174	22.95530532	1
## 7936	205	261.770533	51.266375270	175.93855	15.15145461	1
## 7937	445	417.353567	63.094362525	175.93855	28.18606191	1
## 7938	246	250.034001	95.539488301	175.93855	58.21573139	1
## 7939	105	154.073529	125.904585692	175.93855	81.83960061	1
## 7940	160	188.288642	163.974368881	175.93855	118.56522609	1
## 7941	204	212.760283	196.696484348	175.93855	150.14167956	1
## 7942	207	226.149019	237.981205332	175.93855	188.58394977	1
## 7943	170	214.386954	257.445611468	175.93855	207.54085474	1
## 7944	199	236.390245	271.311511004	175.93855	221.44505222	1
## 7945	276	294.251436	278.798553011	175.93855	228.94333466	1
## 7946	411	404.026545	291.406891194	175.93855	243.33114951	1
## 7947	372	373.927814	266.525802098	175.93855	220.63538679	1
## 7948	265	309.041058	254.106106112	175.93855	205.31300342	1
## 7949	190	221.893069	302.523884740	175.93855	249.87114774	1
## 7950	111	150.407233	276.914746342	175.93855	229.10867445	1
## 7951	102	121.874962	269.712847663	175.93855	223.23811318	1
## 7952	95	104.227230	278.708289900	175.93855	230.15631373	1
## 7953	75	69.475730	89.849197304	32.32174	55.51125294	1
## 7954	71	66.617434	64.743420143	32.32174	34.55520323	1
## 7955	50	49.980287	71.728784395	32.32174	42.24641468	1
## 7956	9	14.575383	61.813625676	32.32174	34.46627965	1
## 7957	8	9.456234	52.401828194	32.32174	26.49256819	1
## 7958	6	9.871812	76.035193057	32.32174	49.75223804	1
## 7959	11	14.804174	94.822567952	32.32174	67.66980687	1
## 7960	26	43.145805	74.110437583	175.93855	49.27680902	1
## 7961	63	81.461544	87.446825068	175.93855	61.73133443	1
## 7962	124	144.246032	112.083545441	175.93855	84.60514625	1
## 7963	195	228.233307	157.509390857	175.93855	125.70758024	1
## 7964	275	262.974969	173.083511439	175.93855	141.90785692	1
## 7965	358	336.724273	206.230135787	175.93855	174.62075847	1
## 7966	292	325.123116	215.225578024	175.93855	181.53895902	1
## 7967	343	332.168953	230.043815010	175.93855	198.02992405	1
## 7968	337	357.454508	243.380202495	175.93855	210.48444947	1
## 7969	305	327.653014	250.867244502	175.93855	217.98273190	1
## 7970	232	256.715268	217.146560197	175.93855	186.87436846	1
## 7971	224	245.714742	240.934262808	175.93855	207.47528412	1
## 7972	175	177.695481	218.290906809	175.93855	188.52527267	1
## 7973	127	139.078045	225.777948816	175.93855	196.02355510	1
## 7974	109	122.548785	231.585659116	175.93855	208.79962906	1
## 7975	114	124.159214	244.922046601	175.93855	221.25415447	1
## 7976	85	89.948469	229.102502251	175.93855	199.30065724	1
## 7977	83	83.780614	56.398858334	32.32174	27.03309033	1
## 7978	74	72.343032	52.585567453	32.32174	24.11208637	1
## 7979	62	55.879260	33.606125461	32.32174	9.65906363	1
## 7980	41	29.122737	60.201905759	32.32174	34.73249013	1
## 7981	11	11.419501	35.320816663	32.32174	12.03672741	1
## 7982	4	12.597989	56.067251482	32.32174	32.15391092	1
## 7983	4	14.777853	31.186162386	32.32174	9.45814820	1
## 7984	26	49.630744	57.781942684	175.93855	34.53157470	1
## 7985	55	82.662797	65.268984691	175.93855	42.02985713	1
## 7986	126	159.583412	97.714110467	175.93855	72.05952662	1

## 7987	216	237.029192	113.311414815	175.93855	83.64457663	1
## 7988	254	290.951982	127.151163538	175.93855	95.90552562	1
## 7989	329	325.945750	140.487551023	175.93855	108.36005104	1
## 7990	357	377.025313	193.826805011	175.93855	156.93156670	1
## 7991	323	354.584930	214.494387474	175.93855	178.37877472	1
## 7992	296	350.974916	222.986468474	175.93855	185.49055170	1
## 7993	330	344.498758	239.816466927	175.93855	201.20785842	1
## 7994	245	267.580356	194.318239310	175.93855	161.51703351	1
## 7995	171	218.373593	210.593858464	175.93855	180.40054225	1
## 7996	173	192.912568	207.031406461	175.93855	177.38307378	1
## 7997	124	138.045150	210.930019853	175.93855	179.05563782	1
## 7998	72	102.237855	206.865890094	175.93855	176.23109837	1
## 7999	64	81.441907	195.244193810	175.93855	166.15423673	1
## 8000	45	63.723987	202.731235817	175.93855	173.65251917	1
## 8001	24	23.903279	28.103808612	32.32174	-12.55530748	1
## 8002	12	12.5556843	34.082450388	32.32174	-4.47694317	1
## 8003	8	8.290666	41.569492396	32.32174	3.02133926	1
## 8004	2	6.897427	49.056534403	32.32174	10.51962169	1
## 8005	7	10.050796	52.453470039	32.32174	12.38511475	1
## 8006	25	25.312020	59.940512046	32.32174	19.88339718	1
## 8007	90	95.053199	53.917322363	32.32174	14.85924304	1
## 8008	283	311.092178	72.375006025	175.93855	34.20330088	1
## 8009	404	466.131370	73.232351625	175.93855	35.39213277	1
## 8010	190	206.306025	105.506545924	175.93855	70.11951190	1
## 8011	87	145.685492	112.993587931	175.93855	77.61779433	1
## 8012	123	154.183295	120.480629938	175.93855	85.11607677	1
## 8013	154	184.110168	164.226088602	175.93855	125.56503264	1
## 8014	171	189.056009	188.361131220	175.93855	148.63177347	1
## 8015	133	185.729379	214.878059162	175.93855	175.03522448	1
## 8016	148	188.245162	212.824007389	175.93855	171.43767413	1
## 8017	248	344.227335	253.578161278	316.20792	202.49900263	1
## 8018	446	387.757477	205.220837913	175.93855	161.30829247	1
## 8019	399	374.703959	218.557225398	175.93855	173.76281789	1
## 8020	308	308.268799	230.214281176	175.93855	191.49513483	1
## 8021	205	226.402990	228.411068281	175.93855	187.80111997	1
## 8022	176	165.154635	216.538533120	175.93855	177.82072285	1
## 8023	106	114.003682	224.778091759	175.93855	185.02961175	1
## 8024	62	85.762684	238.114479245	175.93855	197.48413717	1
## 8025	28	33.227714	104.684368962	32.32174	57.00772736	1
## 8026	16	16.209455	76.163833190	32.32174	31.45887183	1
## 8027	3	6.939527	84.101534891	32.32174	41.73685083	1
## 8028	3	5.840024	91.588576899	32.32174	49.23513327	1
## 8029	7	8.378430	95.689749634	32.32174	59.71448061	1
## 8030	20	18.083633	103.176791641	32.32174	67.21276304	1
## 8031	86	92.754359	94.239466057	32.32174	51.47160443	1
## 8032	234	290.500808	106.067453312	175.93855	64.50621173	1
## 8033	414	420.544775	113.554495319	175.93855	72.00449416	1
## 8034	204	223.947778	121.544898564	175.93855	79.30920016	1
## 8035	50	70.925678	128.357647856	175.93855	91.69876867	1
## 8036	32	76.097671	135.341328626	175.93855	99.39062753	1
## 8037	55	98.335063	129.067300065	175.93855	94.46293790	1
## 8038	71	67.369213	136.050980835	175.93855	102.15479676	1
## 8039	75	94.776127	149.890729558	175.93855	114.41574575	1
## 8040	45	71.069203	162.723755805	316.20792	127.06384760	1

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## 8041      88 114.615912 159.517145849 175.93855 124.26313861      1
## 8042     262 290.981398 168.181841808 175.93855 126.67655853      1
## 8043     304 346.776869 176.673922807 175.93855 133.78833552      1
## 8044     233 154.172625 182.732471985 175.93855 146.46794497      1
## 8045     110 127.346391 190.219513992 175.93855 153.96622740      1
## 8046     114 148.467115 191.777303120 175.93855 151.90702171      1
## 8047      87  73.161056 202.932681143 175.93855 169.83226767      1
## 8048      53  63.130534 210.419723150 175.93855 177.33055010      1
## 8049      33  31.645048 36.228752679 32.32174 -10.83470089      1
## 8050      13  15.477169 48.890847450 32.32174  6.51111061      1
## 8051       6   6.893875 54.196879995 32.32174 19.48011358      1
## 8052       3   5.552452 61.683922002 32.32174 26.97839602      1
## 8053       1   4.982420 68.165925016 32.32174 34.86318390      1
## 8054       3   9.613542 75.652967023 32.32174 42.36146633      1
## 8055      18  47.805392 93.260349357 32.32174 53.17350544      1
## 8056      46 103.555178 83.772666566 175.93855 52.78829365      1
## 8057      86 126.037599 89.500469466 175.93855 60.96312247      1
## 8058      64  98.351937 101.258506321 175.93855 66.81891860      1
## 8059      33  52.150731 105.982953710 175.93855 75.37960546      1
## 8060      50  51.651544 113.469995717 175.93855 82.87788789      1
## 8061      33  55.705559 121.709554357 175.93855 90.08677679      1
## 8062      33  61.522693 130.201635357 175.93855 97.19855378      1
## 8063      25  55.695332 137.688677364 175.93855 104.69683621      1
## 8064      30  78.111639 153.089127942 175.93855 119.66420031      1
## 8065      31  87.434205 160.072808712 175.93855 127.35605917      1
## 8066      52 105.509604 150.713712774 175.93855 116.40907471      1
## 8067      51 119.235115 170.956786356 175.93855 136.71983466      1
## 8068      33  58.780655 182.144478621 175.93855 141.84887121      1
## 8069      26  46.081466 189.631520628 175.93855 149.34715365      1
## 8070       6  33.307461 183.409793693 175.93855 147.70596100      1
## 8071      13  30.038631 158.833528583 175.93855 128.19958335      1
## 8072      16  63.445632 168.674195012 175.93855 125.52878818      1
## 8073      21  29.137584 12.393235203 32.32174 -23.49869028      1
## 8074       7  16.594328 35.824040722 32.32174 -9.04580374      1
## 8075       4   8.972608 82.257892178 32.32174 37.92859997      1
## 8076       1   7.128933 96.200960587 32.32174 50.50342036      1
## 8077       2   8.019848 98.923603510 32.32174 57.26019950      1
## 8078      12  23.220151 89.380880567 32.32174 47.65786849      1
## 8079      71  91.141135 117.762050785 32.32174 73.69799710      1
## 8080     244 313.672769 113.194559789 175.93855 71.06703408      1
## 8081     429 464.297936 132.736134799 175.93855 88.69456196      1
## 8082     225 250.837496 154.461457798 175.93855 106.78199153      1
## 8083     110 156.745893 166.792806291 175.93855 119.62302240      1
## 8084     106 161.020274 178.871632424 175.93855 132.56116519      1
## 8085     156 163.860776 187.616235783 175.93855 139.57583025      1
## 8086     124 163.966295 208.083997430 175.93855 158.14687719      1
## 8087     137 163.224699 228.500741016 175.93855 179.69054972      1
## 8088     117 186.031512 233.977705037 175.93855 187.96184305      1
## 8089     208 263.733376 242.469786037 175.93855 195.07362003      1
## 8090     331 387.086664 233.761170610 175.93855 189.78249322      1
## 8091     318 342.916222 230.779248718 175.93855 185.24207123      1
## 8092     232 254.784074 221.567272053 175.93855 180.14452085      1
## 8093     175 193.098612 220.214718852 175.93855 179.23020256      1
## 8094     139 159.712350 231.090368657 175.93855 189.67804230      1

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## 8095	92	114.772425	224.640986610	175.93855	183.51808750	1
## 8096	61	74.323744	214.727511374	175.93855	175.73730506	1
## 8097	34	31.551228	51.815800114	32.32174	14.46910642	1
## 8098	14	15.647548	59.302842121	32.32174	21.96738885	1
## 8099	12	10.661316	55.740390118	32.32174	18.94992038	1
## 8100	6	5.747552	35.279098626	32.32174	0.46045803	1
## 8101	2	5.756324	42.766140633	32.32174	7.95874046	1
## 8102	20	20.777650	50.253182640	32.32174	15.45702289	1
## 8103	63	78.606328	59.248624877	32.32174	22.37522344	1
## 8104	199	256.558623	77.785160895	175.93855	40.38925678	1
## 8105	385	380.548944	76.353755337	175.93855	40.80496299	1
## 8106	264	263.294311	91.198543053	175.93855	52.67940653	1
## 8107	126	162.937488	134.269709002	175.93855	98.01964849	1
## 8108	136	159.839141	150.792144943	175.93855	104.61694791	1
## 8109	173	190.887638	199.460762448	175.93855	149.07862772	1
## 8110	168	218.738405	226.507202440	175.93855	176.93175079	1
## 8111	187	196.523033	244.342239886	175.93855	192.26255206	1
## 8112	189	202.241197	251.829281893	175.93855	199.76083450	1
## 8113	250	292.057887	215.595158365	175.93855	169.61905838	1
## 8114	362	374.361624	207.891581931	175.93855	163.94142612	1
## 8115	318	341.174601	224.668878840	175.93855	182.63200585	1
## 8116	199	263.632317	232.155920848	175.93855	190.13028828	1
## 8117	150	178.509699	183.746295857	175.93855	145.65308113	1
## 8118	140	157.385196	204.492730676	175.93855	165.77026464	1
## 8119	129	128.335325	179.611641580	175.93855	143.07450192	1
## 8120	94	104.163538	200.358076400	175.93855	163.19168544	1
## 8121	77	84.329529	18.711948848	32.32174	-0.73625610	1
## 8122	66	70.585554	51.512916670	32.32174	29.51017287	1
## 8123	60	54.982805	83.482515504	32.32174	61.37601987	1
## 8124	25	26.982063	90.969557511	32.32174	68.87430230	1
## 8125	3	8.594784	84.018497709	32.32174	62.90727651	1
## 8126	6	10.189901	105.239404427	32.32174	75.25701287	1
## 8127	11	14.804174	94.822567952	32.32174	67.66980687	1
## 8128	11	40.514093	103.816326707	175.93855	74.58865483	1
## 8129	73	95.385383	116.147675200	175.93855	87.42968570	1
## 8130	149	156.936473	140.837097116	175.93855	107.33022451	1
## 8131	192	211.209202	168.359064050	175.93855	133.34717007	1
## 8132	236	243.740612	187.449979366	175.93855	148.19500138	1
## 8133	283	249.769924	212.616211790	175.93855	172.51848526	1
## 8134	286	279.383639	250.261486098	175.93855	208.10766266	1
## 8135	293	278.577913	262.871507763	175.93855	222.49483010	1
## 8136	299	278.243781	264.230531119	175.93855	223.49073297	1
## 8137	241	250.207750	273.001285292	175.93855	232.14864653	1
## 8138	185	185.671523	256.735103340	175.93855	219.60519753	1
## 8139	172	170.063469	252.193763156	175.93855	218.61748301	1
## 8140	154	154.547517	260.685844156	175.93855	225.72925999	1
## 8141	124	127.758605	267.948198099	175.93855	234.96725543	1
## 8142	83	86.989985	249.696805409	175.93855	218.58094325	1
## 8143	95	89.790378	262.305143592	175.93855	232.96875810	1
## 8144	66	70.803726	251.186808546	175.93855	222.69832003	1
## 8145	74	60.394065	71.150286168	32.32174	41.43871793	1
## 8146	62	56.879410	49.259446802	32.32174	22.19931295	1
## 8147	52	46.193540	71.937107251	32.32174	42.87351007	1
## 8148	19	17.421392	62.725130586	32.32174	37.77595969	1

## 8149	5	10.401595	70.715533830	32.32174	45.08066569	1
## 8150	6	8.614259	83.046882323	32.32174	57.92169656	1
## 8151	10	13.415975	82.925339744	32.32174	61.14028239	1
## 8152	31	51.603421	105.101322438	175.93855	82.00740853	1
## 8153	72	74.563314	75.800435737	175.93855	55.10534545	1
## 8154	107	108.479305	117.085156722	175.93855	93.54761566	1
## 8155	194	181.956430	169.419371716	175.93855	142.50563677	1
## 8156	197	225.661316	202.644848420	175.93855	173.88851381	1
## 8157	288	238.327764	210.131890427	175.93855	181.38679624	1
## 8158	268	253.794745	238.157218599	175.93855	207.21016537	1
## 8159	242	248.726957	252.273957012	175.93855	221.01789834	1
## 8160	266	247.368816	264.180796623	175.93855	232.72248113	1
## 8161	206	236.131309	271.667838631	175.93855	240.22076357	1
## 8162	163	185.226492	264.465939951	175.93855	234.35020229	1
## 8163	163	152.671546	223.742068420	175.93855	192.82331465	1
## 8164	105	120.955399	209.910473334	175.93855	180.64330283	1
## 8165	72	93.837138	215.890798593	175.93855	188.72101973	1
## 8166	63	76.506216	221.618601493	175.93855	196.89584855	1
## 8167	43	66.981521	229.105643500	175.93855	204.39413098	1
## 8168	35	56.208823	199.804756800	175.93855	177.49206790	1
## 8169	20	26.157092	32.785914180	32.32174	-4.43606215	1
## 8170	9	12.219852	38.764555957	32.32174	3.64230216	1
## 8171	4	8.111268	46.251597964	32.32174	11.14058459	1
## 8172	2	4.855353	36.839800482	32.32174	3.16687314	1
## 8173	3	5.195185	44.326842489	32.32174	10.66515557	1
## 8174	21	23.367335	32.705146205	32.32174	0.58829393	1
## 8175	64	78.775340	41.951427320	32.32174	7.41002998	1
## 8176	235	254.650774	30.831408792	175.93855	-2.85976068	1
## 8177	385	415.763624	55.246179627	175.93855	27.68438636	1
## 8178	220	257.107631	81.591121047	175.93855	52.85427737	1
## 8179	105	170.455848	112.077186899	175.93855	80.68433217	1
## 8180	115	171.311599	150.901170203	175.93855	117.11991671	1
## 8181	145	180.782781	183.846918690	175.93855	141.02538753	1
## 8182	166	176.009695	195.503974468	175.93855	158.75770448	1
## 8183	111	162.428737	207.132140906	175.93855	168.91615070	1
## 8184	132	170.676457	205.277909950	175.93855	168.19476142	1
## 8185	214	244.387590	212.514113079	175.93855	175.78950836	1
## 8186	359	346.554199	214.853308180	175.93855	181.01477987	1
## 8187	357	341.123375	225.528082125	175.93855	182.65518890	1
## 8188	241	256.167178	216.116284643	175.93855	174.68147744	1
## 8189	165	206.922547	240.502166139	175.93855	197.65175376	1
## 8190	121	138.568593	179.534646907	175.93855	143.23887759	1
## 8191	71	102.980796	211.330575737	175.93855	173.87181201	1
## 8192	45	79.210734	201.918778256	175.93855	165.89810055	1
## 8193	17	20.370047	12.817972605	32.32174	-22.03438927	1
## 8194	4	9.400600	14.455669134	32.32174	-19.49234982	1
## 8195	2	6.054178	21.942711141	32.32174	-11.99406739	1
## 8196	3	5.350021	23.580407670	32.32174	-9.45202795	1
## 8197	4	5.798016	36.916795155	32.32174	3.00249747	1
## 8198	20	22.754030	25.295098871	32.32174	-7.07436417	1
## 8199	92	80.327947	51.890879169	32.32174	17.99906234	1
## 8200	223	261.368810	50.443508320	175.93855	14.52180696	1
## 8201	400	491.729982	92.933089114	175.93855	55.45373280	1
## 8202	233	270.660072	138.862295767	175.93855	96.36259036	1

## 8203	102	159.642434	175.727219147	175.93855	130.59856021	1
## 8204	124	154.452124	209.679061671	175.93855	160.04879523	1
## 8205	167	198.782482	231.404384670	175.93855	178.13622480	1
## 8206	127	178.306029	263.347832691	175.93855	208.35882330	1
## 8207	134	172.422726	269.577313345	175.93855	216.34072310	1
## 8208	151	191.589922	281.484152956	175.93855	228.04530590	1
## 8209	207	254.602880	278.702051881	175.93855	226.38104498	1
## 8210	398	403.425701	272.705013011	175.93855	223.00013934	1
## 8211	382	403.202135	270.426273173	175.93855	221.14230199	1
## 8212	267	313.621180	255.589639095	175.93855	209.34879562	1
## 8213	161	216.048489	263.076681102	175.93855	216.84707805	1
## 8214	139	161.410094	258.084681224	175.93855	213.07966696	1
## 8215	107	115.068943	265.571723231	175.93855	220.57794939	1
## 8216	59	77.380030	218.817617744	175.93855	181.37009444	1
## 8217	22	23.898271	35.566157572	32.32174	-1.60615240	1
## 8218	8	12.868381	43.053199579	32.32174	5.89213004	1
## 8219	2	7.550777	50.540241586	32.32174	13.39041247	1
## 8220	3	7.113480	85.975617092	32.32174	46.87643969	1
## 8221	4	6.387478	65.514325600	32.32174	28.38697733	1
## 8222	26	25.682220	58.062643087	32.32174	28.54415021	1
## 8223	87	86.595474	52.290292282	32.32174	23.42353156	1
## 8224	247	266.588044	93.824797099	175.93855	55.83806761	1
## 8225	467	423.154702	67.264376296	175.93855	38.42009642	1
## 8226	239	256.553080	143.907478113	175.93855	110.51276951	1
## 8227	142	167.243671	166.083460807	175.93855	131.37989565	1
## 8228	115	170.152177	183.839645896	175.93855	148.04072143	1
## 8229	144	174.178356	194.264636008	175.93855	155.70886461	1
## 8230	133	178.776781	202.002516892	175.93855	163.11068253	1
## 8231	151	183.845218	221.717761906	175.93855	181.97112300	1
## 8232	167	192.013342	229.455642791	175.93855	189.37294092	1
## 8233	245	280.611241	236.942684798	175.93855	196.87122336	1
## 8234	396	385.519671	231.950684921	175.93855	193.10381226	1
## 8235	390	385.552936	229.393271910	175.93855	189.69983834	1
## 8236	268	281.670550	235.875274924	175.93855	197.58462622	1
## 8237	175	203.253136	228.673376245	175.93855	191.71406495	1
## 8238	154	161.947895	237.165457245	175.93855	198.82584193	1
## 8239	104	116.342626	246.331830959	175.93855	201.04633283	1
## 8240	51	77.596277	239.129932279	175.93855	195.17577156	1
## 8241	50	39.104010	66.927966117	32.32174	22.71527563	1
## 8242	20	17.666994	72.735676417	32.32174	35.49134959	1
## 8243	7	8.576491	79.719357187	32.32174	43.18320845	1
## 8244	3	6.545222	87.206399194	32.32174	50.68149088	1
## 8245	6	8.359794	96.201841431	32.32174	57.59969143	1
## 8246	24	25.616704	104.693922431	32.32174	64.71146842	1
## 8247	92	98.752061	121.191491123	32.32174	75.92464192	1
## 8248	258	293.169494	119.838937922	175.93855	75.01032363	1
## 8249	457	473.775308	140.838950146	175.93855	100.96166487	1
## 8250	280	270.073154	164.019971832	175.93855	121.44228556	1
## 8251	109	168.216065	192.296138881	175.93855	147.16919017	1
## 8252	135	169.564492	192.953663665	175.93855	145.48186099	1
## 8253	157	181.487997	225.874316384	175.93855	173.67535296	1
## 8254	164	178.602957	251.638727692	316.20792	200.36819749	1
## 8255	132	174.694392	271.103133829	316.20792	219.32510247	1
## 8256	82	160.411319	268.521908614	316.20792	226.46827227	1

## 8257	131	167.513912	219.887595559	175.93855	183.73077813	1
## 8258	324	390.729225	277.340768120	316.20792	227.38793944	1
## 8259	377	381.299264	285.078649005	316.20792	234.78975736	1
## 8260	287	320.951998	292.314852134	316.20792	242.38450431	1
## 8261	221	275.301146	302.235425964	316.20792	244.31495427	1
## 8262	155	186.070308	294.530166047	316.20792	238.63796943	1
## 8263	124	140.465690	308.369914769	316.20792	250.89891841	1
## 8264	114	121.109829	315.856956777	316.20792	258.39720085	1
## 8265	72	50.793372	117.916555918	32.32174	62.05211031	1
## 8266	31	29.059392	123.644358817	32.32174	70.22693912	1
## 8267	23	18.991347	112.222483350	32.32174	63.02623857	1
## 8268	5	8.507333	103.312363623	32.32174	54.85959809	1
## 8269	5	15.629790	172.651476320	32.32174	125.53410672	1
## 8270	26	36.686976	212.384625925	32.32174	153.08897908	1
## 8271	82	99.955824	229.294131861	32.32174	179.66730093	1
## 8272	231	302.876447	190.504453007	175.93855	144.95590206	1
## 8273	459	442.146597	195.831559228	175.93855	141.44713908	1
## 8274	243	261.176902	202.816923480	175.93855	149.13835053	1
## 8275	132	152.569558	202.946219779	175.93855	152.26047186	1
## 8276	144	165.321542	217.593525287	175.93855	173.44914654	1
## 8277	173	168.930193	226.085606287	175.93855	180.56092352	1
## 8278	137	171.301234	240.202344700	175.93855	194.36865649	1
## 8279	128	176.627887	238.798773438	175.93855	196.42696379	1
## 8280	153	175.347906	235.062651431	175.93855	192.17658274	1
## 8281	224	260.063458	241.293815567	175.93855	200.15783512	1
## 8282	365	359.465732	249.785896567	175.93855	207.26961211	1
## 8283	295	344.111174	256.769577337	175.93855	214.96147097	1
## 8284	214	277.596431	263.754941588	175.93855	222.65268242	1
## 8285	152	191.420314	270.738622358	175.93855	230.34454128	1
## 8286	102	137.740348	277.723986610	175.93855	238.03575273	1
## 8287	106	119.353906	270.522087930	175.93855	232.16519146	1
## 8288	75	96.434557	277.505768700	175.93855	239.85705032	1
## 8289	62	63.253355	105.821850156	32.32174	70.03972777	1
## 8290	43	55.705548	104.496502812	32.32174	76.69992762	1
## 8291	58	52.273029	96.792926377	32.32174	71.02229536	1
## 8292	26	20.520478	90.766998168	32.32174	60.06751899	1
## 8293	9	10.638184	80.853522931	32.32174	52.28673655	1
## 8294	9	12.103013	104.061750474	32.32174	80.34187538	1
## 8295	17	22.477149	121.896787920	32.32174	95.67267666	1
## 8296	20	49.951815	128.378790934	175.93855	103.55746454	1
## 8297	59	83.987104	135.865832941	175.93855	111.05574697	1
## 8298	100	126.619207	143.854552704	175.93855	118.36110038	1
## 8299	181	174.603730	160.684551157	175.93855	134.07840710	1
## 8300	209	213.315169	190.244430371	175.93855	160.96494285	1
## 8301	244	224.602605	196.977272263	175.93855	168.75326622	1
## 8302	236	223.066526	197.331256627	175.93855	170.13567454	1
## 8303	237	226.187626	214.886565855	175.93855	177.98906960	1
## 8304	228	223.142497	221.117729992	175.93855	185.97032199	1
## 8305	222	218.441340	227.599733006	175.93855	193.85510987	1
## 8306	165	169.231485	222.607733129	175.93855	190.08769877	1
## 8307	157	162.601728	232.859053236	175.93855	196.52292937	1
## 8308	106	125.582782	192.564767723	175.93855	174.25350425	1
## 8309	106	108.600586	187.463971105	175.93855	158.31097729	1
## 8310	96	92.225172	174.335558073	175.93855	148.81355012	1

## 8311	80	75.875099	181.822600081	175.93855	156.31183255	1
## 8312	69	60.931968	186.545363987	175.93855	164.87316682	1
## 8313	71	61.404747	16.604314688	32.32174	-8.45680452	1
## 8314	46	53.270688	36.849071752	32.32174	11.85330801	1
## 8315	41	42.774885	81.124042467	32.32174	53.75193596	1
## 8316	18	16.881157	90.621162459	32.32174	60.47720749	1
## 8317	1	9.433275	98.108204466	32.32174	67.97548992	1
## 8318	5	8.396544	88.896227801	32.32174	62.87793954	1
## 8319	3	12.640039	96.884947563	32.32174	70.18329296	1
## 8320	12	42.353574	104.875350808	175.93855	77.48799896	1
## 8321	32	75.356028	87.499126694	175.93855	65.01783142	1
## 8322	81	110.122871	114.649286290	175.93855	86.92505591	1
## 8323	129	149.844546	138.331985731	175.93855	107.21274758	1
## 8324	188	179.716316	143.638018276	175.93855	120.18175056	1
## 8325	228	198.786402	158.653737469	175.93855	127.35848445	1
## 8326	228	228.607963	203.404235125	175.93855	167.42093488	1
## 8327	219	228.102626	210.640438255	175.93855	175.01568182	1
## 8328	207	227.642781	232.816420948	175.93855	195.88280796	1
## 8329	234	218.729048	221.471714355	175.93855	187.35273031	1
## 8330	136	170.621113	231.871837218	175.93855	199.63674757	1
## 8331	138	168.185163	242.070455783	175.93855	209.04525116	1
## 8332	135	145.692931	227.233821704	175.93855	197.25174479	1
## 8333	104	110.313015	210.690650061	175.93855	183.16151181	1
## 8334	89	87.293423	201.729512274	175.93855	177.96749692	1
## 8335	49	70.538941	188.173623314	175.93855	161.07514652	1
## 8336	37	59.355833	188.304603095	175.93855	164.19662043	1
## 8337	17	21.464354	19.526521367	32.32174	-17.05496323	1
## 8338	11	11.777242	10.114723886	32.32174	-25.02867469	1
## 8339	3	6.714223	17.601765893	32.32174	-17.53039226	1
## 8340	3	8.760738	5.980069609	32.32174	-27.60725389	1
## 8341	4	9.976946	14.219628249	32.32174	-20.39836499	1
## 8342	21	24.968628	-0.113644592	32.32174	-32.38544779	1
## 8343	68	76.179447	28.692034508	32.32174	-5.20887111	1
## 8344	191	251.782083	68.547207618	175.93855	32.48345648	1
## 8345	397	397.066658	81.180413049	175.93855	42.25539725	1
## 8346	183	232.267424	108.279554584	175.93855	67.13524732	1
## 8347	108	161.310524	125.532378436	175.93855	83.98964953	1
## 8348	127	165.269973	144.293602518	175.93855	100.26396986	1
## 8349	141	168.930125	173.576492043	175.93855	125.60372161	1
## 8350	142	161.372947	219.281010631	175.93855	168.25229218	1
## 8351	137	186.419479	237.487855415	175.93855	187.69281453	1
## 8352	159	207.397893	249.819203907	175.93855	200.53384539	1
## 8353	208	248.846019	277.921700953	175.93855	225.02783743	1
## 8354	378	418.370142	265.294965677	175.93855	215.33748124	1
## 8355	354	406.580969	258.093066997	175.93855	209.46691996	1
## 8356	251	291.923990	256.769403136	175.93855	216.12647240	1
## 8357	206	223.449366	306.363152233	175.93855	255.60040162	1
## 8358	127	154.942270	271.240125912	175.93855	231.31661369	1
## 8359	107	127.907279	270.390933948	175.93855	230.20871897	1
## 8360	60	93.344543	288.396902871	175.93855	240.84181060	1
## 8361	21	39.217404	106.350302508	32.32174	60.35521939	1
## 8362	6	19.417841	120.917700615	32.32174	76.94264894	1
## 8363	11	12.997464	103.196875020	32.32174	67.93727846	1
## 8364	2	9.997756	110.683917028	32.32174	75.43556090	1

## 8365	4	15.136774	143.458734037	32.32174	104.03874137	1
## 8366	15	24.834065	140.346941728	32.32174	103.80096947	1
## 8367	72	92.180197	147.833983735	32.32174	111.29925190	1
## 8368	268	314.282586	144.271531732	175.93855	108.28178343	1
## 8369	432	456.788989	188.494200820	175.93855	146.89391438	1
## 8370	259	258.650867	150.406020538	175.93855	114.86574757	1
## 8371	129	170.678430	196.386245252	175.93855	152.80197955	1
## 8372	129	182.679292	188.682668817	175.93855	147.12434729	1
## 8373	175	187.077273	225.044230960	175.93855	181.55389357	1
## 8374	181	187.040867	232.531272967	175.93855	189.05217600	1
## 8375	138	178.071495	230.677042010	175.93855	188.33078673	1
## 8376	154	197.077466	245.244440118	175.93855	204.91821627	1
## 8377	238	284.733068	254.410813832	175.93855	207.13870718	1
## 8378	431	439.448777	235.284252566	175.93855	186.83625036	1
## 8379	411	412.379479	228.584031642	175.93855	180.77276006	1
## 8380	224	275.791253	232.805117794	175.93855	189.52702335	1
## 8381	147	191.290314	234.442814322	175.93855	192.06906279	1
## 8382	143	147.124438	243.438256560	175.93855	198.98726335	1
## 8383	107	121.905009	247.737566629	175.93855	212.34341918	1
## 8384	53	98.701466	269.913549323	175.93855	233.21054532	1
## 8385	25	22.242805	10.892690485	32.32174	0.12311465	1
## 8386	11	13.051837	34.776894225	32.32174	23.28631998	1
## 8387	4	6.049345	29.455203114	32.32174	20.94539790	1
## 8388	2	4.229999	36.942245121	32.32174	28.44368033	1
## 8389	2	4.217541	44.429287128	32.32174	35.94196276	1
## 8390	28	20.303499	35.216026898	32.32174	24.58528981	1
## 8391	76	69.404971	24.044990309	32.32174	17.28812474	1
## 8392	229	220.735051	33.291271424	175.93855	24.10986078	1
## 8393	405	255.769437	24.080349804	175.93855	24.94358005	1
## 8394	234	217.205999	61.974124380	175.93855	48.24590072	1
## 8395	89	92.726519	107.173998166	175.93855	84.82892515	1
## 8396	56	88.818642	114.661040173	175.93855	92.32720758	1
## 8397	61	69.099015	100.858334427	175.93855	87.72106649	1
## 8398	58	68.409613	87.728237913	175.93855	78.22428673	1
## 8399	51	93.708134	122.857734389	175.93855	102.58965924	1
## 8400	61	95.233654	130.848137633	175.93855	109.89436524	1
## 8401	101	109.141098	97.433332359	175.93855	87.90665651	1
## 8402	229	150.305965	104.920374366	175.93855	95.40493894	1
## 8403	280	235.477292	113.583386843	175.93855	97.81900628	1
## 8404	209	194.998818	152.381219335	316.20792	132.61134232	1
## 8405	167	175.873691	160.369939097	316.20792	139.91669573	1
## 8406	123	127.720589	181.539827753	316.20792	155.23905768	1
## 8407	105	109.665850	188.523508523	316.20792	162.93091654	1
## 8408	54	80.426688	195.005511537	316.20792	170.81570442	1
## 8409	27	29.327879	32.876889733	32.32174	16.83133557	1
## 8410	15	16.719271	-2.274397490	32.32174	-20.95824014	1
## 8411	11	13.653745	43.680959976	32.32174	21.59386592	1
## 8412	6	8.140662	73.622832050	32.32174	50.34040964	1
## 8413	3	7.633353	29.909994354	32.32174	11.61628683	1
## 8414	16	19.161159	35.136119498	32.32174	19.98404467	1
## 8415	64	66.721773	25.724322016	32.32174	12.01033322	1
## 8416	186	205.295447	14.102625733	175.93855	1.93347158	1
## 8417	343	292.373851	39.019074323	175.93855	32.28468960	1
## 8418	228	214.522565	53.863862039	175.93855	44.15913314	1

## 8419	141	157.092748	78.249743534	175.93855	67.12940946	1
## 8420	145	174.811834	106.976570278	175.93855	95.63601065	1
## 8421	202	204.177661	174.780076887	175.93855	159.31608302	1
## 8422	188	189.489367	158.738582999	175.93855	145.03292102	1
## 8423	159	187.121924	166.225625006	175.93855	152.53120346	1
## 8424	214	207.201083	188.401607700	175.93855	173.39832959	1
## 8425	256	228.208643	181.199709020	175.93855	167.52776832	1
## 8426	356	285.698089	176.762088442	175.93855	160.59415521	1
## 8427	288	256.453356	194.042746589	175.93855	179.09115850	1
## 8428	142	190.577141	200.021388365	175.93855	187.16952281	1
## 8429	33	68.514785	180.090663968	175.93855	176.06100216	1
## 8430	17	48.094296	187.577705975	175.93855	183.55928459	1
## 8431	17	44.611748	130.658177010	175.93855	129.24298770	1
## 8432	11	42.554575	161.344063678	175.93855	159.94920358	1
## 8433	9	13.290675	-7.591946628	32.32174	-13.76727321	1
## 8434	12	11.595545	-0.104904621	32.32174	-6.26899077	1
## 8435	13	9.522047	-14.941538700	32.32174	-18.06249714	1
## 8436	4	6.900427	-7.454496693	32.32174	-10.56421471	1
## 8437	2	4.317452	2.545984537	32.32174	-4.03251961	1
## 8438	8	12.714651	8.243843053	32.32174	-9.36283115	1
## 8439	40	58.125166	46.894156353	32.32174	25.83984080	1
## 8440	92	162.665156	53.879520605	175.93855	33.53105225	1
## 8441	182	223.076930	80.976978658	175.93855	58.41154973	1
## 8442	156	168.936483	111.317208801	175.93855	86.65129303	1
## 8443	104	139.971446	128.648885009	175.93855	102.17567073	1
## 8444	174	163.168895	146.483922455	175.93855	117.50647201	1
## 8445	170	177.522398	164.066437540	175.93855	132.93438521	1
## 8446	194	178.691601	179.388035763	175.93855	149.23177381	1
## 8447	200	180.493869	177.281282447	175.93855	148.60749646	1
## 8448	203	176.167752	177.913939983	175.93855	151.53604135	1
## 8449	181	178.787283	193.235538205	175.93855	167.83342995	1
## 8450	140	159.739783	186.987660458	175.93855	164.54898881	1
## 8451	95	140.738672	201.606076626	175.93855	178.16379277	1
## 8452	76	121.307443	195.609037756	175.93855	174.78288712	1
## 8453	50	78.559055	181.830144214	175.93855	159.62960231	1
## 8454	32	59.922853	187.557947113	175.93855	167.80443113	1
## 8455	47	57.959298	183.492133872	175.93855	164.98053909	1
## 8456	25	45.455953	189.974136886	175.93855	172.86532697	1
## 8457	23	27.700879	4.081881734	32.32174	5.96399765	1
## 8458	16	24.119961	17.644240849	32.32174	22.93793264	1
## 8459	26	23.012915	26.639683086	32.32174	29.85613319	1
## 8460	5	10.351430	25.287129885	32.32174	28.94181490	1
## 8461	3	6.032319	42.869644971	32.32174	44.36972810	1
## 8462	4	5.692752	50.356686978	32.32174	51.86801053	1
## 8463	10	12.669451	32.105294288	32.32174	35.48169835	1
## 8464	10	30.561058	55.587117868	175.93855	46.96195931	1
## 8465	27	43.972898	54.460536296	175.93855	50.56705059	1
## 8466	56	79.308343	126.813710927	175.93855	114.15077323	1
## 8467	56	96.958963	142.186327210	175.93855	127.47553625	1
## 8468	71	116.590517	159.891494239	175.93855	147.10898761	1
## 8469	94	119.550992	171.972003854	175.93855	160.04648299	1
## 8470	121	122.049802	179.709884738	175.93855	167.44830091	1
## 8471	85	118.863019	187.196926746	175.93855	174.94658334	1
## 8472	97	129.576632	187.578745404	175.93855	177.97159275	1

## 8473	99	123.474211	187.932729767	175.93855	179.35400107	1
## 8474	68	89.930850	176.086345419	175.93855	171.01685243	1
## 8475	35	73.692172	195.299912678	175.93855	190.07022192	1
## 8476	25	52.871637	180.687966664	175.93855	176.53700255	1
## 8477	24	40.762011	168.389239139	175.93855	165.42080476	1
## 8478	19	33.952491	176.379642384	175.93855	172.72551076	1
## 8479	20	33.658481	184.092656020	175.93855	184.74320276	1
## 8480	17	26.810038	182.740102819	175.93855	183.82888447	1
## 8481	6	18.431413	4.964497304	32.32174	1.69980697	1
## 8482	4	12.640140	-14.291934378	32.32174	-14.29999976	1
## 8483	2	10.439847	-20.816801816	32.32174	-19.13122489	1
## 8484	4	7.434249	-8.208463633	32.32174	-4.74341003	1
## 8485	1	3.636901	-3.954182396	32.32174	-1.68908509	1
## 8486	1	7.245953	3.532859611	32.32174	5.80919735	1
## 8487	4	20.275414	5.819753086	175.93855	7.74797186	1
## 8488	5	28.922764	8.462488608	175.93855	9.90350586	1
## 8489	23	48.889724	12.178929957	175.93855	12.59222300	1
## 8490	43	70.801726	40.281427002	175.93855	37.08621503	1
## 8491	85	99.829264	82.269330041	175.93855	78.21106989	1
## 8492	66	92.941904	80.967794900	175.93855	74.32412601	1
## 8493	79	90.749348	104.599476281	175.93855	97.58444327	1
## 8494	86	99.584603	137.824952985	175.93855	128.96732031	1
## 8495	91	101.421881	144.306955999	175.93855	136.85210819	1
## 8496	86	107.393975	164.976221945	175.93855	158.29866880	1
## 8497	44	82.111898	158.276001021	175.93855	152.23517850	1
## 8498	30	71.593740	141.029647323	175.93855	135.46236088	1
## 8499	16	50.291733	176.240334765	175.93855	170.68810110	1
## 8500	26	50.299712	200.654050556	175.93855	195.30097851	1
## 8501	19	35.942833	187.574972103	175.93855	182.83157316	1
## 8502	17	34.916912	178.666535859	175.93855	174.66428527	1
## 8503	16	29.999890	170.961275942	175.93855	168.98730043	1
## 8504	11	15.322338	-58.154997064	32.32174	-53.72072929	1
## 8505	10	15.695109	9.369836372	32.32174	8.41320651	1
## 8506	7	12.968998	57.007264072	32.32174	51.61814327	1
## 8507	2	6.031780	73.237225956	32.32174	66.13173818	1
## 8508	4	8.850344	91.072263402	32.32174	81.46253945	1
## 8509	4	13.955153	84.321024417	32.32174	78.37167474	1
## 8510	19	37.666824	90.299666193	175.93855	86.45003905	1
## 8511	18	49.241755	96.781669208	175.93855	94.33482694	1
## 8512	62	76.473608	110.672435991	175.93855	103.62315034	1
## 8513	70	90.876887	130.768390300	175.93855	118.08447620	1
## 8514	91	94.288166	130.420876091	175.93855	116.78365247	1
## 8515	100	110.926618	148.376881998	175.93855	136.32063932	1
## 8516	140	137.058292	165.578677789	175.93855	156.14766712	1
## 8517	153	136.232247	173.569091033	175.93855	163.45237312	1
## 8518	131	135.513625	179.798571688	175.93855	171.43427292	1
## 8519	97	111.275053	175.309933048	175.93855	167.47328539	1
## 8520	97	102.899059	169.312894178	175.93855	164.09237975	1
## 8521	75	73.490338	162.059977437	175.93855	161.19444406	1
## 8522	65	65.268205	128.339293133	175.93855	130.08608062	1
## 8523	56	53.621006	155.715424359	175.93855	156.51271467	1
## 8524	49	43.437125	119.056791950	175.93855	125.23449049	1
## 8525	27	36.122261	126.543833957	175.93855	132.73277292	1
## 8526	29	32.581963	135.790115072	175.93855	139.55450896	1

## 8527	12	17.188494	-8.112099681	32.32174	-23.07007507	1
## 8528	6	10.364632	-1.128418912	32.32174	-15.37821621	1
## 8529	4	6.825239	6.358623095	32.32174	-7.87993378	1
## 8530	3	4.761959	45.262513800	32.32174	33.15689589	1
## 8531	3	4.532078	43.909960599	32.32174	32.24257760	1
## 8532	8	10.601543	54.611940401	32.32174	41.45750477	1
## 8533	35	48.642801	68.979517692	32.32174	55.16877323	1
## 8534	80	152.493316	67.376125613	175.93855	54.35091945	1
## 8535	164	203.024207	72.853089635	175.93855	62.62221278	1
## 8536	104	90.907411	81.295207618	175.93855	78.63788499	1
## 8537	60	103.075730	90.210742455	175.93855	80.95484041	1
## 8538	30	63.843453	96.269291632	175.93855	93.63444985	1
## 8539	24	44.762352	64.507667252	175.93855	64.72570110	1
## 8540	20	38.671510	59.487833080	175.93855	59.31568893	1
## 8541	14	34.118196	117.393120297	175.93855	105.42404646	1
## 8542	19	37.138406	124.880162304	175.93855	112.92232889	1
## 8543	46	77.374135	123.952117984	175.93855	113.14445867	1
## 8544	115	122.829058	118.682728499	175.93855	114.09003358	1
## 8545	135	159.097299	126.192527665	175.93855	105.10990265	1
## 8546	90	113.016411	119.970800730	175.93855	103.46871001	1
## 8547	69	80.432043	107.093226576	175.93855	93.87481833	1
## 8548	63	64.318790	127.839661396	175.93855	113.99200184	1
## 8549	32	50.412747	135.326703403	175.93855	121.49028427	1
## 8550	26	41.614482	124.457523752	175.93855	111.12402911	1
## 8551	10	15.611407	-28.132342882	32.32174	-43.95489918	1
## 8552	12	11.993811	3.663585948	32.32174	-13.32196477	1
## 8553	7	7.465015	45.805826734	32.32174	25.14413590	1
## 8554	4	5.740593	53.292868741	32.32174	32.64241834	1
## 8555	9	14.519620	78.865787071	32.32174	55.37503753	1
## 8556	43	52.072006	84.593589971	32.32174	63.54986635	1
## 8557	110	164.709113	92.080631978	175.93855	71.04814879	1
## 8558	217	248.683410	101.326913092	175.93855	77.86988483	1
## 8559	189	180.316286	108.312277344	175.93855	85.56109628	1
## 8560	96	127.028560	119.889425722	175.93855	98.69216808	1
## 8561	111	139.040954	159.795616893	175.93855	133.41187008	1
## 8562	140	146.399319	164.699269277	175.93855	134.69792867	1
## 8563	159	153.083598	186.148886151	175.93855	157.49769683	1
## 8564	120	145.989491	186.530704810	175.93855	160.52270624	1
## 8565	117	144.245697	201.149120978	175.93855	174.13751019	1
## 8566	167	171.388941	202.786817507	175.93855	176.67954964	1
## 8567	250	204.345811	197.240438331	175.93855	176.07834056	1
## 8568	169	181.192013	200.135696213	175.93855	178.13676263	1
## 8569	151	137.032924	193.886134982	175.93855	174.85296891	1
## 8570	79	99.700212	200.871499234	175.93855	182.54418036	1
## 8571	70	68.782207	194.371099127	175.93855	179.35685114	1
## 8572	33	50.784426	201.356463379	175.93855	187.04806259	1
## 8573	39	46.581558	211.355261126	175.93855	193.58040511	1
## 8574	28	24.165330	29.839227858	32.32174	20.47475561	1
## 8575	15	14.395358	39.508962810	32.32174	22.50167009	1
## 8576	3	6.854750	30.296986145	32.32174	17.40411971	1
## 8577	2	5.083765	30.451149692	32.32174	15.91036695	1
## 8578	3	4.832943	37.436513943	32.32174	23.60157840	1
## 8579	10	11.382288	43.918516958	32.32174	31.48636628	1
## 8580	41	42.444668	40.806724649	32.32174	31.24859438	1

## 8581	106	114.129480	32.903327397	175.93855	22.69480104	1
## 8582	210	194.453918	43.051982945	175.93855	41.00719987	1
## 8583	170	160.344098	52.799941815	175.93855	47.63600689	1
## 8584	110	124.783013	66.639690538	175.93855	59.89695588	1
## 8585	122	135.814866	87.559795361	175.93855	81.24705198	1
## 8586	130	143.543771	109.986616932	175.93855	102.01771361	1
## 8587	131	154.110085	132.162599626	175.93855	122.88483975	1
## 8588	142	169.687100	143.739748003	175.93855	136.01591155	1
## 8589	177	177.579630	152.735190241	175.93855	142.93411210	1
## 8590	177	185.859524	163.157441825	175.93855	144.67163305	1
## 8591	240	199.867447	150.755394614	175.93855	133.24156386	1
## 8592	207	190.969801	168.788569394	175.93855	151.44917363	1
## 8593	135	138.442286	175.773933645	175.93855	159.14038508	1
## 8594	96	96.804407	157.522540956	175.93855	142.75407290	1
## 8595	68	76.851329	172.671524219	175.93855	163.74981856	1
## 8596	55	60.773664	172.998302725	175.93855	157.55770874	1
## 8597	45	51.963331	186.838051448	175.93855	169.81865773	1
## 8598	30	21.566079	-2.766115441	32.32174	-17.92025566	1
## 8599	20	13.660876	9.168558466	32.32174	-4.57307178	1
## 8600	12	8.080654	0.007599862	32.32174	-12.64324775	1
## 8601	6	5.834843	7.494641869	32.32174	-5.14496532	1
## 8602	2	5.280950	14.730844998	32.32174	2.44978162	1
## 8603	10	11.100479	5.319047517	32.32174	-5.52392983	1
## 8604	32	41.717578	29.704929013	32.32174	17.44634649	1
## 8605	95	124.608840	26.142477009	175.93855	14.42887802	1
## 8606	205	200.854251	31.950187309	175.93855	27.20495197	1
## 8607	194	172.403356	45.457506271	175.93855	34.96176775	1
## 8608	118	125.713364	91.013222104	175.93855	71.76155165	1
## 8609	171	144.931122	101.134671794	175.93855	82.49943234	1
## 8610	197	173.103653	127.505764027	175.93855	109.31257184	1
## 8611	207	186.561964	153.851760492	175.93855	140.41373249	1
## 8612	245	217.535742	185.544369635	175.93855	170.73279550	1
## 8613	292	244.743431	205.681385004	175.93855	184.79906182	1
## 8614	283	248.519611	209.804686460	175.93855	184.73191285	1
## 8615	242	215.378140	189.622068141	175.93855	167.78858707	1
## 8616	182	178.418887	173.077213016	175.93855	153.69900150	1
## 8617	112	136.574153	206.538618350	175.93855	187.02372209	1
## 8618	91	103.478595	171.181346881	175.93855	160.79744320	1
## 8619	95	91.905694	184.517734366	175.93855	173.25196862	1
## 8620	85	79.904858	176.110975877	175.93855	164.89175171	1
## 8621	73	70.608485	202.003574121	175.93855	187.28259357	1
## 8622	44	40.935970	42.073386686	32.32174	36.59487621	1
## 8623	35	34.714089	54.655574056	32.32174	49.33944257	1
## 8624	28	30.182443	62.142616063	32.32174	56.83772500	1
## 8625	18	20.108467	69.629658070	32.32174	64.33600744	1
## 8626	10	11.021204	52.052558095	32.32174	43.05840918	1
## 8627	1	8.161339	40.961428906	32.32174	40.36248925	1
## 8628	6	14.050679	68.935739017	32.32174	69.15848396	1
## 8629	19	62.721867	56.336209598	175.93855	67.04264591	1
## 8630	49	66.951728	46.694646916	175.93855	42.68763301	1
## 8631	90	104.720821	74.668957026	175.93855	71.48362772	1
## 8632	128	138.123203	90.769622612	175.93855	82.87510130	1
## 8633	217	195.798779	115.155504108	175.93855	105.84537762	1
## 8634	273	316.216629	224.866952035	316.20792	204.55620535	1

## 8635	313	303.679622	223.140908014	316.20792	199.53281340	1
## 8636	300	257.332597	196.277575227	175.93855	179.25266266	1
## 8637	253	243.667330	215.366807061	175.93855	194.10114139	1
## 8638	195	208.789415	206.407352756	175.93855	188.90647909	1
## 8639	129	142.459092	198.147713541	175.93855	186.39569626	1
## 8640	93	124.968082	204.629716555	175.93855	194.28048414	1
## 8641	92	107.168900	213.625158792	175.93855	201.19868470	1
## 8642	71	87.572197	221.112200799	175.93855	208.69696713	1
## 8643	52	65.294286	213.406940882	175.93855	203.01998228	1
## 8644	38	52.504160	205.200003210	175.93855	197.53592646	1
## 8645	31	45.198441	195.737187668	175.93855	192.53484058	1
## 8646	48	53.286590	21.677921535	32.32174	14.27347663	1
## 8647	93	63.451878	31.425880405	32.32174	20.90228366	1
## 8648	75	51.658100	2.854326572	32.32174	-1.67394628	1
## 8649	52	35.887811	-6.557470909	32.32174	-9.64765773	1
## 8650	8	9.143718	-3.411374150	32.32174	-7.68570017	1
## 8651	5	9.187583	4.326506735	32.32174	-0.28388225	1
## 8652	2	8.266535	-20.052904606	32.32174	-23.17257398	1
## 8653	7	23.262525	-12.062501362	175.93855	-15.86786798	1
## 8654	14	47.008601	7.678894465	175.93855	4.63582098	1
## 8655	40	58.000790	1.906543660	175.93855	-0.48479767	1
## 8656	70	106.410601	47.611062248	175.93855	42.16377290	1
## 8657	138	133.585009	78.347966977	175.93855	69.89736319	1
## 8658	201	206.621090	136.835067871	175.93855	120.74188978	1
## 8659	223	233.753928	159.011050564	175.93855	141.60901592	1
## 8660	267	257.176822	181.437872135	175.93855	162.37967755	1
## 8661	265	266.844095	201.403956027	175.93855	181.14365351	1
## 8662	215	189.903507	194.732624442	175.93855	182.65403394	1
## 8663	111	193.217266	224.916833355	175.93855	213.55317883	1
## 8664	106	118.773664	202.073028102	175.93855	197.65892335	1
## 8665	105	101.298156	182.444789081	175.93855	177.54939555	1
## 8666	83	100.930566	207.001602054	175.93855	195.82196222	1
## 8667	71	90.749110	202.684949935	175.93855	193.09453469	1
## 8668	66	94.702890	246.983732853	175.93855	224.44601891	1
## 8669	29	68.161036	255.450946605	175.93855	236.17366997	1
## 8670	39	40.878054	75.003465306	32.32174	56.76231863	1
## 8671	12	24.741487	63.407919835	32.32174	48.32870549	1
## 8672	7	21.374883	91.287412298	32.32174	74.56176312	1
## 8673	4	5.720334	56.545149591	32.32174	47.37171495	1
## 8674	4	6.179655	64.032191598	32.32174	54.86999738	1
## 8675	14	14.130255	75.514522328	32.32174	65.43813210	1
## 8676	16	49.189499	97.041308075	175.93855	86.90852317	1
## 8677	53	71.750260	95.636053331	175.93855	88.96747788	1
## 8678	68	87.967470	98.852100490	175.93855	98.10824661	1
## 8679	109	138.059277	116.962844061	175.93855	108.72670930	1
## 8680	175	159.562355	127.966680801	175.93855	114.87254637	1
## 8681	202	181.519460	135.073013513	175.93855	126.76994340	1
## 8682	176	178.654812	149.163601114	175.93855	138.93442788	1
## 8683	151	164.744616	158.660721106	175.93855	145.65969941	1
## 8684	168	164.247490	156.381981269	175.93855	143.80186206	1
## 8685	154	158.521742	164.146012966	175.93855	152.84692848	1
## 8686	153	155.679742	171.131377218	175.93855	160.53813993	1
## 8687	126	136.938659	180.775616484	175.93855	173.11284554	1
## 8688	93	105.540483	170.862141247	175.93855	165.33206310	1

## 8689	88	88.888338	171.719486848	175.93855	166.52089500	1
## 8690	66	68.492528	179.286436256	175.93855	178.62042256	1
## 8691	39	42.290090	173.540236263	175.93855	175.14305241	1
## 8692	34	41.536200	182.203248740	175.93855	177.55711975	1
## 8693	13	12.715139	15.977357901	32.32174	-4.35925309	1
## 8694	6	6.747871	8.273781467	32.32174	-10.03688535	1
## 8695	3	4.518124	25.102096437	32.32174	5.68106879	1
## 8696	2	4.127695	18.403558995	32.32174	-0.38306892	1
## 8697	5	4.652282	25.387239765	32.32174	7.30878994	1
## 8698	12	10.166986	28.229796103	32.32174	12.34048502	1
## 8699	85	56.738310	26.175744330	32.32174	8.74293467	1
## 8700	170	133.407230	33.159425099	175.93855	16.43479353	1
## 8701	354	242.917770	55.838769030	175.93855	37.10834324	1
## 8702	153	143.358838	74.375305048	175.93855	55.12237657	1
## 8703	60	66.848753	91.507160439	175.93855	67.77059320	1
## 8704	75	78.321269	127.947574938	175.93855	100.87011497	1
## 8705	74	80.266555	135.434616945	175.93855	108.36839741	1
## 8706	73	86.181177	151.812272221	175.93855	121.30665497	1
## 8707	79	78.319717	131.299962668	175.93855	105.78981820	1
## 8708	77	77.736087	150.287158380	175.93855	126.58354810	1
## 8709	136	119.890729	150.269335405	175.93855	123.85623535	1
## 8710	245	195.345300	184.474983854	175.93855	159.46848103	1
## 8711	224	192.516984	192.967064854	175.93855	166.58025801	1
## 8712	156	144.388425	188.425724671	175.93855	165.59254348	1
## 8713	115	96.742064	182.098994567	175.93855	163.63812685	1
## 8714	68	61.685919	176.605316934	175.93855	160.06364477	1
## 8715	33	40.266008	162.495048676	175.93855	146.33749638	1
## 8716	18	30.662741	172.244691028	175.93855	152.96565599	1
## 8717	9	9.962329	2.027935603	32.32174	-15.65197675	1
## 8718	3	4.287308	6.152520625	32.32174	-9.46000314	1
## 8719	1	3.873700	16.378973484	32.32174	1.59110154	1
## 8720	1	3.519406	23.866015491	32.32174	9.08938397	1
## 8721	2	4.266813	14.375365654	32.32174	2.44569702	1
## 8722	14	9.881886	21.862407661	32.32174	9.94397945	1
## 8723	59	48.451653	28.847771913	32.32174	17.63519090	1
## 8724	152	144.562080	30.206795268	175.93855	18.63109377	1
## 8725	315	243.881057	36.688798283	175.93855	26.51588165	1
## 8726	180	165.284330	47.815286966	175.93855	36.86725689	1
## 8727	64	69.252969	58.890757588	175.93855	50.19125771	1
## 8728	46	61.720853	78.685910003	175.93855	73.65294332	1
## 8729	84	73.183323	84.940257905	175.93855	77.01896904	1
## 8730	91	73.867556	111.760726268	175.93855	100.35268253	1
## 8731	75	71.169296	112.618071868	175.93855	101.54151442	1
## 8732	90	86.182577	152.950455403	175.93855	137.39701708	1
## 8733	131	104.558884	153.053600889	175.93855	138.87588991	1
## 8734	281	204.275548	164.881588144	175.93855	151.91049721	1
## 8735	289	223.695609	177.993287565	175.93855	166.10473563	1
## 8736	184	170.712726	178.348955410	175.93855	167.48649654	1
## 8737	123	134.750785	187.342714165	175.93855	174.40534450	1
## 8738	90	81.655152	182.724205108	175.93855	174.74700707	1
## 8739	52	52.860919	185.089950939	175.93855	175.35575708	1
## 8740	32	39.462860	199.457528230	175.93855	189.06702554	1
## 8741	14	15.367429	27.981927888	32.32174	14.67388759	1
## 8742	5	6.746821	20.701805290	32.32174	4.20143377	1

## 8743	4	5.558399	28.188847297	32.32174	11.69971620	1
## 8744	4	4.704812	12.068501053	32.32174	-1.25342130	1
## 8745	5	6.049382	23.804409188	32.32174	15.14887114	1
## 8746	26	17.286571	31.291451195	32.32174	22.64715357	1
## 8747	78	60.749949	4.172629001	32.32174	-3.79436041	1
## 8748	215	198.064215	24.166547188	175.93855	16.61221663	1
## 8749	388	312.169539	16.885796152	175.93855	12.07167986	1
## 8750	227	200.819733	43.481576450	175.93855	37.14510636	1
## 8751	86	93.586587	95.894643801	175.93855	84.77310297	1
## 8752	84	116.614449	127.730350126	175.93855	108.75185525	1
## 8753	120	118.698025	139.488386981	175.93855	114.60765138	1
## 8754	118	143.045620	174.897611674	175.93855	146.45043011	1
## 8755	117	134.917181	188.763511210	175.93855	160.35462759	1
## 8756	119	149.549048	213.149392706	175.93855	183.32490391	1
## 8757	197	197.002237	220.636434713	175.93855	190.82318634	1
## 8758	412	337.858000	224.935744782	175.93855	204.17934218	1
## 8759	383	342.728366	223.331297659	175.93855	197.43021876	1
## 8760	265	264.369629	233.982259400	175.93855	209.61777151	1
## 8761	177	160.262102	195.113728189	175.93855	176.23639714	1
## 8762	97	94.772715	168.854109280	175.93855	149.81806621	1
## 8763	71	76.283560	176.844512524	175.93855	157.12277221	1
## 8764	60	56.860105	155.378182040	175.93855	139.01981530	1
## 8765	25	17.407264	-33.973462488	32.32174	-48.81621001	1
## 8766	8	8.026609	-27.994820712	32.32174	-40.73784570	1
## 8767	5	4.416353	-4.484107792	32.32174	-21.68371402	1
## 8768	4	4.227199	1.997895223	32.32174	-13.79892614	1
## 8769	3	3.878416	9.986614985	32.32174	-6.49357273	1
## 8770	13	13.127012	-14.363907016	32.32174	-21.80839374	1
## 8771	70	61.159707	13.940094328	32.32174	5.56111196	1
## 8772	205	221.145137	43.196433122	175.93855	35.51738521	1
## 8773	447	375.740984	43.574229689	175.93855	26.35264980	1
## 8774	241	231.959461	51.564632934	175.93855	33.65735581	1
## 8775	116	116.927134	76.452192185	175.93855	56.43470311	1
## 8776	138	136.158286	115.025336612	175.93855	92.96675215	1
## 8777	191	175.870658	154.826524614	175.93855	127.37323016	1
## 8778	204	181.232290	189.984910429	175.93855	159.31247340	1
## 8779	178	196.850865	228.980880255	175.93855	196.98161793	1
## 8780	222	206.216870	274.910086908	316.20792	237.89047549	1
## 8781	294	280.559749	282.900490153	316.20792	245.19518149	1
## 8782	476	403.764162	251.945367514	175.93855	219.28288879	1
## 8783	419	396.453880	287.102069847	316.20792	251.22277944	1
## 8784	272	285.086600	274.554186927	175.93855	240.20239875	1
## 8785	177	199.746692	251.154947331	175.93855	221.54307564	1
## 8786	154	150.587323	248.876207493	175.93855	219.68523830	1
## 8787	135	125.552316	228.691905691	175.93855	202.74255993	1
## 8788	101	104.482007	232.912991843	175.93855	211.49682321	1
## 8789	79	70.400861	59.800580469	32.32174	46.86082768	1
## 8790	62	65.409616	81.976563163	32.32174	67.72795382	1
## 8791	38	43.955982	73.769625491	32.32174	62.24389800	1
## 8792	20	22.267984	54.088684927	32.32174	45.10764319	1
## 8793	10	13.075933	61.324888056	32.32174	52.70239013	1
## 8794	9	8.852638	11.736554069	32.32174	7.37877585	1
## 8795	7	9.098840	19.223596076	32.32174	14.87705828	1
## 8796	20	26.148545	-10.000121751	175.93855	-13.35438189	1

## 8797	64	53.829542	28.348334612	175.93855	24.91738016	1
## 8798	130	115.076160	19.438214885	175.93855	16.75073969	1
## 8799	203	149.765040	54.770270705	175.93855	49.92289551	1
## 8800	324	257.860146	121.844444447	175.93855	109.27713474	1
## 8801	376	330.624179	177.818106117	175.93855	161.08824865	1
## 8802	445	358.819467	194.290579041	175.93855	176.58944331	1
## 8803	512	415.088425	225.253855317	316.20792	202.58267318	1
## 8804	449	424.792161	267.438612125	316.20792	240.32521395	1
## 8805	401	376.520913	267.146138069	316.20792	248.24150943	1
## 8806	322	321.676092	253.011002563	316.20792	239.13123512	1
## 8807	297	336.155221	257.757578673	316.20792	237.14542566	1
## 8808	215	265.075325	265.523293853	316.20792	246.18984467	1
## 8809	170	206.988739	276.302442528	316.20792	254.07539474	1
## 8810	140	138.180451	254.690276335	175.93855	236.38212633	1
## 8811	109	110.326871	275.938388910	175.93855	256.30638083	1
## 8812	119	103.449007	277.074407684	175.93855	259.04134929	1
## 8813	91	76.545102	89.758991954	32.32174	72.07556158	1
## 8814	72	63.676141	79.619145170	32.32174	66.03513956	1
## 8815	67	57.078110	105.513426896	32.32174	88.42533400	1
## 8816	32	32.571777	93.588190191	32.32174	81.41820987	1
## 8817	6	10.256420	81.766673091	32.32174	68.46518715	1
## 8818	2	8.000803	85.062627650	32.32174	82.20720103	1
## 8819	2	11.332315	78.311388665	32.32174	79.11633632	1
## 8820	24	49.770993	85.798430672	175.93855	86.61461875	1
## 8821	57	85.453501	97.225721249	175.93855	87.96563425	1
## 8822	125	134.779871	108.352209932	175.93855	98.31700949	1
## 8823	208	189.280743	131.031553864	175.93855	118.99055920	1
## 8824	256	246.996388	152.002676748	175.93855	137.36802971	1
## 8825	351	316.545407	171.968760639	175.93855	156.13200567	1
## 8826	343	315.107384	199.820418807	175.93855	180.72246221	1
## 8827	328	313.499104	198.918525300	175.93855	182.58784049	1
## 8828	330	314.282557	214.543663944	175.93855	195.81549158	1
## 8829	314	305.369220	222.281544828	175.93855	203.21730950	1
## 8830	219	235.909489	216.033667081	175.93855	199.93286837	1
## 8831	181	172.852414	198.562625319	175.93855	184.89976374	1
## 8832	112	117.429545	193.067264204	175.93855	181.32592908	1
## 8833	126	97.935474	187.573586571	175.93855	177.75144700	1
## 8834	91	73.712335	181.376726885	175.93855	171.49438028	1
## 8835	58	76.777236	172.164750220	175.93855	166.39682990	1
## 8836	30	45.726466	191.003143176	175.93855	181.34177314	1
## 8837	15	15.534279	7.285281884	32.32174	-13.18218972	1
## 8838	5	6.824522	13.263923661	32.32174	-5.10382541	1
## 8839	5	5.836602	29.590560876	32.32174	10.80705774	1
## 8840	3	4.197697	46.420559329	32.32174	26.52436446	1
## 8841	4	4.092610	20.534431240	32.32174	4.21510719	1
## 8842	21	15.951688	20.241957184	32.32174	12.13140267	1
## 8843	88	64.352464	43.170456510	32.32174	32.70913528	1
## 8844	240	207.057880	50.155820762	175.93855	40.40034673	1
## 8845	420	311.886991	68.441517902	175.93855	58.51084458	1
## 8846	197	193.366463	54.531070460	175.93855	47.66085726	1
## 8847	108	107.857226	78.386384861	175.93855	63.25019188	1
## 8848	88	95.979371	100.391436078	175.93855	88.81502766	1
## 8849	103	98.677038	108.129316962	175.93855	96.21684559	1
## 8850	80	94.825022	115.616358969	175.93855	103.71512802	1

## 8851	50	59.569202	68.742340066	175.93855	66.23235713	1
## 8852	69	62.942684	76.229382073	175.93855	73.73063956	1
## 8853	49	70.949348	55.941760585	175.93855	56.47408978	1
## 8854	152	126.225987	61.920402362	175.93855	64.55245409	1
## 8855	164	142.625052	65.597066216	175.93855	73.89535337	1
## 8856	190	118.423873	59.294148315	175.93855	61.39379301	1
## 8857	132	106.028975	83.929813644	175.93855	78.33633518	1
## 8858	79	71.911425	74.439163807	175.93855	71.69264823	1
## 8859	62	57.525644	85.895343723	175.93855	80.61753445	1
## 8860	52	49.473649	110.281225219	175.93855	103.58781077	1
## 8861	14	13.595043	-61.920740943	32.32174	-68.87268516	1
## 8862	5	6.699010	-67.693091748	32.32174	-73.99330381	1
## 8863	4	5.139211	-45.941617936	32.32174	-54.26262574	1
## 8864	4	4.882049	-34.606980598	32.32174	-42.11915369	1
## 8865	23	22.363872	120.243940172	32.32174	91.30011867	1
## 8866	79	56.397201	-40.449855922	32.32174	-46.99381209	1
## 8867	222	207.465560	-33.464491670	175.93855	-39.30260064	1
## 8868	471	306.031430	-25.977449663	175.93855	-31.80431821	1
## 8869	195	196.955603	-18.490407656	175.93855	-24.30603578	1
## 8870	83	99.106501	-11.003365649	175.93855	-16.80775334	1
## 8871	101	138.679513	192.160504781	175.93855	159.69143791	1
## 8872	140	153.473466	199.647546788	175.93855	167.18972034	1
## 8873	178	158.856322	207.134588795	175.93855	174.68800277	1
## 8874	106	147.257139	214.621630802	175.93855	182.18628521	1
## 8875	136	152.907566	222.108672809	175.93855	189.68456764	1
## 8876	240	244.382761	230.600753809	175.93855	196.79634462	1
## 8877	460	412.249311	236.328556708	175.93855	204.97117344	1
## 8878	385	360.295065	231.034699893	175.93855	204.27285244	1
## 8879	281	275.406136	219.413003609	175.93855	194.19599080	1
## 8880	200	196.800715	199.732063045	175.93855	177.05973600	1
## 8881	116	133.258801	172.390236269	175.93855	152.35728761	1
## 8882	114	103.724617	165.188337590	175.93855	146.48672633	1
## 8883	41	60.791373	136.918640695	175.93855	120.84140630	1
## 8884	28	22.759720	-37.042564575	32.32174	-50.94254324	1
## 8885	7	9.001879	-47.155860628	32.32174	-61.59948676	1
## 8886	5	5.185059	-45.691834103	32.32174	-60.29035989	1
## 8887	4	5.236202	-24.070230708	32.32174	-36.25703174	1
## 8888	2	4.254128	-20.171617316	32.32174	-34.58446770	1
## 8889	22	15.543450	-12.684575309	32.32174	-27.08618527	1
## 8890	74	57.718118	-18.456926114	32.32174	-32.20680392	1
## 8891	256	194.565524	2.289508705	175.93855	-12.08962040	1
## 8892	499	378.285663	4.855075353	175.93855	-8.60470931	1
## 8893	225	200.151380	2.324868199	175.93855	-4.43416510	1
## 8894	97	97.875797	19.300702361	175.93855	10.87345313	1
## 8895	99	91.879209	31.884573213	175.93855	23.61737207	1
## 8896	55	67.431774	61.141967052	175.93855	59.50491496	1
## 8897	65	71.300152	85.527848547	175.93855	82.47519128	1
## 8898	73	70.908521	83.724635652	175.93855	78.78117642	1
## 8899	79	108.242346	85.230123154	175.93855	73.43547374	1
## 8900	118	122.037869	95.479759780	175.93855	79.87135175	1
## 8901	134	120.984178	100.785792324	175.93855	92.84035473	1
## 8902	98	132.519803	107.769473094	175.93855	100.53221359	1
## 8903	93	88.729879	96.651138048	175.93855	90.26177552	1
## 8904	57	72.843774	103.133141062	175.93855	98.14656340	1

## 8905	29	51.139980	130.733960352	175.93855	122.83348445	1
## 8906	49	52.212529	137.717641122	175.93855	130.52534331	1
## 8907	9	34.478702	145.708044367	175.93855	137.83004932	1
## 8908	3	7.577698	-40.256675846	32.32174	-47.05577127	1
## 8909	3	6.895691	-26.920288360	32.32174	-34.60124585	1
## 8910	2	5.557318	-18.428207361	32.32174	-27.48946887	1
## 8911	3	4.639023	-10.941165353	32.32174	-19.99118643	1
## 8912	2	4.714845	-4.459162339	32.32174	-12.10639855	1
## 8913	16	15.852274	-4.579021436	32.32174	-8.88846013	1
## 8914	89	65.812938	9.509882682	32.32174	3.27667176	1
## 8915	220	211.379962	28.599742954	175.93855	12.19323343	1
## 8916	508	410.179329	43.667763772	175.93855	22.65646432	1
## 8917	230	232.485019	49.648089031	175.93855	30.73418121	1
## 8918	90	131.054313	62.984476516	175.93855	43.18870663	1
## 8919	119	123.380471	68.792186816	175.93855	55.96478059	1
## 8920	144	131.754822	76.279228823	175.93855	63.46306302	1
## 8921	183	175.962187	118.687618651	175.93855	93.53462114	1
## 8922	156	173.760795	126.174660659	175.93855	101.03290358	1
## 8923	188	190.916861	150.057180917	175.93855	124.19675633	1
## 8924	281	263.518763	175.448101405	175.93855	146.78052720	1
## 8925	495	411.734429	191.273060865	175.93855	162.88433937	1
## 8926	421	376.435688	184.572839941	175.93855	156.82084908	1
## 8927	330	296.178561	175.189931799	175.93855	156.42100834	1
## 8928	240	226.328500	183.178651561	175.93855	163.72636176	1
## 8929	174	180.233143	206.028926969	175.93855	179.70220182	1
## 8930	133	118.553848	178.843121423	175.93855	152.34035183	1
## 8931	67	78.997001	192.682870146	175.93855	164.60130082	1
## 8932	42	33.564549	29.096866172	32.32174	8.22438826	1
## 8933	12	15.643077	19.935907568	32.32174	0.15421229	1
## 8934	14	14.073759	35.956665753	32.32174	6.94444073	1
## 8935	7	10.537780	5.676890873	32.32174	-17.92786840	1
## 8936	3	6.307260	39.695014116	32.32174	24.42104238	1
## 8937	21	19.405828	44.017081344	32.32174	21.29878485	1
## 8938	73	66.814888	23.229065666	32.32174	10.49428667	1
## 8939	177	227.353265	65.543921411	175.93855	44.26203028	1
## 8940	419	322.369213	87.121725220	175.93855	62.75979577	1
## 8941	214	194.220814	100.312276997	175.93855	75.62400968	1
## 8942	103	101.991468	121.283399881	175.93855	94.00148020	1
## 8943	114	112.505509	144.792429318	175.93855	113.05625929	1
## 8944	154	116.858928	150.269393340	175.93855	121.32755261	1
## 8945	154	132.262592	175.158636073	175.93855	144.10425250	1
## 8946	129	131.805042	183.147355835	175.93855	151.40960592	1
## 8947	138	131.804469	191.137759080	175.93855	158.71431192	1
## 8948	233	177.505769	209.093764986	175.93855	178.25129877	1
## 8949	332	275.715236	209.196910472	175.93855	179.73017160	1
## 8950	301	238.657989	197.775035005	175.93855	172.52947105	1
## 8951	206	192.126060	205.011238134	175.93855	180.12421799	1
## 8952	136	125.014260	198.009160272	175.93855	177.12981779	1
## 8953	102	97.139904	207.506280264	175.93855	183.85508932	1
## 8954	65	60.619447	190.789438617	175.93855	168.53194376	1
## 8955	65	47.196325	190.164534801	175.93855	171.94410602	1
## 8956	44	37.909845	6.931783101	32.32174	3.99435381	1
## 8957	50	38.755563	15.925541855	32.32174	10.91320178	1
## 8958	38	32.128870	22.910906107	32.32174	18.60441323	1

## 8959	20	14.300076	8.074272029	32.32174	6.81090686	1
## 8960	3	5.020684	24.902586999	32.32174	22.52886100	1
## 8961	4	5.043061	32.389629006	32.32174	30.02714343	1
## 8962	5	7.682971	37.615754151	32.32174	38.39490127	1
## 8963	24	23.017799	47.363713021	175.93855	45.02370829	1
## 8964	92	66.704971	39.660136586	175.93855	39.34607603	1
## 8965	81	71.866293	61.836119280	175.93855	60.21320217	1
## 8966	149	117.589551	80.042964063	175.93855	79.65372452	1
## 8967	178	149.147568	117.963944497	175.93855	110.53056333	1
## 8968	219	166.292397	130.095472173	175.93855	120.49543312	1
## 8969	220	160.684942	131.456179011	175.93855	121.49068858	1
## 8970	231	183.042355	151.673101780	175.93855	140.15820003	1
## 8971	226	175.215175	165.789840193	175.93855	153.96593300	1
## 8972	206	148.447111	172.021004330	175.93855	161.94718539	1
## 8973	144	137.408300	173.380027686	175.93855	162.94308827	1
## 8974	143	125.364280	174.012685222	175.93855	165.87163316	1
## 8975	102	91.095897	162.894350176	175.93855	155.60119509	1
## 8976	103	84.892811	177.512766345	175.93855	169.21599905	1
## 8977	69	62.476181	181.360361676	175.93855	173.86118867	1
## 8978	66	55.456797	175.917702104	175.93855	167.31408101	1
## 8979	76	54.075121	181.143827248	175.93855	175.68183885	1
## 8980	59	44.223381	10.701100194	32.32174	2.54479653	1
## 8981	42	37.735803	16.005449256	32.32174	15.51444692	1
## 8982	43	34.677748	23.241652385	32.32174	23.10919386	1
## 8983	25	17.714556	30.278034698	32.32174	27.82777972	1
## 8984	6	8.135264	39.974975507	32.32174	37.42921233	1
## 8985	5	8.058600	46.456978522	32.32174	45.31400021	1
## 8986	8	7.245897	40.710778529	32.32174	41.83663006	1
## 8987	17	24.327467	35.188211557	175.93855	30.68827726	1
## 8988	36	45.513671	41.670214571	175.93855	38.57306514	1
## 8989	90	71.694555	48.653895341	175.93855	46.26492400	1
## 8990	126	97.964435	63.498683056	175.93855	58.13936754	1
## 8991	165	126.730902	91.299323163	175.93855	85.70244967	1
## 8992	234	161.650939	121.360880133	175.93855	112.39605639	1
## 8993	224	168.642097	147.705821554	175.93855	137.56594740	1
## 8994	188	136.877488	160.868539035	175.93855	148.78756024	1
## 8995	206	170.307772	182.490142430	175.93855	172.82088839	1
## 8996	205	166.939717	187.316625941	175.93855	175.43632407	1
## 8997	146	140.908170	202.889063041	175.93855	191.63724817	1
## 8998	120	105.682789	189.336141128	175.93855	181.00337292	1
## 8999	110	85.892709	172.289608248	175.93855	167.10671637	1
## 9000	95	77.823829	178.771611262	175.93855	174.99150425	1
## 9001	72	62.315809	180.633995856	175.93855	175.79383070	1
## 9002	60	56.465564	199.344201877	175.93855	195.04077661	1
## 9003	29	36.304971	187.722505593	175.93855	184.96391498	1
## 9004	25	24.427199	-19.825974925	32.32174	-18.16163759	1
## 9005	20	21.332427	-6.210914267	32.32174	-4.16097560	1
## 9006	17	17.986000	-7.112807774	32.32174	-2.29559732	1
## 9007	3	7.512784	-14.314706453	32.32174	-8.16615860	1
## 9008	8	7.588272	-22.747615755	32.32174	-18.16962400	1
## 9009	6	6.416715	-6.671817417	32.32174	-2.16227634	1
## 9010	13	10.518706	-5.034120888	32.32174	0.37976311	1
## 9011	33	37.875518	2.703759996	175.93855	7.78158103	1
## 9012	78	64.775324	2.356245788	175.93855	6.48075729	1

## 9013	96	81.972058	9.843287795	175.93855	13.97903973	1
## 9014	126	103.599399	25.641468004	175.93855	34.37152046	1
## 9015	179	140.497280	41.662226189	175.93855	41.16174890	1
## 9016	185	150.281095	70.945115714	175.93855	66.50150066	1
## 9017	228	177.892336	120.896816947	175.93855	118.05472864	1
## 9018	181	168.270220	122.931816500	175.93855	114.15869803	1
## 9019	192	174.997995	137.273242978	175.93855	126.22671800	1
## 9020	180	173.425255	143.251884755	175.93855	134.30508231	1
## 9021	193	172.179425	141.397653798	175.93855	133.58369303	1
## 9022	181	163.184921	140.045100597	175.93855	132.66937475	1
## 9023	144	125.308640	137.938347281	175.93855	132.04509739	1
## 9024	90	89.054184	136.585794079	175.93855	131.13077910	1
## 9025	49	64.227463	168.355572096	175.93855	160.12046503	1
## 9026	43	49.190781	187.144002036	175.93855	183.96930349	1
## 9027	28	32.012738	133.840107543	175.93855	143.05324314	1
## 9028	12	16.105992	-8.884453258	32.32174	-24.65620341	1
## 9029	2	8.002578	16.003105993	32.32174	-1.87885610	1
## 9030	12	9.725435	-2.047410836	32.32174	-9.45773756	1
## 9031	2	5.679114	45.772014706	32.32174	33.89604753	1
## 9032	13	12.494888	53.259056713	32.32174	41.39432996	1
## 9033	57	52.542139	33.750102670	32.32174	25.49163515	1
## 9034	126	121.476068	27.476074110	175.93855	20.56394552	1
## 9035	93	123.127453	35.968155110	175.93855	27.67572250	1
## 9036	68	95.607478	48.801181357	175.93855	40.32382435	1
## 9037	62	62.905718	37.179485074	175.93855	30.24696271	1
## 9038	75	112.887477	55.532794004	175.93855	43.34587951	1
## 9039	86	103.177550	60.185607511	175.93855	44.72840261	1
## 9040	103	116.969399	110.283772890	175.93855	89.94002504	1
## 9041	132	163.237578	170.699360886	175.93855	135.41094301	1
## 9042	129	164.279134	178.186402894	175.93855	142.90922544	1
## 9043	219	252.626636	190.317930569	175.93855	152.87409523	1
## 9044	462	405.377425	196.047416951	175.93855	161.04827664	1
## 9045	463	399.830842	203.534458958	175.93855	168.54655907	1
## 9046	308	305.381645	210.518139728	175.93855	176.23841793	1
## 9047	180	211.068943	217.000142742	175.93855	184.12320581	1
## 9048	180	171.816741	217.406828648	175.93855	182.53234113	1
## 9049	90	105.694757	212.588498775	175.93855	179.99784262	1
## 9050	61	78.211989	220.075540782	175.93855	187.49612505	1
## 9051	17	24.638745	34.139709910	32.32174	10.18417519	1
## 9052	10	14.580449	41.626751917	32.32174	17.68245762	1
## 9053	2	7.366001	103.484411918	32.32174	73.84399734	1
## 9054	4	6.527788	110.971453925	32.32174	81.34227977	1
## 9055	1	9.046837	102.443955496	32.32174	69.10373022	1
## 9056	29	20.038867	109.930997503	32.32174	76.60201265	1
## 9057	88	75.726709	139.517027531	32.32174	105.13179688	1
## 9058	263	236.568936	125.131053146	175.93855	96.11798708	1
## 9059	489	372.056910	105.674800647	175.93855	77.24201928	1
## 9060	202	198.823060	105.805780428	175.93855	80.36349319	1
## 9061	93	114.507262	143.502072797	175.93855	112.98004501	1
## 9062	114	117.365280	149.733236934	175.93855	120.96129739	1
## 9063	161	138.408775	165.607530973	175.93855	134.09313139	1
## 9064	130	125.237987	165.963198818	175.93855	135.47489230	1
## 9065	105	118.325022	192.083452174	175.93855	162.38449631	1
## 9066	130	132.576670	201.831411044	175.93855	169.01330334	1

## 9067	176	171.736062	210.098803979	175.93855	177.86479333	1
## 9068	346	275.618924	203.850926231	175.93855	174.58035219	1
## 9069	355	239.737183	206.190121332	175.93855	179.80562369	1
## 9070	256	184.967126	197.281685088	175.93855	171.63833581	1
## 9071	165	138.842620	202.506126749	175.93855	180.00674106	1
## 9072	124	98.459948	200.278404973	175.93855	175.17627813	1
## 9073	78	61.289683	183.682531786	175.93855	164.05931814	1
## 9074	38	43.112862	186.074428430	175.93855	166.31131665	1
## 9075	16	11.694165	-0.365818724	32.32174	-16.73832642	1
## 9076	5	4.999125	6.619545528	32.32174	-9.04711497	1
## 9077	3	3.704922	13.603226297	32.32174	-1.35525611	1
## 9078	4	3.630620	5.899649863	32.32174	-7.03288837	1
## 9079	1	3.422708	13.386691870	32.32174	0.46539407	1
## 9080	19	11.710161	21.175590815	32.32174	4.89458640	1
## 9081	86	55.218217	29.365814877	32.32174	15.07545348	1
## 9082	206	153.311945	35.596979013	175.93855	23.05670587	1
## 9083	423	287.703584	43.334859898	175.93855	30.45852379	1
## 9084	210	179.856700	49.062662797	175.93855	38.63335261	1
## 9085	108	89.517157	51.349556272	175.93855	40.57212713	1
## 9086	99	82.731290	76.289817066	175.93855	60.37620143	1
## 9087	111	85.596113	104.816822993	175.93855	86.00664154	1
## 9088	124	93.170682	128.501205917	175.93855	106.29368580	1
## 9089	119	102.430202	146.958889578	175.93855	125.63774364	1
## 9090	127	118.484319	162.054516171	175.93855	137.41572267	1
## 9091	193	150.182114	176.674615822	175.93855	151.02987921	1
## 9092	385	306.595236	175.852629716	175.93855	157.49650263	1
## 9093	361	302.294115	183.339671723	175.93855	164.99478506	1
## 9094	234	204.872845	181.483757284	175.93855	164.27404320	1
## 9095	191	153.531296	184.323975013	175.93855	157.11534606	1
## 9096	121	109.882323	207.981807206	175.93855	182.01891181	1
## 9097	90	92.261117	214.794556499	175.93855	194.40848032	1
## 9098	56	56.350303	213.614618257	175.93855	188.79580497	1
## 9099	27	21.200593	39.229959150	32.32174	21.80667699	1
## 9100	15	10.791768	45.632054764	32.32174	25.09021974	1
## 9101	11	9.075812	53.119096771	32.32174	32.58850217	1
## 9102	4	5.382432	45.415520336	32.32174	26.91086991	1
## 9103	3	4.753544	29.374026448	32.32174	12.62770791	1
## 9104	19	14.771566	36.861068456	32.32174	20.12599035	1
## 9105	68	63.436111	53.212572919	32.32174	31.42099942	1
## 9106	185	179.011684	33.956141236	175.93855	15.42119269	1
## 9107	425	337.710696	52.994355009	175.93855	33.24229700	1
## 9108	263	194.220814	100.312276997	175.93855	75.62400968	1
## 9109	97	85.517484	110.990444595	175.93855	95.38608057	1
## 9110	123	112.262938	140.402804619	175.93855	122.68295222	1
## 9111	124	104.625078	142.968371267	175.93855	126.16786331	1
## 9112	156	112.104585	161.900526826	175.93855	137.74447400	1
## 9113	115	105.814322	161.078540719	175.93855	144.21109741	1
## 9114	156	117.340723	166.806343618	175.93855	152.38592623	1
## 9115	174	117.640247	163.522564788	175.93855	150.91459434	1
## 9116	349	260.861530	186.652568413	175.93855	174.36784061	1
## 9117	301	242.770417	183.870467338	175.93855	172.70357970	1
## 9118	192	185.669114	184.978651816	175.93855	173.79594708	1
## 9119	142	158.981100	198.844551352	175.93855	187.70014456	1
## 9120	104	103.228754	199.701896953	175.93855	188.88897645	1

## 9121	72	74.937195	209.449855823	175.93855	195.51778348	1
## 9122	38	36.666091	143.891607510	175.93855	141.59631659	1
## 9123	24	23.110162	-31.985081964	32.32174	-21.97662710	1
## 9124	23	24.004791	-81.147852025	32.32174	-60.23252367	1
## 9125	26	21.449382	-75.247434167	32.32174	-56.75605191	1
## 9126	13	12.336570	-81.721283544	32.32174	-64.55990262	1
## 9127	1	4.303605	-52.915604444	32.32174	-37.38332594	1
## 9128	2	4.155627	-45.177723560	32.32174	-29.98150801	1
## 9129	1	6.352898	-52.154934174	32.32174	-37.59178229	1
## 9130	13	20.410798	-44.667892167	175.93855	-30.09349986	1
## 9131	25	41.598170	-33.994801705	175.93855	-28.45244342	1
## 9132	42	53.108355	-26.507759698	175.93855	-20.95416099	1
## 9133	45	53.474243	-20.700049398	175.93855	-8.17808703	1
## 9134	63	75.313265	7.273205668	175.93855	14.68663804	1
## 9135	67	88.423849	34.874024959	175.93855	39.37355909	1
## 9136	76	96.821353	43.867783713	175.93855	46.29240706	1
## 9137	95	101.194299	48.670455021	175.93855	59.45498646	1
## 9138	119	103.683623	56.157497028	175.93855	66.95326889	1
## 9139	118	110.035397	67.083109850	175.93855	68.49721341	1
## 9140	106	102.375194	76.078552087	175.93855	75.41541396	1
## 9141	110	100.255194	94.615088104	175.93855	93.42944730	1
## 9142	85	84.366192	85.203290623	175.93855	85.45573584	1
## 9143	67	69.397128	91.181932400	175.93855	93.53410015	1
## 9144	69	59.370553	114.111060164	175.93855	108.17991571	1
## 9145	59	52.943262	119.415409226	175.93855	121.14956610	1
## 9146	52	50.945365	107.039512827	175.93855	111.36274540	1
## 9147	52	41.573594	-62.728921512	32.32174	-66.66558299	1
## 9148	50	40.837364	-37.812472922	32.32174	-36.31436497	1
## 9149	47	35.133206	-30.576269792	32.32174	-28.71961803	1
## 9150	21	17.665245	-12.039733775	32.32174	-10.70558469	1
## 9151	2	5.345500	-36.390255776	32.32174	-26.02040571	1
## 9152	3	5.922467	-16.648859949	32.32174	-5.51671674	1
## 9153	4	6.185826	-7.482486235	32.32174	-3.29622584	1
## 9154	13	21.361175	0.004555772	175.93855	4.20205659	1
## 9155	32	36.802420	7.491597779	175.93855	11.70033903	1
## 9156	63	60.544574	14.978639786	175.93855	19.19862146	1
## 9157	129	107.989610	23.470720786	175.93855	26.31039844	1
## 9158	133	108.166301	15.515677036	175.93855	26.66114775	1
## 9159	185	145.682314	24.180372995	175.93855	29.07456767	1
## 9160	199	149.451877	30.159014772	175.93855	37.15293198	1
## 9161	182	151.555291	38.149418016	175.93855	44.45763798	1
## 9162	176	156.697569	46.138137778	175.93855	51.76299140	1
## 9163	155	149.291381	53.625179785	175.93855	59.26127383	1
## 9164	108	115.020068	59.605505045	175.93855	67.33899073	1
## 9165	121	97.357195	52.153822532	175.93855	67.49616360	1
## 9166	89	89.083995	59.640864539	175.93855	74.99444603	1
## 9167	74	66.449969	68.132945539	175.93855	82.10622302	1
## 9168	44	51.523360	74.614948553	175.93855	89.99101090	1
## 9169	58	49.862693	68.061191775	175.93855	77.58591505	1
## 9170	37	43.036956	75.799072660	175.93855	84.98773297	1
## 9171	19	13.768969	-73.168772205	32.32174	-76.00547456	1
## 9172	4	5.707178	-63.922491090	32.32174	-69.18373852	1
## 9173	2	3.706284	-56.435449083	32.32174	-61.68545609	1
## 9174	1	4.146048	-50.707646184	32.32174	-53.51062727	1

## 9175	1	4.010607	-24.111865886	32.32174	-28.43720077	1
## 9176	19	14.839107	-29.884216692	32.32174	-33.55781942	1
## 9177	42	47.254294	-22.397174685	32.32174	-26.05953699	1
## 9178	122	137.971822	-16.589464385	175.93855	-13.28346303	1
## 9179	272	185.670295	-6.841505515	175.93855	-6.65465600	1
## 9180	211	190.734269	1.572351567	175.93855	-4.14477157	1
## 9181	149	93.478061	-7.918298271	175.93855	-10.78845852	1
## 9182	62	78.823371	1.077143966	175.93855	-3.87025797	1
## 9183	62	73.870133	12.905131221	175.93855	9.16434933	1
## 9184	37	55.731605	20.221241751	175.93855	21.36034141	1
## 9185	61	53.361338	29.465839384	175.93855	28.18272486	1
## 9186	74	82.602866	23.666282721	175.93855	15.48758807	1
## 9187	122	113.445888	51.466922828	175.93855	43.05067020	1
## 9188	276	206.729921	51.319229436	175.93855	44.62600754	1
## 9189	282	188.177073	65.937645605	175.93855	58.24081150	1
## 9190	220	169.650824	79.777394328	175.93855	70.50176049	1
## 9191	169	155.450581	71.795144720	175.93855	63.27799165	1
## 9192	120	103.000709	81.292264713	175.93855	70.00326319	1
## 9193	68	80.873473	88.779306720	175.93855	77.50154562	1
## 9194	37	50.641446	118.339185934	175.93855	104.38808136	1
## 9195	25	20.603882	-64.236926479	32.32174	-77.54818191	1
## 9196	9	11.224989	-35.934608617	32.32174	-50.17802879	1
## 9197	8	10.410434	-28.949244365	32.32174	-42.48681735	1
## 9198	3	10.099246	-22.970602588	32.32174	-34.40845303	1
## 9199	2	8.948918	-37.554714306	32.32174	-46.29907132	1
## 9200	26	19.401771	-30.067672299	32.32174	-38.80078889	1
## 9201	89	70.549435	0.495562426	32.32174	-12.30011119	1
## 9202	232	237.436262	6.977565440	175.93855	-4.41532331	1
## 9203	490	334.775569	14.464607447	175.93855	3.08295912	1
## 9204	255	223.188228	34.458525634	175.93855	23.48953617	1
## 9205	116	134.836714	30.365506536	175.93855	13.09112599	1
## 9206	153	155.838278	57.713803466	175.93855	37.87515896	1
## 9207	175	166.780614	65.704206711	175.93855	45.17986496	1
## 9208	203	169.129029	73.191248718	175.93855	52.67814740	1
## 9209	173	162.149775	100.792068008	175.93855	77.36506845	1
## 9210	208	185.435702	139.392418293	175.93855	121.47163563	1
## 9211	278	238.068719	148.055430769	175.93855	123.88570297	1
## 9212	515	411.590642	169.478896830	175.93855	145.04222263	1
## 9213	423	346.769159	182.166087369	175.93855	158.10001298	1
## 9214	331	312.398459	225.660707156	175.93855	198.64543337	1
## 9215	229	182.953594	141.295806011	175.93855	124.40758525	1
## 9216	172	155.048028	171.531032985	175.93855	152.33410456	1
## 9217	125	115.691480	145.220396015	175.93855	128.88839921	1
## 9218	99	97.940914	163.756932032	175.93855	146.90243255	1
## 9219	31	22.635529	-63.561350200	32.32174	-76.18034541	1
## 9220	13	13.511200	10.221372305	32.32174	-11.84668014	1
## 9221	6	7.451607	11.355707596	32.32174	-9.11106426	1
## 9222	1	3.477499	1.943910115	32.32174	-17.08477572	1
## 9223	4	6.438322	21.988846362	32.32174	0.34917574	1
## 9224	33	19.720451	29.475888369	32.32174	7.84745817	1
## 9225	88	71.522011	23.478849499	32.32174	4.46655252	1
## 9226	257	218.004822	26.546093902	175.93855	7.75853459	1
## 9227	513	379.674297	45.584307675	175.93855	25.57963891	1
## 9228	236	231.169565	53.071349682	175.93855	33.07792134	1

## 9229	141	123.054755	65.985966812	175.93855	50.32662091	1
## 9230	157	136.463409	104.557427757	175.93855	86.85931737	1
## 9231	193	172.975357	134.488059266	175.93855	111.92430454	1
## 9232	212	189.179933	156.664041959	175.93855	132.79143068	1
## 9233	160	170.503472	163.398567333	175.93855	140.57910664	1
## 9234	155	174.566176	181.856250995	175.93855	159.92316448	1
## 9235	246	216.077611	170.788934010	175.93855	146.68010083	1
## 9236	470	334.498342	184.125321495	175.93855	159.13462624	1
## 9237	439	282.907929	150.681626881	175.93855	129.57304679	1
## 9238	316	255.394511	188.806450223	175.93855	175.51579148	1
## 9239	235	179.704038	177.710243898	175.93855	154.69885711	1
## 9240	185	138.907001	167.242389363	175.93855	150.08427668	1
## 9241	113	104.071993	176.237831600	175.93855	157.00247724	1
## 9242	66	68.248385	174.687796192	175.93855	165.40239009	1
## 9243	25	21.833892	-17.853918883	32.32174	-28.76615404	1
## 9244	21	13.531749	-12.126115984	32.32174	-20.59132522	1
## 9245	7	7.671307	-1.874795877	32.32174	-14.15609462	1
## 9246	6	7.194035	4.356368260	32.32174	-6.17484223	1
## 9247	3	6.937214	12.014341744	32.32174	-3.37426945	1
## 9248	28	21.560295	25.430636630	32.32174	13.68150111	1
## 9249	88	74.739221	12.049701239	32.32174	4.28118586	1
## 9250	239	258.582267	21.045143476	175.93855	11.19938641	1
## 9251	530	380.462400	28.532185483	175.93855	18.69766884	1
## 9252	274	237.137299	40.360172738	175.93855	31.73227614	1
## 9253	108	112.063717	50.108131608	175.93855	38.36108317	1
## 9254	111	102.638176	43.834103047	175.93855	33.43339353	1
## 9255	165	140.090472	76.780906578	175.93855	63.27013400	1
## 9256	173	162.492666	115.804710700	175.93855	102.58187962	1
## 9257	128	162.759818	130.900337293	175.93855	114.35985865	1
## 9258	164	186.121899	144.236724778	175.93855	126.81438406	1
## 9259	224	212.843105	145.623582429	175.93855	129.45288802	1
## 9260	413	361.890628	157.451569684	175.93855	142.48749532	1
## 9261	406	358.382201	164.938611691	175.93855	149.98577775	1
## 9262	313	254.221577	157.286053318	175.93855	141.33551990	1
## 9263	224	204.107078	152.015380267	175.93855	136.02197223	1
## 9264	192	171.078803	172.260137332	175.93855	156.33208477	1
## 9265	142	132.828833	162.317772755	175.93855	140.97743160	1
## 9266	91	104.183730	172.215589426	175.93855	159.38629494	1
## 9267	38	31.912876	4.284618112	32.32174	-14.71668730	1
## 9268	29	20.466474	0.220488353	32.32174	-17.54122675	1
## 9269	13	15.336723	-1.741484299	32.32174	-24.50646224	1
## 9270	8	9.035809	6.579665224	32.32174	-12.69697561	1
## 9271	4	7.610666	-4.791192182	32.32174	-22.87030176	1
## 9272	24	20.062223	22.307949353	32.32174	2.00954831	1
## 9273	72	70.160636	16.535598548	32.32174	-3.11107034	1
## 9274	134	160.634200	23.519279317	175.93855	4.58078852	1
## 9275	220	196.001946	78.992318277	316.20792	62.51610110	1
## 9276	107	148.185501	86.479360284	316.20792	70.01438353	1
## 9277	126	134.773968	59.588193203	175.93855	48.09163171	1
## 9278	105	150.108592	81.510598492	175.93855	63.12460013	1
## 9279	180	187.388558	108.609740027	316.20792	88.00445020	1
## 9280	201	191.228098	186.888373965	316.20792	149.28376909	1
## 9281	176	187.469432	204.721727928	316.20792	164.61521778	1
## 9282	197	199.313478	211.431386055	175.93855	177.01876782	1

## 9283	267	244.860038	210.987370716	175.93855	173.15565441	1
## 9284	422	363.620091	215.338327285	175.93855	177.60726760	1
## 9285	383	331.146904	215.467623583	175.93855	180.72938893	1
## 9286	251	232.592214	209.498419008	175.93855	178.99108436	1
## 9287	159	165.255056	204.003057893	175.93855	175.41724970	1
## 9288	135	126.795992	214.254378001	175.93855	181.85248029	1
## 9289	119	111.686968	228.320098353	175.93855	198.63283885	1
## 9290	86	74.896739	230.459472637	175.93855	200.98194928	1
## 9291	69	59.894029	39.842824416	32.32174	27.01278747	1
## 9292	58	53.358726	45.319788437	32.32174	35.28408080	1
## 9293	41	30.501845	20.664670971	32.32174	17.10772765	1
## 9294	17	16.890483	29.660113208	32.32174	24.02592820	1
## 9295	8	6.409663	38.403033086	32.32174	31.04124068	1
## 9296	10	7.074309	5.636369713	32.32174	2.51899737	1
## 9297	15	12.002412	22.664505500	32.32174	21.11311259	1
## 9298	31	31.490180	13.252708019	175.93855	13.13940113	1
## 9299	91	74.448814	5.349310767	175.93855	4.58560780	1
## 9300	158	110.227176	17.177298022	175.93855	17.62021509	1
## 9301	191	159.121406	60.722935870	175.93855	55.19300989	1
## 9302	296	209.875263	110.847252062	175.93855	102.04788082	1
## 9303	314	230.186087	109.798239282	175.93855	98.06382503	1
## 9304	373	270.025956	137.320206216	175.93855	124.08077058	1
## 9305	362	285.575508	174.237831139	175.93855	155.34346743	1
## 9306	410	319.873533	193.198876038	175.93855	174.49394884	1
## 9307	407	339.468650	213.666637685	175.93855	193.06499578	1
## 9308	290	281.305250	221.657040929	175.93855	200.36970178	1
## 9309	241	246.714448	233.009501242	175.93855	215.24048659	1
## 9310	206	194.444414	244.344084260	175.93855	225.89110429	1
## 9311	120	113.428190	258.157910691	175.93855	236.83665771	1
## 9312	127	111.407175	266.702293316	175.93855	247.23493169	1
## 9313	103	101.731493	254.526217734	175.93855	240.32427207	1
## 9314	85	83.959599	262.793610669	175.93855	249.17576205	1
## 9315	96	75.559595	80.825862662	32.32174	67.35914635	1
## 9316	73	62.346819	101.623315543	32.32174	84.50370427	1
## 9317	51	43.861045	107.179131921	32.32174	91.44497310	1
## 9318	21	24.091843	102.134430500	32.32174	90.65083500	1
## 9319	5	12.880861	96.086373569	32.32174	90.24255494	1
## 9320	7	7.221629	47.727766639	32.32174	42.79272221	1
## 9321	5	12.399772	79.022017714	32.32174	73.61858564	1
## 9322	12	37.814171	93.640433882	175.93855	87.23338960	1
## 9323	70	70.127091	88.648434005	175.93855	83.46597850	1
## 9324	111	89.114786	89.505779606	175.93855	84.65481039	1
## 9325	191	153.768321	132.220048464	175.93855	123.84702322	1
## 9326	255	198.351802	168.383473272	175.93855	155.39976101	1
## 9327	288	272.620031	191.989003840	175.93855	177.01682978	1
## 9328	316	274.079218	199.476045847	175.93855	184.51511221	1
## 9329	280	259.520234	207.464765609	175.93855	191.82046562	1
## 9330	310	277.652446	229.363758612	175.93855	211.14080777	1
## 9331	322	272.236548	247.951312690	175.93855	226.18221552	1
## 9332	234	242.527096	255.438354698	175.93855	233.68049795	1
## 9333	168	187.979403	251.651214629	175.93855	232.40274249	1
## 9334	159	147.461127	238.270279238	175.93855	223.00242724	1
## 9335	111	90.711601	217.307309991	175.93855	204.70589390	1
## 9336	69	72.939191	239.058783803	175.93855	224.43657196	1

## 9337	64	74.257089	269.623702011	175.93855	250.93660226	1
## 9338	25	46.117576	254.787067932	175.93855	239.14309589	1
## 9339	10	22.035467	107.405847216	32.32174	82.17169903	1
## 9340	9	8.781827	22.882586232	32.32174	-1.59713971	1
## 9341	7	6.581602	51.039068386	32.32174	26.18270190	1
## 9342	4	4.131397	55.761832292	32.32174	34.74403617	1
## 9343	5	4.800705	43.915447944	32.32174	26.40688753	1
## 9344	26	17.122392	51.402489951	32.32174	33.90516997	1
## 9345	80	56.114661	82.218247036	32.32174	60.30873575	1
## 9346	225	173.216232	90.208650281	175.93855	67.61344175	1
## 9347	493	299.253989	84.211611411	175.93855	64.23253610	1
## 9348	198	194.368506	91.698653418	175.93855	71.73081854	1
## 9349	85	79.909946	119.299472708	175.93855	96.41773959	1
## 9350	99	93.778473	140.340545992	175.93855	121.97402127	1
## 9351	134	118.657605	160.990879599	175.93855	133.26914512	1
## 9352	132	115.387610	185.748568433	175.93855	160.34914251	1
## 9353	115	131.644945	213.549208540	175.93855	187.91222464	1
## 9354	138	134.733598	222.041289540	175.93855	195.02400162	1
## 9355	221	197.937397	233.167778223	175.93855	205.37537686	1
## 9356	438	375.603839	255.343760916	175.93855	226.24250300	1
## 9357	410	354.969470	252.059982086	175.93855	224.77117110	1
## 9358	306	209.524722	198.225520498	175.93855	176.47416904	1
## 9359	181	161.846996	219.976994310	175.93855	196.20484711	1
## 9360	162	138.062605	220.834339911	175.93855	197.39367900	1
## 9361	94	82.693941	210.217682620	175.93855	186.93031191	1
## 9362	52	56.356601	184.833232287	175.93855	164.42812562	1
## 9363	15	17.697403	37.164841012	32.32174	13.36256867	1
## 9364	8	9.689349	73.354416633	32.32174	46.55855496	1
## 9365	2	7.761236	79.585580770	32.32174	54.53980734	1
## 9366	2	4.953922	80.442926371	32.32174	55.72863924	1
## 9367	1	5.574297	78.587011932	32.32174	55.00789738	1
## 9368	22	17.192014	86.074053939	32.32174	62.50617981	1
## 9369	104	79.694469	80.580376306	32.32174	58.93169773	1
## 9370	279	236.907897	65.040560174	175.93855	44.45560671	1
## 9371	512	401.262033	71.020885433	175.93855	52.53332361	1
## 9372	261	223.197205	109.392525561	175.93855	86.18985899	1
## 9373	144	129.837974	110.000087329	175.93855	93.40642503	1
## 9374	139	153.357003	188.270219228	175.93855	156.93480961	1
## 9375	194	183.598277	182.748707300	175.93855	151.71772645	1
## 9376	198	197.447271	221.997199486	175.93855	189.28975906	1
## 9377	160	192.315164	258.411463171	316.20792	220.74603234	1
## 9378	177	203.220145	286.236970527	316.20792	243.69324039	1
## 9379	307	292.442639	293.724012534	316.20792	251.19152282	1
## 9380	559	494.845599	300.707693303	316.20792	258.88338169	1
## 9381	502	475.442110	311.609493922	316.20792	270.97446993	1
## 9382	328	327.010563	295.092473092	316.20792	258.52748544	1
## 9383	238	219.789168	206.230605469	175.93855	181.41271406	1
## 9384	165	172.509598	289.779109819	175.93855	255.10249910	1
## 9385	129	124.388443	286.997008743	175.93855	253.43823819	1
## 9386	63	88.813799	287.100154229	175.93855	254.91711102	1
## 9387	31	32.190464	115.570394756	32.32174	82.79039029	1
## 9388	4	11.855889	116.427740357	32.32174	83.97922219	1
## 9389	7	9.298585	117.285085958	32.32174	85.16805408	1
## 9390	3	9.499550	123.263727735	32.32174	93.24641839	1

## 9391	1	6.028024	105.291008218	32.32174	78.40624278	1
## 9392	18	16.616584	112.778050225	32.32174	85.90452521	1
## 9393	67	61.143276	108.066833609	32.32174	95.54578997	1
## 9394	208	211.068696	90.769461851	175.93855	81.74559793	1
## 9395	520	329.610818	68.349110435	175.93855	61.05652089	1
## 9396	276	227.259746	83.441998501	175.93855	66.90387769	1
## 9397	133	153.993941	123.191113398	175.93855	98.35171164	1
## 9398	143	149.182267	140.021111850	175.93855	114.06901836	1
## 9399	179	176.751980	167.041401029	175.93855	140.27889293	1
## 9400	186	180.032607	197.857158115	175.93855	166.68245872	1
## 9401	192	178.567181	283.077547177	316.20792	243.27478756	1
## 9402	194	184.274068	281.300485094	316.20792	241.22402120	1
## 9403	283	282.451295	276.732994098	316.20792	238.59305818	1
## 9404	539	489.685201	271.237632983	316.20792	235.01922351	1
## 9405	526	471.819249	265.743955350	316.20792	231.44474144	1
## 9406	335	321.817481	256.132337052	316.20792	220.59486890	1
## 9407	264	258.149990	255.759955596	316.20792	223.90991924	1
## 9408	233	213.145744	263.246997603	316.20792	231.40820168	1
## 9409	140	137.636581	258.756675480	316.20792	227.44786156	1
## 9410	97	99.343321	235.108280489	175.93855	208.88435555	1
## 9411	31	32.461931	72.498426168	32.32174	44.54706682	1
## 9412	17	17.687724	84.884814813	32.32174	66.60521690	1
## 9413	9	8.361750	56.415297102	32.32174	38.08373579	1
## 9414	2	5.530857	63.902339109	32.32174	45.58201822	1
## 9415	1	8.457878	29.959705267	32.32174	22.14399002	1
## 9416	19	19.970276	35.938347043	32.32174	30.22235433	1
## 9417	74	66.839391	14.047507677	32.32174	10.98294934	1
## 9418	205	193.511773	14.904853278	175.93855	12.17178123	1
## 9419	445	311.462408	47.349979054	175.93855	42.20145072	1
## 9420	228	210.294301	48.987675583	175.93855	44.74349017	1
## 9421	78	110.827758	92.031635675	175.93855	82.50921399	1
## 9422	105	109.208673	85.131593934	175.93855	73.56956262	1
## 9423	148	173.741784	97.555649985	175.93855	77.11099128	1
## 9424	137	165.659467	114.412854296	175.93855	100.40281614	1
## 9425	141	154.169330	121.699020442	175.93855	99.09366786	1
## 9426	174	176.715817	167.628227095	175.93855	140.00252542	1
## 9427	229	221.839821	203.644132712	175.93855	171.96559912	1
## 9428	450	367.139671	205.159177298	175.93855	170.30210040	1
## 9429	410	359.393562	230.604082894	175.93855	196.17172085	1
## 9430	327	250.028857	233.246818416	175.93855	198.32725484	1
## 9431	213	159.562410	228.254818538	175.93855	194.55984375	1
## 9432	148	128.207831	228.133275959	175.93855	197.77842958	1
## 9433	109	90.375730	223.141276082	175.93855	194.01101849	1
## 9434	61	63.526028	227.864039989	175.93855	202.57235276	1
## 9435	38	26.722732	49.085078964	32.32174	20.82913328	1
## 9436	22	14.202732	43.088040094	32.32174	17.44822764	1
## 9437	6	7.482112	57.655438201	32.32174	34.03565718	1
## 9438	4	6.055104	51.709417392	32.32174	27.68212595	1
## 9439	2	4.706715	43.251640842	32.32174	22.29453463	1
## 9440	17	15.320046	50.738682849	32.32174	29.79281706	1
## 9441	88	71.823876	40.321846375	32.32174	22.20561105	1
## 9442	226	235.602153	48.813927375	175.93855	29.31738803	1
## 9443	441	359.077986	56.300969382	175.93855	36.81567047	1
## 9444	270	231.014104	63.284650151	175.93855	44.50752933	1

## 9445	129	122.170925	103.867872564	175.93855	80.26656748	1
## 9446	164	141.343577	129.934140811	175.93855	103.89032191	1
## 9447	216	180.078769	155.975541810	175.93855	132.12995043	1
## 9448	198	180.453383	167.051012432	175.93855	145.45395125	1
## 9449	170	162.485362	178.307371533	175.93855	151.50267640	1
## 9450	216	188.938975	201.133834737	175.93855	178.02566019	1
## 9451	311	247.037499	222.859157737	175.93855	196.11308976	1
## 9452	488	401.125954	230.095360866	175.93855	203.70783670	1
## 9453	385	352.878918	225.855877621	175.93855	199.65103208	1
## 9454	267	228.989171	201.253461698	175.93855	178.50140593	1
## 9455	163	180.186106	208.740503705	175.93855	185.99968836	1
## 9456	134	149.104329	216.227545712	175.93855	193.49797079	1
## 9457	119	108.853978	223.714587719	175.93855	200.99625322	1
## 9458	77	64.590853	161.396372970	175.93855	144.50340992	1
## 9459	86	52.440020	-14.480316504	32.32174	-19.06953377	1
## 9460	43	43.049627	-6.993274497	32.32174	-11.57125134	1
## 9461	44	31.148138	-5.606416846	32.32174	-8.93274738	1
## 9462	18	14.793075	-10.677269080	32.32174	-11.37013397	1
## 9463	6	5.881798	-14.941219655	32.32174	-17.07083450	1
## 9464	4	5.577917	-7.454177648	32.32174	-9.57255207	1
## 9465	5	7.135446	-18.323357299	32.32174	-19.93880723	1
## 9466	28	30.875648	-6.666301521	175.93855	-2.20649029	1
## 9467	90	73.177007	0.239155331	175.93855	0.88347602	1
## 9468	157	125.924323	23.246507013	175.93855	20.13118413	1
## 9469	224	160.878330	16.972478453	175.93855	15.20349450	1
## 9470	270	211.222584	77.816597422	175.93855	74.00060534	1
## 9471	300	232.995553	85.132707952	175.93855	86.19659742	1
## 9472	302	245.464490	94.377305584	175.93855	93.01898088	1
## 9473	276	246.682801	117.056649515	175.93855	113.69253059	1
## 9474	305	248.437085	124.543691523	175.93855	121.19081302	1
## 9475	143	159.347150	147.924534025	175.93855	144.54759479	1
## 9476	67	95.105771	122.646141905	175.93855	128.28990213	1
## 9477	64	81.526764	112.732666669	175.93855	120.50911969	1
## 9478	80	87.054770	87.348216335	175.93855	98.00693340	1
## 9479	77	71.337394	76.731559044	175.93855	87.54356632	1
## 9480	78	66.708563	83.213562058	175.93855	95.42835420	1
## 9481	95	77.555858	104.886811952	175.93855	110.55713971	1
## 9482	70	61.357761	113.126370592	175.93855	117.76602862	1
## 9483	61	45.498339	-59.075595570	32.32174	-54.69446731	1
## 9484	51	45.208959	-65.349624130	32.32174	-59.62215695	1
## 9485	63	44.091237	-57.862582123	32.32174	-52.12387451	1
## 9486	17	13.785396	-39.046317889	32.32174	-26.63243497	1
## 9487	9	8.447718	-29.127427542	32.32174	-24.70133759	1
## 9488	4	7.703774	-3.205939958	32.32174	5.26337499	1
## 9489	4	8.716117	31.274359571	32.32174	30.23201243	1
## 9490	16	26.573103	20.355845342	175.93855	22.83773544	1
## 9491	62	53.259509	27.842887349	175.93855	30.33601788	1
## 9492	92	90.995551	47.384462359	175.93855	47.96354576	1
## 9493	148	163.936187	72.775382847	175.93855	70.54731663	1
## 9494	182	187.921321	67.704530614	175.93855	68.10993004	1
## 9495	248	213.533678	86.241066631	175.93855	86.12396338	1
## 9496	274	222.071620	107.915371570	175.93855	107.18401853	1
## 9497	243	226.080637	122.931090762	175.93855	114.36075243	1
## 9498	272	229.714611	141.295011820	175.93855	137.07314282	1

## 9499	296	227.100988	149.959707779	175.93855	139.48656274	1
## 9500	306	224.171488	168.920752678	175.93855	158.63704415	1
## 9501	181	149.487806	174.275064757	175.93855	162.70279931	1
## 9502	69	100.924745	181.260429009	175.93855	170.39401076	1
## 9503	50	60.800108	173.555169092	175.93855	164.71702591	1
## 9504	66	66.578380	179.535494351	175.93855	172.79474281	1
## 9505	191	99.276377	172.333595672	175.93855	166.92418154	1
## 9506	42	45.537579	152.373981935	175.93855	148.24179016	1
## 9507	21	18.793130	-5.103766905	32.32174	-22.59050711	1
## 9508	6	6.798725	-26.317575030	32.32174	-40.79057594	1
## 9509	3	4.323133	-20.338933253	32.32174	-32.71221163	1
## 9510	2	3.948851	-26.353795098	32.32174	-38.82043003	1
## 9511	17	13.196741	-18.866753091	32.32174	-31.32214760	1
## 9512	72	52.230925	-30.488449374	32.32174	-41.39900923	1
## 9513	234	195.355682	-23.001407367	175.93855	-33.90072680	1
## 9514	444	317.843110	-15.012687605	175.93855	-26.59537339	1
## 9515	277	214.238022	11.081414938	175.93855	-1.32901787	1
## 9516	116	96.050655	41.316641911	175.93855	26.59750144	1
## 9517	116	115.001190	72.053546640	175.93855	54.33109172	1
## 9518	150	159.373831	117.481075538	175.93855	95.43287831	1
## 9519	141	154.190467	189.929067816	175.93855	161.57953804	1
## 9520	140	157.737629	213.309910319	175.93855	184.93631981	1
## 9521	171	177.360911	235.286072196	175.93855	202.92728487	1
## 9522	228	241.525309	212.111520665	175.93855	182.52824876	1
## 9523	430	375.193555	219.598562672	175.93855	190.02653119	1
## 9524	437	368.268699	220.734581445	175.93855	192.76149965	1
## 9525	291	270.344928	222.873955729	175.93855	195.11061008	1
## 9526	201	190.148417	216.375239104	175.93855	191.92263345	1
## 9527	154	141.640143	193.704048810	175.93855	171.33002091	1
## 9528	87	84.714786	177.159193685	175.93855	157.24043535	1
## 9529	46	59.400297	184.646235692	175.93855	164.73871778	1
## 9530	23	21.973336	2.399814512	32.32174	-18.62403450	1
## 9531	14	11.195583	22.921561267	32.32174	3.23286202	1
## 9532	4	5.480835	33.997031889	32.32174	16.55686284	1
## 9533	2	4.188121	19.915652970	32.32174	10.40458517	1
## 9534	3	4.314343	27.402694977	32.32174	17.90286760	1
## 9535	15	15.241995	90.334689244	32.32174	68.66567341	1
## 9536	100	76.205616	110.178121192	32.32174	83.22411120	1
## 9537	299	267.689935	112.639968236	175.93855	92.65492087	1
## 9538	529	395.438048	105.438069556	175.93855	86.78435960	1
## 9539	289	249.376501	118.774457042	175.93855	99.23888501	1
## 9540	116	140.344402	141.504819034	175.93855	116.93980914	1
## 9541	129	145.185630	155.342884274	175.93855	129.20140554	1
## 9542	172	173.397344	190.050610395	175.93855	158.36095220	1
## 9543	184	171.948054	212.398579610	175.93855	180.46163834	1
## 9544	138	162.981743	219.885621617	175.93855	187.95992077	1
## 9545	146	176.425430	226.367624632	175.93855	195.84470865	1
## 9546	276	264.750913	241.489402038	175.93855	209.26593617	1
## 9547	509	443.341513	247.971405052	175.93855	217.15072405	1
## 9548	518	447.894120	242.979405175	175.93855	213.38331296	1
## 9549	338	295.965513	228.221623452	175.93855	200.25978209	1
## 9550	212	191.786505	212.881628136	175.93855	188.65985215	1
## 9551	190	160.650863	189.708760087	175.93855	168.26016863	1
## 9552	118	101.934306	201.692768572	175.93855	178.63537433	1

## 9553	51	67.375007	208.174771587	175.93855	186.52016221	1
## 9554	23	21.428924	33.841758979	32.32174	10.62649159	1
## 9555	10	10.588260	23.424922504	32.32174	3.03928559	1
## 9556	1	3.717579	13.458745724	32.32174	-1.76822385	1
## 9557	1	3.505938	20.945787731	32.32174	5.73005858	1
## 9558	1	4.501572	13.042390480	32.32174	-2.82373476	1
## 9559	20	17.010553	20.529432487	32.32174	4.67454767	1
## 9560	98	76.501692	24.828742557	32.32174	18.03070351	1
## 9561	281	251.185020	34.075023672	175.93855	24.85243955	1
## 9562	508	362.556385	43.572143664	175.93855	31.57771109	1
## 9563	253	216.702721	50.054146678	175.93855	39.46249897	1
## 9564	108	102.130840	64.395573156	175.93855	51.53051894	1
## 9565	102	107.205454	82.932109174	175.93855	69.54455227	1
## 9566	138	124.541507	97.273535652	175.93855	81.61257224	1
## 9567	126	119.070880	110.585055889	175.93855	98.68297174	1
## 9568	108	124.626621	135.975976377	175.93855	121.26674261	1
## 9569	54	104.050362	129.729153674	175.93855	123.91357112	1
## 9570	75	82.471158	81.319528683	175.93855	79.43636397	1
## 9571	155	149.214515	69.697832400	175.93855	69.35950233	1
## 9572	167	154.900598	77.184874407	175.93855	76.85778476	1
## 9573	161	147.084716	84.671916414	175.93855	84.35606719	1
## 9574	125	118.502397	92.660636176	175.93855	91.66142061	1
## 9575	129	90.323416	101.152717176	175.93855	98.77319759	1
## 9576	98	76.181314	109.314051897	175.93855	101.38019395	1
## 9577	60	56.853472	117.304455142	175.93855	108.68489995	1
## 9578	26	20.888352	-54.897511020	32.32174	-63.77559598	1
## 9579	12	11.094120	-47.913830251	32.32174	-56.08373712	1
## 9580	2	3.591163	-29.127510400	32.32174	-44.09743794	1
## 9581	4	4.196320	-19.127029170	32.32174	-37.56574283	1
## 9582	1	3.144108	0.494453241	32.32174	-15.33696981	1
## 9583	18	12.876636	1.047203376	32.32174	-17.00967005	1
## 9584	76	58.349780	8.534245383	32.32174	-9.51138762	1
## 9585	267	204.535572	28.777318965	175.93855	10.79937232	1
## 9586	484	362.805030	47.313854982	175.93855	28.81340566	1
## 9587	238	215.617020	65.348713245	175.93855	47.02036801	1
## 9588	97	91.670529	96.364291147	175.93855	76.30009487	1
## 9589	99	95.745224	107.490779830	175.93855	86.65147011	1
## 9590	158	133.760887	131.426001631	175.93855	106.84204986	1
## 9591	154	142.472322	163.871127407	175.93855	136.87171934	1
## 9592	144	137.487534	183.333850061	175.93855	155.82927173	1
## 9593	134	134.664950	197.450588474	175.93855	169.63700471	1
## 9594	238	193.328958	205.761780996	175.93855	184.02405737	1
## 9595	399	326.982515	219.929537470	175.93855	194.85916475	1
## 9596	417	347.592930	234.549637121	175.93855	208.47332130	1
## 9597	295	230.565966	230.762497053	175.93855	207.19556583	1
## 9598	199	174.869557	229.860603546	175.93855	209.06094411	1
## 9599	177	139.287965	197.648319472	175.93855	177.37249879	1
## 9600	107	97.138241	193.108034333	175.93855	182.31605390	1
## 9601	84	73.136886	209.434671549	175.93855	198.22693706	1
## 9602	43	26.287136	4.163075712	32.32174	-7.11083609	1
## 9603	13	11.690633	20.489712927	32.32174	8.80004707	1
## 9604	16	9.212689	43.695830382	32.32174	24.99264661	1
## 9605	5	4.483044	42.343277180	32.32174	24.07832832	1
## 9606	2	3.806245	49.830319187	32.32174	31.57661075	1

## 9607	17	14.601703	62.568527788	32.32174	41.66177552	1
## 9608	64	60.508759	42.384225986	32.32174	24.71909714	1
## 9609	230	212.348390	49.369590238	175.93855	32.41030859	1
## 9610	448	349.658300	56.856632245	175.93855	39.90859102	1
## 9611	275	220.936688	79.032614939	175.93855	60.77571716	1
## 9612	124	117.184579	111.504946572	175.93855	98.37990479	1
## 9613	153	126.416294	130.969352708	175.93855	117.33680976	1
## 9614	176	154.776804	151.437114355	175.93855	135.90785671	1
## 9615	192	153.938152	158.171639729	175.93855	143.69553266	1
## 9616	146	141.006260	178.137723621	175.93855	162.45950862	1
## 9617	191	152.455952	173.117889448	175.93855	157.04949645	1
## 9618	268	207.038437	195.094051325	175.93855	175.04046151	1
## 9619	396	317.727671	201.576054339	175.93855	182.92524939	1
## 9620	359	244.985891	152.691957450	175.93855	146.21548939	1
## 9621	262	199.601983	174.286354988	175.93855	162.67429941	1
## 9622	151	153.772641	181.773396995	175.93855	170.17258184	1
## 9623	122	115.266004	170.879750014	175.93855	158.16243077	1
## 9624	113	105.077355	176.858391791	175.93855	166.24079508	1
## 9625	65	69.159279	171.164893341	175.93855	159.79015193	1
## 9626	53	48.088743	-3.959279500	32.32174	-4.07218529	1
## 9627	45	35.971596	-28.309801501	32.32174	-19.38700630	1
## 9628	26	23.485693	-25.667065980	32.32174	-17.23147230	1
## 9629	9	9.796308	-36.785401026	32.32174	-27.50191037	1
## 9630	4	6.217978	-29.298359019	32.32174	-20.00362794	1
## 9631	2	4.965437	-41.925094295	32.32174	-29.69398413	1
## 9632	9	8.394936	-34.941413525	32.32174	-22.00212527	1
## 9633	19	30.411589	-27.454371518	175.93855	-14.50384283	1
## 9634	78	60.758563	-19.967329511	175.93855	-7.00556040	1
## 9635	90	85.136037	-12.981965259	175.93855	0.68565105	1
## 9636	166	100.664286	-5.494923252	175.93855	8.18393348	1
## 9637	183	165.785344	36.039581565	175.93855	40.59846954	1
## 9638	221	210.592471	50.381008043	175.93855	52.66648951	1
## 9639	235	208.957559	59.878128035	175.93855	59.39176104	1
## 9640	243	212.836165	66.861808805	175.93855	67.08361990	1
## 9641	124	169.117300	130.999717925	175.93855	126.26735098	1
## 9642	146	118.755094	84.481541068	175.93855	89.00133957	1
## 9643	144	118.609890	105.982176003	175.93855	108.82848214	1
## 9644	108	115.485852	167.032279218	175.93855	156.06229616	1
## 9645	87	96.172164	182.380028254	175.93855	174.00293326	1
## 9646	63	68.395852	171.538682898	175.93855	165.27927918	1
## 9647	48	48.540624	176.364111365	175.93855	161.96344522	1
## 9648	46	47.108647	186.740422024	175.93855	184.79460620	1
## 9649	20	32.768125	164.147455649	175.93855	168.80388621	1
## 9650	21	24.223540	-55.439590054	32.32174	-45.79365698	1
## 9651	24	24.240615	-76.854902478	32.32174	-66.86923947	1
## 9652	27	22.332614	-13.421230457	32.32174	-16.29936269	1
## 9653	14	11.773184	22.343836283	32.32174	15.76017552	1
## 9654	1	5.193738	30.332556045	32.32174	23.06552893	1
## 9655	3	4.486224	27.342360635	32.32174	21.10202556	1
## 9656	2	5.923271	34.829402642	32.32174	28.60030799	1
## 9657	18	20.189556	24.359864624	175.93855	23.98637498	1
## 9658	26	35.466914	32.851945624	175.93855	31.09815197	1
## 9659	63	62.444229	55.782128433	175.93855	51.67523717	1
## 9660	91	97.966214	85.592846525	175.93855	78.46530840	1

## 9661	124	108.156287	92.074849539	175.93855	86.35009628	1
## 9662	140	126.823855	117.820328510	175.93855	102.89150406	1
## 9663	138	122.938100	125.680861337	175.93855	114.49886015	1
## 9664	111	122.590018	134.423781214	175.93855	121.51417262	1
## 9665	155	130.370112	142.412500977	175.93855	128.81952604	1
## 9666	164	133.055793	173.350910005	175.93855	159.42862999	1
## 9667	87	94.541768	167.604710012	175.93855	155.95125983	1
## 9668	96	98.210251	163.366910250	175.93855	151.89380780	1
## 9669	80	81.876834	167.838835279	175.93855	160.55160657	1
## 9670	57	57.244721	165.810934319	175.93855	158.59730472	1
## 9671	36	42.293477	170.584716286	175.93855	164.18601340	1
## 9672	28	36.328669	175.810841430	175.93855	172.55377124	1
## 9673	23	30.900801	184.302922430	175.93855	179.66554822	1
## 9674	9	11.296340	9.145983174	32.32174	-7.99195049	1
## 9675	6	6.301340	1.944084494	32.32174	-13.86251177	1
## 9676	4	4.129803	23.616705950	32.32174	7.19819080	1
## 9677	1	3.104894	6.068495315	32.32174	-6.50553673	1
## 9678	2	3.143276	13.304698444	32.32174	1.08921021	1
## 9679	17	12.909148	6.855316397	32.32174	-5.07074459	1
## 9680	72	50.499302	24.690353843	32.32174	10.26005669	1
## 9681	195	159.807941	31.674034612	175.93855	17.95191555	1
## 9682	417	293.653744	38.156037627	175.93855	25.83670343	1
## 9683	205	168.436052	61.337059313	175.93855	46.31732412	1
## 9684	71	73.539055	73.668407806	175.93855	59.15835498	1
## 9685	90	84.639839	134.286555145	175.93855	113.43605626	1
## 9686	118	109.238166	181.473323151	175.93855	153.86129645	1
## 9687	140	121.493217	212.159209819	175.93855	184.56751233	1
## 9688	135	130.769598	221.275620517	175.93855	195.69189846	1
## 9689	155	157.349319	226.274090549	175.93855	199.54089414	1
## 9690	211	206.065796	243.605766757	175.93855	215.06527184	1
## 9691	407	353.373903	251.092808764	175.93855	222.56355428	1
## 9692	405	330.536823	249.315746681	175.93855	220.51278791	1
## 9693	263	261.625357	254.792710703	175.93855	228.78408124	1
## 9694	214	164.019633	213.516143356	175.93855	190.42274820	1
## 9695	147	116.645136	208.020782241	175.93855	186.84891354	1
## 9696	102	88.663272	184.847914192	175.93855	166.44923002	1
## 9697	36	53.045918	229.573544600	175.93855	211.12755453	1
## 9698	14	16.683087	7.854824013	32.32174	-0.97124629	1
## 9699	6	8.289108	24.181461229	32.32174	14.93963686	1
## 9700	3	8.492485	70.666330745	32.32174	58.94141499	1
## 9701	3	5.843274	47.995140451	32.32174	38.34880245	1
## 9702	2	4.377742	28.512737139	32.32174	17.82958615	1
## 9703	22	16.527400	35.999779146	32.32174	25.32786858	1
## 9704	90	71.630413	61.616671264	32.32174	52.43104902	1
## 9705	280	253.454847	55.923172815	175.93855	45.98040587	1
## 9706	513	393.231280	39.802826571	175.93855	33.02726837	1
## 9707	262	220.998529	85.586197515	175.93855	74.34581444	1
## 9708	98	112.627844	84.986160947	175.93855	73.14210262	1
## 9709	112	123.646910	137.823737179	175.93855	121.90654730	1
## 9710	172	143.930974	130.846526564	175.93855	114.29627302	1
## 9711	173	160.152835	182.902068386	175.93855	161.70815756	1
## 9712	124	159.080873	203.265455302	175.93855	174.03406345	1
## 9713	145	154.857266	223.111625777	175.93855	194.52312347	1
## 9714	266	260.746483	236.394256675	175.93855	204.01965225	1

## 9715	523	437.782527	238.256641268	175.93855	204.82197869	1
## 9716	406	308.707667	213.681431202	175.93855	191.24687068	1
## 9717	281	242.251383	204.218615660	175.93855	186.24578481	1
## 9718	184	188.433231	225.891237116	175.93855	207.30648738	1
## 9719	109	116.265025	218.187660681	175.93855	201.62885512	1
## 9720	77	90.456495	225.674702688	175.93855	209.12713756	1
## 9721	57	70.594088	232.910905818	175.93855	216.72188450	1
## 9722	22	20.892171	33.711888562	32.32174	14.92914168	1
## 9723	5	9.020203	55.887871255	32.32174	35.79626782	1
## 9724	4	5.480835	33.997031889	32.32174	16.55686284	1
## 9725	3	5.333043	4.696145189	32.32174	-10.34520024	1
## 9726	1	4.550897	24.991920314	32.32174	6.99228671	1
## 9727	25	20.350773	32.478962321	32.32174	14.49056914	1
## 9728	95	77.878940	66.206116780	32.32174	45.68051716	1
## 9729	321	267.069010	64.179270865	175.93855	49.65748495	1
## 9730	515	404.012421	90.798863366	175.93855	64.18376773	1
## 9731	231	221.952249	97.784227618	175.93855	71.87497918	1
## 9732	120	129.143675	119.456849074	175.93855	92.93568175	1
## 9733	138	140.962493	141.381992890	175.93855	113.89927239	1
## 9734	163	172.904725	171.946911097	175.93855	140.39930269	1
## 9735	170	183.833157	190.153755881	175.93855	159.83982503	1
## 9736	134	165.754822	209.165818841	175.93855	176.01768085	1
## 9737	171	178.486239	214.391943985	175.93855	184.38543869	1
## 9738	231	259.084131	228.005321161	175.93855	198.38674810	1
## 9739	487	454.724966	235.492363168	175.93855	205.88503053	1
## 9740	468	356.665408	233.213623330	175.93855	204.02719318	1
## 9741	311	292.995590	227.216584460	175.93855	200.64628753	1
## 9742	211	193.049605	222.224584582	175.93855	196.87887644	1
## 9743	178	158.874463	208.392989497	175.93855	184.69886462	1
## 9744	107	108.853978	223.714587719	175.93855	200.99625322	1
## 9745	58	74.424918	222.111195640	175.93855	200.17839944	1
## 9746	23	23.833262	-0.284556188	32.32174	-12.95973753	1
## 9747	5	8.749221	4.941568956	32.32174	-4.59197969	1
## 9748	7	7.552275	13.937011194	32.32174	2.32622086	1
## 9749	1	4.286754	39.804742189	32.32174	29.33293680	1
## 9750	3	6.430102	27.231763500	32.32174	22.60057725	1
## 9751	20	17.105632	34.889736984	32.32174	25.40115004	1
## 9752	87	77.321373	43.885179222	32.32174	32.31935059	1
## 9753	288	268.263655	52.124737861	175.93855	39.52823949	1
## 9754	498	398.458692	58.859263236	175.93855	47.31591545	1
## 9755	202	211.907336	67.602183113	175.93855	54.33122793	1
## 9756	44	72.666588	78.755877654	175.93855	72.25712130	1
## 9757	71	72.505764	85.741241905	175.93855	79.94833275	1
## 9758	45	63.192918	79.718052223	175.93855	74.92417861	1
## 9759	64	85.281524	106.866528336	175.93855	96.83205051	1
## 9760	31	53.072236	85.400197852	175.93855	78.72909360	1
## 9761	53	96.906011	106.520123492	175.93855	102.95535077	1
## 9762	118	120.800801	102.957671488	175.93855	99.93788230	1
## 9763	289	220.179203	97.185320683	175.93855	94.81726365	1
## 9764	353	229.185775	106.933279553	175.93855	101.44607067	1
## 9765	258	197.352856	110.753669027	175.93855	98.51674216	1
## 9766	216	165.578499	117.737349796	175.93855	106.20860103	1
## 9767	145	127.210524	143.831452339	175.93855	131.47495654	1
## 9768	111	100.524054	143.709909760	175.93855	134.69354238	1

## 9769	73	73.623324	154.384683704	175.93855	136.33395141	1
## 9770	34	22.027049	-40.113752686	32.32174	-47.84381519	1
## 9771	18	12.238608	-45.886103492	32.32174	-52.96443384	1
## 9772	12	8.802939	-36.639822377	32.32174	-46.14269780	1
## 9773	1	3.654636	-35.002125848	32.32174	-43.60065835	1
## 9774	1	2.787575	-26.008367093	32.32174	-36.68181038	1
## 9775	16	11.860128	-19.023002841	32.32174	-28.99059894	1
## 9776	71	61.469019	-18.669018478	32.32174	-27.60819061	1
## 9777	226	193.989301	-5.053957820	175.93855	-13.60752862	1
## 9778	520	362.728461	-20.644792013	175.93855	-25.11099405	1
## 9779	283	267.967392	-13.157750006	175.93855	-17.61271162	1
## 9780	116	125.252817	88.267426967	175.93855	63.58804373	1
## 9781	142	147.612780	123.753820534	175.93855	94.10144536	1
## 9782	198	172.904725	171.946911097	175.93855	140.39930269	1
## 9783	205	183.546144	191.409633751	175.93855	159.35685508	1
## 9784	170	161.584893	212.156068571	175.93855	179.47403859	1
## 9785	221	188.829464	230.917292653	175.93855	195.74835892	1
## 9786	307	263.143440	243.023953081	175.93855	210.32910279	1
## 9787	465	409.056349	251.014356325	175.93855	217.63380879	1
## 9788	377	363.208021	244.764795095	175.93855	214.35001507	1
## 9789	282	282.268519	241.481016265	175.93855	212.87868317	1
## 9790	171	181.710503	258.733840117	175.93855	229.73308538	1
## 9791	129	133.776659	255.951739041	175.93855	228.06882446	1
## 9792	107	104.036112	251.463100402	175.93855	224.10783694	1
## 9793	82	79.124900	258.446781171	175.93855	231.79969580	1
## 9794	86	69.490140	71.799270859	32.32174	59.25713778	1
## 9795	45	46.141203	57.967675774	32.32174	47.07712596	1
## 9796	45	38.117194	34.593303425	32.32174	23.80192878	1
## 9797	18	16.430749	24.879649005	32.32174	18.89730742	1
## 9798	7	8.560674	13.708612416	32.32174	11.60014235	1
## 9799	1	6.205156	16.854709175	32.32174	13.56209991	1
## 9800	9	12.255284	22.833350952	32.32174	21.64046423	1
## 9801	41	39.508685	30.320392959	175.93855	29.13874666	1
## 9802	102	77.220130	-5.610190147	175.93855	-4.07276696	1
## 9803	138	123.000450	19.105382582	175.93855	17.47102034	1
## 9804	205	166.385727	36.081216743	175.93855	32.77863857	1
## 9805	286	226.543307	114.655544190	175.93855	105.42832527	1
## 9806	369	297.884038	165.784899375	175.93855	151.89669075	1
## 9807	384	327.022860	186.479032569	175.93855	168.72737727	1
## 9808	427	332.060602	224.599833819	175.93855	202.48037716	1
## 9809	499	366.595540	211.218898428	175.93855	193.08006191	1
## 9810	404	328.254633	219.183150860	175.93855	198.74151942	1
## 9811	364	319.406363	255.293874125	175.93855	233.26753021	1
## 9812	246	240.117560	252.762611927	175.93855	231.50680478	1
## 9813	188	196.153960	238.879998780	175.93855	222.29941855	1
## 9814	148	162.624530	246.367040787	175.93855	229.79770098	1
## 9815	114	123.640332	280.423886480	175.93855	259.56116000	1
## 9816	118	93.986112	263.256385139	175.93855	241.45831786	1
## 9817	74	69.200270	256.360365490	175.93855	244.70841130	1
## 9818	74	64.887547	80.015591414	32.32174	69.58839899	1
## 9819	72	58.816073	79.894048835	32.32174	72.80698483	1
## 9820	48	44.079912	88.664803008	32.32174	81.46489838	1
## 9821	15	21.190551	95.146806022	32.32174	89.34968626	1
## 9822	3	7.152946	88.499286641	32.32174	80.31292297	1

## 9823	2	4.592060	73.159291325	32.32174	68.71299303	1
## 9824	5	7.180031	68.140085590	32.32174	57.37106380	1
## 9825	14	26.040684	73.193595775	175.93855	70.43717870	1
## 9826	56	52.511357	70.332642344	175.93855	70.10294229	1
## 9827	93	80.826470	78.824723343	175.93855	77.21471927	1
## 9828	191	162.386255	101.000706037	175.93855	98.08184541	1
## 9829	226	192.226557	100.905714188	175.93855	96.68390975	1
## 9830	255	221.731925	121.824135529	175.93855	118.03465326	1
## 9831	261	225.134878	141.962834380	175.93855	132.10027216	1
## 9832	237	209.429827	162.961163122	175.93855	158.05226081	1
## 9833	253	225.784011	155.759264442	175.93855	152.18169953	1
## 9834	212	189.008140	179.443647366	175.93855	172.46874379	1
## 9835	157	161.074096	171.738387449	175.93855	166.79175894	1
## 9836	167	146.914758	180.482990809	175.93855	173.80642401	1
## 9837	119	120.871997	180.082775057	175.93855	175.47887327	1
## 9838	103	95.709975	188.073178301	175.93855	182.78357927	1
## 9839	36	49.277190	151.443435232	175.93855	159.07922580	1
## 9840	55	55.427797	129.726265870	175.93855	141.07273340	1
## 9841	35	43.383883	94.520993539	175.93855	99.99730812	1
## 9842	41	33.153821	-83.448101307	32.32174	-73.51504337	1
## 9843	15	23.560207	-75.961059300	32.32174	-66.01676094	1
## 9844	20	21.564835	-68.474017293	32.32174	-58.51847851	1
## 9845	8	9.643315	-45.970026848	32.32174	-39.07719397	1
## 9846	6	7.022545	18.176210110	32.32174	19.02247285	1
## 9847	10	11.169643	46.026813234	32.32174	37.68165975	1
## 9848	44	43.564544	37.848764901	175.93855	39.77147465	1
## 9849	120	93.123148	32.827875684	175.93855	28.43019283	1
## 9850	110	108.365686	40.314917691	175.93855	35.92847526	1
## 9851	143	134.610578	63.999300615	175.93855	56.21551952	1
## 9852	208	192.969869	97.145924963	175.93855	88.92842106	1
## 9853	281	231.719506	114.851091991	175.93855	108.56187243	1
## 9854	312	243.909101	135.822214876	175.93855	126.93934294	1
## 9855	263	238.710330	160.909594943	175.93855	152.59285132	1
## 9856	289	247.392299	179.169141270	175.93855	169.06010067	1
## 9857	280	241.777666	201.544944780	175.93855	192.80338788	1
## 9858	253	237.596318	221.812885610	175.93855	208.49827375	1
## 9859	242	214.593032	201.630267291	175.93855	191.55494796	1
## 9860	172	174.236689	209.117309298	175.93855	199.05323039	1
## 9861	126	129.196350	216.100990068	175.93855	206.74508926	1
## 9862	98	89.461218	200.338169353	175.93855	194.00806383	1
## 9863	62	67.183081	193.309940677	175.93855	189.37041514	1
## 9864	26	49.251157	212.547975266	175.93855	210.06768053	1
## 9865	12	15.326272	-1.515338290	32.32174	-16.76478872	1
## 9866	7	7.158155	25.860792936	32.32174	9.66184534	1
## 9867	3	6.332831	18.658894257	32.32174	3.79128406	1
## 9868	2	4.070229	18.944037584	32.32174	5.41900522	1
## 9869	15	12.790516	9.532240103	32.32174	-2.55470624	1
## 9870	86	61.543223	3.759889297	32.32174	-7.67532489	1
## 9871	279	224.033459	41.405163605	175.93855	27.91385251	1
## 9872	464	370.169525	33.501766354	175.93855	19.36005918	1
## 9873	217	224.150920	27.980254426	175.93855	14.14297602	1
## 9874	85	99.413205	59.722198148	175.93855	41.49006086	1
## 9875	86	94.781165	72.887654156	175.93855	58.64229592	1
## 9876	163	140.781442	124.771209456	175.93855	104.82062046	1

## 9877	131	147.806294	161.607243497	175.93855	131.48271959	1
## 9878	124	123.798912	152.224335355	175.93855	131.08287885	1
## 9879	160	152.618020	176.581327511	175.93855	146.47928445	1
## 9880	254	203.987862	196.547411402	175.93855	165.24326041	1
## 9881	432	373.552397	223.646552938	175.93855	190.12311048	1
## 9882	425	366.942155	231.133594945	175.93855	197.62139291	1
## 9883	304	258.486907	216.998459438	175.93855	188.51111860	1
## 9884	227	183.240528	202.412664237	175.93855	176.62114772	1
## 9885	154	157.381796	190.713799080	175.93855	167.87366318	1
## 9886	100	98.975996	174.924199114	175.93855	159.42530631	1
## 9887	47	63.033190	189.794082598	175.93855	167.01172871	1
## 9888	24	22.261395	17.592116436	32.32174	-5.44876722	1
## 9889	7	10.152098	14.731163005	32.32174	-5.78300364	1
## 9890	6	6.682180	39.420584921	32.32174	14.11753518	1
## 9891	4	4.860159	33.173762218	32.32174	16.76436368	1
## 9892	2	3.651721	41.335096939	32.32174	19.37136003	1
## 9893	30	20.638725	44.177653278	32.32174	24.40305511	1
## 9894	90	75.940048	39.410341465	32.32174	18.89593101	1
## 9895	302	277.526204	45.641505602	175.93855	26.87718340	1
## 9896	576	442.674166	49.489100933	175.93855	31.52237303	1
## 9897	252	234.904040	73.874982428	175.93855	54.49264935	1
## 9898	139	141.802156	85.001471111	175.93855	64.84402458	1
## 9899	171	156.027938	110.643230477	175.93855	87.33133095	1
## 9900	207	164.012421	140.678636635	175.93855	112.38168917	1
## 9901	190	175.704293	171.945053414	175.93855	141.56495153	1
## 9902	177	170.891057	185.784802137	175.93855	153.82590051	1
## 9903	195	186.885796	263.154269774	316.20792	223.98593159	1
## 9904	298	245.241643	281.664654979	316.20792	240.35671643	1
## 9905	529	469.076489	281.266122709	316.20792	242.02851827	1
## 9906	525	401.128084	254.481013841	175.93855	226.35026008	1
## 9907	327	291.089812	248.734813849	175.93855	222.87288993	1
## 9908	274	225.904283	242.234413741	175.93855	219.68556071	1
## 9909	239	207.599813	293.867130164	175.93855	265.96034976	1
## 9910	147	130.452300	258.213536748	175.93855	234.29562013	1
## 9911	62	94.435384	285.312678283	175.93855	259.17547020	1
## 9912	42	36.563720	93.498612593	32.32174	69.33340663	1
## 9913	15	15.293853	77.180129015	32.32174	53.50346064	1
## 9914	9	10.977407	74.822536821	32.32174	52.97564780	1
## 9915	6	8.059045	69.077391872	32.32174	55.42954729	1
## 9916	1	7.131710	48.838678356	32.32174	23.33783264	1
## 9917	32	24.098748	56.325720363	32.32174	30.83611507	1
## 9918	91	81.230012	27.301823354	32.32174	5.48083598	1
## 9919	326	273.164377	48.551619411	175.93855	25.40444306	1
## 9920	560	416.794242	36.426561890	175.93855	15.52115786	1
## 9921	242	212.026472	64.027381180	175.93855	40.20807891	1
## 9922	148	158.475178	118.996003858	175.93855	92.40569827	1
## 9923	182	167.254114	187.527559769	175.93855	154.15248121	1
## 9924	224	186.789467	213.619978830	316.20792	179.41948414	1
## 9925	218	194.838676	232.581023728	316.20792	198.56996555	1
## 9926	192	183.524447	251.342247810	316.20792	214.84428588	1
## 9927	217	216.743280	265.658807040	316.20792	231.52817993	1
## 9928	343	325.969233	278.944176465	316.20792	246.95533093	1
## 9929	610	516.455580	283.346151094	316.20792	248.43431854	1
## 9930	522	482.329644	279.280337853	316.20792	245.61042650	1

## 9931	369	357.261087	269.896374667	316.20792	239.27931613	1
## 9932	269	240.821048	255.387748340	175.93855	226.05996816	1
## 9933	222	185.034116	243.064553485	175.93855	213.29987446	1
## 9934	137	127.299179	244.423576841	175.93855	214.29577734	1
## 9935	85	95.522203	247.639623999	175.93855	223.43654607	1
## 9936	46	35.962908	66.427131152	32.32174	47.26115907	1
## 9937	18	15.302025	68.511465283	32.32174	40.39315028	1
## 9938	5	7.683033	35.150416597	32.32174	21.36343819	1
## 9939	5	6.394520	32.433188785	32.32174	8.75697399	1
## 9940	2	5.982600	23.021391303	32.32174	0.78326254	1
## 9941	26	22.903620	29.834140596	32.32174	13.17283105	1
## 9942	82	79.079832	36.819504848	32.32174	20.86404249	1
## 9943	272	240.568573	69.620472670	175.93855	51.11047146	1
## 9944	469	355.434168	73.017408307	175.93855	52.97596452	1
## 9945	244	169.188109	60.668717766	175.93855	50.76366196	1
## 9946	141	119.907846	66.649043025	175.93855	58.84137886	1
## 9947	163	137.093178	74.810377746	175.93855	61.44837521	1
## 9948	228	175.978095	105.547282475	175.93855	89.18196550	1
## 9949	183	162.573308	129.431486216	175.93855	112.34517084	1
## 9950	31	112.691438	157.456814388	175.93855	138.16853996	1
## 9951	94	114.316061	103.025228959	175.93855	93.43344689	1
## 9952	178	144.459555	110.512270966	175.93855	100.93172932	1
## 9953	256	188.893577	106.872650089	175.93855	99.24363794	1
## 9954	300	271.552606	114.279784696	175.93855	102.14067524	1
## 9955	233	230.123215	142.634804101	175.93855	126.53755535	1
## 9956	167	182.921299	214.534580510	175.93855	181.41095919	1
## 9957	152	154.816549	282.373139889	175.93855	238.22544439	1
## 9958	106	106.239024	275.821721720	175.93855	238.01074076	1
## 9959	86	83.550337	279.218657357	175.93855	239.87623382	1
## 9960	61	55.780361	79.208034629	32.32174	60.66067330	1
## 9961	46	45.440645	82.552268722	32.32174	65.49943936	1
## 9962	38	37.097060	75.801029737	32.32174	62.40857465	1
## 9963	7	12.636318	78.192926381	32.32174	64.66057316	1
## 9964	2	7.180687	92.813026032	32.32174	78.27472970	1
## 9965	3	6.463558	98.117375094	32.32174	91.24438009	1
## 9966	13	14.361209	105.604417101	32.32174	98.74266252	1
## 9967	23	56.012035	104.805188154	175.93855	88.73087257	1
## 9968	93	95.481377	97.299749053	175.93855	85.93004880	1
## 9969	122	108.532319	30.565530271	175.93855	37.09279701	1
## 9970	183	166.574482	86.760086435	175.93855	75.30230605	1
## 9971	210	174.536870	156.624689091	175.93855	135.23674194	1
## 9972	258	220.207766	192.814264712	175.93855	168.43272822	1
## 9973	226	202.208678	193.117231014	175.93855	172.78776213	1
## 9974	216	209.815765	206.029109618	175.93855	184.10583948	1
## 9975	232	201.454481	211.255234762	175.93855	192.47359731	1
## 9976	195	198.391270	228.136251276	175.93855	205.21827845	1
## 9977	159	154.868249	210.535339097	175.93855	194.48782392	1
## 9978	133	143.452488	232.841192208	175.93855	211.05229997	1
## 9979	149	126.829651	215.319132385	175.93855	198.99182093	1
## 9980	105	94.561263	231.193426424	175.93855	212.12365493	1
## 9981	85	78.080027	218.013995331	175.93855	205.59885334	1
## 9982	82	72.843780	221.132257795	175.93855	205.91820983	1
## 9983	91	67.769985	221.235403281	175.93855	207.39708266	1
## 9984	70	48.867994	48.028398126	32.32174	35.32309218	1

## 9985	55	42.512170	48.384065972	32.32174	36.70485308	1
## 9986	42	34.526376	55.871107979	32.32174	44.20313552	1
## 9987	21	18.338563	67.725246047	32.32174	58.88099131	1
## 9988	6	9.576540	75.212288054	32.32174	66.37927374	1
## 9989	5	6.096400	70.723649414	32.32174	62.41828621	1
## 9990	2	8.038185	79.969930529	32.32174	69.24002226	1
## 9991	22	27.976178	65.634974205	175.93855	57.25358687	1
## 9992	59	48.723902	72.367816097	175.93855	65.04191024	1
## 9993	87	77.570081	94.042121036	175.93855	86.10196540	1
## 9994	188	157.583344	125.482207819	175.93855	116.51814033	1
## 9995	227	187.870786	140.828673290	175.93855	128.19965486	1
## 9996	305	227.481567	156.071419156	175.93855	145.82706796	1
## 9997	325	250.143966	173.776586185	175.93855	165.46051933	1
## 9998	331	260.042430	198.162467680	175.93855	188.43079565	1
## 9999	353	274.253705	215.918652770	175.93855	205.09162142	1
## 10000	339	266.194637	221.046993219	175.93855	204.63796701	1
## 10001	287	245.851191	228.032357471	175.93855	212.32917846	1
## 10002	216	181.283071	221.835497784	175.93855	206.07211174	1
## 10003	143	143.730634	231.732259410	175.93855	218.54970543	1
## 10004	88	95.291219	215.690765522	175.93855	204.26654343	1
## 10005	83	81.487920	210.195404407	175.93855	200.69270876	1
## 10006	71	70.052561	225.820543051	175.93855	213.92035986	1
## 10007	64	55.501033	189.665271880	175.93855	182.44855924	1
## 10008	29	20.442889	13.805150569	32.32174	-7.89152412	1
## 10009	6	7.815515	9.741020811	32.32174	-10.71606357	1
## 10010	4	6.046907	7.434446678	32.32174	-14.21650200	1
## 10011	2	4.047443	-4.238267667	32.32174	-21.32073805	1
## 10012	1	2.869797	-14.153426386	32.32174	-29.10087307	1
## 10013	16	13.091837	-6.666384379	32.32174	-21.60259064	1
## 10014	90	72.050018	30.779069112	32.32174	11.11042568	1
## 10015	280	240.860020	59.863421385	175.93855	39.83313894	1
## 10016	528	402.096742	63.581146299	175.93855	48.78097865	1
## 10017	230	223.852883	80.183489640	175.93855	59.97952322	1
## 10018	104	121.914287	139.372089105	175.93855	113.50728186	1
## 10019	103	134.872560	162.977619673	175.93855	135.12435063	1
## 10020	177	172.097722	196.176945564	175.93855	164.86397918	1
## 10021	182	183.833157	190.153755881	175.93855	159.83982503	1
## 10022	158	171.674987	230.658125937	175.93855	196.92888769	1
## 10023	174	174.051051	282.263008065	316.20792	241.56107565	1
## 10024	286	274.582550	293.892857985	316.20792	251.71887446	1
## 10025	529	482.347244	305.799697597	316.20792	263.42345725	1
## 10026	527	472.124481	300.304336482	316.20792	259.84962259	1
## 10027	334	336.055095	297.020557651	316.20792	258.37829069	1
## 10028	219	224.795359	289.315297734	175.93855	252.70130585	1
## 10029	195	180.101903	283.067419987	175.93855	249.41686471	1
## 10030	92	118.979558	266.522564861	175.93855	235.32727914	1
## 10031	56	85.068709	253.394151830	175.93855	225.82985197	1
## 10032	10	21.379314	71.849229222	32.32174	45.15033175	1
## 10033	6	10.552579	50.461751093	32.32174	25.71735034	1
## 10034	3	7.860393	80.472290003	32.32174	55.38358264	1
## 10035	6	9.470217	140.848100504	32.32174	107.50868274	1
## 10036	2	6.362842	102.838772577	32.32174	74.15049143	1
## 10037	21	15.531548	110.325814584	32.32174	81.64877386	1
## 10038	101	80.441973	104.832136952	32.32174	78.07429178	1

## 10039	325	269.286643	105.966472243	175.93855	80.80990766	1
## 10040	559	387.974708	100.723633488	175.93855	77.13896107	1
## 10041	232	201.701976	121.945595250	175.93855	95.41996707	1
## 10042	132	125.085893	140.906640148	175.93855	114.57044848	1
## 10043	163	138.490559	172.597565809	175.93855	144.89015891	1
## 10044	183	172.784072	188.343672913	175.93855	162.32399558	1
## 10045	190	171.445347	199.748834769	175.93855	174.22150739	1
## 10046	134	154.232858	227.774162941	175.93855	200.04487652	1
## 10047	166	196.729104	245.279509153	175.93855	216.80216680	1
## 10048	287	268.345271	248.346753556	175.93855	220.09414888	1
## 10049	530	430.407777	260.253593167	175.93855	231.79873167	1
## 10050	449	423.115356	264.576715440	175.93855	234.60774378	1
## 10051	306	319.435588	273.719276951	175.93855	247.37537841	1
## 10052	204	198.295737	268.778295134	175.93855	240.63534173	1
## 10053	188	154.042517	222.857242118	175.93855	199.80742133	1
## 10054	101	108.558411	230.344284125	175.93855	207.30570377	1
## 10055	65	63.459317	218.522767025	175.93855	194.35268105	1
## 10056	32	24.843321	44.310722878	32.32174	22.66519602	1
## 10057	6	11.149037	60.637360093	32.32174	38.57607917	1
## 10058	4	6.402905	48.815842993	32.32174	25.62305646	1
## 10059	2	5.061574	17.254039430	32.32174	-0.40953122	1
## 10060	29	20.834711	15.329283955	32.32174	-0.88496024	1
## 10061	104	84.851501	26.986339733	32.32174	16.84735670	1
## 10062	253	231.099534	16.117160082	175.93855	6.48110154	1
## 10063	116	256.709973	42.211262625	175.93855	31.74745706	1
## 10064	38	80.956987	41.613964583	175.93855	36.47436747	1
## 10065	10	43.902296	49.101006590	175.93855	43.97264990	1
## 10066	10	46.309339	43.830333540	175.93855	38.65910223	1
## 10067	70	71.804583	46.169928558	175.93855	37.62460375	1
## 10068	76	80.280399	67.536670984	175.93855	49.56465161	1
## 10069	56	78.060221	75.023712991	175.93855	57.06293404	1
## 10070	90	108.716147	117.262454907	175.93855	98.09132439	1
## 10071	167	139.341537	122.065126214	175.93855	111.25390379	1
## 10072	253	226.589576	119.176966925	175.93855	103.34514924	1
## 10073	192	214.953178	122.220399125	175.93855	117.18427504	1
## 10074	102	177.704311	133.146011947	175.93855	118.72821956	1
## 10075	97	93.113905	143.598207915	175.93855	133.97088087	1
## 10076	39	68.612721	151.085249922	175.93855	141.46916330	1
## 10077	55	57.446239	146.819615865	175.93855	135.76911019	1
## 10078	33	47.943369	154.306657872	175.93855	143.26739262	1
## 10079	11	21.485773	-20.318125980	32.32174	-32.30105690	1
## 10080	12	15.412363	-1.052485615	32.32174	-10.28904336	1
## 10081	6	9.604547	11.129005077	32.32174	-9.22806880	1
## 10082	3	6.472828	19.290339799	32.32174	-6.62107244	1
## 10083	5	7.420309	45.382758859	32.32174	18.64593049	1
## 10084	18	19.842117	52.368123111	32.32174	26.33714194	1
## 10085	109	87.594000	24.604126063	32.32174	12.68863769	1
## 10086	304	305.825449	40.201430411	175.93855	24.27368770	1
## 10087	594	455.286754	43.518458647	175.93855	21.53793562	1
## 10088	286	278.099917	102.282549231	175.93855	73.92924620	1
## 10089	133	155.026898	174.428684571	316.20792	143.14499602	1
## 10090	168	194.954549	220.634880914	316.20792	185.60063758	1
## 10091	220	211.980182	241.884676971	316.20792	205.52424466	1
## 10092	211	220.911282	266.772236222	316.20792	228.30159196	1

## 10093	211	215.260392	267.127904068	316.20792	229.68335287	1
## 10094	223	220.594386	289.805564516	316.20792	250.35754999	1
## 10095	361	330.456269	289.987562358	316.20792	250.50639832	1
## 10096	600	523.184760	284.995562481	316.20792	246.73898722	1
## 10097	525	495.643687	289.848196805	316.20792	250.99767140	1
## 10098	328	315.799480	263.816233007	175.93855	229.09810263	1
## 10099	254	219.608281	254.481604399	175.93855	219.79501408	1
## 10100	197	171.211483	250.243804637	175.93855	215.73756204	1
## 10101	126	112.711600	235.883981066	175.93855	208.36700074	1
## 10102	85	78.635769	237.019999840	175.93855	211.10196920	1
## 10103	46	29.082135	51.333952800	32.32174	27.76228519	1
## 10104	20	14.174184	68.665629008	32.32174	43.28666290	1
## 10105	6	6.432539	68.318114800	32.32174	41.98583916	1
## 10106	3	4.829333	59.607815890	32.32174	36.69535976	1
## 10107	2	4.901786	54.989306833	32.32174	37.03702233	1
## 10108	24	20.477443	36.737914143	32.32174	20.65071015	1
## 10109	92	75.485243	44.224956151	32.32174	28.14899258	1
## 10110	262	248.818593	51.711998158	175.93855	35.64727501	1
## 10111	549	408.291652	43.808600906	175.93855	27.09348168	1
## 10112	314	249.571519	42.377195349	175.93855	27.50918789	1
## 10113	132	142.679557	138.683414755	175.93855	114.01080304	1
## 10114	194	158.913205	161.361075204	175.93855	134.68500016	1
## 10115	234	171.771245	180.825481340	175.93855	153.64190514	1
## 10116	222	192.894628	192.957009016	175.93855	163.60677493	1
## 10117	205	183.603429	205.619103787	175.93855	180.95258642	1
## 10118	78	121.995243	194.248246381	175.93855	170.77926027	1
## 10119	50	97.272155	176.527420786	175.93855	161.77388980	1
## 10120	128	147.442021	120.232221519	175.93855	111.47020207	1
## 10121	160	154.521882	113.956509476	175.93855	106.54315985	1
## 10122	174	148.350255	121.443551483	175.93855	114.04144228	1
## 10123	100	113.770550	130.609925197	175.93855	116.26193319	1
## 10124	101	89.520315	134.660079871	175.93855	129.71390612	1
## 10125	75	77.582509	142.318053355	175.93855	132.51447891	1
## 10126	23	54.323286	149.805095362	175.93855	140.01276134	1
## 10127	22	33.666137	-39.501918401	32.32174	-31.48137379	1
## 10128	44	37.562806	-33.523276624	32.32174	-23.40300948	1
## 10129	38	33.692449	-24.527834387	32.32174	-16.48480893	1
## 10130	21	15.989968	-14.105582802	32.32174	-14.74728798	1
## 10131	2	5.814517	-6.116863040	32.32174	-7.44193456	1
## 10132	2	6.678990	-0.387376659	32.32174	0.73224684	1
## 10133	7	13.267340	7.099665348	32.32174	8.23052928	1
## 10134	16	47.935686	15.339223988	175.93855	15.43941818	1
## 10135	48	84.658817	18.886017425	175.93855	29.08496754	1
## 10136	94	98.328985	46.990197953	175.93855	53.57831217	1
## 10137	168	181.383708	60.497516915	175.93855	61.33512794	1
## 10138	214	199.762108	69.492959153	175.93855	68.25332849	1
## 10139	299	222.660570	129.789917297	175.93855	121.70845309	1
## 10140	339	278.052759	180.667378561	175.93855	162.34201344	1
## 10141	430	309.827522	209.049603823	175.93855	194.31341169	1
## 10142	399	377.874811	256.208766054	175.93855	233.42390374	1
## 10143	467	418.700871	273.964951144	316.20792	250.08472952	1
## 10144	385	371.071009	290.794949597	316.20792	265.80203624	1
## 10145	303	338.936583	292.604632647	316.20792	269.57763568	1
## 10146	225	221.841520	269.207076533	175.93855	250.91766516	1

## 10147	149	161.935270	276.971108231	175.93855	259.96273158	1
## 10148	154	153.161994	317.884021877	175.93855	294.29528071	1
## 10149	134	132.661795	311.834281463	175.93855	293.88764807	1
## 10150	106	113.080483	304.581364723	175.93855	290.98971238	1
## 10151	72	66.495920	117.621562519	32.32174	103.91283121	1
## 10152	76	67.830777	107.655385739	32.32174	99.10532177	1
## 10153	80	61.156372	95.532011700	32.32174	89.22138915	1
## 10154	26	27.409999	95.885996064	32.32174	90.60379748	1
## 10155	14	12.188462	91.899035179	32.32174	86.44988093	1
## 10156	5	9.788066	99.889438424	32.32174	93.75458693	1
## 10157	5	10.848724	83.674274532	32.32174	78.23851235	1
## 10158	23	45.084501	91.161316539	175.93855	85.73679478	1
## 10159	66	79.835723	100.831051491	175.93855	87.76370926	1
## 10160	118	112.911676	116.957867890	175.93855	100.79843134	1
## 10161	192	165.513699	122.434831911	175.93855	109.06972466	1
## 10162	256	208.174607	145.615853597	175.93855	129.55034536	1
## 10163	327	271.418322	165.078576251	175.93855	148.50789775	1
## 10164	364	303.366722	189.464457747	175.93855	171.47817407	1
## 10165	332	299.029588	203.581196160	175.93855	185.28590704	1
## 10166	334	289.207094	218.252313872	175.93855	195.92743799	1
## 10167	299	275.264393	231.865691048	175.93855	209.92874740	1
## 10168	263	237.082773	230.088628965	175.93855	207.87798103	1
## 10169	184	184.210959	228.311566883	175.93855	205.82721467	1
## 10170	132	129.917959	221.309489020	175.93855	202.83281447	1
## 10171	88	86.584616	214.507231974	175.93855	202.71457535	1
## 10172	79	81.464140	225.912393830	175.93855	214.61208716	1
## 10173	62	65.286566	217.002274103	175.93855	206.44544669	1
## 10174	26	53.157524	223.484277118	175.93855	214.33023457	1
## 10175	17	16.983166	42.477992383	32.32174	21.71649287	1
## 10176	6	6.652458	40.120400189	32.32174	21.18868003	1
## 10177	4	4.662956	47.607442196	32.32174	28.68696246	1
## 10178	1	2.983053	43.118803556	32.32174	24.72597493	1
## 10179	1	4.355305	34.661027007	32.32174	19.33838361	1
## 10180	18	14.443404	42.148069014	32.32174	26.83666605	1
## 10181	91	67.801735	35.698686967	32.32174	20.67671124	1
## 10182	260	209.812212	43.185728974	175.93855	28.17499368	1
## 10183	428	362.544247	56.020438704	175.93855	40.82244811	1
## 10184	197	184.883303	65.216756803	175.93855	56.54807938	1
## 10185	86	103.716369	77.044744058	175.93855	69.58268668	1
## 10186	103	112.453811	101.481643614	175.93855	89.58033741	1
## 10187	137	123.015533	115.547363966	175.93855	106.36069597	1
## 10188	120	122.116169	121.429904531	175.93855	105.61700062	1
## 10189	128	125.649549	131.351533405	175.93855	113.47872023	1
## 10190	130	125.255722	150.763237998	175.93855	135.40889821	1
## 10191	210	169.085504	179.368041236	175.93855	153.77804417	1
## 10192	387	284.550180	183.496419829	175.93855	171.83190965	1
## 10193	375	289.586188	169.065362293	175.93855	151.02341460	1
## 10194	226	168.163413	171.195408014	175.93855	150.01817400	1
## 10195	179	147.074659	218.060986825	175.93855	189.62083753	1
## 10196	120	104.106179	224.292150962	175.93855	197.60208992	1
## 10197	78	74.267057	229.344606102	175.93855	204.73693517	1
## 10198	31	45.056091	230.833499875	175.93855	201.43018796	1
## 10199	8	12.228980	53.857177627	32.32174	30.80575476	1
## 10200	6	7.344908	39.271382426	32.32174	18.91578388	1

## 10201	4	5.568285	46.256746678	32.32174	26.60699533	1
## 10202	1	3.881987	33.430190585	32.32174	14.04047806	1
## 10203	3	4.542977	41.168071470	32.32174	21.44229599	1
## 10204	25	15.704885	47.399235607	32.32174	29.42354838	1
## 10205	102	69.356348	52.876199628	32.32174	37.69484171	1
## 10206	275	205.952045	46.175978704	175.93855	31.63135141	1
## 10207	501	352.521798	44.321747748	175.93855	30.90996214	1
## 10208	233	195.670356	94.116372707	175.93855	79.19132208	1
## 10209	129	110.334971	114.082456598	175.93855	97.95529804	1
## 10210	130	119.898474	136.812818590	175.93855	115.65622216	1
## 10211	138	122.124348	143.294821604	175.93855	123.54101004	1
## 10212	164	128.235642	167.402029927	175.93855	144.96514979	1
## 10213	136	120.114142	188.876514049	175.93855	163.14904387	1
## 10214	166	138.426568	203.468779404	175.93855	175.12059933	1
## 10215	250	201.459289	225.393923220	175.93855	196.08418998	1
## 10216	446	322.216980	228.461167623	175.93855	199.37617205	1
## 10217	457	321.149956	213.173873851	175.93855	184.80296911	1
## 10218	287	227.623410	211.317959412	175.93855	184.08222725	1
## 10219	187	147.118208	204.566720427	175.93855	180.99136255	1
## 10220	148	116.898319	212.053762434	175.93855	188.48964498	1
## 10221	106	81.207524	191.871144115	175.93855	171.54631919	1
## 10222	54	52.422333	189.313731104	175.93855	168.14234527	1
## 10223	15	17.099181	9.277208726	32.32174	-13.11725683	1
## 10224	5	10.038138	31.704030297	32.32174	7.65340480	1
## 10225	4	6.135354	49.989727437	32.32174	25.76390265	1
## 10226	3	5.754581	58.732647315	32.32174	32.77921512	1
## 10227	3	6.571363	48.819172078	32.32174	24.99843268	1
## 10228	18	15.450397	66.852346858	32.32174	43.20604245	1
## 10229	108	79.554606	64.798295085	32.32174	39.60849210	1
## 10230	344	245.159426	57.596396405	175.93855	33.73793082	1
## 10231	566	387.238085	78.263978869	175.93855	55.18513884	1
## 10232	264	215.835885	92.103727591	175.93855	67.44608783	1
## 10233	147	135.246730	140.944331618	175.93855	113.14132763	1
## 10234	161	159.605737	192.498195685	175.93855	160.74614119	1
## 10235	215	195.239896	207.342983400	175.93855	172.62058473	1
## 10236	205	204.295749	241.719334806	316.20792	203.20726782	1
## 10237	175	187.932555	249.129207939	316.20792	212.03492734	1
## 10238	209	213.138970	262.265774607	316.20792	221.61329168	1
## 10239	288	309.018753	275.098800855	316.20792	234.26139353	1
## 10240	612	524.757057	270.582327920	316.20792	228.65780492	1
## 10241	544	513.403442	284.197388578	316.20792	242.65846691	1
## 10242	361	367.307965	279.656048395	316.20792	241.67075239	1
## 10243	260	245.206162	253.796071119	316.20792	221.00474361	1
## 10244	188	164.477515	219.426189869	175.93855	190.49964510	1
## 10245	159	139.434787	240.146473875	175.93855	208.97358012	1
## 10246	62	76.025864	235.657835235	175.93855	205.01259259	1
## 10247	46	36.711242	63.455869073	32.32174	32.55209666	1
## 10248	21	17.772688	74.582357757	32.32174	42.90347190	1
## 10249	11	11.257215	83.074438756	32.32174	50.01524888	1
## 10250	3	7.651340	90.561480763	32.32174	57.51353132	1
## 10251	2	6.681893	70.550848966	32.32174	41.80376553	1
## 10252	29	26.368863	60.134012491	32.32174	34.21655952	1
## 10253	109	90.648923	68.122732254	32.32174	41.52191293	1
## 10254	334	312.005725	77.369013368	175.93855	48.34364898	1

## 10255	585	480.288038	91.208762091	175.93855	60.60459796	1
## 10256	301	261.952811	116.850521457	175.93855	83.09190433	1
## 10257	138	170.580270	144.875849629	316.20792	108.91527345	1
## 10258	204	196.886059	180.061441302	316.20792	148.42903482	1
## 10259	251	217.673236	193.146989910	316.20792	160.98002475	1
## 10260	233	234.990097	239.907565551	316.20792	200.26946428	1
## 10261	203	236.447107	266.503345849	316.20792	225.34289078	1
## 10262	185	211.616375	293.322759167	316.20792	242.74533464	1
## 10263	342	349.482148	285.897227467	316.20792	244.54575601	1
## 10264	597	528.050169	301.944136466	316.20792	252.97923295	1
## 10265	590	542.579786	305.992607658	316.20792	266.43185329	1
## 10266	416	415.855473	301.452950957	316.20792	265.44349135	1
## 10267	302	318.311650	301.305257565	316.20792	267.01882869	1
## 10268	233	229.919001	310.471631279	316.20792	269.23931960	1
## 10269	153	160.089784	291.995550525	316.20792	254.59272042	1
## 10270	94	118.299655	299.813338810	316.20792	266.59578348	1
## 10271	54	52.476371	133.711557004	32.32174	98.99506603	1
## 10272	26	26.641440	127.541903174	32.32174	100.31251744	1
## 10273	11	12.826744	55.128215346	32.32174	35.89004338	1
## 10274	7	10.875166	61.883814397	32.32174	27.19995338	1
## 10275	1	7.593392	68.752887407	32.32174	55.06576369	1
## 10276	29	20.102124	76.239929414	32.32174	62.56404612	1
## 10277	85	71.605535	122.020561832	32.32174	97.95196995	1
## 10278	268	227.017647	144.752207389	175.93855	121.91201665	1
## 10279	501	372.011855	139.890077929	175.93855	113.84195547	1
## 10280	284	283.204046	147.377119936	175.93855	121.34023790	1
## 10281	159	169.855576	167.620193518	175.93855	141.65099784	1
## 10282	187	162.480168	183.115461744	175.93855	159.18129903	1
## 10283	201	175.736674	193.286874451	175.93855	161.01528449	1
## 10284	224	172.620744	215.491746484	175.93855	189.45628135	1
## 10285	178	189.087355	239.822587827	175.93855	203.20943845	1
## 10286	238	233.617800	264.329437783	175.93855	230.38590035	1
## 10287	343	299.987527	282.640002171	175.93855	243.88052411	1
## 10288	566	418.881358	281.566122143	175.93855	244.51234240	1
## 10289	470	385.242893	281.044937931	175.93855	241.97860608	1
## 10290	244	241.273716	279.769553603	175.93855	239.73491069	1
## 10291	159	155.502341	262.447314597	175.93855	230.55059274	1
## 10292	141	130.595522	259.163535767	175.93855	229.07926084	1
## 10293	107	95.436519	270.193523320	175.93855	236.86834640	1
## 10294	86	77.597257	264.145466389	175.93855	236.46006634	1
## 10295	77	65.807470	76.794774023	32.32174	61.23492367	1
## 10296	51	55.398774	82.522576922	32.32174	69.40975249	1
## 10297	42	34.503010	67.261433962	32.32174	56.47979805	1
## 10298	16	17.144434	75.502676085	32.32174	63.68803954	1
## 10299	4	8.915159	78.145411606	32.32174	65.84357354	1
## 10300	10	9.433635	76.317331463	32.32174	66.76543276	1
## 10301	12	12.520613	79.384575865	32.32174	70.05741484	1
## 10302	40	44.708403	86.368256635	175.93855	77.74927370	1
## 10303	111	87.914088	94.609498757	175.93855	84.95751519	1
## 10304	148	127.587056	115.078943886	175.93855	103.52791472	1
## 10305	223	188.404011	143.181440932	175.93855	128.02190675	1
## 10306	274	242.345091	165.280254751	175.93855	150.21840998	1
## 10307	329	259.001631	172.767296759	175.93855	157.71669242	1
## 10308	357	293.666420	194.189079337	175.93855	178.87385949	1

## 10309	379	313.910070	211.945264426	175.93855	195.53468527	1
## 10310	406	311.728739	219.077747952	175.93855	209.07533080	1
## 10311	390	321.628305	236.833933041	175.93855	225.73615658	1
## 10312	354	311.261127	244.320975048	175.93855	233.23443901	1
## 10313	297	272.845838	257.736214890	175.93855	244.35893992	1
## 10314	184	198.997114	249.025915980	175.93855	239.06846053	1
## 10315	121	119.200353	235.245338955	175.93855	223.91582312	1
## 10316	110	91.425956	225.132042902	175.93855	213.25887961	1
## 10317	100	72.717605	208.865860949	175.93855	200.71543061	1
## 10318	83	53.157524	223.484277118	175.93855	214.33023457	1
## 10319	69	51.796168	42.895058924	32.32174	36.23618707	1
## 10320	61	40.084377	28.109442906	32.32174	21.47005512	1
## 10321	66	31.589505	24.900975266	32.32174	19.83499497	1
## 10322	22	18.254646	32.388017273	32.32174	27.33327740	1
## 10323	7	9.697496	40.378420518	32.32174	34.63798340	1
## 10324	10	10.688091	25.766474504	32.32174	21.10476403	1
## 10325	17	27.847078	29.110708598	175.93855	25.94353008	1
## 10326	72	59.221292	36.597750605	175.93855	33.44181252	1
## 10327	90	88.827806	77.180973017	175.93855	69.20085066	1
## 10328	218	172.085418	127.529977274	175.93855	114.31600859	1
## 10329	299	249.770301	159.975103050	175.93855	144.34567808	1
## 10330	410	322.959522	192.671067704	175.93855	174.27888305	1
## 10331	464	336.073653	197.167859981	175.93855	178.32080775	1
## 10332	501	367.038970	238.201742087	175.93855	216.85954247	1
## 10333	487	412.167650	262.058111533	316.20792	238.38014672	1
## 10334	509	395.234707	266.130394928	316.20792	241.28562335	1
## 10335	498	431.711377	287.301338629	316.20792	262.53925493	1
## 10336	389	377.042010	290.117744154	316.20792	265.92770151	1
## 10337	258	287.674573	287.335643079	316.20792	264.26344060	1
## 10338	171	160.060249	240.911228826	175.93855	223.62909663	1
## 10339	147	125.777802	227.079633740	175.93855	211.44908482	1
## 10340	94	85.7774566	228.213969031	175.93855	214.18470069	1
## 10341	52	61.992229	244.038928491	175.93855	230.28851286	1
## 10342	24	24.306186	61.324422710	32.32174	35.37869197	1
## 10343	10	13.026123	76.646020933	32.32174	51.67608057	1
## 10344	9	9.519436	74.791789976	32.32174	50.95469130	1
## 10345	2	5.785730	85.770759468	32.32174	61.71640245	1
## 10346	3	4.526461	64.104608167	32.32174	40.73728446	1
## 10347	16	13.978926	71.591650174	32.32174	48.23556689	1
## 10348	88	73.881309	86.411570642	32.32174	64.72588451	1
## 10349	268	242.713437	102.738207857	175.93855	80.63676766	1
## 10350	564	414.469510	93.047737203	175.93855	71.11691963	1
## 10351	281	223.037060	128.206123018	175.93855	103.05616287	1
## 10352	137	139.911336	151.387144704	175.93855	123.53678356	1
## 10353	150	156.878980	183.832270480	175.93855	153.56645305	1
## 10354	221	199.990189	214.067497454	175.93855	181.49297235	1
## 10355	250	225.897082	253.394213558	316.20792	223.66689751	1
## 10356	221	229.525940	273.083307759	316.20792	240.88408949	1
## 10357	233	225.850973	256.207706356	316.20792	222.28972329	1
## 10358	332	334.601622	297.569996131	316.20792	253.14284642	1
## 10359	644	553.288652	296.244648788	316.20792	259.80304627	1
## 10360	712	572.669136	283.063534213	316.20792	253.27889209	1
## 10361	446	378.127406	266.095853688	316.20792	238.05221104	1
## 10362	286	310.135726	273.582895696	316.20792	245.55049347	1

## 10363	205	206.096491	259.751300610	316.20792	233.37048166	1
## 10364	133	147.900683	273.087688095	316.20792	245.82500707	1
## 10365	63	99.390780	282.254061809	316.20792	248.04549798	1
## 10366	26	36.443520	116.708997911	32.32174	89.46897073	1
## 10367	16	18.692727	97.531418584	32.32174	72.13913949	1
## 10368	1	7.713158	75.866322328	32.32174	57.09129115	1
## 10369	2	7.043419	83.353364335	32.32174	64.58957358	1
## 10370	1	6.664743	51.113474486	32.32174	31.58638011	1
## 10371	24	21.275921	58.600516493	32.32174	39.08466254	1
## 10372	113	88.159025	64.408226793	32.32174	51.86073650	1
## 10373	308	305.189308	75.083000737	175.93855	53.50114553	1
## 10374	593	480.650565	84.249374451	175.93855	55.72163643	1
## 10375	342	301.031178	97.585761937	175.93855	68.17616185	1
## 10376	143	179.972893	126.815949918	316.20792	96.48918661	1
## 10377	219	211.756144	149.996971604	316.20792	116.96980730	1
## 10378	244	252.452058	203.760734473	316.20792	166.67777103	1
## 10379	233	243.094632	213.007015588	316.20792	173.49950708	1
## 10380	212	243.263665	246.657001173	316.20792	206.01883219	1
## 10381	264	265.059931	300.871423736	316.20792	258.50649250	1
## 10382	365	369.587661	328.021583332	316.20792	280.41371698	1
## 10383	676	625.448824	318.255227369	316.20792	278.48236862	1
## 10384	734	606.375343	335.637921638	316.20792	291.03412074	1
## 10385	479	468.516881	295.592364913	316.20792	256.80569182	1
## 10386	351	316.543501	285.955879367	316.20792	250.57169337	1
## 10387	244	238.397697	271.119245288	316.20792	238.77818700	1
## 10388	170	182.050044	263.666507731	316.20792	233.00409023	1
## 10389	87	105.560226	280.745661579	316.20792	248.62557986	1
## 10390	39	39.785673	93.353076975	32.32174	62.98916924	1
## 10391	27	24.223149	88.110238220	32.32174	59.31822265	1
## 10392	2	8.429407	80.455996364	32.32174	50.66861222	1
## 10393	4	6.710158	73.254097685	32.32174	44.79805094	1
## 10394	5	11.080175	90.033078077	32.32174	63.48798325	1
## 10395	27	24.694948	53.425463729	32.32174	29.23713348	1
## 10396	121	107.793517	60.159989103	32.32174	37.02480944	1
## 10397	368	404.609981	67.897869988	175.93855	44.42662736	1
## 10398	662	533.959746	73.625672887	175.93855	52.60145618	1
## 10399	351	301.430596	135.448680036	316.20792	109.36881308	1
## 10400	188	205.647436	182.912437732	316.20792	151.34083726	1
## 10401	220	230.503708	240.421705491	316.20792	210.14638744	1
## 10402	267	269.703056	277.512600500	316.20792	248.90176686	1
## 10403	254	242.622021	300.717434390	316.20792	258.83524382	1
## 10404	224	232.166483	330.502001670	316.20792	283.98206656	1
## 10405	283	309.776659	330.250588674	316.20792	291.50330249	1
## 10406	356	365.160397	344.643033213	316.20792	300.59869687	1
## 10407	782	663.736835	337.893477710	316.20792	297.50718475	1
## 10408	749	658.453170	335.032524278	316.20792	297.17294834	1
## 10409	472	430.876517	325.525909149	316.20792	286.63629980	1
## 10410	330	304.934121	321.738769081	316.20792	285.35854433	1
## 10411	288	262.926426	312.076132722	316.20792	277.48129738	1
## 10412	202	174.986612	263.769827418	316.20792	233.31796164	1
## 10413	91	117.618933	309.977707244	316.20792	275.77295577	1
## 10414	60	48.858359	118.163641553	32.32174	85.93089221	1
## 10415	23	23.191212	91.351326828	32.32174	62.67811588	1
## 10416	19	16.425626	97.079129727	32.32174	70.85294470	1

## 10417	7	11.432251	95.726576526	32.32174	69.93862641	1
## 10418	14	13.351422	56.486237977	32.32174	32.44753097	1
## 10419	26	22.265114	90.162374375	32.32174	66.61010458	1
## 10420	117	101.795844	82.258977124	32.32174	58.05631124	1
## 10421	381	367.703880	89.746019131	175.93855	65.55459367	1
## 10422	623	524.374067	86.434406005	175.93855	62.44066070	1
## 10423	315	310.927555	105.369300091	175.93855	79.94789361	1
## 10424	164	199.203798	144.694961151	316.20792	116.19054913	1
## 10425	211	218.929295	182.061562286	316.20792	150.23358996	1
## 10426	265	265.718382	227.516297041	316.20792	198.90989468	1
## 10427	273	271.118464	265.838602591	316.20792	235.53840823	1
## 10428	258	304.334807	315.433406733	316.20792	280.94360710	1
## 10429	287	281.801973	322.190060829	316.20792	278.18478674	1
## 10430	426	368.046655	321.391886926	316.20792	274.10426644	1
## 10431	713	614.083470	316.347185505	316.20792	273.31012834	1
## 10432	746	619.775323	301.589403783	316.20792	260.18659747	1
## 10433	425	444.605285	286.779975562	316.20792	255.96760924	1
## 10434	330	302.979077	257.384271214	316.20792	226.50260907	1
## 10435	243	224.129383	235.916885685	316.20792	202.46838252	1
## 10436	169	172.903577	235.041142991	316.20792	205.97700929	1
## 10437	97	100.472165	222.994937826	175.93855	194.76369958	1
## 10438	57	40.945824	29.049825690	32.32174	1.48846133	1
## 10439	26	20.155028	19.216257853	32.32174	-1.69107597	1
## 10440	4	9.306916	24.440699515	32.32174	6.67732928	1
## 10441	3	6.438838	16.537302264	32.32174	-1.87646406	1
## 10442	3	6.818872	23.520983033	32.32174	5.81539480	1
## 10443	32	23.506084	30.506347285	32.32174	13.50660625	1
## 10444	99	81.910470	36.988350300	32.32174	21.39139413	1
## 10445	278	267.114869	44.977070062	175.93855	28.69674755	1
## 10446	562	371.916112	52.967473306	175.93855	36.00145355	1
## 10447	312	262.898516	73.584037709	175.93855	60.42128715	1
## 10448	180	176.551044	65.680640458	175.93855	51.86749382	1
## 10449	207	213.512290	105.456961212	175.93855	90.88984590	1
## 10450	294	265.242378	104.155426071	175.93855	87.00290203	1
## 10451	260	234.947027	127.788790934	175.93855	110.26257187	1
## 10452	202	218.322859	150.666272199	175.93855	133.81293007	1
## 10453	107	141.064877	130.284888108	175.93855	119.92471285	1
## 10454	129	187.847544	152.911530496	175.93855	143.57153556	1
## 10455	258	274.754569	150.857478723	175.93855	139.97398521	1
## 10456	408	292.830730	158.344520730	175.93855	147.47226764	1
## 10457	296	270.828259	146.893755923	175.93855	132.69769636	1
## 10458	235	233.711135	156.060129638	175.93855	134.91818727	1
## 10459	152	149.224801	142.759101647	175.93855	130.11911715	1
## 10460	148	134.004293	150.246143654	175.93855	137.61739959	1
## 10461	126	115.444077	157.733185661	175.93855	145.11568202	1
## 10462	100	70.882756	-16.635103583	32.32174	-19.03734355	1
## 10463	69	59.660488	-10.656461806	32.32174	-10.95897924	1
## 10464	42	45.079416	10.089973013	32.32174	9.15820427	1
## 10465	26	25.616261	17.577015020	32.32174	16.65648671	1
## 10466	2	11.521698	5.955318737	32.32174	6.57962507	1
## 10467	8	11.199774	14.950760974	32.32174	13.49782562	1
## 10468	30	22.530783	24.195358606	32.32174	20.32020908	1
## 10469	86	78.405359	11.568623330	175.93855	10.62985289	1
## 10470	218	174.363183	37.662725873	175.93855	35.89620841	1

## 10471	321	294.675164	64.007667293	175.93855	61.06609942	1
## 10472	443	439.007554	113.351632557	316.20792	106.56776279	1
## 10473	585	469.694827	127.440536675	316.20792	118.73289468	1
## 10474	651	514.587536	168.698051802	316.20792	149.60064675	1
## 10475	686	586.694471	204.557936190	316.20792	184.22312205	1
## 10476	690	609.836358	233.112776412	316.20792	211.49616324	1
## 10477	679	614.909826	247.201680530	316.20792	223.66129513	1
## 10478	685	608.841620	259.057502080	316.20792	238.33850351	1
## 10479	648	585.442735	268.805460950	316.20792	244.96731054	1
## 10480	560	528.772411	257.738143965	316.20792	231.72424688	1
## 10481	417	397.153496	237.806364523	316.20792	214.68445659	1
## 10482	271	288.829086	237.935660822	316.20792	217.80657791	1
## 10483	223	225.670724	230.232084387	316.20792	212.12894565	1
## 10484	211	208.136355	234.954848294	316.20792	220.69027992	1
## 10485	185	140.589840	213.618388226	316.20792	198.28467292	1
## 10486	107	86.196615	5.910522040	32.32174	-7.41588998	1
## 10487	113	84.499393	25.651917867	32.32174	13.08779898	1
## 10488	56	53.061641	30.957950412	32.32174	26.05680195	1
## 10489	18	23.719550	19.837931883	32.32174	15.78701130	1
## 10490	14	11.430121	8.719596837	32.32174	5.51657323	1
## 10491	6	9.003416	9.352254373	32.32174	8.44511813	1
## 10492	11	17.057303	16.839296380	32.32174	15.94340056	1
## 10493	42	66.445898	42.760783963	175.93855	45.90811314	1
## 10494	96	174.471185	50.922118685	175.93855	48.51510949	1
## 10495	178	211.300232	58.158321815	175.93855	56.10985643	1
## 10496	351	260.892922	65.896202699	175.93855	63.51167435	1
## 10497	368	361.871787	93.497021990	175.93855	88.19859541	1
## 10498	503	383.570341	87.221309947	175.93855	83.27155319	1
## 10499	544	413.228401	114.320451482	175.93855	108.15140326	1
## 10500	521	464.170156	143.299800585	316.20792	136.56089252	1
## 10501	554	516.355085	184.053954475	316.20792	167.62222102	1
## 10502	541	495.310936	180.491502472	316.20792	164.60475255	1
## 10503	541	501.348517	213.716979175	316.20792	195.98762959	1
## 10504	459	446.704125	222.459899053	316.20792	203.00294207	1
## 10505	352	383.136004	229.946941060	316.20792	210.50122450	1
## 10506	198	234.474566	196.503246446	316.20792	180.93964504	1
## 10507	173	193.199421	214.287265831	316.20792	199.24307190	1
## 10508	100	141.590433	205.126307227	316.20792	191.17289594	1
## 10509	46	88.359917	196.719548738	175.93855	182.81267903	1
## 10510	23	31.149045	27.187266895	32.32174	1.85113631	1
## 10511	15	18.362201	15.5655570611	32.32174	-8.22572533	1
## 10512	8	11.866975	24.057651611	32.32174	-1.11394834	1
## 10513	2	8.551088	30.288815748	32.32174	6.86730405	1
## 10514	3	10.164268	17.158719234	32.32174	-2.62947571	1
## 10515	31	24.017903	24.645761241	32.32174	4.86880672	1
## 10516	120	107.495487	53.502458402	32.32174	29.07275782	1
## 10517	354	370.437764	61.994539402	175.93855	36.18453480	1
## 10518	579	502.914679	67.974864661	175.93855	44.26225170	1
## 10519	331	280.677469	123.524017450	316.20792	94.93691754	1
## 10520	184	202.561122	136.357043698	316.20792	107.58501939	1
## 10521	201	227.009337	164.885733107	316.20792	133.21481208	1
## 10522	282	270.285800	194.417778027	316.20792	158.45874674	1
## 10523	263	280.029704	214.383861918	316.20792	177.22272270	1
## 10524	260	273.312278	233.875473912	316.20792	203.75414581	1

## 10525	286	294.794476	243.545208864	316.20792	205.78106029	1
## 10526	385	387.445071	272.350887964	316.20792	232.95763697	1
## 10527	721	630.153579	267.358888086	316.20792	229.19022587	1
## 10528	801	663.184137	266.508012640	316.20792	228.08297857	1
## 10529	549	489.681144	258.804436205	316.20792	222.40534631	1
## 10530	330	340.117953	253.812436328	316.20792	218.63793521	1
## 10531	223	244.905009	260.294439342	316.20792	226.52272309	1
## 10532	148	154.778209	234.514369467	316.20792	210.45795946	1
## 10533	54	97.633159	230.448556226	316.20792	207.63406742	1
## 10534	29	35.346022	57.494073431	32.32174	35.46296501	1
## 10535	15	23.148491	37.203713417	32.32174	12.27579301	1
## 10536	10	15.115025	46.199155654	32.32174	19.19399356	1
## 10537	3	11.407427	50.498465723	32.32174	32.55014940	1
## 10538	6	10.906173	54.397079115	32.32174	34.22271344	1
## 10539	20	23.038305	46.363811447	32.32174	29.97157019	1
## 10540	100	96.185547	56.615131554	32.32174	36.40680079	1
## 10541	170	199.218741	63.427880847	316.20792	48.79636929	1
## 10542	516	451.543479	83.843569388	316.20792	64.40877218	1
## 10543	325	299.852142	98.184995866	316.20792	76.47679215	1
## 10544	163	210.736615	107.853047336	316.20792	78.50435404	1
## 10545	230	242.022062	137.083235317	316.20792	106.81737879	1
## 10546	261	260.184787	163.479194798	316.20792	129.01464422	1
## 10547	284	273.040842	169.961197812	316.20792	136.89943210	1
## 10548	248	258.621175	186.316724367	316.20792	160.38418597	1
## 10549	244	270.680051	207.487668068	316.20792	181.63781756	1
## 10550	431	401.713872	225.293816174	316.20792	189.39474811	1
## 10551	750	633.722362	210.958859851	316.20792	177.40831272	1
## 10552	801	649.212725	228.290536059	316.20792	192.93269043	1
## 10553	555	473.963120	219.078559394	316.20792	187.83514005	1
## 10554	377	361.356739	236.862578779	316.20792	206.13856691	1
## 10555	277	259.191622	225.942381067	316.20792	198.74493733	1
## 10556	188	187.754725	218.740482387	316.20792	192.87437606	1
## 10557	90	117.307842	207.118786104	316.20792	182.79751442	1
## 10558	33	39.816449	43.031335719	32.32174	10.12680817	1
## 10559	26	28.008180	63.076271967	32.32174	27.56075963	1
## 10560	10	13.504608	54.416991118	32.32174	19.29765464	1
## 10561	8	11.235596	61.229740411	32.32174	31.68722315	1
## 10562	4	8.285372	67.711743425	32.32174	39.57201103	1
## 10563	39	26.675345	75.198785432	32.32174	47.07029346	1
## 10564	149	110.854331	65.085489379	32.32174	36.41334995	1
## 10565	372	319.084652	70.389838441	175.93855	49.38300033	1
## 10566	535	397.387029	76.370163700	175.93855	57.46071723	1
## 10567	293	279.558029	105.650314698	316.20792	76.86984676	1
## 10568	154	192.351043	130.036196193	316.20792	99.84012308	1
## 10569	192	193.256260	137.523238200	316.20792	107.33840551	1
## 10570	229	236.733022	161.354740398	316.20792	133.47488385	1
## 10571	303	252.151159	155.582389592	316.20792	128.35426520	1
## 10572	225	241.086095	179.968271088	316.20792	151.32454152	1
## 10573	243	241.983452	187.455313095	316.20792	158.82282395	1
## 10574	378	369.888785	213.520526298	316.20792	176.51530874	1
## 10575	729	648.409874	237.204909222	316.20792	196.80235300	1
## 10576	779	664.209638	243.183550998	316.20792	204.88071731	1
## 10577	582	544.877078	261.720087016	316.20792	222.89475065	1
## 10578	374	336.063000	228.078255068	316.20792	190.45636270	1

## 10579	251	229.541774	218.917296464	316.20792	182.38618674	1
## 10580	197	187.956371	221.560031985	316.20792	184.54172073	1
## 10581	125	136.739309	245.391534182	316.20792	210.67819907	1
## 10582	41	42.088363	55.589229960	32.32174	20.06247719	1
## 10583	30	28.008180	63.076271967	32.32174	27.56075963	1
## 10584	6	13.678335	70.563313974	32.32174	35.05904206	1
## 10585	7	10.752017	78.050355981	32.32174	42.55732449	1
## 10586	6	15.780657	34.591095689	32.32174	9.66735941	1
## 10587	34	30.252369	42.078137696	32.32174	17.16564184	1
## 10588	136	109.508690	49.565179703	32.32174	24.66392427	1
## 10589	361	333.387709	57.052221710	175.93855	32.16220670	1
## 10590	649	520.976262	83.648002008	316.20792	57.23563320	1
## 10591	318	324.259675	91.135044015	316.20792	64.73391563	1
## 10592	142	202.294121	85.362693210	316.20792	59.61329698	1
## 10593	219	219.976390	110.450073277	316.20792	85.26680536	1
## 10594	272	245.083292	140.311809430	316.20792	109.08425101	1
## 10595	298	288.780345	181.518306496	316.20792	142.92462867	1
## 10596	257	296.950664	206.155026870	316.20792	165.79844048	1
## 10597	304	307.409930	229.837726311	316.20792	186.08613215	1
## 10598	425	407.709308	252.013709005	316.20792	206.95325829	1
## 10599	810	717.832707	264.848418735	316.20792	219.60071273	1
## 10600	801	720.059282	272.335460742	316.20792	227.09899516	1
## 10601	586	557.844158	285.897819857	316.20792	244.07293015	1
## 10602	424	376.746292	259.941741368	316.20792	214.58486171	1
## 10603	374	297.920605	242.670520423	316.20792	202.42791816	1
## 10604	220	199.012136	233.760400697	316.20792	194.26127769	1
## 10605	151	150.594542	239.489887078	316.20792	202.43545910	1
## 10606	95	64.370925	65.779520686	32.32174	30.55504504	1
## 10607	50	34.528258	56.367723204	32.32174	22.58133359	1
## 10608	32	20.191454	65.363165442	32.32174	29.49953414	1
## 10609	10	11.412798	67.251700848	32.32174	31.94510908	1
## 10610	3	11.095441	53.950672857	32.32174	27.14603897	1
## 10611	34	30.315941	59.678475757	32.32174	35.32086779	1
## 10612	116	102.338965	80.424910576	32.32174	55.43805130	1
## 10613	346	360.495373	79.123375436	316.20792	51.55110742	1
## 10614	662	518.700333	84.400518641	316.20792	56.94623968	1
## 10615	380	328.450254	105.823984701	316.20792	78.10275934	1
## 10616	275	245.876452	129.680354147	316.20792	99.62336360	1
## 10617	318	274.161299	187.863914620	316.20792	153.53762769	1
## 10618	471	365.125309	235.578511193	316.20792	195.41318737	1
## 10619	428	382.513209	279.723611491	316.20792	241.61446540	1
## 10620	432	402.817923	308.078630896	316.20792	266.01134551	1
## 10621	472	414.226492	316.067350658	316.20792	273.31669893	1
## 10622	589	529.941027	324.057753903	316.20792	280.62140493	1
## 10623	957	747.893882	331.544795910	316.20792	288.11968736	1
## 10624	830	730.020620	328.232127740	316.20792	279.07448474	1
## 10625	686	563.554320	313.472662535	316.20792	265.95160128	1
## 10626	445	401.091540	326.584361956	316.20792	280.14583970	1
## 10627	284	275.229902	308.611642439	316.20792	265.30566409	1
## 10628	271	230.290483	288.955569123	316.20792	243.55353521	1
## 10629	176	177.077196	284.889755882	316.20792	240.72964317	1
## 10630	156	132.806074	101.102624883	32.32174	75.94609298	1
## 10631	128	108.148568	93.199227632	32.32174	67.39229964	1
## 10632	69	68.556006	86.248167830	32.32174	61.42527386	1

## 10633	32	35.403356	93.735209837	32.32174	68.92355629	1
## 10634	7	15.808798	81.862674676	32.32174	58.94315916	1
## 10635	4	14.013470	88.926262846	32.32174	71.23626316	1
## 10636	28	37.762227	96.413304853	32.32174	78.73454559	1
## 10637	70	130.451779	86.498146134	316.20792	70.95441057	1
## 10638	154	191.897237	81.730834321	316.20792	65.44728647	1
## 10639	249	258.853671	118.371069637	316.20792	101.42296932	1
## 10640	345	304.788947	115.813656626	316.20792	98.01899540	1
## 10641	273	269.457872	104.191960342	316.20792	87.94213376	1
## 10642	183	201.251110	116.352377358	316.20792	105.48087428	1
## 10643	196	202.467327	124.341097120	316.20792	112.78622769	1
## 10644	223	206.679058	146.846771048	316.20792	132.22686482	1
## 10645	290	219.301276	136.230113757	316.20792	121.76349773	1
## 10646	177	190.555083	141.707077778	316.20792	130.03479106	1
## 10647	115	159.963119	161.197634727	316.20792	150.63494453	1
## 10648	137	135.617362	143.726592966	175.93855	135.60183991	1
## 10649	133	147.940405	149.705234742	175.93855	143.68020422	1
## 10650	111	103.523237	139.088577452	175.93855	133.21683713	1
## 10651	104	92.501150	146.575619459	175.93855	140.71511957	1
## 10652	83	80.930327	155.067700458	175.93855	147.82689655	1
## 10653	105	91.739158	177.996828223	175.93855	162.47271211	1
## 10654	80	66.974444	5.794862060	32.32174	-9.98778382	1
## 10655	89	63.568046	-6.330195461	32.32174	-19.87106903	1
## 10656	35	34.224690	0.231714954	32.32174	-7.38503601	1
## 10657	18	20.198253	20.978149774	32.32174	12.73214750	1
## 10658	8	12.878079	30.647884726	32.32174	14.75906198	1
## 10659	6	12.333624	17.768627089	32.32174	5.16581771	1
## 10660	18	22.833154	25.255669096	32.32174	12.66410014	1
## 10661	39	76.542484	47.259665269	175.93855	32.29766629	1
## 10662	89	104.880030	54.746707276	175.93855	39.79594872	1
## 10663	118	166.631347	60.976187930	175.93855	47.77784852	1
## 10664	250	204.642623	85.190082904	175.93855	69.51456485	1
## 10665	323	243.566650	75.950271944	175.93855	62.77441338	1
## 10666	360	271.307397	82.935636196	175.93855	70.46562483	1
## 10667	367	344.728977	108.526377501	175.93855	95.92555678	1
## 10668	414	379.316444	121.862764986	175.93855	108.38008220	1
## 10669	421	369.068703	129.851484748	175.93855	115.68543561	1
## 10670	492	417.883013	171.759480386	175.93855	152.20904533	1
## 10671	419	433.506528	197.653762112	316.20792	174.59923977	1
## 10672	491	428.393815	205.140804119	316.20792	182.09752220	1
## 10673	375	350.702218	215.390440744	316.20792	188.53340021	1
## 10674	259	248.473115	205.476965508	175.93855	180.75261777	1
## 10675	149	165.055801	211.958968522	175.93855	188.63740565	1
## 10676	111	118.709186	202.043809803	175.93855	180.85727063	1
## 10677	65	90.113376	215.380197288	175.93855	193.31179605	1
## 10678	33	37.880134	45.676983968	32.32174	17.04796297	1
## 10679	28	27.199069	56.350074431	32.32174	18.68901941	1
## 10680	20	15.880428	44.226700392	32.32174	8.80508679	1
## 10681	1	7.227462	64.469773974	32.32174	29.11584674	1
## 10682	4	7.056961	65.605792747	32.32174	31.85081520	1
## 10683	36	27.996006	84.142328765	32.32174	49.86484853	1
## 10684	117	97.835689	75.232209038	32.32174	41.69820806	1
## 10685	370	370.974812	110.667584545	175.93855	75.18423528	1
## 10686	657	506.007493	140.756975810	175.93855	103.52044309	1

## 10687	282	255.532260	188.246884319	175.93855	147.13571576	1
## 10688	153	192.933536	236.766699069	316.20792	185.74860891	1
## 10689	178	214.139836	249.453889608	175.93855	198.80639926	1
## 10690	279	250.330131	251.516095018	175.93855	202.48488678	1
## 10691	301	263.433364	270.607010334	175.93855	217.33271809	1
## 10692	217	244.752718	265.234301162	175.93855	217.96442160	1
## 10693	223	249.936494	284.323532995	175.93855	232.81290033	1
## 10694	305	321.494035	301.153531448	175.93855	248.53020705	1
## 10695	664	538.646211	301.735170924	175.93855	254.43137753	1
## 10696	684	534.139700	298.953069848	175.93855	252.76711661	1
## 10697	458	416.991778	303.502163751	175.93855	260.09553830	1
## 10698	221	237.968664	303.484340776	175.93855	257.36822555	1
## 10699	186	180.687561	306.828574870	175.93855	262.20699161	1
## 10700	93	106.967896	306.205354535	175.93855	265.61850646	1
## 10701	48	73.773104	310.607329165	175.93855	267.09749407	1
## 10702	10	18.003045	130.346118722	32.32174	87.57760497	1
## 10703	5	10.455375	130.978776258	32.32174	90.50614986	1
## 10704	7	7.171212	115.163254000	32.32174	80.74239744	1
## 10705	4	6.387092	123.153657245	32.32174	88.04710344	1
## 10706	3	6.338936	120.873233925	32.32174	86.18991351	1
## 10707	17	14.215841	110.205558573	32.32174	78.69917201	1
## 10708	101	74.494508	116.184200350	32.32174	86.77753632	1
## 10709	286	240.449136	123.671242357	175.93855	94.27581875	1
## 10710	581	354.865046	132.917523472	175.93855	101.09755479	1
## 10711	267	213.815800	142.284773047	175.93855	112.12547642	1
## 10712	138	130.348893	162.754218176	175.93855	130.69587595	1
## 10713	175	156.281556	189.774507355	175.93855	156.90575052	1
## 10714	220	172.775300	203.110894840	175.93855	169.36027594	1
## 10715	211	180.882603	228.371944912	175.93855	196.24669690	1
## 10716	184	197.023365	256.448291144	175.93855	219.09744044	1
## 10717	200	253.776251	276.363356975	175.93855	240.83404199	1
## 10718	305	290.465492	283.850398982	175.93855	248.33232442	1
## 10719	614	518.699562	306.026381676	175.93855	269.19945056	1
## 10720	644	497.861192	306.962579633	175.93855	269.05825794	1
## 10721	417	429.678593	312.941221409	175.93855	277.13662225	1
## 10722	294	315.174154	321.936663647	175.93855	284.05482281	1
## 10723	221	164.162635	268.933571048	175.93855	234.13840271	1
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## 10725	64	83.901299	284.409332817	175.93855	248.94203856	1
## 10726	30	29.509607	107.086070479	32.32174	69.59201021	1
## 10727	8	17.336338	101.564558551	32.32174	64.37492705	1
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## 10730	1	9.919082	130.655380979	32.32174	93.17922489	1
## 10731	40	26.471035	138.142422986	32.32174	100.67750732	1
## 10732	115	97.368966	140.004807579	32.32174	101.47983376	1
## 10733	358	318.537893	146.990171831	175.93855	109.17104521	1
## 10734	658	479.584535	160.828237071	175.93855	121.43264161	1
## 10735	314	277.436272	182.302721193	175.93855	139.61653569	1
## 10736	173	209.528824	211.254236001	175.93855	166.38342387	1
## 10737	222	215.309754	227.728392408	316.20792	181.88397111	1
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## 10742	221	300.606942	289.665918132	316.20792	259.49780130	1
## 10743	604	597.102760	259.354915303	316.20792	214.86122922	1
## 10744	641	595.709712	266.841957310	316.20792	222.35951165	1
## 10745	456	482.770964	282.665233288	316.20792	238.46397124	1
## 10746	362	350.770198	291.911514403	316.20792	245.28570728	1
## 10747	261	253.217836	283.955415608	316.20792	239.70518694	1
## 10748	172	195.636805	274.743438943	316.20792	234.60763657	1
## 10749	93	128.206319	267.541540264	316.20792	228.73707529	1
## 10750	48	50.036412	96.344613095	32.32174	55.89007391	1
## 10751	33	32.839441	126.355152004	32.32174	85.55630622	1
## 10752	6	16.680324	219.021924734	32.32174	169.20482856	1
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## 10755	32	30.452126	173.412165859	32.32174	131.64787782	1
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## 10758	654	493.632184	183.020759175	175.93855	138.76795792	1
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## 10762	292	248.779463	236.972990040	316.20792	188.70635457	1
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## 10764	238	211.843976	249.686157191	316.20792	204.57239484	1
## 10765	307	271.555109	269.652241083	316.20792	223.33637080	1
## 10766	388	357.097098	283.267301741	316.20792	237.33703279	1
## 10767	703	590.347298	287.339585136	316.20792	240.24250941	1
## 10768	681	564.649017	285.258982633	316.20792	241.26148055	1
## 10769	468	414.406963	286.645840284	175.93855	243.89998451	1
## 10770	335	305.197347	290.744274493	175.93855	248.44870963	1
## 10771	224	190.875155	278.871739332	175.93855	238.46831250	1
## 10772	152	142.379934	280.509435860	175.93855	241.01035194	1
## 10773	94	100.663930	281.617620339	175.93855	242.10271933	1
## 10774	59	41.040722	103.566308698	32.32174	64.68598041	1
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## 10779	26	19.717927	83.148758859	32.32174	54.26076346	1
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## 10783	321	269.286837	129.041745444	175.93855	97.13976694	1
## 10784	187	160.974812	139.693762229	175.93855	115.25858933	1
## 10785	201	183.565580	154.261160336	175.93855	131.84601887	1
## 10786	270	221.177050	165.387649020	175.93855	142.19739411	1
## 10787	242	233.004045	185.884300006	175.93855	168.34231177	1
## 10788	229	231.127949	184.531746805	175.93855	167.42799348	1
## 10789	280	237.716871	197.868134290	175.93855	179.88251890	1
## 10790	367	290.092668	186.600996488	175.93855	163.76329417	1
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## 10794	209	233.698237	217.897749945	175.93855	183.97385174	1

## 10795	220	182.232902	210.192490028	175.93855	178.29686690	1
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## 10797	123	108.289063	206.006817691	175.93855	178.69091328	1
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## 10817	284	287.771077	197.470596972	175.93855	169.55495018	1
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## 10820	156	127.485593	203.286060991	175.93855	188.67173130	1
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## 10824	81	59.440650	35.308510066	32.32174	24.34087488	1
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## 10827	18	13.565448	39.614918728	32.32174	31.84669824	1
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## 10833	451	346.118542	125.941750851	175.93855	112.06072462	1
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## 10837	573	460.349751	223.179397803	316.20792	194.82117519	1
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## 10853	589	492.194468	130.337172467	175.93855	94.06202730	1
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## 10899	126	97.690754	123.493338177	32.32174	99.23493641	1
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## 10901	684	526.068433	115.137423548	175.93855	89.06709534	1
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## 10955 490 322.335608 273.237702829 175.93855 227.29087941 1
## 10956 537 378.375947 289.234648811 316.20792 244.62825157 1

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## 10957	536	437.164419	310.032101691	316.20792	261.77280950	1
## 10958	655	614.712988	321.158590375	316.20792	272.12418474	1
## 10959	484	529.579983	325.760385821	316.20792	276.47933342	1
## 10960	412	410.608893	322.423905447	175.93855	277.98127453	1
## 10961	252	286.267191	321.600864296	175.93855	278.51662830	1
## 10962	190	205.741502	316.305323998	175.93855	277.81895471	1
## 10963	158	145.446405	293.712986060	175.93855	255.89631767	1
## 10964	113	120.339010	319.103906548	175.93855	278.48008854	1
## 10965	94	82.937607	152.317651160	32.32174	123.22328106	1
## 10966	69	63.486381	148.781349970	32.32174	121.84906109	1
## 10967	36	42.988584	144.119041326	32.32174	116.65516098	1
## 10968	28	29.360616	143.217147819	32.32174	118.52053926	1
## 10969	7	9.631077	128.659186913	32.32174	108.27316946	1
## 10970	2	9.689523	142.775925327	32.32174	122.08090243	1
## 10971	19	26.535816	144.134948683	32.32174	123.07680531	1
## 10972	54	84.680393	159.760087326	175.93855	136.30445640	1
## 10973	123	127.159140	170.383214772	175.93855	146.84940807	1
## 10974	276	224.642646	204.257888422	175.93855	177.62902018	1
## 10975	363	325.468141	222.014073511	175.93855	194.28984596	1
## 10976	495	423.610286	244.944256320	175.93855	214.86693116	1
## 10977	590	470.375165	261.998942837	175.93855	228.84452488	1
## 10978	643	535.830742	280.126935265	316.20792	249.61507173	1
## 10979	578	527.678565	289.373216380	316.20792	256.43680777	1
## 10980	626	532.951166	311.349378257	316.20792	274.42777284	1
## 10981	615	525.646847	324.184087987	316.20792	287.07522727	1
## 10982	567	528.609583	332.172807749	316.20792	294.38058069	1
## 10983	517	481.890461	339.859670573	316.20792	304.75502419	1
## 10984	413	391.627665	352.269871422	316.20792	316.26603056	1
## 10985	208	235.383106	337.459388156	316.20792	306.11577268	1
## 10986	234	202.801741	344.443068926	316.20792	313.80763154	1
## 10987	182	169.429019	346.080765454	175.93855	316.34967099	1
## 10988	118	129.541942	341.592126814	175.93855	312.38868346	1
## 10989	85	82.542125	161.330916372	32.32174	132.86879437	1
## 10990	64	63.315502	168.817958379	32.32174	140.36707680	1
## 10991	32	47.581841	176.305000386	32.32174	147.86535923	1
## 10992	26	31.207124	172.014499081	32.32174	146.78118019	1
## 10993	7	14.076266	140.452695517	32.32174	120.74859252	1
## 10994	12	14.376182	128.830999234	32.32174	110.67173088	1
## 10995	28	30.629847	150.357784981	32.32174	132.14212195	1
## 10996	37	98.631933	188.557438588	175.93855	164.56509734	1
## 10997	84	154.347854	195.765807422	175.93855	170.51724320	1
## 10998	179	253.662940	224.294496831	175.93855	196.14703589	1
## 10999	299	343.411167	251.539474075	316.20792	220.61719746	1
## 11000	404	404.668073	260.031555075	316.20792	227.72897445	1
## 11001	457	484.830791	280.923825603	316.20792	247.43646946	1
## 11002	483	512.258257	300.812740621	316.20792	267.52982251	1
## 11003	503	498.855582	329.972978202	316.20792	288.66403610	1
## 11004	486	515.284610	344.010864259	316.20792	303.80179357	1
## 11005	476	519.838257	352.425776385	316.20792	312.24294765	1
## 11006	411	471.500328	346.930415270	316.20792	308.66911298	1
## 11007	310	402.372791	348.291122109	316.20792	309.66436844	1
## 11008	276	346.938659	355.353655234	316.20792	316.02620280	1
## 11009	211	247.587826	340.594190030	316.20792	302.90331934	1
## 11010	130	160.443774	319.857192412	316.20792	289.12619557	1

## 11011	118	124.203555	317.075091337	316.20792	287.46193466	1
## 11012	51	95.295693	318.434114693	316.20792	288.45783753	1
## 11013	37	37.385111	144.560887602	32.32174	101.95996994	1
## 11014	16	20.303704	139.265347304	32.32174	101.26229636	1
## 11015	6	12.138103	169.856416324	32.32174	129.40557514	1
## 11016	3	10.600473	173.202333900	32.32174	134.24369379	1
## 11017	5	12.456761	194.450446475	32.32174	154.16794828	1
## 11018	32	26.102265	201.937488482	32.32174	161.66623072	1
## 11019	111	103.244068	199.658748644	32.32174	159.80839337	1
## 11020	331	345.944126	202.222631809	175.93855	163.29395187	1
## 11021	617	493.045301	211.139221691	175.93855	171.54217693	1
## 11022	286	280.831691	225.029988474	175.93855	180.83050033	1
## 11023	178	216.816286	255.316233509	316.20792	205.78439405	1
## 11024	223	234.216462	267.396743124	316.20792	218.72188942	1
## 11025	280	261.252201	283.548426771	316.20792	227.14073742	1
## 11026	281	257.226357	288.774551915	316.20792	235.50849526	1
## 11027	218	237.683306	301.607578162	316.20792	248.15659711	1
## 11028	255	248.855757	314.943965648	316.20792	260.61112252	1
## 11029	391	351.344755	309.900947709	316.20792	259.81633701	1
## 11030	632	565.267920	307.118846634	316.20792	258.15207610	1
## 11031	646	573.046182	308.176013052	316.20792	262.21706907	1
## 11032	421	426.402925	310.818748573	316.20792	264.37260306	1
## 11033	276	292.053715	309.545047728	316.20792	262.12826027	1
## 11034	165	173.466348	296.271225595	175.93855	264.90370830	1
## 11035	108	116.708902	300.844131701	175.93855	261.68498626	1
## 11036	67	78.945321	294.265507675	175.93855	253.89576449	1
## 11037	26	31.672048	113.503674522	32.32174	80.50007405	1
## 11038	9	13.460545	109.185967359	32.32174	71.84137688	1
## 11039	2	5.156097	51.208697858	32.32174	20.88485845	1
## 11040	2	4.012195	58.695739865	32.32174	28.38314088	1
## 11041	2	4.312358	60.333436394	32.32174	30.92518032	1
## 11042	24	19.066073	67.820478401	32.32174	38.42346275	1
## 11043	103	89.391141	74.805842652	32.32174	46.11467420	1
## 11044	384	350.581412	82.292884659	175.93855	53.61295664	1
## 11045	692	537.472533	121.869384597	175.93855	89.75914765	1
## 11046	319	280.883186	131.010662543	175.93855	96.26765970	1
## 11047	181	196.165187	193.892693792	175.93855	155.93436073	1
## 11048	239	239.345180	234.623035478	316.20792	197.54283295	1
## 11049	259	284.048262	289.521707757	316.20792	242.56164115	1
## 11050	283	288.189029	286.939427498	316.20792	243.77354131	1
## 11051	224	269.038842	298.567593936	316.20792	253.93198753	1
## 11052	203	262.716845	320.292916936	316.20792	272.01941710	1
## 11053	362	387.897610	332.875104306	316.20792	284.76398346	1
## 11054	744	639.355687	339.036318043	316.20792	285.56642468	1
## 11055	704	626.619411	336.704876662	316.20792	286.68186034	1
## 11056	479	471.339376	341.757331802	316.20792	293.81670559	1
## 11057	282	286.052740	314.520508196	175.93855	269.42748119	1
## 11058	206	201.508175	312.743446113	175.93855	267.37671483	1
## 11059	127	131.495294	293.815022182	175.93855	249.95106650	1
## 11060	62	82.859746	281.717798956	175.93855	241.71038237	1
## 11061	30	27.958307	112.506082524	32.32174	72.70624418	1
## 11062	12	14.374392	111.102511262	32.32174	74.76455147	1
## 11063	2	7.624970	99.480814978	32.32174	64.68768984	1
## 11064	2	8.343896	91.273877306	32.32174	59.20363401	1

## 11065	27	21.238605	84.425962990	32.32174	54.71548105	1
## 11066	106	93.972645	90.406288249	32.32174	62.79319795	1
## 11067	321	297.002185	107.234603219	175.93855	78.51115209	1
## 11068	595	482.585616	128.709087341	175.93855	96.69504617	1
## 11069	302	245.533784	141.622020989	175.93855	113.94439315	1
## 11070	153	150.402277	155.461769712	175.93855	126.20534214	1
## 11071	180	184.634960	187.906895488	175.93855	156.23501163	1
## 11072	182	149.207689	183.919934603	175.93855	152.08109508	1
## 11073	163	182.898625	215.861699142	175.93855	182.30434100	1
## 11074	135	165.440945	172.996824164	175.93855	139.92184470	1
## 11075	202	194.529101	207.786796295	175.93855	185.87302873	1
## 11076	307	325.299294	266.165100449	175.93855	224.54243945	1
## 11077	579	435.943913	264.891399603	175.93855	222.29809666	1
## 11078	585	414.205315	245.992920056	175.93855	218.37758870	1
## 11079	384	322.438108	262.463282891	175.93855	222.01624407	1
## 11080	235	189.406682	244.490563374	175.93855	207.17606846	1
## 11081	165	135.600294	222.824412073	175.93855	186.19695047	1
## 11082	134	112.975110	229.306415087	175.93855	194.08173835	1
## 11083	61	72.060903	236.290095857	175.93855	201.77359722	1
## 11084	23	22.221165	38.098856120	32.32174	5.52497118	1
## 11085	9	11.667204	44.580859135	32.32174	13.40975906	1
## 11086	4	5.677265	64.122434145	32.32174	31.03728695	1
## 11087	5	5.258466	71.106114914	32.32174	38.72914581	1
## 11088	1	4.283835	72.242133688	32.32174	41.46411428	1
## 11089	21	18.771057	79.729175695	32.32174	48.96239671	1
## 11090	96	92.085569	78.878300249	32.32174	47.85514940	1
## 11091	306	314.203529	87.622903609	175.93855	54.86981446	1
## 11092	624	494.527500	98.749392292	175.93855	65.22118970	1
## 11093	287	257.310248	138.325892229	175.93855	101.36738071	1
## 11094	141	176.196511	171.975877815	175.93855	133.88670582	1
## 11095	224	191.942143	191.941961706	175.93855	152.65068178	1
## 11096	259	237.905959	226.900526705	175.93855	181.71376394	1
## 11097	203	225.534447	251.286408201	175.93855	204.68404026	1
## 11098	224	235.613440	273.662211711	316.20792	228.42732748	1
## 11099	211	272.894524	274.042346887	175.93855	231.45298429	1
## 11100	353	346.270289	282.032750132	175.93855	238.75769030	1
## 11101	656	599.209543	305.967971933	316.20792	258.94827005	1
## 11102	610	570.941804	313.455013940	316.20792	266.44655248	1
## 11103	433	366.669086	298.895369552	175.93855	256.19983010	1
## 11104	280	272.944702	295.359068362	175.93855	254.82561012	1
## 11105	187	191.061803	290.566889301	175.93855	253.93436010	1
## 11106	158	147.438166	299.058970301	175.93855	261.04613709	1
## 11107	94	102.975176	306.546012308	175.93855	268.54441952	1
## 11108	55	42.126112	125.079942056	32.32174	86.53487479	1
## 11109	30	22.648604	99.974164895	32.32174	65.57882508	1
## 11110	11	9.886181	94.982165018	32.32174	61.81141398	1
## 11111	11	7.575010	75.448743645	32.32174	44.26482326	1
## 11112	5	7.010258	98.432283124	32.32174	74.05967510	1
## 11113	21	17.247696	106.422686368	32.32174	81.36438110	1
## 11114	84	86.436902	100.900119396	32.32174	70.21602830	1
## 11115	296	324.385855	106.401950666	175.93855	73.87144754	1
## 11116	563	529.922038	157.731126668	175.93855	123.21597410	1
## 11117	330	296.833750	187.966353641	175.93855	151.14249341	1
## 11118	192	221.592777	208.434115288	175.93855	169.71354035	1

## 11119	233	235.225154	225.185261385	175.93855	186.76087158	1
## 11120	322	295.011618	253.159571496	316.20792	215.55686629	1
## 11121	358	313.410981	280.109910275	316.20792	234.58792969	1
## 11122	348	309.487751	282.822596196	316.20792	243.92227486	1
## 11123	352	302.207937	298.220079728	316.20792	252.63116379	1
## 11124	463	397.407765	315.976264817	316.20792	269.29198957	1
## 11125	738	652.971568	326.376387681	316.20792	281.57600683	1
## 11126	671	611.332343	323.090925368	316.20792	280.10532235	1
## 11127	427	464.298819	335.501126216	316.20792	291.61632871	1
## 11128	286	301.773935	319.736622019	316.20792	278.87995070	1
## 11129	189	197.047069	309.493455549	316.20792	272.52565727	1
## 11130	215	168.582318	243.734331375	175.93855	209.79675967	1
## 11131	198	141.465109	245.121189026	175.93855	212.43526362	1
## 11132	96	82.060933	72.987265915	32.32174	52.02928414	1
## 11133	70	65.917701	80.474307922	32.32174	59.52756657	1
## 11134	56	46.699918	64.432814034	32.32174	45.24440457	1
## 11135	32	24.814992	65.317993930	32.32174	48.07583755	1
## 11136	14	11.157049	62.006380805	32.32174	44.96190457	1
## 11137	7	10.603015	80.542916822	32.32174	62.97593790	1
## 11138	21	26.323322	61.086664323	32.32174	44.09997009	1
## 11139	64	90.756925	84.467506826	175.93855	67.45675186	1
## 11140	160	131.936246	92.456226588	175.93855	74.76210528	1
## 11141	265	250.898300	155.059584665	175.93855	132.88266973	1
## 11142	406	347.097968	181.378375272	175.93855	156.40931225	1
## 11143	564	462.315393	220.174524281	316.20792	191.20229570	1
## 11144	678	558.434242	268.313629737	316.20792	234.21430345	1
## 11145	678	601.757777	292.673360419	316.20792	255.54133127	1
## 11146	660	588.997910	320.103248233	316.20792	284.92596197	1
## 11147	658	595.064658	326.081890009	316.20792	293.00432628	1
## 11148	582	562.406682	333.568932017	316.20792	300.50260871	1
## 11149	560	525.465585	320.187996625	316.20792	291.10229347	1
## 11150	481	494.936607	322.753563273	316.20792	294.58720455	1
## 11151	459	423.971003	312.336726799	316.20792	286.99999855	1
## 11152	321	296.800687	294.362323799	316.20792	272.16047035	1
## 11153	220	217.165234	308.479062213	316.20792	285.96820333	1
## 11154	212	182.666184	290.731030760	316.20792	269.38831472	1
## 11155	196	163.762771	289.880155314	316.20792	268.28106741	1
## 11156	124	110.714450	117.678189152	32.32174	95.82057148	1
## 11157	106	94.822301	124.663553404	32.32174	103.51178293	1
## 11158	74	70.724575	131.145556418	32.32174	111.39657081	1
## 11159	45	40.590970	126.655234296	32.32174	107.43623070	1
## 11160	12	27.879249	153.199996533	32.32174	135.48228278	1
## 11161	10	13.228598	118.073576558	32.32174	93.07683299	1
## 11162	16	29.071883	136.106751338	32.32174	111.28444276	1
## 11163	46	96.092006	143.092115590	316.20792	118.97565421	1
## 11164	97	155.415958	163.508859176	316.20792	140.51932674	1
## 11165	251	252.820534	187.244260160	316.20792	157.83374541	1
## 11166	421	396.558274	213.059689530	316.20792	181.55396435	1
## 11167	528	517.654027	248.970591978	316.20792	213.20381406	1
## 11168	635	613.557132	266.475938190	316.20792	229.96110435	1
## 11169	681	625.440408	279.812325675	316.20792	242.41562977	1
## 11170	628	608.981220	310.047552649	316.20792	270.34214908	1
## 11171	617	576.099164	319.293833764	316.20792	277.16388512	1
## 11172	616	578.175743	332.126860012	316.20792	289.81198697	1

## 11173	623	566.684443	326.633182379	316.20792	286.23750489	1
## 11174	479	481.503374	332.862663034	316.20792	294.21940469	1
## 11175	379	410.322807	340.349705041	316.20792	301.71768712	1
## 11176	291	299.472252	312.107842441	316.20792	277.71496817	1
## 11177	229	231.764472	298.777925111	316.20792	265.34202734	1
## 11178	134	165.772936	354.300927087	316.20792	314.37344468	1
## 11179	90	129.354671	343.182592041	316.20792	304.10300662	1
## 11180	41	67.250656	133.876555898	32.32174	101.65335302	1
## 11181	28	46.065665	118.336739765	32.32174	87.17726201	1
## 11182	14	33.980214	111.585500780	32.32174	84.08639730	1
## 11183	8	21.060655	103.378563108	32.32174	78.60234147	1
## 11184	6	20.030981	79.781186177	32.32174	57.06620988	1
## 11185	38	24.777102	87.268228184	32.32174	64.56449231	1
## 11186	133	71.684951	74.641492908	32.32174	54.87413612	1
## 11187	387	256.800504	81.625173677	316.20792	62.56599498	1
## 11188	597	383.954839	99.634936171	316.20792	85.06097848	1
## 11189	297	260.346748	158.292968542	316.20792	131.20779542	1
## 11190	224	271.597595	166.281688304	316.20792	138.51314884	1
## 11191	251	299.145721	188.457670998	316.20792	159.38027498	1
## 11192	271	327.772504	225.322594378	316.20792	193.61624482	1
## 11193	263	316.177604	277.630658559	316.20792	240.93101744	1
## 11194	288	314.503457	291.470407282	316.20792	253.19196643	1
## 11195	275	355.439788	339.185003856	316.20792	295.06752610	1
## 11196	358	410.611156	346.922884741	316.20792	302.46934402	1
## 11197	712	590.911175	353.154048877	316.20792	310.45059641	1
## 11198	676	584.871906	365.060888489	316.20792	322.15517920	1
## 11199	522	480.152897	352.009644331	316.20792	311.32837494	1
## 11200	375	372.975721	347.719143025	316.20792	310.24419591	1
## 11201	271	252.175560	305.965365254	316.20792	273.71968779	1
## 11202	214	227.005608	313.452407261	316.20792	281.21797022	1
## 11203	121	156.262048	340.802387673	316.20792	306.00135579	1
## 11204	43	46.107782	162.548114645	32.32174	115.59898599	1
## 11205	11	19.879746	157.054437012	32.32174	112.02450391	1
## 11206	4	10.674740	82.681689260	32.32174	45.40241516	1
## 11207	6	8.749469	89.917892389	32.32174	52.99716210	1
## 11208	9	16.425079	215.098631931	32.32174	166.43004109	1
## 11209	30	27.502478	185.650226040	32.32174	139.93831392	1
## 11210	144	125.850097	208.606559662	32.32174	162.15864762	1
## 11211	461	440.314377	222.723298075	316.20792	175.96638059	1
## 11212	673	545.211155	229.708662327	316.20792	183.65759204	1
## 11213	400	314.877557	252.767032070	316.20792	199.93267456	1
## 11214	217	219.154567	258.998196207	316.20792	207.91392695	1
## 11215	239	224.308881	277.534732224	316.20792	225.92796029	1
## 11216	244	238.817758	284.016735239	316.20792	233.81274817	1
## 11217	239	259.432070	304.433478825	316.20792	255.35642069	1
## 11218	257	278.907810	322.693025151	316.20792	271.82367004	1
## 11219	308	281.340841	343.413309158	316.20792	290.29760506	1
## 11220	370	379.384996	361.671172003	316.20792	306.76550182	1
## 11221	781	700.804638	349.824787654	316.20792	298.42835319	1
## 11222	775	679.799935	357.060990784	316.20792	306.02310013	1
## 11223	537	493.925510	350.136081795	316.20792	301.69932284	1
## 11224	402	357.727813	364.756181446	316.20792	315.31347938	1
## 11225	297	276.383579	354.165674968	316.20792	306.49336079	1
## 11226	162	167.024616	346.209576173	316.20792	300.91284046	1

## 11227	82	118.097374	348.775142821	316.20792	304.39775154	1
## 11228	38	43.721507	175.568137666	32.32174	132.32376106	1
## 11229	14	22.509501	173.287714346	32.32174	130.46657113	1
## 11230	9	12.957388	155.566888751	32.32174	121.46120066	1
## 11231	6	9.965119	163.557291995	32.32174	128.76590666	1
## 11232	7	12.930598	172.049372995	32.32174	135.87768364	1
## 11233	34	31.659324	186.166111408	32.32174	149.68541661	1
## 11234	134	105.069811	193.653153415	32.32174	157.18369905	1
## 11235	418	359.847780	199.631795192	316.20792	165.26206336	1
## 11236	576	449.141730	205.439505492	316.20792	178.03813731	1
## 11237	265	246.709535	197.786947118	175.93855	169.38787947	1
## 11238	147	172.059946	197.388414849	175.93855	171.05968132	1
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## 11240	110	138.110301	195.663480191	175.93855	173.46041337	1
## 11241	64	127.148795	183.712092674	175.93855	164.81004075	1
## 11242	51	109.959496	158.380343883	175.93855	139.33458146	1
## 11243	98	121.848517	150.475263150	175.93855	130.78143554	1
## 11244	235	215.117972	160.144998101	175.93855	132.80835001	1
## 11245	488	373.245063	167.128678871	175.93855	140.50020887	1
## 11246	505	395.909997	171.349765022	175.93855	149.25447216	1
## 11247	368	327.126790	181.097723892	175.93855	155.88327919	1
## 11248	260	253.308240	188.083088144	175.93855	163.57449064	1
## 11249	189	160.833192	184.269797263	175.93855	160.65348667	1
## 11250	162	142.308452	202.806333281	175.93855	178.66752001	1
## 11251	70	102.508893	208.784975058	175.93855	186.74588432	1
## 11252	25	23.893945	34.903677188	32.32174	19.56317991	1
## 11253	13	16.862197	44.149958303	32.32174	26.38491596	1
## 11254	6	10.314350	51.557092910	32.32174	29.28195325	1
## 11255	4	7.974269	59.044134917	32.32174	36.78023568	1
## 11256	4	8.124670	79.790569736	32.32174	56.89741920	1
## 11257	30	24.816881	58.798711149	32.32174	31.02701513	1
## 11258	120	95.791911	66.365660557	32.32174	43.12654270	1
## 11259	406	324.408734	74.354380319	175.93855	50.43189612	1
## 11260	677	527.746999	87.189090049	175.93855	63.07935055	1
## 11261	301	277.112793	126.714571926	175.93855	102.19816715	1
## 11262	189	201.579847	163.127780567	175.93855	127.72317079	1
## 11263	229	220.258256	213.953595332	316.20792	177.26127377	1
## 11264	264	239.925869	225.080084015	316.20792	187.61264901	1
## 11265	238	238.325951	245.046167906	316.20792	206.37662497	1
## 11266	237	238.119360	265.012251798	316.20792	225.14060093	1
## 11267	262	248.609781	278.348639283	316.20792	237.59512635	1
## 11268	387	367.204459	297.864063480	316.20792	253.57940574	1
## 11269	748	678.317434	294.831123527	316.20792	252.01160933	1
## 11270	776	680.046057	302.318165534	316.20792	259.50989176	1
## 11271	586	484.090928	298.078682290	316.20792	255.45308714	1
## 11272	404	342.513376	294.595082643	316.20792	251.10559417	1
## 11273	267	230.605507	275.113962895	316.20792	236.84550044	1
## 11274	248	196.901315	275.268126442	316.20792	235.35174769	1
## 11275	144	122.152889	266.559511015	316.20792	230.06062088	1
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## 11279	10	10.074309	44.023164387	32.32174	12.64748877	1
## 11280	3	5.879827	32.401468103	32.32174	2.57062714	1

## 11281	25	23.469003	38.129271003	32.32174	10.74545595	1
## 11282	113	93.516904	58.875705822	32.32174	30.86263947	1
## 11283	359	321.222069	53.103355017	175.93855	25.74202082	1
## 11284	700	508.204366	66.439742502	175.93855	38.19654624	1
## 11285	359	308.066485	94.543923030	175.93855	62.68989086	1
## 11286	237	212.425414	139.796098442	316.20792	102.55941227	1
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## 11289	381	327.277961	272.489856603	316.20792	226.29882362	1
## 11290	394	316.660018	284.119706523	316.20792	236.45662242	1
## 11291	407	327.917587	284.473690887	316.20792	237.83903074	1
## 11292	580	468.031875	304.439774778	316.20792	256.60300670	1
## 11293	819	638.421453	300.956175131	316.20792	252.25551373	1
## 11294	668	580.894534	295.964175254	316.20792	248.48810263	1
## 11295	492	478.170172	289.463775146	316.20792	245.30077342	1
## 11296	341	335.225151	283.970097514	316.20792	241.72629134	1
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## 11305	1	9.693869	88.641710077	32.32174	63.05329600	1
## 11306	31	35.208885	95.627074329	32.32174	70.74450745	1
## 11307	76	107.993331	104.119155328	316.20792	77.85628443	1
## 11308	201	194.275082	119.162080378	316.20792	92.60753646	1
## 11309	331	290.846561	139.831346324	316.20792	114.05409707	1
## 11310	482	420.629076	195.605187178	316.20792	162.98904991	1
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## 11312	640	546.447918	236.742214770	316.20792	203.00665745	1
## 11313	649	560.680387	256.708298662	316.20792	221.77063341	1
## 11314	609	556.137880	296.788159837	316.20792	257.72324799	1
## 11315	628	591.131336	322.880578897	316.20792	282.99025092	1
## 11316	639	587.779087	319.146140372	316.20792	278.73922246	1
## 11317	568	529.313208	364.176366246	316.20792	326.27907910	1
## 11318	416	414.194929	318.304647809	316.20792	282.47918054	1
## 11319	54	146.138028	231.558916385	316.20792	210.83589189	1
## 11320	39	83.383248	198.342876883	316.20792	185.79307459	1
## 11321	102	90.390080	207.338319120	316.20792	192.71127514	1
## 11322	110	110.248524	210.826278833	175.93855	185.27781342	1
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## 11324	117	94.212176	36.823438385	32.32174	21.31369484	1
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## 11326	56	55.848762	77.084242358	32.32174	51.48388811	1
## 11327	40	29.412092	52.933541173	32.32174	39.04522817	1
## 11328	7	12.412189	71.470077190	32.32174	57.05926151	1
## 11329	6	10.820071	79.962158190	32.32174	64.17103849	1
## 11330	12	21.958621	100.257933315	32.32174	81.50852544	1
## 11331	24	60.143183	90.171843119	175.93855	78.42610006	1
## 11332	51	78.187373	78.497445292	175.93855	71.32251142	1
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## 11343	35	44.522561	142.630239611	175.93855	131.63578307	1
## 11344	35	39.418983	135.098649698	175.93855	127.19171081	1
## 11345	11	34.536423	155.343406763	175.93855	147.50182334	1
## 11346	13	24.593231	159.242020154	175.93855	149.17438738	1
## 11347	17	37.693130	184.832761459	175.93855	174.63431933	1
## 11348	6	12.508174	15.551318494	32.32174	-6.42368790	1
## 11349	2	6.197670	2.924583218	32.32174	-16.11404409	1
## 11350	4	7.165479	5.739933699	32.32174	-18.65686715	1
## 11351	1	4.403295	25.732168403	32.32174	1.75035730	1
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## 11353	14	11.956210	33.177575232	32.32174	17.06847070	1
## 11354	45	57.374341	42.594787824	32.32174	19.19249710	1
## 11355	207	179.732086	47.648298008	175.93855	32.25861200	1
## 11356	482	377.313825	71.331625888	175.93855	46.61438662	1
## 11357	272	231.940001	79.823706888	175.93855	53.72616360	1
## 11358	100	108.660911	103.204549390	175.93855	77.08294537	1
## 11359	101	105.348735	111.193269153	175.93855	84.38829878	1
## 11360	129	107.872951	120.640426129	175.93855	100.01746554	1
## 11361	107	104.765397	139.680323384	175.93855	117.83792245	1
## 11362	114	132.012994	162.861345070	175.93855	138.31854314	1
## 11363	112	109.404183	171.022679791	175.93855	140.92553949	1
## 11364	103	116.343253	116.790915180	175.93855	99.06660749	1
## 11365	232	186.990525	121.566380629	175.93855	104.65466876	1
## 11366	379	255.572442	133.845027579	175.93855	120.46897263	1
## 11367	298	237.545999	161.418641012	175.93855	137.58137554	1
## 11368	203	178.094664	162.051298548	175.93855	140.50992044	1
## 11369	152	128.621192	159.493885537	175.93855	137.10594652	1
## 11370	89	93.904833	179.206392024	175.93855	150.03576476	1
## 11371	59	69.278379	186.191756276	175.93855	157.72697621	1
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## 11373	7	9.454489	8.244645166	32.32174	-12.27962024	1
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## 11375	2	4.681409	26.406461118	32.32174	-3.14092878	1
## 11376	3	6.105039	51.849683232	32.32174	22.72933908	1
## 11377	22	19.951695	59.336725239	32.32174	30.22762151	1
## 11378	120	95.741719	67.327128483	32.32174	37.53232752	1
## 11379	390	346.887570	90.508150170	175.93855	58.01294821	1
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## 11381	308	272.971593	172.123571206	175.93855	132.31136849	1
## 11382	162	182.464304	184.454919699	175.93855	145.15239935	1
## 11383	184	230.421987	240.507433726	175.93855	195.63348876	1
## 11384	224	280.457147	258.263618815	175.93855	212.29431454	1
## 11385	224	254.906706	271.600006301	316.20792	224.74883996	1
## 11386	216	259.336221	287.926643516	316.20792	240.65972311	1
## 11387	236	274.030417	300.335160882	316.20792	252.17137689	1
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## 11389 691 633.666689 322.866811421 316.20792 274.42026394 1
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## 11452	592	513.793940	151.976598837	175.93855	120.82266820	1
## 11453	334	277.250216	186.863529954	175.93855	142.70758661	1
## 11454	236	209.348163	212.203432381	175.93855	168.26398306	1
## 11455	233	223.338391	218.183757640	175.93855	176.34169996	1
## 11456	307	275.966432	236.441620485	175.93855	192.80959672	1
## 11457	306	285.010305	251.061720136	175.93855	206.42375327	1
## 11458	300	293.004803	257.543723150	175.93855	214.30854115	1
## 11459	324	269.690467	294.180991418	316.20792	244.02574883	1
## 11460	440	401.761116	297.647877455	316.20792	253.07005306	1
## 11461	702	647.880504	324.296359296	316.20792	275.17020656	1
## 11462	654	570.008929	323.220795785	316.20792	275.80267226	1
## 11463	441	454.519007	320.942055947	316.20792	273.94483491	1
## 11464	289	287.166875	306.131572681	175.93855	263.79457704	1
## 11465	208	200.236938	303.600310484	175.93855	262.03385161	1
## 11466	158	144.648932	293.434312887	175.93855	254.35018110	1
## 11467	116	104.875970	290.652211812	175.93855	252.68592018	1
## 11468	103	86.620759	100.789763705	32.32174	78.42671743	1
## 11469	67	58.938366	89.219085483	32.32174	65.37723021	1
## 11470	57	53.698956	109.914502241	32.32174	88.46703931	1
## 11471	26	21.784803	99.297844950	32.32174	78.00367222	1
## 11472	2	8.367909	105.779847965	32.32174	85.88846010	1
## 11473	5	9.551414	119.393225140	32.32174	99.88976951	1
## 11474	28	27.112463	121.255609734	32.32174	100.69209595	1
## 11475	55	76.454826	128.240973986	175.93855	108.38330740	1
## 11476	158	169.715027	166.812434930	175.93855	144.91600386	1
## 11477	214	245.432748	176.988924773	175.93855	164.87100376	1
## 11478	291	277.920552	180.610548475	175.93855	164.99678381	1
## 11479	358	315.942572	187.092551489	175.93855	172.88157169	1
## 11480	381	329.284609	186.190657982	175.93855	174.74694997	1
## 11481	389	341.106905	212.786438280	175.93855	199.82037647	1
## 11482	440	390.209065	227.351497778	175.93855	204.21741380	1
## 11483	408	360.151229	230.218921364	175.93855	204.63323479	1
## 11484	376	338.724338	248.002312311	175.93855	228.86857871	1
## 11485	322	293.987195	242.005273441	175.93855	225.48767306	1
## 11486	90	167.884363	226.443328587	175.93855	221.55807835	1
## 11487	139	148.468441	171.455025251	175.93855	167.79879508	1
## 11488	102	135.713116	195.259321591	175.93855	186.36075528	1
## 11489	84	88.537392	187.434148258	175.93855	182.40885449	1
## 11490	83	92.525164	195.595482979	175.93855	185.01585085	1
## 11491	42	61.588124	197.129859821	175.93855	187.24401889	1
## 11492	36	41.008786	7.102239096	32.32174	4.29992707	1
## 11493	42	42.963806	16.268612811	32.32174	6.52041798	1
## 11494	40	35.520104	9.994584250	32.32174	1.59272834	1
## 11495	16	17.410369	18.988343005	32.32174	8.51157631	1
## 11496	4	8.018144	25.470346019	32.32174	16.39636419	1

## 11497	6	9.380420	26.526457392	32.32174	14.53008751	1
## 11498	7	18.745187	36.274416262	32.32174	21.15889454	1
## 11499	27	49.884546	42.082126562	175.93855	33.93496850	1
## 11500	107	123.128584	87.256078056	175.93855	69.20259736	1
## 11501	185	199.097438	111.641959551	175.93855	92.17287368	1
## 11502	380	329.397383	133.065425612	175.93855	113.32939335	1
## 11503	411	374.511150	186.101139179	175.93855	164.97064652	1
## 11504	584	489.049434	216.666057386	175.93855	191.47067681	1
## 11505	595	496.732768	227.792546069	316.20792	201.82205205	1
## 11506	653	556.349065	269.527926748	316.20792	243.04401882	1
## 11507	603	521.508626	278.495534690	316.20792	248.31961829	1
## 11508	587	516.955230	318.575395865	316.20792	284.27223287	1
## 11509	522	492.025710	335.880921260	316.20792	298.15336208	1
## 11510	487	447.830591	339.477677713	316.20792	302.89501622	1
## 11511	375	366.120333	312.863500322	316.20792	282.51904838	1
## 11512	243	270.688015	326.227722103	316.20792	296.61617488	1
## 11513	204	199.754173	287.410208953	316.20792	260.26217493	1
## 11514	108	137.351874	293.416685025	316.20792	269.98314032	1
## 11515	82	100.529578	264.115798325	175.93855	243.08107724	1
## 11516	48	45.657103	56.920419199	32.32174	23.80304436	1
## 11517	24	22.299667	47.257782840	32.32174	15.92579742	1
## 11518	8	9.191614	68.756734292	32.32174	35.75358740	1
## 11519	4	6.457750	59.848298048	32.32174	27.58629952	1
## 11520	2	4.746168	93.931294554	32.32174	58.99300702	1
## 11521	20	16.451110	101.418336561	32.32174	66.49128945	1
## 11522	123	109.471320	146.898167085	32.32174	110.87957303	1
## 11523	349	345.656067	147.755512686	175.93855	112.06840492	1
## 11524	596	518.702638	170.711846307	175.93855	134.28873861	1
## 11525	268	257.559633	176.519556607	175.93855	147.06481257	1
## 11526	157	189.376495	193.774063941	175.93855	163.91856737	1
## 11527	163	184.745499	199.475716028	175.93855	170.45014769	1
## 11528	225	204.675393	200.834739384	175.93855	171.44605056	1
## 11529	247	219.085566	210.428360506	175.93855	180.73361177	1
## 11530	218	214.408277	215.677669416	316.20792	184.48614294	1
## 11531	231	207.629481	228.512379146	316.20792	197.13359738	1
## 11532	347	339.936666	239.834666554	316.20792	198.17138889	1
## 11533	683	567.480239	246.820030806	316.20792	205.86260034	1
## 11534	664	550.581579	253.632780098	316.20792	218.25216884	1
## 11535	471	393.911280	246.932559174	316.20792	212.18867855	1
## 11536	309	289.379071	258.614710721	316.20792	225.63297435	1
## 11537	221	209.878840	266.101752728	316.20792	233.13125678	1
## 11538	134	148.373165	281.926712188	316.20792	249.23506895	1
## 11539	60	95.391457	290.418793188	316.20792	256.34684593	1
## 11540	35	38.265501	103.193370553	32.32174	71.23843436	1
## 11541	21	20.705967	100.835778359	32.32174	70.71062152	1
## 11542	8	10.501020	87.681214515	32.32174	59.56994586	1
## 11543	3	7.908287	82.610362281	32.32174	57.13255927	1
## 11544	8	8.212247	108.504644007	32.32174	79.52275371	1
## 11545	17	20.752638	115.991686014	32.32174	87.02103614	1
## 11546	26	67.966677	111.000741181	32.32174	89.18489468	1
## 11547	169	217.269306	79.261245523	316.20792	49.72964962	1
## 11548	557	410.511598	93.100994245	316.20792	61.99059861	1
## 11549	349	280.569118	118.188374313	316.20792	87.64410699	1
## 11550	174	182.736954	173.856156954	316.20792	130.33456620	1

## 11551	229	204.443958	220.594603874	316.20792	180.17050204	1
## 11552	269	252.581176	254.244589460	316.20792	212.68982716	1
## 11553	249	236.500598	283.050268559	316.20792	239.86640384	1
## 11554	204	213.727795	303.518030206	316.20792	258.43745078	1
## 11555	234	234.437487	317.133090864	316.20792	272.43811277	1
## 11556	354	385.014359	325.796103341	316.20792	274.85218010	1
## 11557	681	710.037361	324.895893316	316.20792	276.71691097	1
## 11558	743	679.965303	308.177368187	316.20792	261.39441282	1
## 11559	487	493.072847	315.664410194	316.20792	268.89269525	1
## 11560	335	331.792480	296.486830868	316.20792	251.56286402	1
## 11561	282	266.045349	288.781570951	316.20792	245.88587917	1
## 11562	211	205.643892	294.007696095	316.20792	254.25363701	1
## 11563	95	126.395742	261.067362719	316.20792	224.49848113	1
## 11564	47	53.013426	90.624635664	32.32174	51.36143881	1
## 11565	15	22.689536	73.604253597	32.32174	39.10803075	1
## 11566	16	14.698894	81.091295604	32.32174	46.60631318	1
## 11567	6	7.947620	90.086737841	32.32174	53.52451374	1
## 11568	4	8.139931	79.166540129	32.32174	46.13088416	1
## 11569	33	27.962052	84.494701395	32.32174	48.55339082	1
## 11570	120	105.926660	105.470901415	32.32174	85.05187578	1
## 11571	358	334.966676	103.214290299	316.20792	72.64754213	1
## 11572	666	534.727080	113.284721928	316.20792	86.35804840	1
## 11573	315	303.717205	120.771763935	316.20792	93.85633083	1
## 11574	175	180.416118	146.916884539	316.20792	116.15006076	1
## 11575	184	186.035465	159.325401905	316.20792	127.66171454	1
## 11576	245	195.315407	163.901046538	316.20792	130.37361473	1
## 11577	228	209.997009	181.934221318	316.20792	148.58122449	1
## 11578	240	225.167987	220.930819582	316.20792	180.31845197	1
## 11579	256	246.792392	244.864357901	316.20792	200.50967913	1
## 11580	367	353.609815	251.849722153	316.20792	208.20089058	1
## 11581	729	598.148344	231.465599535	316.20792	188.38205113	1
## 11582	813	617.475980	226.752272830	316.20792	186.16077661	1
## 11583	504	418.839540	220.052051906	316.20792	180.09728632	1
## 11584	338	313.014543	221.689748435	316.20792	182.63932576	1
## 11585	239	227.853915	228.675112687	316.20792	190.33053721	1
## 11586	173	159.789638	219.263315205	316.20792	182.35682576	1
## 11587	98	101.876575	236.622197271	316.20792	205.45572160	1
## 11588	90	58.659688	47.019713865	32.32174	17.71616080	1
## 11589	24	23.214060	33.387939596	32.32174	8.41231006	1
## 11590	17	14.073719	41.376659358	32.32174	15.71766347	1
## 11591	6	8.206578	46.602784502	32.32174	24.08542131	1
## 11592	2	6.452551	58.360821358	32.32174	29.94121744	1
## 11593	21	20.917081	65.847863365	32.32174	37.43949987	1
## 11594	136	121.951136	71.828188624	32.32174	45.51721677	1
## 11595	384	284.660795	57.522121640	175.93855	41.10465211	1
## 11596	627	385.500105	85.624618686	175.93855	65.59864414	1
## 11597	304	286.203132	99.133621130	175.93855	73.35481250	1
## 11598	168	181.014315	140.869001809	316.20792	114.57677927	1
## 11599	201	220.560356	155.884721001	316.20792	121.75351317	1
## 11600	301	269.335690	180.321620558	316.20792	141.75116390	1
## 11601	265	250.179158	209.351987722	316.20792	167.18802758	1
## 11602	204	236.011391	237.377315894	316.20792	193.01139670	1
## 11603	283	242.282893	259.553298588	316.20792	213.87852284	1
## 11604	370	362.504452	281.227603526	316.20792	234.93857800	1

## 11605	704	695.338790	306.539671658	316.20792	258.85237338	1
## 11606	706	639.497340	305.187118457	316.20792	257.93805509	1
## 11607	522	457.567749	301.200157572	316.20792	253.78413854	1
## 11608	420	359.649494	264.620377520	316.20792	221.17588985	1
## 11609	299	255.401073	254.203541046	316.20792	213.58868384	1
## 11610	246	197.519604	259.429666190	316.20792	221.95644168	1
## 11611	121	145.608881	250.017868708	316.20792	213.98273022	1
## 11612	89	63.419081	94.393952757	32.32174	49.91188152	1
## 11613	48	33.357464	98.111677671	32.32174	58.85972124	1
## 11614	11	12.590868	89.201557945	32.32174	50.69308076	1
## 11615	14	9.543507	81.298160694	32.32174	42.13928743	1
## 11616	4	7.598809	88.281841463	32.32174	49.83114629	1
## 11617	24	24.162468	95.768883470	32.32174	57.32942872	1
## 11618	135	125.091886	82.640470439	32.32174	47.83200155	1
## 11619	356	385.852532	107.477011629	316.20792	73.58197444	1
## 11620	618	543.788201	114.964053636	316.20792	81.08025687	1
## 11621	294	285.235889	156.248774620	316.20792	119.52252708	1
## 11622	199	204.579191	181.216241271	316.20792	146.90111952	1
## 11623	258	240.386529	236.358533953	316.20792	200.33165147	1
## 11624	171	188.888224	187.230816661	316.20792	155.21016772	1
## 11625	278	247.149226	207.265795908	316.20792	175.22168521	1
## 11626	242	228.428228	223.166640677	316.20792	183.73699771	1
## 11627	343	297.367724	271.705387765	316.20792	232.50132761	1
## 11628	440	417.992372	324.514074658	316.20792	273.69190157	1
## 11629	643	594.143805	306.218882381	316.20792	251.77002672	1
## 11630	641	599.430479	313.705924388	316.20792	259.26830915	1
## 11631	452	476.558768	322.294106600	316.20792	275.20214579	1
## 11632	313	329.106509	323.430125374	316.20792	277.93711426	1
## 11633	235	265.494069	280.947014735	316.20792	237.08677300	1
## 11634	232	182.809291	244.791743564	316.20792	205.61497239	1
## 11635	256	160.201724	251.526268938	316.20792	213.40264834	1
## 11636	153	123.874030	74.141179234	32.32174	50.40978653	1
## 11637	107	95.306079	81.628221241	32.32174	57.90806897	1
## 11638	75	65.812613	72.216423760	32.32174	49.93435751	1
## 11639	32	32.339672	90.752959777	32.32174	67.94839084	1
## 11640	9	11.851976	83.100401403	32.32174	59.29813300	1
## 11641	22	16.266382	90.336604533	32.32174	66.89287994	1
## 11642	42	31.536776	75.527176312	32.32174	62.67389171	1
## 11643	87	93.974217	103.802288317	316.20792	82.46952668	1
## 11644	197	177.754622	129.696570042	316.20792	104.85972112	1
## 11645	284	249.812107	160.182635894	316.20792	132.68977592	1
## 11646	432	359.377805	208.598731039	316.20792	177.24856765	1
## 11647	575	472.316732	242.501238985	316.20792	209.67078084	1
## 11648	550	491.036611	256.088465348	316.20792	222.02884175	1
## 11649	524	461.671089	276.556226994	316.20792	240.59988869	1
## 11650	428	401.918683	258.490799918	316.20792	235.05931529	1
## 11651	541	415.280536	223.791227434	316.20792	205.98070579	1
## 11652	540	474.937691	261.963675183	316.20792	230.82916304	1
## 11653	502	467.186012	267.942316960	316.20792	238.90752735	1
## 11654	434	420.467757	261.745457274	316.20792	232.65046062	1
## 11655	405	374.666030	248.192535361	316.20792	222.01658538	1
## 11656	309	279.369763	239.202508234	316.20792	209.24869977	1
## 11657	269	227.710271	238.659195300	316.20792	217.26145976	1
## 11658	217	180.764914	245.642876070	316.20792	224.95331862	1

## 11659	149	122.953821	237.739478818	316.20792	216.39952528	1
## 11660	134	111.044895	63.024073433	32.32174	44.90561668	1
## 11661	121	97.574373	66.170170192	32.32174	46.86757425	1
## 11662	93	80.418404	74.662251192	32.32174	53.97935123	1
## 11663	28	28.756585	80.640892969	32.32174	62.05771554	1
## 11664	16	14.176946	80.097580035	32.32174	70.07047553	1
## 11665	11	14.278823	87.584622042	32.32174	77.56875796	1
## 11666	17	24.019134	96.076703042	32.32174	84.68053495	1
## 11667	36	92.248185	102.558706057	316.20792	92.56532283	1
## 11668	114	126.264235	94.322879045	316.20792	79.50739628	1
## 11669	191	207.588870	119.212121778	316.20792	102.28409616	1
## 11670	333	301.271424	144.802863083	316.20792	127.74402811	1
## 11671	414	363.892696	168.658177484	316.20792	143.33336273	1
## 11672	558	508.930881	205.802829081	316.20792	185.04673879	1
## 11673	565	513.217096	211.781470858	316.20792	193.12510310	1
## 11674	518	496.300040	221.027751973	316.20792	199.94683914	1
## 11675	571	487.608886	240.993835864	316.20792	218.71081510	1
## 11676	544	481.752140	246.721638763	316.20792	226.88564392	1
## 11677	511	466.459842	247.630002425	316.20792	225.10185023	1
## 11678	463	442.212416	264.961678633	316.20792	240.62622793	1
## 11679	383	369.782083	259.468001001	316.20792	237.05174585	1
## 11680	276	267.698990	269.136052470	316.20792	239.07930774	1
## 11681	203	197.984930	245.035314302	316.20792	217.73675258	1
## 11682	157	179.211835	252.020678554	316.20792	225.42796403	1
## 11683	102	115.148464	239.471112151	316.20792	214.40823075	1
## 11684	34	38.051239	68.259498601	32.32174	38.72447955	1
## 11685	9	14.433252	76.751579601	32.32174	45.83625653	1
## 11686	6	9.982420	80.068607837	32.32174	43.10050445	1
## 11687	5	6.595578	87.555649844	32.32174	50.59878689	1
## 11688	2	7.002094	56.350743372	32.32174	30.71422834	1
## 11689	23	24.762565	65.015439331	32.32174	33.12764826	1
## 11690	142	125.234239	72.502481338	32.32174	40.62593069	1
## 11691	385	377.452184	97.418929929	175.93855	70.97714872	1
## 11692	639	514.271118	112.262034162	316.20792	82.85223967	1
## 11693	350	276.295359	120.252437406	316.20792	90.15694567	1
## 11694	190	183.876711	144.134957665	316.20792	113.32079842	1
## 11695	213	201.043853	166.310940358	316.20792	134.18792456	1
## 11696	263	221.161431	191.200183091	316.20792	156.96462445	1
## 11697	272	259.737510	245.293637194	316.20792	205.24609917	1
## 11698	239	239.076003	265.761398840	316.20792	223.81714611	1
## 11699	262	249.152951	265.613705449	316.20792	225.39248345	1
## 11700	388	374.749044	268.759802208	316.20792	227.35444102	1
## 11701	769	653.991435	275.241805222	316.20792	235.23922890	1
## 11702	680	626.842672	283.230524984	316.20792	242.54458231	1
## 11703	546	458.880427	279.416179059	316.20792	233.69230871	1
## 11704	323	315.898674	283.289925203	316.20792	239.98074683	1
## 11705	247	223.140799	303.561888124	316.20792	267.86537750	1
## 11706	173	169.760352	311.550607886	316.20792	275.17073091	1
## 11707	113	133.419924	318.032610901	316.20792	283.05551879	1
## 11708	38	38.823295	125.517046639	32.32174	90.53022316	1
## 11709	9	16.073550	117.033119276	32.32174	83.49938335	1
## 11710	16	12.946539	116.936443945	32.32174	82.10209510	1
## 11711	6	6.947024	113.123153064	32.32174	79.18109114	1
## 11712	5	6.614311	121.364395186	32.32174	86.38933263	1

## 11713	20	25.090880	119.257641870	32.32174	85.76505528	1
## 11714	165	141.701753	111.776014973	32.32174	72.41708779	1
## 11715	463	409.484927	135.911057591	316.20792	95.48382862	1
## 11716	641	508.666072	145.609053445	316.20792	111.01653088	1
## 11717	295	249.951274	170.999973933	316.20792	133.60030175	1
## 11718	157	170.885867	185.341400411	316.20792	145.66832172	1
## 11719	217	208.228406	207.015705350	316.20792	166.72837687	1
## 11720	263	224.774747	217.137155040	316.20792	177.46625756	1
## 11721	219	217.737242	227.536649465	316.20792	195.68219187	1
## 11722	71	141.613881	221.592312139	316.20792	189.32801323	1
## 11723	134	173.564865	218.982197585	316.20792	188.89731231	1
## 11724	389	314.482843	231.816907315	316.20792	201.54476674	1
## 11725	717	612.144871	250.827915230	316.20792	211.79135292	1
## 11726	710	602.560563	258.314957237	316.20792	219.28963535	1
## 11727	458	439.136132	265.801999244	316.20792	226.78791779	1
## 11728	302	359.389092	273.289041251	316.20792	234.28620022	1
## 11729	223	224.849464	289.615678467	316.20792	250.19708337	1
## 11730	147	131.341116	254.492652145	316.20792	225.91329544	1
## 11731	63	83.245640	263.237255505	316.20792	232.92796050	1
## 11732	35	35.871896	73.553181216	32.32174	40.58780198	1
## 11733	14	16.970619	98.944101705	32.32174	63.17157285	1
## 11734	1	6.274370	74.221772365	32.32174	43.74703076	1
## 11735	2	5.847800	76.934458286	32.32174	53.08137593	1
## 11736	5	7.328287	85.426539286	32.32174	60.19315291	1
## 11737	28	25.993327	93.084512770	32.32174	62.99372570	1
## 11738	126	127.976627	100.069877022	32.32174	70.68493715	1
## 11739	418	328.768254	95.804242965	316.20792	64.98488403	1
## 11740	622	551.965028	138.293823758	316.20792	105.91680987	1
## 11741	325	302.281265	143.519948902	316.20792	114.28456770	1
## 11742	153	173.967373	200.905509673	316.20792	162.95331007	1
## 11743	201	202.047420	222.406144608	316.20792	182.78045264	1
## 11744	280	257.754266	233.057106349	316.20792	194.96800539	1
## 11745	266	247.855329	255.734766798	316.20792	215.64220251	1
## 11746	243	240.628031	263.221808805	316.20792	223.14048495	1
## 11747	259	256.667390	268.197095071	316.20792	231.60470729	1
## 11748	357	372.202985	289.669895710	316.20792	249.78924878	1
## 11749	705	618.234043	283.672856840	316.20792	246.40834314	1
## 11750	372	311.751259	208.885557207	316.20792	176.07224028	1
## 11751	98	165.597550	206.753936643	316.20792	180.06383701	1
## 11752	51	104.978140	200.930567777	316.20792	177.91584394	1
## 11753	34	92.908532	207.412570791	316.20792	185.80063182	1
## 11754	67	80.774680	208.045228327	175.93855	188.72917672	1
## 11755	55	72.852598	217.038987082	175.93855	195.64802468	1
## 11756	33	32.018318	61.234182654	32.32174	38.85245166	1
## 11757	11	16.492351	39.738962829	32.32174	13.17562403	1
## 11758	3	9.552755	46.724327081	32.32174	20.86683548	1
## 11759	3	7.278783	52.051433303	32.32174	17.35807250	1
## 11760	2	8.922968	83.344000895	32.32174	48.18458335	1
## 11761	24	27.142730	103.639776020	32.32174	65.52207029	1
## 11762	139	123.206860	104.021594679	32.32174	68.54707970	1
## 11763	401	373.594399	112.764514556	175.93855	75.56239217	1
## 11764	630	507.447743	138.155435044	175.93855	98.14616304	1
## 11765	361	301.962773	176.779597532	316.20792	131.70558650	1
## 11766	154	170.960626	201.191629841	316.20792	156.31911132	1

## 11767	256	243.858799	222.916952840	316.20792	174.40654089	1
## 11768	272	249.835332	228.644755739	316.20792	182.58136971	1
## 11769	318	264.741396	262.373593681	316.20792	213.77067032	1
## 11770	247	247.938987	279.626417533	316.20792	230.62507253	1
## 11771	271	255.555894	280.762436306	316.20792	233.36004099	1
## 11772	421	386.491974	316.673338755	316.20792	265.00989070	1
## 11773	732	659.414720	326.543949568	316.20792	275.84423589	1
## 11774	770	656.414564	315.753622273	316.20792	264.14795623	1
## 11775	553	473.612776	310.207243097	316.20792	263.54674715	1
## 11776	374	346.029963	304.713565464	316.20792	259.97226507	1
## 11777	230	211.929752	299.668864044	316.20792	259.17812697	1
## 11778	232	205.077983	305.649189303	316.20792	267.25584387	1
## 11779	135	129.464918	294.027493019	175.93855	257.17898223	1
## 11780	64	61.129732	100.506889764	32.32174	65.04019205	1
## 11781	46	39.746906	117.335204735	32.32174	80.75814619	1
## 11782	31	23.635212	140.794899594	32.32174	102.78490345	1
## 11783	13	15.459489	156.921715993	32.32174	115.81962553	1
## 11784	9	11.510382	131.312577594	32.32174	95.05715225	1
## 11785	26	25.782299	144.927638253	32.32174	109.05781424	1
## 11786	135	117.549785	147.291700601	32.32174	109.66721166	1
## 11787	351	347.396239	154.778742608	175.93855	117.16549409	1
## 11788	620	519.770745	187.223868384	175.93855	147.19516358	1
## 11789	322	283.372472	207.944152391	175.93855	165.66909860	1
## 11790	210	199.305476	238.682740602	316.20792	193.40204147	1
## 11791	291	248.157567	258.820811015	316.20792	213.39957743	1
## 11792	348	285.306601	284.541422737	316.20792	234.55685929	1
## 11793	363	305.600473	307.645275550	316.20792	256.36685707	1
## 11794	334	315.606878	324.847081341	316.20792	276.19388486	1
## 11795	439	356.763048	327.410964506	316.20792	279.67944337	1
## 11796	525	436.074584	337.160606858	316.20792	286.30760298	1
## 11797	779	682.372817	353.659230595	316.20792	303.45204613	1
## 11798	596	627.355109	361.649633840	316.20792	310.75675213	1
## 11799	503	495.553662	368.633314609	316.20792	318.44861099	1
## 11800	341	365.525750	363.841135549	316.20792	317.55736097	1
## 11801	270	277.934023	358.347457916	316.20792	313.98287890	1
## 11802	234	209.877272	340.676595338	316.20792	296.07361320	1
## 11803	180	158.468828	337.391133025	316.20792	294.60292871	1
## 11804	136	134.428106	144.113926307	32.32174	115.75092015	1
## 11805	93	96.610135	129.727951923	32.32174	106.73711035	1
## 11806	56	55.246095	103.468333013	32.32174	80.31877942	1
## 11807	34	33.642579	114.543803636	32.32174	93.64278024	1
## 11808	9	12.086842	94.412203378	32.32174	73.72682887	1
## 11809	13	13.754054	96.551577661	32.32174	76.07593930	1
## 11810	33	31.757871	103.286103036	32.32174	83.86361526	1
## 11811	67	86.489573	102.686066467	175.93855	82.65990344	1
## 11812	178	189.095053	187.986591450	316.20792	164.18133036	1
## 11813	335	288.673518	199.113080133	316.20792	174.53270560	1
## 11814	411	357.206479	213.957867849	316.20792	186.40714913	1
## 11815	522	510.016031	256.672136707	316.20792	225.59936197	1
## 11816	559	578.255922	282.313896073	316.20792	248.08666833	1
## 11817	659	614.622912	290.302615835	316.20792	255.39202174	1
## 11818	615	607.893006	303.639003321	316.20792	267.84654716	1
## 11819	590	585.430661	343.494176431	316.20792	305.53887474	1
## 11820	591	552.595687	361.780928615	316.20792	329.58064223	1

## 11821	576	547.079051	324.420797634	316.20792	295.61918598	1
## 11822	546	524.227615	342.957333652	316.20792	313.63321932	1
## 11823	439	454.705828	333.043858415	316.20792	305.85243688	1
## 11824	287	301.645396	314.261898630	316.20792	282.08518299	1
## 11825	230	222.580363	282.778318985	316.20792	260.65448787	1
## 11826	274	212.125001	262.566811327	316.20792	236.13729136	1
## 11827	176	170.914412	301.669467804	316.20792	274.11901247	1
## 11828	98	111.908450	107.194843618	32.32174	79.39410215	1
## 11829	94	89.404033	97.810251993	32.32174	78.99490883	1
## 11830	82	75.743265	105.800655238	32.32174	86.29961483	1
## 11831	28	34.801031	121.623931216	32.32174	102.40407442	1
## 11832	9	14.238108	121.276417007	32.32174	101.10325068	1
## 11833	12	15.236137	115.753850035	32.32174	89.95489788	1
## 11834	21	28.671181	131.578809495	32.32174	106.05871005	1
## 11835	60	81.181661	139.065851502	316.20792	113.55699248	1
## 11836	156	171.878683	167.091179674	316.20792	139.38036161	1
## 11837	222	261.239790	203.452741816	316.20792	173.80990788	1
## 11838	350	360.497243	204.110266601	316.20792	172.12257870	1
## 11839	428	447.438819	224.076350492	316.20792	190.88655466	1
## 11840	531	507.627600	236.911060222	316.20792	203.53400909	1
## 11841	602	518.114583	263.228167347	316.20792	227.06129902	1
## 11842	552	494.494969	287.813869659	316.20792	252.90773642	1
## 11843	499	506.165830	311.549270644	316.20792	270.22215509	1
## 11844	564	538.291526	323.906769950	316.20792	284.70643445	1
## 11845	478	494.332861	321.679048173	316.20792	279.87597152	1
## 11846	389	435.097077	322.842272804	316.20792	290.18545812	1
## 11847	339	359.765185	312.225615513	316.20792	279.72209104	1
## 11848	230	272.671305	317.451740657	316.20792	288.08984887	1
## 11849	169	213.372107	310.951340549	316.20792	284.90251966	1
## 11850	131	165.280051	294.408168906	316.20792	270.81228668	1
## 11851	74	129.957057	311.739845114	316.20792	286.33666438	1
## 11852	35	38.887453	140.074833343	32.32174	101.94259439	1
## 11853	11	14.929028	139.225641380	32.32174	100.83469967	1
## 11854	2	11.499663	148.642853971	32.32174	102.95872606	1
## 11855	2	6.813057	131.425389614	32.32174	93.75977916	1
## 11856	6	8.074880	105.565412338	32.32174	73.09377039	1
## 11857	26	25.945976	112.047415352	32.32174	80.97855827	1
## 11858	65	56.366166	76.698417402	32.32174	52.17536076	1
## 11859	75	142.537888	82.426220301	316.20792	60.35018958	1
## 11860	156	197.678071	109.525361836	316.20792	85.23003965	1
## 11861	110	132.009766	118.017442836	316.20792	92.34181664	1
## 11862	59	110.525752	125.001123605	316.20792	100.03367550	1
## 11863	79	139.537726	150.564659053	316.20792	117.91908931	1
## 11864	185	178.855253	148.007246043	316.20792	114.51511539	1
## 11865	176	193.911280	205.185767523	316.20792	168.81588494	1
## 11866	171	186.391957	213.174487285	316.20792	176.12123835	1
## 11867	196	213.973736	219.154812544	316.20792	184.19895525	1
## 11868	111	205.395408	235.812196038	316.20792	204.61461903	1
## 11869	229	249.446649	183.259763133	316.20792	157.47789551	1
## 11870	300	313.719785	205.053981487	316.20792	176.81286660	1
## 11871	304	295.288516	202.073114640	316.20792	178.20371425	1
## 11872	189	226.642109	212.244527347	316.20792	180.03769971	1
## 11873	152	180.930275	229.023507739	316.20792	198.72763202	1
## 11874	129	147.467425	247.560043756	316.20792	216.74166535	1

## 11875	75	98.604650	255.297924641	316.20792	224.14348328	1
## 11876	32	34.265881	55.649302735	32.32174	25.50231354	1
## 11877	19	15.185653	61.457013035	32.32174	38.27838750	1
## 11878	4	9.829220	70.623386749	32.32174	40.49887840	1
## 11879	6	7.193436	93.329936538	32.32174	68.74694625	1
## 11880	5	6.877448	68.397829381	32.32174	49.02380911	1
## 11881	8	14.195873	79.654188481	32.32174	55.07253426	1
## 11882	24	60.432473	87.141230488	32.32174	62.57081669	1
## 11883	92	164.444061	93.119872265	316.20792	70.64918100	1
## 11884	409	483.147316	120.642467637	316.20792	90.73420951	1
## 11885	355	306.111782	128.129509644	316.20792	98.23249194	1
## 11886	171	199.898317	171.344401213	316.20792	131.30050611	1
## 11887	224	221.508588	186.187505446	316.20792	143.17559706	1
## 11888	264	250.748168	204.724041464	316.20792	161.18963040	1
## 11889	239	234.702918	208.852420056	316.20792	179.24349588	1
## 11890	184	210.994428	218.018793770	316.20792	181.46398678	1
## 11891	256	257.791197	267.815102212	316.20792	229.74469931	1
## 11892	374	361.171358	263.548413110	316.20792	218.11337656	1
## 11893	678	587.075788	270.030416124	316.20792	225.99816444	1
## 11894	733	633.914842	291.955559940	316.20792	246.96175508	1
## 11895	512	434.237731	271.320598444	316.20792	227.23938014	1
## 11896	263	279.354904	260.256675113	316.20792	232.11797835	1
## 11897	109	160.664424	270.257156343	316.20792	238.64967345	1
## 11898	83	137.270786	251.500292326	316.20792	210.59439842	1
## 11899	71	86.043635	225.670259435	316.20792	203.43353001	1
## 11900	39	35.958431	59.237731350	32.32174	31.32803193	1
## 11901	21	19.541328	68.985690220	32.32174	37.95683896	1
## 11902	19	14.926351	60.048364637	32.32174	22.21568035	1
## 11903	6	8.023400	79.288082708	32.32174	42.91229833	1
## 11904	4	7.424786	68.168064180	32.32174	32.64250767	1
## 11905	38	27.762444	75.153428432	32.32174	40.33371912	1
## 11906	158	126.225435	82.389631561	32.32174	47.92846606	1
## 11907	440	418.319065	118.526505639	316.20792	84.09772534	1
## 11908	650	595.677424	131.862893124	316.20792	96.55225076	1
## 11909	347	304.582101	156.830359776	316.20792	123.93084320	1
## 11910	192	200.157045	218.852132697	316.20792	177.64309154	1
## 11911	267	248.944698	255.768074138	316.20792	208.90643580	1
## 11912	330	289.562392	264.260155138	316.20792	216.01821278	1
## 11913	350	298.213251	300.849372392	316.20792	254.96652122	1
## 11914	263	277.448740	309.844814629	316.20792	261.88472177	1
## 11915	274	286.083901	302.643970994	316.20792	261.94543014	1
## 11916	446	399.392633	318.440041115	316.20792	270.47537159	1
## 11917	873	740.657216	314.174407057	316.20792	264.77531847	1
## 11918	846	714.148818	322.164810302	316.20792	272.08002447	1
## 11919	590	523.753973	318.177849417	316.20792	267.92610793	1
## 11920	459	390.083855	289.153952407	316.20792	242.57082883	1
## 11921	393	290.027053	272.107419527	316.20792	228.67417228	1
## 11922	286	225.684101	279.092783779	316.20792	236.36538373	1
## 11923	133	126.908191	268.675947305	316.20792	228.77817772	1
## 11924	79	57.509868	91.126313419	32.32174	51.16850979	1
## 11925	28	26.213252	88.067222654	32.32174	47.95746489	1
## 11926	16	16.863351	106.603758671	32.32174	65.97149822	1
## 11927	3	10.312971	126.647011436	32.32174	83.40609709	1
## 11928	16	13.927875	155.280704015	32.32174	109.34911378	1

## 11929	35	30.947373	142.229459857	32.32174	98.52230951	1
## 11930	159	136.918734	133.319340131	32.32174	90.35566904	1
## 11931	474	423.902837	141.309743375	316.20792	97.66037504	1
## 11932	634	511.352001	183.730657334	316.20792	137.67261229	1
## 11933	346	303.239454	203.193379988	316.20792	156.63016467	1
## 11934	205	194.835406	213.765489373	316.20792	170.14774193	1
## 11935	279	237.200224	233.229895509	316.20792	189.10464691	1
## 11936	348	281.812812	259.322314569	316.20792	214.37164984	1
## 11937	327	306.474795	277.078499659	316.20792	231.03247562	1
## 11938	270	293.982317	297.044583550	316.20792	249.79645157	1
## 11939	316	295.961110	309.956462154	316.20792	261.11452892	1
## 11940	430	435.858074	333.337304657	316.20792	284.47131069	1
## 11941	852	748.173068	339.819307671	316.20792	292.35609857	1
## 11942	868	746.964436	356.649306124	316.20792	308.07340529	1
## 11943	537	504.938251	349.949085200	316.20792	302.00991500	1
## 11944	446	383.039613	325.848347032	316.20792	280.66735983	1
## 11945	299	276.412161	325.979326813	316.20792	283.78883374	1
## 11946	251	228.795764	320.736488058	316.20792	280.11788716	1
## 11947	166	158.308314	309.867308407	316.20792	269.75163199	1
## 11948	70	53.327438	109.215330991	32.32174	71.49632029	1
## 11949	49	32.996839	110.602188642	32.32174	74.13482425	1
## 11950	21	17.960722	95.313211387	32.32174	59.56226872	1
## 11951	14	15.574620	85.148897273	32.32174	51.87795079	1
## 11952	11	12.779406	82.842323140	32.32174	48.37751236	1
## 11953	34	28.910655	89.324326154	32.32174	56.26230024	1
## 11954	182	137.212166	91.463700438	32.32174	58.61141067	1
## 11955	515	417.193653	93.248916158	175.93855	60.74311421	1
## 11956	745	562.198762	169.613344802	316.20792	131.28965073	1
## 11957	361	293.670706	194.927096417	316.20792	155.20279869	1
## 11958	255	220.584880	236.713495156	316.20792	193.45213988	1
## 11959	334	271.056342	254.418662185	316.20792	213.08559125	1
## 11960	360	306.831731	269.591457652	316.20792	223.53419318	1
## 11961	395	330.362797	293.475661392	316.20792	246.69739852	1
## 11962	350	312.500293	310.728485244	316.20792	263.55180073	1
## 11963	391	337.931119	314.800768640	316.20792	266.45727735	1
## 11964	568	465.218636	327.712647244	316.20792	277.77535470	1
## 11965	812	735.289358	333.189611265	316.20792	286.04664803	1
## 11966	669	641.110535	327.496112816	316.20792	279.59600487	1
## 11967	483	472.888139	322.000751701	316.20792	276.02217021	1
## 11968	337	352.037113	328.986115953	316.20792	283.71338166	1
## 11969	258	267.191602	330.069433183	316.20792	289.42162312	1
## 11970	251	216.086771	304.867554810	316.20792	259.64351374	1
## 11971	174	150.794204	288.497653253	316.20792	253.04596333	1
## 11972	148	130.936762	129.849494502	32.32174	103.51852452	1
## 11973	104	96.610135	129.727951923	32.32174	106.73711035	1
## 11974	69	74.055495	132.344536631	32.32174	107.24939585	1
## 11975	33	45.056097	146.461275045	32.32174	121.05712883	1
## 11976	14	17.438545	123.539245873	32.32174	100.56098080	1
## 11977	12	13.413434	105.989351755	32.32174	86.85790068	1
## 11978	50	33.733942	98.085954504	32.32174	78.30410734	1
## 11979	95	96.879690	122.722674877	175.93855	101.17791915	1
## 11980	195	174.674595	181.911274342	316.20792	154.70567780	1
## 11981	292	291.876500	220.986096525	316.20792	191.04479783	1
## 11982	452	389.955248	225.708860431	316.20792	199.60613210	1

## 11983	586	527.123507	263.301833113	316.20792	231.90881251	1
## 11984	642	594.765489	285.398963451	316.20792	254.10596315	1
## 11985	704	619.623583	304.635714475	316.20792	268.54410597	1
## 11986	730	642.992682	332.688876942	316.20792	296.01007618	1
## 11987	672	633.239952	340.426757827	316.20792	303.41189410	1
## 11988	642	578.905403	353.763145312	316.20792	315.86641952	1
## 11989	626	588.209922	360.999348442	316.20792	323.46116646	1
## 11990	645	569.779316	361.856694042	316.20792	324.64999835	1
## 11991	432	418.414282	345.138168913	316.20792	309.32750020	1
## 11992	315	318.974970	341.603551205	316.20792	307.95263281	1
## 11993	259	258.463055	315.994412807	316.20792	287.19015953	1
## 11994	338	272.615747	330.111151220	316.20792	300.99789250	1
## 11995	239	197.129672	308.774691153	316.20792	278.59228550	1
## 11996	170	146.990162	136.348036926	32.32174	107.87150257	1
## 11997	130	109.108813	138.436393149	32.32174	113.19323859	1
## 11998	98	86.228121	145.923435156	32.32174	120.69152102	1
## 11999	66	52.051777	140.229936707	32.32174	114.24087786	1
## 12000	16	15.999107	115.348847611	32.32174	91.54511514	1
## 12001	8	12.982609	108.397787809	32.32174	85.57808936	1
## 12002	25	28.718414	136.275596790	32.32174	111.81179440	1
## 12003	90	86.081652	139.567529257	316.20792	113.36406346	1
## 12004	171	179.212068	184.770370091	316.20792	156.20556305	1
## 12005	313	334.015623	264.349736530	316.20792	228.46874430	1
## 12006	432	439.696240	279.869872004	316.20792	241.38317141	1
## 12007	581	548.956834	283.440477645	316.20792	244.48157705	1
## 12008	637	618.684372	296.776865130	316.20792	256.93610247	1
## 12009	607	609.692506	307.149153698	316.20792	267.57751864	1
## 12010	543	555.329119	317.824982687	316.20792	275.14919731	1
## 12011	502	508.705297	318.285025264	316.20792	282.77609926	1
## 12012	577	560.473843	325.666009057	316.20792	284.02988806	1
## 12013	549	513.431066	326.021676903	316.20792	285.41164897	1
## 12014	474	466.311493	314.399980619	316.20792	275.33478734	1
## 12015	402	368.107702	289.596060397	316.20792	251.30964753	1
## 12016	274	291.396687	297.083102404	316.20792	258.80792996	1
## 12017	233	210.675396	280.539930761	316.20792	244.71769698	1
## 12018	145	160.646922	272.332993089	316.20792	239.23364115	1
## 12019	86	94.053129	260.064209948	316.20792	241.62258373	1
## 12020	40	31.049776	62.583594607	32.32174	34.67329621	1
## 12021	15	14.445260	71.075675606	32.32174	41.78507320	1
## 12022	11	8.434732	57.694740215	32.32174	32.38475795	1
## 12023	2	6.535342	80.874706857	32.32174	46.93410900	1
## 12024	7	7.878837	86.682417156	32.32174	59.71018295	1
## 12025	15	19.717222	94.169459164	32.32174	67.20846539	1
## 12026	79	76.438134	101.656501171	32.32174	74.70674782	1
## 12027	153	170.931020	109.143543178	316.20792	82.20503025	1
## 12028	270	220.835970	115.876385070	316.20792	89.99335362	1
## 12029	186	178.961526	122.861749321	316.20792	97.68456507	1
## 12030	99	125.758105	137.203175799	316.20792	109.75258504	1
## 12031	106	158.357614	161.258311017	316.20792	128.21808073	1
## 12032	170	175.172731	170.252069772	316.20792	135.13692870	1
## 12033	184	185.612142	176.059780072	316.20792	147.91300265	1
## 12034	180	209.132128	182.541783086	316.20792	155.79779053	1
## 12035	225	215.670772	225.505835777	316.20792	188.96226922	1
## 12036	315	321.533437	233.997916777	316.20792	196.07404620	1

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## 12037 508 542.186644 256.173899471 316.20792 216.94117234 1
## 12038 530 495.653656 248.139576758 316.20792 206.75875945 1
## 12039 448 406.389697 270.064720574 316.20792 227.72235010 1
## 12040 336 333.897512 272.454933735 316.20792 229.97499602 1
## 12041 241 235.772894 273.340113632 316.20792 232.80642899 1
## 12042 142 161.107919 271.564106593 316.20792 236.68693227 1
## 12043 97 116.597848 282.740558293 316.20792 238.13441228 1
## 12044 36 40.091390 76.237551916 32.32174 34.92350500 1
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## 12053 333 303.841464 145.279188010 316.20792 113.60802132 1
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## 12059 245 249.596222 269.494433919 316.20792 224.46690779 1
## 12060 386 366.643975 271.382969325 316.20792 226.91248273 1
## 12061 785 671.451899 304.278754795 316.20792 259.72184878 1
## 12062 785 661.406667 286.858731094 316.20792 241.71611857 1
## 12063 364 403.318243 272.325637437 316.20792 226.85287470 1
## 12064 373 365.627942 265.625416513 316.20792 220.78938440 1
## 12065 261 255.401073 254.203541046 316.20792 213.58868384 1
## 12066 174 186.539666 271.987560430 316.20792 231.89211070 1
## 12067 105 120.617433 279.725441315 316.20792 239.29392863 1
## 12068 47 51.034012 96.975658898 32.32174 56.12475278 1
## 12069 32 26.213252 88.067222654 32.32174 47.95746489 1
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## 12074 160 133.045774 101.749208729 32.32174 65.40714562 1
## 12075 468 433.126103 124.375851117 316.20792 89.05396833 1
## 12076 719 595.677424 131.862893124 316.20792 96.55225076 1
## 12077 297 294.121595 160.418788391 316.20792 129.75656159 1
## 12078 191 198.855926 171.093562335 316.20792 131.39697062 1
## 12079 197 211.698143 193.971043601 316.20792 154.94732882 1
## 12080 248 243.188258 215.976094817 316.20792 180.51216460 1
## 12081 270 247.227402 213.669520684 316.20792 177.01172618 1
## 12082 248 255.578872 248.070967858 316.20792 203.31038812 1
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## 12089 245 209.598128 239.213798465 316.20792 209.22019987 1
## 12090 159 156.832381 249.465118573 316.20792 215.65543047 1

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## 12091	106	137.577609	252.278785571	316.20792	213.11325482	1
## 12092	56	50.012488	79.324302776	32.32174	40.94215241	1
## 12093	30	23.404218	75.761850773	32.32174	37.92468394	1
## 12094	16	14.507647	81.740492550	32.32174	46.00304825	1
## 12095	4	8.267140	89.307441957	32.32174	58.10257582	1
## 12096	5	8.193602	97.799522957	32.32174	65.21435281	1
## 12097	30	27.436721	105.286564964	32.32174	72.71263524	1
## 12098	156	131.902764	112.773606971	32.32174	80.21091767	1
## 12099	415	389.973171	131.984435703	316.20792	93.33366493	1
## 12100	692	557.337489	167.921488964	316.20792	126.62676313	1
## 12101	301	270.888196	175.911892209	316.20792	133.93146913	1
## 12102	185	200.290706	206.424108873	316.20792	163.40477242	1
## 12103	221	226.118369	219.760496359	316.20792	175.85929784	1
## 12104	289	282.812523	253.913843181	316.20792	208.18504653	1
## 12105	302	274.869618	277.094864868	316.20792	228.66566722	1
## 12106	252	236.626685	289.226392544	316.20792	238.63053701	1
## 12107	291	256.319067	297.215112306	316.20792	245.93589042	1
## 12108	390	352.175513	306.461393421	316.20792	252.75762646	1
## 12109	798	695.402027	312.692557557	316.20792	260.73887885	1
## 12110	752	651.520971	317.294353003	316.20792	265.09402754	1
## 12111	492	458.666687	302.959396680	316.20792	253.10759215	1
## 12112	398	364.929534	279.138386729	316.20792	239.24244320	1
## 12113	285	211.240311	257.197584347	316.20792	228.90693345	1
## 12114	243	195.167533	265.358919069	316.20792	231.51392980	1
## 12115	167	140.175117	273.347638831	316.20792	238.81928322	1
## 12116	73	52.965474	85.926164887	32.32174	45.60900187	1
## 12117	42	29.786380	92.660690262	32.32174	53.39667783	1
## 12118	23	16.047731	96.960000331	32.32174	66.75283367	1
## 12119	14	9.885430	95.156787436	32.32174	63.05881881	1
## 12120	9	10.007567	100.884590335	32.32174	71.23364763	1
## 12121	30	27.695544	109.880032572	32.32174	78.15184818	1
## 12122	113	124.209643	117.617913457	32.32174	85.55366610	1
## 12123	359	357.668629	126.109994457	316.20792	92.66544309	1
## 12124	583	530.680235	136.231444147	316.20792	103.40332377	1
## 12125	340	317.487475	144.220163909	316.20792	110.70867719	1
## 12126	232	243.077142	187.687577838	316.20792	143.67957944	1
## 12127	283	251.326682	194.671258608	316.20792	151.37143830	1
## 12128	321	293.650532	242.083998243	316.20792	196.31608807	1
## 12129	333	297.871258	264.761658692	316.20792	216.99028519	1
## 12130	367	297.082042	281.088295907	316.20792	232.90116834	1
## 12131	466	350.676376	286.590127177	316.20792	236.55658759	1
## 12132	584	452.316059	322.528863920	316.20792	269.84903838	1
## 12133	653	598.843401	303.072611421	316.20792	250.97307058	1
## 12134	522	554.512895	309.051253198	316.20792	259.05143489	1
## 12135	404	432.811577	311.693988719	316.20792	261.20696888	1
## 12136	350	348.647364	299.345926616	316.20792	253.06274927	1
## 12137	255	255.056771	306.329607385	316.20792	260.75460813	1
## 12138	212	207.033645	281.727191462	316.20792	239.60498199	1
## 12139	166	139.857496	282.384716246	316.20792	237.91765280	1
## 12140	116	108.327124	88.604148291	32.32174	59.25922067	1
## 12141	82	87.602055	95.587829060	32.32174	66.95107953	1
## 12142	64	64.837051	89.815478255	32.32174	61.83046088	1
## 12143	31	27.480841	93.161395831	32.32174	66.66857952	1
## 12144	2	10.502012	101.150115593	32.32174	73.97393294	1

## 12145	10	10.939560	121.696729596	32.32174	91.21495538	1
## 12146	31	26.102244	117.129238600	32.32174	88.58399235	1
## 12147	54	64.039713	122.435271144	316.20792	101.55299533	1
## 12148	141	139.978928	159.046617120	316.20792	129.95480746	1
## 12149	289	251.781643	156.489204110	316.20792	126.55083354	1
## 12150	437	344.280640	185.017893519	316.20792	152.18062623	1
## 12151	520	430.390845	208.900413777	316.20792	175.34447898	1
## 12152	529	501.993863	246.268698395	316.20792	209.38687240	1
## 12153	539	510.988018	259.101724642	316.20792	222.03497425	1
## 12154	564	516.058728	267.092127887	316.20792	229.33968025	1
## 12155	513	494.524663	275.584208887	316.20792	236.45145723	1
## 12156	504	466.881571	312.726121957	316.20792	272.23421106	1
## 12157	462	451.791899	325.163528663	316.20792	291.31973556	1
## 12158	415	425.509348	325.796186199	316.20792	294.24828046	1
## 12159	373	371.293762	296.998660737	316.20792	267.15264095	1
## 12160	255	287.034660	328.291228329	316.20792	297.97915179	1
## 12161	251	234.889442	314.459633243	316.20792	285.79913998	1
## 12162	204	189.158075	292.262914847	316.20792	257.43908028	1
## 12163	150	142.113747	299.749956854	316.20792	264.93736272	1
## 12164	137	122.026569	129.562090769	32.32174	103.89360069	1
## 12165	78	85.265135	122.834663988	32.32174	90.25559226	1
## 12166	61	66.026305	126.682259319	32.32174	94.90078189	1
## 12167	36	34.355772	133.164262333	32.32174	102.78556977	1
## 12168	11	10.553914	113.204648596	32.32174	84.10317839	1
## 12169	7	10.393338	120.691690603	32.32174	91.60146082	1
## 12170	22	25.530051	127.677054855	32.32174	99.29267227	1
## 12171	52	65.943686	124.114602852	316.20792	96.27520380	1
## 12172	151	159.505702	149.002162103	316.20792	119.05255111	1
## 12173	270	255.268826	162.841910825	316.20792	131.31350009	1
## 12174	424	378.150735	196.569065284	316.20792	162.50344812	1
## 12175	519	462.888123	232.932310909	316.20792	196.93234698	1
## 12176	570	503.403230	246.770376150	316.20792	209.19394338	1
## 12177	498	481.449574	276.780915059	316.20792	238.86017569	1
## 12178	547	486.509996	285.272996059	316.20792	245.97195267	1
## 12179	535	477.598311	312.372137594	316.20792	270.85180274	1
## 12180	501	481.630315	319.859179601	316.20792	278.35008518	1
## 12181	522	476.352847	334.226756892	316.20792	292.06135364	1
## 12182	518	452.716754	315.975364202	316.20792	275.67504146	1
## 12183	442	395.629589	321.703167101	316.20792	283.84987028	1
## 12184	392	340.645589	329.468882281	316.20792	292.89428929	1
## 12185	143	164.029845	283.532290580	316.20792	260.03659400	1
## 12186	59	93.340339	241.346785453	316.20792	230.88382607	1
## 12187	96	88.964600	251.094744323	316.20792	237.51263310	1
## 12188	65	79.331782	60.139852701	32.32174	34.80650265	1
## 12189	59	63.549487	78.252934882	32.32174	57.61535755	1
## 12190	48	52.229521	69.264591237	32.32174	44.84682453	1
## 12191	18	21.655864	103.694927750	32.32174	78.71935720	1
## 12192	6	10.226877	93.779769031	32.32174	70.93922217	1
## 12193	9	11.274857	101.266811038	32.32174	78.43750460	1
## 12194	20	28.677362	126.156053772	32.32174	101.21420449	1
## 12195	67	96.160157	121.588562775	316.20792	98.58324147	1
## 12196	155	158.404556	158.904145850	316.20792	135.59890789	1
## 12197	263	270.682662	195.769069230	316.20792	169.83487773	1
## 12198	364	336.264724	203.256111237	316.20792	177.33316017	1

## 12199	476	445.604026	207.803921575	316.20792	178.40245928	1
## 12200	525	471.089801	235.829249747	316.20792	204.22582840	1
## 12201	556	483.442912	255.318523131	316.20792	218.56685930	1
## 12202	465	476.837200	262.805565138	316.20792	226.06514173	1
## 12203	460	433.314948	291.862083115	316.20792	253.14525390	1
## 12204	501	451.662462	299.852486360	316.20792	260.44995990	1
## 12205	405	423.291323	306.836167129	316.20792	268.14181876	1
## 12206	383	413.135069	301.844167252	316.20792	264.37440767	1
## 12207	395	388.993290	318.170804467	316.20792	280.28529082	1
## 12208	317	314.046489	304.339209382	316.20792	268.10527900	1
## 12209	247	247.226621	296.886471825	316.20792	262.33118224	1
## 12210	157	161.333123	287.674495160	316.20792	257.23363186	1
## 12211	82	103.290521	280.472596480	316.20792	251.36307058	1
## 12212	45	45.576366	119.168181001	32.32174	73.46006909	1
## 12213	14	21.673049	126.655223008	32.32174	80.95835152	1
## 12214	8	11.948304	118.448285336	32.32174	75.47429569	1
## 12215	3	7.668195	137.288361774	32.32174	90.41859152	1
## 12216	5	9.220538	140.130918113	32.32174	95.45028660	1
## 12217	33	29.605409	147.617960120	32.32174	102.94856903	1
## 12218	154	145.334368	155.105002127	32.32174	110.44685146	1
## 12219	450	393.788330	162.592044134	316.20792	117.94513389	1
## 12220	634	525.563194	190.114011068	316.20792	143.96207945	1
## 12221	257	241.388611	213.295032754	316.20792	164.44270014	1
## 12222	183	188.773822	227.385620355	316.20792	176.60718462	1
## 12223	197	207.033567	258.401198256	316.20792	205.88691148	1
## 12224	237	227.250853	293.559584072	316.20792	237.82615471	1
## 12225	239	225.167603	314.530706956	316.20792	256.20362522	1
## 12226	238	231.151346	322.519426718	316.20792	263.50897864	1
## 12227	256	249.196584	336.134487376	316.20792	277.50964063	1
## 12228	393	382.078131	345.379085009	316.20792	284.33202408	1
## 12229	781	649.473557	358.239945552	316.20792	298.62272702	1
## 12230	710	629.279545	354.503823545	316.20792	294.37234596	1
## 12231	526	481.949559	347.250906804	316.20792	291.47441027	1
## 12232	204	246.685286	310.857092366	316.20792	269.71190035	1
## 12233	71	103.646637	228.174261456	316.20792	196.12688294	1
## 12234	55	109.034775	237.159746692	316.20792	205.62264952	1
## 12235	50	70.467458	228.199663949	316.20792	206.35990428	1
## 12236	36	34.831666	74.655776383	32.32174	48.69485585	1
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## 12239	5	7.613004	93.979133484	32.32174	68.14368132	1
## 12240	6	8.267366	103.145507198	32.32174	70.36417222	1
## 12241	41	33.807344	132.731537226	32.32174	98.89395646	1
## 12242	144	134.523534	133.867555999	32.32174	101.62892492	1
## 12243	483	356.124134	141.181983047	316.20792	113.82556441	1
## 12244	671	568.219036	160.896173017	316.20792	126.75473524	1
## 12245	305	255.816979	183.573833465	316.20792	147.42893236	1
## 12246	177	175.541768	192.569275703	316.20792	154.34713291	1
## 12247	208	211.637262	219.086203644	316.20792	180.75058392	1
## 12248	253	261.143906	260.994199282	316.20792	217.27419364	1
## 12249	289	251.878114	275.110937695	316.20792	231.08192661	1
## 12250	252	283.749464	310.597331262	316.20792	261.59532824	1
## 12251	275	262.029968	298.195284050	316.20792	250.16525905	1
## 12252	398	401.556748	306.185687295	316.20792	257.46996505	1

## 12253	839	710.037361	324.895893316	316.20792	276.71691097	1
## 12254	796	730.348514	333.638813194	316.20792	283.73222344	1
## 12255	556	518.819191	322.017116910	316.20792	273.65536181	1
## 12256	431	356.256476	261.417963856	316.20792	229.39992424	1
## 12257	304	275.198428	317.657774569	316.20792	272.81649561	1
## 12258	217	205.197270	292.776685473	316.20792	250.12073289	1
## 12259	160	146.132859	309.103322688	316.20792	266.03161604	1
## 12260	61	53.354395	122.714093595	32.32174	80.00934738	1
## 12261	26	26.287764	129.448618969	32.32174	87.79702334	1
## 12262	14	14.574627	145.775256184	32.32174	103.70790650	1
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## 12264	8	9.738333	144.551999282	32.32174	105.91570953	1
## 12265	33	30.881212	156.310036137	32.32174	111.77150566	1
## 12266	178	153.053238	148.606459702	32.32174	106.09387340	1
## 12267	507	449.452159	176.987629921	316.20792	132.13400201	1
## 12268	693	567.331281	205.289947783	316.20792	159.50415512	1
## 12269	311	269.073437	246.574668767	316.20792	197.94642533	1
## 12270	220	214.164686	285.702192493	316.20792	231.31227236	1
## 12271	218	216.857158	301.699138474	316.20792	248.64964452	1
## 12272	292	293.982445	307.677780251	316.20792	256.72800884	1
## 12273	293	279.019303	324.428926348	316.20792	273.77534006	1
## 12274	254	258.107836	347.609948034	316.20792	294.25596075	1
## 12275	290	277.798764	352.436431545	316.20792	296.87139644	1
## 12276	487	434.203555	359.672634674	316.20792	304.46614338	1
## 12277	827	754.003543	369.569396300	316.20792	316.94373707	1
## 12278	785	718.057515	373.918669386	316.20792	321.39599767	1
## 12279	591	555.007645	366.215092951	316.20792	315.71836542	1
## 12280	479	395.422397	339.904455981	316.20792	292.27266007	1
## 12281	359	320.953082	347.391497988	316.20792	299.77094250	1
## 12282	264	248.465761	335.769801705	316.20792	289.69408087	1
## 12283	140	158.609534	335.422287496	316.20792	288.39325713	1
## 12284	86	62.516722	172.730439749	32.32174	124.67978454	1
## 12285	34	28.239896	167.236762117	32.32174	121.10530246	1
## 12286	16	16.817995	165.884208916	32.32174	120.19098417	1
## 12287	4	6.320623	128.223276041	32.32174	95.22988766	1
## 12288	6	7.056006	135.710318048	32.32174	102.72817009	1
## 12289	45	36.489470	132.147866045	32.32174	99.71070162	1
## 12290	141	101.580616	116.609104957	32.32174	91.16588025	1
## 12291	402	402.575834	130.419964340	316.20792	95.85295851	1
## 12292	694	551.865081	137.907006347	316.20792	103.35124095	1
## 12293	298	278.377870	159.156802404	316.20792	123.27484803	1
## 12294	204	195.654947	184.547722892	316.20792	145.85861890	1
## 12295	235	226.189050	212.573051064	316.20792	171.68198803	1
## 12296	310	259.088857	221.315970941	316.20792	178.69730050	1
## 12297	316	264.658050	244.166246349	316.20792	194.67314056	1
## 12298	254	240.331830	256.883381273	316.20792	221.23607128	1
## 12299	258	244.051152	264.370423280	316.20792	228.73435371	1
## 12300	222	275.097985	298.150279282	316.20792	256.95102873	1
## 12301	227	344.937414	264.152205370	316.20792	230.55565129	1
## 12302	110	140.057559	210.222926134	316.20792	179.69571215	1
## 12303	45	111.316300	217.709968141	316.20792	187.19399458	1
## 12304	39	96.365905	210.178378228	316.20792	182.74992232	1
## 12305	85	150.710318	258.873146547	316.20792	228.85485062	1
## 12306	23	64.636372	230.552431591	316.20792	206.18215617	1

## 12307	73	66.840723	238.039473598	316.20792	213.68043860	1
## 12308	86	103.390124	63.192918885	32.32174	45.43296832	1
## 12309	76	86.380038	70.178283137	32.32174	53.12417977	1
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## 12311	26	28.002842	111.442442620	32.32174	82.90851500	1
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## 12314	36	33.673323	104.831566298	32.32174	87.78632959	1
## 12315	86	83.956766	129.390062753	316.20792	106.05824885	1
## 12316	210	175.920366	161.410679648	316.20792	134.95147026	1
## 12317	332	298.715255	185.093379089	316.20792	155.23916193	1
## 12318	493	441.562246	220.502603782	316.20792	187.08194066	1
## 12319	536	484.404432	237.358753048	316.20792	204.44249588	1
## 12320	668	606.312850	264.430060288	316.20792	227.67974486	1
## 12321	679	608.406434	274.577660791	316.20792	240.06087405	1
## 12322	647	641.188718	295.297944798	316.20792	258.53480907	1
## 12323	702	635.353657	302.030786690	316.20792	266.32313244	1
## 12324	644	595.267428	309.517828697	316.20792	273.82141487	1
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## 12326	512	519.781849	324.640715467	316.20792	294.66676640	1
## 12327	554	471.764274	334.892035574	316.20792	301.10199699	1
## 12328	399	376.401433	340.749708891	316.20792	304.97417572	1
## 12329	316	282.206887	328.322794431	316.20792	298.15998061	1
## 12330	228	220.697815	317.202775902	316.20792	287.89018995	1
## 12331	238	183.794215	305.079401864	316.20792	278.00625734	1
## 12332	169	138.750996	110.353938799	32.32174	83.37781153	1
## 12333	121	108.817779	126.177214777	32.32174	99.48227111	1
## 12334	89	73.124133	120.683537145	32.32174	95.90778903	1
## 12335	50	37.213841	119.330983943	32.32174	94.99347074	1
## 12336	13	13.945103	100.828752376	32.32174	78.70362307	1
## 12337	12	13.704587	115.646989361	32.32174	95.19458811	1
## 12338	22	30.046565	82.255996291	32.32174	62.65973565	1
## 12339	35	83.640228	132.380312483	316.20792	109.51460658	1
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## 12341	300	287.199024	226.725614282	316.20792	194.98225588	1
## 12342	404	405.783726	247.195059411	316.20792	213.55265541	1
## 12343	511	523.319375	265.452922255	316.20792	230.02055217	1
## 12344	684	640.984507	283.963307460	316.20792	246.39133701	1
## 12345	686	651.325666	303.678552474	316.20792	265.25177748	1
## 12346	678	646.421578	311.919794596	316.20792	272.46001897	1
## 12347	644	592.475657	324.147423484	316.20792	291.24694842	1
## 12348	662	604.000596	336.659660455	316.20792	296.81270361	1
## 12349	578	554.132018	343.392502347	316.20792	304.60102698	1
## 12350	496	514.067783	350.879544354	316.20792	312.09930941	1
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## 12352	314	335.184508	342.100404408	316.20792	307.05414285	1
## 12353	246	257.461587	328.547482496	316.20792	296.42026761	1
## 12354	226	219.879032	324.334549981	316.20792	287.74694149	1
## 12355	108	156.258585	308.718848540	316.20792	280.85935014	1
## 12356	49	50.883273	138.432366582	32.32174	100.18784836	1
## 12357	14	20.989627	124.006386182	32.32174	97.50036775	1
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## 12361      35  31.083766 125.171058151  32.32174  91.26327885  1
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## 12415	226	237.622548	256.095907867	316.20792	213.03286100	1
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## 12420	452	405.720192	304.552777617	316.20792	259.39742298	1
## 12421	724	686.336909	301.770676542	316.20792	257.73316207	1
## 12422	782	615.046593	278.955760628	316.20792	249.41277731	1
## 12423	538	469.002026	235.664038160	316.20792	193.70344072	1
## 12424	408	367.349960	237.050895811	316.20792	196.34194468	1
## 12425	298	270.370138	242.527859833	316.20792	204.61323801	1
## 12426	248	200.973581	234.070083283	316.20792	199.22564669	1
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## 12429	22	22.909370	78.098079005	32.32174	41.27874566	1
## 12430	12	12.775714	84.329243142	32.32174	49.25999805	1
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## 12433	34	32.746212	84.042184196	32.32174	51.32660848	1
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## 12436	681	587.146590	127.743094954	316.20792	94.82977452	1
## 12437	337	326.555065	172.667262614	316.20792	136.12513754	1
## 12438	210	213.566524	196.351645538	316.20792	156.41218180	1
## 12439	237	223.695329	261.215920478	316.20792	213.66327085	1
## 12440	336	301.484021	287.681830359	316.20792	243.03934744	1
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## 12446	813	701.130404	355.057628903	316.20792	303.01818074	1
## 12447	602	530.286517	362.544670910	316.20792	310.51646317	1
## 12448	478	413.616727	354.164063235	316.20792	303.79949476	1
## 12449	313	292.474034	339.406281512	316.20792	290.67596389	1
## 12450	228	209.459733	327.230205930	316.20792	283.76530427	1
## 12451	177	171.014422	309.255802931	316.20792	268.92577608	1
## 12452	77	58.646353	128.717602798	32.32174	87.85910299	1
## 12453	29	26.583189	136.204644805	32.32174	95.35738543	1
## 12454	19	18.221299	140.927408712	32.32174	103.91871969	1
## 12455	8	10.279310	135.233910262	32.32174	97.46807654	1
## 12456	10	10.665820	128.733510155	32.32174	94.28074732	1
## 12457	29	29.067989	112.241356573	32.32174	77.21788876	1
## 12458	139	132.045607	134.166500389	32.32174	98.18147940	1
## 12459	428	426.072417	133.064786065	316.20792	97.17069661	1
## 12460	700	571.741353	184.367811254	316.20792	144.87197467	1
## 12461	382	308.634974	220.278713702	316.20792	176.52182438	1
## 12462	249	214.197796	254.230556226	316.20792	205.97205940	1
## 12463	264	232.121093	284.465783200	316.20792	233.89857871	1
## 12464	369	302.494611	305.689428444	316.20792	252.17893729	1
## 12465	416	306.638211	322.188052181	316.20792	269.32338044	1
## 12466	373	291.287582	351.046432824	316.20792	293.52668412	1
## 12467	397	299.400079	361.194033327	316.20792	305.90781330	1
## 12468	523	433.687287	368.931914212	316.20792	313.30963123	1

## 12469	793	719.651968	374.659717111	316.20792	321.48446005	1
## 12470	723	679.235799	387.069917960	316.20792	332.99546641	1
## 12471	555	524.220814	382.077918083	316.20792	329.22805531	1
## 12472	408	392.603437	377.787416777	316.20792	328.14387628	1
## 12473	339	318.910606	368.375619295	316.20792	320.17016482	1
## 12474	291	257.891479	360.672042861	316.20792	314.49253256	1
## 12475	215	186.351345	322.107052071	316.20792	278.04142069	1
## 12476	206	153.522842	154.064918812	32.32174	123.26758317	1
## 12477	123	110.136223	161.301121942	32.32174	130.86233011	1
## 12478	89	81.134924	177.678777218	32.32174	143.80058768	1
## 12479	40	38.157103	160.077865039	32.32174	133.07013314	1
## 12480	8	19.940499	167.564907046	32.32174	140.56841558	1
## 12481	19	27.146793	173.171741485	32.32174	144.53705881	1
## 12482	80	48.070296	151.280902119	32.32174	125.29765383	1
## 12483	87	108.703430	164.617289604	316.20792	137.75217925	1
## 12484	244	201.817407	190.432718974	316.20792	161.47239819	1
## 12485	340	305.137199	213.613740660	316.20792	181.95301888	1
## 12486	466	404.288296	250.903172922	316.20792	217.32543680	1
## 12487	569	506.299736	309.537393089	316.20792	274.01939747	1
## 12488	531	520.117354	346.253513713	316.20792	302.40658065	1
## 12489	585	545.590167	371.142756446	316.20792	325.18328054	1
## 12490	593	538.204444	379.331297025	316.20792	335.36479503	1
## 12491	555	522.542209	401.056620024	316.20792	353.45222460	1
## 12492	534	513.076080	392.095482237	316.20792	348.25820972	1
## 12493	495	481.605832	402.165913867	316.20792	361.96871599	1
## 12494	451	467.304258	407.572927489	316.20792	363.06119815	1
## 12495	360	393.507255	397.156091014	316.20792	355.47399214	1
## 12496	363	364.731412	380.690088245	316.20792	340.05438207	1
## 12497	316	296.155118	370.774929526	316.20792	332.27424704	1
## 12498	214	200.892540	326.283424384	316.20792	292.19626927	1
## 12499	230	185.564990	321.291424507	316.20792	288.42885818	1
## 12500	158	134.502865	124.555883457	32.32174	94.57342327	1
## 12501	116	100.893857	117.855662533	32.32174	88.50993297	1
## 12502	73	75.831820	134.182299748	32.32174	104.42081613	1
## 12503	29	31.893160	132.328068792	32.32174	103.69942686	1
## 12504	10	12.593066	122.665432433	32.32174	95.82217991	1
## 12505	13	14.556794	150.041563659	32.32174	122.24881396	1
## 12506	30	31.651541	147.180610227	32.32174	121.91457755	1
## 12507	62	72.316936	139.528051853	316.20792	113.26431971	1
## 12508	181	154.478900	169.512439950	316.20792	141.28730352	1
## 12509	266	266.984739	226.187600192	316.20792	195.78164950	1
## 12510	413	412.479180	292.760096179	316.20792	255.32881775	1
## 12511	499	450.658060	288.946805298	316.20792	252.40781379	1
## 12512	502	489.052894	345.621965541	316.20792	306.90215976	1
## 12513	492	484.225799	365.639067493	316.20792	322.69351013	1
## 12514	500	486.624192	368.706311896	316.20792	325.98549220	1
## 12515	475	493.062042	377.701754133	316.20792	332.90369276	1
## 12516	508	501.478137	372.934442321	316.20792	327.39656866	1
## 12517	521	499.300182	363.522644839	316.20792	319.42285720	1
## 12518	490	484.127196	376.634344260	316.20792	333.61709562	1
## 12519	375	401.259841	407.225413280	316.20792	361.76037441	1
## 12520	363	339.825049	350.956364826	316.20792	313.09993517	1
## 12521	253	238.451814	315.806132647	316.20792	281.24162911	1
## 12522	159	177.042466	310.814132770	316.20792	277.47421801	1

## 12523	110	130.497373	338.614772877	316.20792	305.03730014	1
## 12524	41	46.297447	148.768892934	32.32174	104.01095772	1
## 12525	24	22.980367	125.673193759	32.32174	82.28189711	1
## 12526	17	14.671752	132.155196773	32.32174	90.16668499	1
## 12527	6	8.623915	124.953298094	32.32174	84.29612371	1
## 12528	7	9.063620	132.942017856	32.32174	91.60147713	1
## 12529	37	32.353067	140.429059863	32.32174	99.09975956	1
## 12530	144	131.474010	130.515584626	32.32174	91.31897712	1
## 12531	503	403.552275	154.901466122	316.20792	114.28925344	1
## 12532	651	552.051647	177.579126571	316.20792	134.96345056	1
## 12533	316	282.304721	216.653948753	316.20792	171.30257059	1
## 12534	147	185.529709	237.123393882	316.20792	189.87297012	1
## 12535	202	187.376685	286.573417360	316.20792	241.61912712	1
## 12536	261	231.019143	316.305283096	316.20792	269.73922286	1
## 12537	248	232.956827	329.971361815	316.20792	280.76725926	1
## 12538	259	232.183233	358.526202037	316.20792	308.04030045	1
## 12539	259	240.692695	347.629816529	316.20792	290.09952715	1
## 12540	427	405.073387	354.442565822	316.20792	302.48909566	1
## 12541	800	697.871498	360.924568836	316.20792	310.37388354	1
## 12542	831	686.706533	362.986774246	316.20792	314.05237106	1
## 12543	596	493.072673	348.228992524	316.20792	300.92884019	1
## 12544	394	368.814919	348.107449945	316.20792	304.14742602	1
## 12545	250	245.075238	327.142797216	316.20792	285.85154010	1
## 12546	164	177.586427	334.629839223	316.20792	293.34982253	1
## 12547	80	119.877585	336.770896989	316.20792	295.69828554	1
## 12548	28	44.167641	164.568930827	32.32174	123.23778961	1
## 12549	16	18.484210	149.732296748	32.32174	111.44428324	1
## 12550	6	11.395055	157.721016511	32.32174	118.74963666	1
## 12551	12	14.326693	151.524156824	32.32174	112.49256993	1
## 12552	4	7.020061	96.289036702	32.32174	71.01949597	1
## 12553	29	23.286863	103.272717471	32.32174	78.71135483	1
## 12554	136	133.306029	112.439091186	32.32174	80.93184574	1
## 12555	303	229.046582	126.106224949	316.20792	97.89115179	1
## 12556	613	514.218987	134.770920908	316.20792	100.30457171	1
## 12557	285	280.349399	146.902448584	316.20792	110.26944150	1
## 12558	125	116.573572	152.710158884	316.20792	123.04551546	1
## 12559	65	113.069660	180.561817052	316.20792	147.63597200	1
## 12560	95	126.644172	186.289619951	316.20792	155.81080082	1
## 12561	59	128.506769	192.771622965	316.20792	163.69558870	1
## 12562	60	104.850999	182.154965674	316.20792	153.23222161	1
## 12563	116	130.817590	194.486314167	316.20792	166.07325248	1
## 12564	239	317.528132	205.161088112	316.20792	167.71366151	1
## 12565	681	502.879273	212.648130119	316.20792	175.21194394	1
## 12566	653	504.683604	239.414841893	316.20792	195.58766079	1
## 12567	491	442.515064	246.901883900	316.20792	203.08594322	1
## 12568	386	385.773329	254.388925907	316.20792	210.58422566	1
## 12569	274	239.090491	260.369251167	316.20792	218.66194255	1
## 12570	207	185.073628	237.698060873	316.20792	198.06933002	1
## 12571	89	85.476979	243.836517451	316.20792	215.35018460	1
## 12572	34	33.432082	72.810521758	32.32174	37.80547358	1
## 12573	28	23.589696	108.219974972	32.32174	69.97610524	1
## 12574	4	9.481218	101.069094353	32.32174	61.13291837	1
## 12575	8	9.744754	109.561175353	32.32174	68.24469536	1
## 12576	10	9.103479	110.193832889	32.32174	71.17324025	1

## 12577	40	32.190400	118.685913889	32.32174	78.28501724	1
## 12578	194	155.544867	126.676317133	32.32174	85.58972324	1
## 12579	505	406.491554	135.419237011	316.20792	92.60503571	1
## 12580	713	571.022719	172.944597903	316.20792	129.91929717	1
## 12581	352	318.703964	196.125619589	316.20792	150.39991786	1
## 12582	198	194.684900	209.687978704	316.20792	167.37385285	1
## 12583	246	233.330653	247.836614249	316.20792	202.76945383	1
## 12584	334	286.290462	282.768628518	316.20792	236.44905748	1
## 12585	255	260.804558	293.393439446	316.20792	246.99336173	1
## 12586	320	287.719415	324.910695103	316.20792	276.08015958	1
## 12587	281	274.780923	346.382440698	316.20792	288.33343143	1
## 12588	392	393.395501	358.289280309	316.20792	300.03801422	1
## 12589	857	740.230511	361.356524712	316.20792	303.32999629	1
## 12590	744	715.907396	368.091050086	316.20792	311.11767225	1
## 12591	671	570.358411	364.303910018	316.20792	309.83991678	1
## 12592	448	435.457631	362.023486698	316.20792	307.98272685	1
## 12593	396	323.490607	339.127608339	316.20792	289.12982732	1
## 12594	238	216.395399	326.500873063	316.20792	279.43947113	1
## 12595	153	151.660812	333.737076193	316.20792	287.03421807	1
## 12596	48	47.555952	149.306907024	32.32174	103.21156410	1
## 12597	21	21.909516	148.908374754	32.32174	104.88336595	1
## 12598	9	12.561594	167.696804694	32.32174	128.73220442	1
## 12599	5	9.525241	175.687207938	32.32174	136.03691042	1
## 12600	6	10.215415	170.191846823	32.32174	132.46307575	1
## 12601	40	30.909074	177.678888830	32.32174	139.96135818	1
## 12602	181	147.656878	172.659683096	32.32174	128.61942895	1
## 12603	506	457.527642	185.996070581	316.20792	141.07395437	1
## 12604	719	579.350015	185.397717495	316.20792	139.86959514	1
## 12605	357	296.282932	203.604562278	316.20792	159.31011749	1
## 12606	179	200.301371	211.367310411	316.20792	162.09606133	1
## 12607	228	237.183834	239.618610212	316.20792	192.43884003	1
## 12608	265	246.164042	236.085047549	316.20792	196.99524228	1
## 12609	284	272.520308	258.935322957	316.20792	212.97108234	1
## 12610	298	270.748923	280.911484834	316.20792	230.96204740	1
## 12611	324	283.843809	313.607449487	316.20792	260.89525238	1
## 12612	438	399.002386	308.364610732	316.20792	257.22430580	1
## 12613	867	740.372874	321.476310153	316.20792	271.41854422	1
## 12614	823	729.144127	347.568729213	316.20792	296.68554715	1
## 12615	579	510.270848	331.102726444	316.20792	281.26593708	1
## 12616	435	397.346984	289.322797859	316.20792	243.09818047	1
## 12617	337	279.117772	289.453777640	316.20792	246.21965438	1
## 12618	242	204.398091	296.266526933	316.20792	258.60922289	1
## 12619	172	149.150474	288.059589261	316.20792	253.12516706	1
## 12620	94	65.282773	102.848014119	32.32174	62.01803590	1
## 12621	51	33.224166	93.937894393	32.32174	53.85139542	1
## 12622	15	12.020594	83.019380163	32.32174	46.45711843	1
## 12623	5	8.827598	91.511461163	32.32174	53.56889542	1
## 12624	14	10.225836	98.998503170	32.32174	61.06717785	1
## 12625	33	29.416335	88.581666696	32.32174	53.47997184	1
## 12626	151	135.580272	107.619880469	32.32174	71.30107616	1
## 12627	430	409.099771	121.459629191	316.20792	83.56202514	1
## 12628	653	569.355099	171.583945384	316.20792	130.41689607	1
## 12629	366	310.397502	193.759928077	316.20792	151.28402221	1
## 12630	216	217.880838	224.775505979	316.20792	180.56374908	1

## 12631	286	251.839726	254.082862834	316.20792	207.54739674	1
## 12632	403	321.019546	283.816412053	316.20792	235.66684506	1
## 12633	393	312.746709	299.439867214	316.20792	248.89514357	1
## 12634	376	323.920049	318.400912113	316.20792	268.04562498	1
## 12635	377	337.965710	325.887954120	316.20792	275.54390741	1
## 12636	558	451.910985	337.794793731	316.20792	287.24849020	1
## 12637	823	699.561058	352.639581447	316.20792	299.12293374	1
## 12638	693	682.331785	348.852441379	316.20792	297.84517827	1
## 12639	467	489.573820	342.855402508	316.20792	294.46427263	1
## 12640	385	372.210990	340.574979188	316.20792	292.60708269	1
## 12641	333	286.139935	327.446566157	316.20792	283.10965552	1
## 12642	321	260.652698	322.956244035	316.20792	279.14931541	1
## 12643	222	173.989555	326.604018549	316.20792	280.91834396	1
## 12644	137	136.729824	130.388863727	32.32174	101.89647465	1
## 12645	95	98.600050	129.765643393	32.32174	105.30798950	1
## 12646	67	75.091409	149.731727284	32.32174	124.07196546	1
## 12647	27	32.084928	137.408532429	32.32174	111.31187177	1
## 12648	8	13.748934	122.119555173	32.32174	96.73931624	1
## 12649	23	18.332984	129.104919425	32.32174	104.43052769	1
## 12650	47	38.361224	138.098678180	32.32174	111.34937566	1
## 12651	78	90.671644	145.585720187	316.20792	118.84765809	1
## 12652	204	189.956338	173.109370604	316.20792	144.86395623	1
## 12653	367	315.816266	194.029475427	316.20792	166.21405233	1
## 12654	435	406.122385	243.701448443	316.20792	210.28987410	1
## 12655	566	508.100552	274.215348590	316.20792	239.76252998	1
## 12656	603	557.981873	282.126899478	316.20792	248.39726049	1
## 12657	617	576.133939	317.786963049	316.20792	280.14357470	1
## 12658	573	579.819416	319.649347642	316.20792	280.94590115	1
## 12659	583	542.260711	337.907210487	316.20792	297.41379791	1
## 12660	542	502.757609	330.934021964	316.20792	301.99326843	1
## 12661	593	522.860465	340.932819712	316.20792	308.52561095	1
## 12662	571	515.167332	347.918183963	316.20792	316.21682240	1
## 12663	461	417.100605	338.003025244	316.20792	308.43668737	1
## 12664	352	310.034665	322.741882285	316.20792	295.50673293	1
## 12665	290	247.774629	318.253243645	316.20792	291.54574541	1
## 12666	280	238.342200	316.196453345	316.20792	282.01757283	1
## 12667	183	184.846915	317.834149874	316.20792	284.55961227	1
## 12668	148	133.737826	124.539518248	32.32174	96.94023167	1
## 12669	88	95.268597	123.690326285	32.32174	95.83233694	1
## 12670	74	74.927799	138.761085630	32.32174	112.22619006	1
## 12671	28	32.758778	122.970430620	32.32174	97.84656355	1
## 12672	18	18.133749	130.206633749	32.32174	105.44131049	1
## 12673	17	16.199280	129.606597181	32.32174	104.23759867	1
## 12674	23	32.351249	121.903020746	32.32174	98.55996641	1
## 12675	48	82.236089	129.139223875	316.20792	106.15471336	1
## 12676	119	152.104165	159.927146665	316.20792	130.91567806	1
## 12677	274	258.630004	165.907471924	316.20792	138.99339496	1
## 12678	436	384.318851	185.319176518	316.20792	160.92357293	1
## 12679	546	480.357928	221.733440203	316.20792	192.37984621	1
## 12680	615	509.681601	227.461243103	316.20792	200.55467503	1
## 12681	614	529.927658	252.401503897	316.20792	220.35874933	1
## 12682	582	519.315719	257.124267803	316.20792	228.92008360	1
## 12683	463	478.422240	280.859668788	316.20792	246.23450228	1
## 12684	580	515.137939	280.762993457	316.20792	244.83721403	1

## 12685	593	503.402923	274.515115709	316.20792	241.55277289	1
## 12686	513	473.836006	290.338391687	316.20792	257.65723247	1
## 12687	390	400.421734	297.323755939	316.20792	265.34844392	1
## 12688	302	300.133236	290.623535015	316.20792	259.28495363	1
## 12689	246	239.578241	298.110577022	316.20792	266.78323606	1
## 12690	153	181.011750	293.118577144	316.20792	263.01582497	1
## 12691	108	129.799378	285.916678465	316.20792	257.14526369	1
## 12692	40	47.514073	92.656039911	32.32174	51.52611546	1
## 12693	14	19.341152	84.952463476	32.32174	45.84848320	1
## 12694	9	11.346912	92.439505483	32.32174	53.34676563	1
## 12695	4	7.562460	79.138477492	32.32174	48.54769552	1
## 12696	9	9.932194	105.230896552	32.32174	73.81469845	1
## 12697	23	21.328836	90.924829569	32.32174	69.40213379	1
## 12698	37	70.368143	87.362377565	32.32174	66.38466532	1
## 12699	145	145.133550	83.098426990	316.20792	60.68396479	1
## 12700	474	490.138348	121.919671768	316.20792	91.18892710	1
## 12701	250	256.968668	129.910075013	316.20792	98.49363310	1
## 12702	91	115.293440	122.658213317	316.20792	101.52696705	1
## 12703	121	156.281998	132.829626024	316.20792	103.36095251	1
## 12704	168	176.074696	166.082308585	316.20792	142.31834769	1
## 12705	225	229.144825	192.147521788	316.20792	160.01083248	1
## 12706	219	223.888914	211.689096798	316.20792	177.63836037	1
## 12707	237	236.498124	222.815585481	316.20792	187.98973560	1
## 12708	332	342.465100	221.463032280	316.20792	187.07541731	1
## 12709	723	586.053818	228.950074287	316.20792	194.57369975	1
## 12710	642	578.252625	250.624379225	316.20792	215.63375490	1
## 12711	463	416.295214	248.015948154	316.20792	215.20240657	1
## 12712	362	324.226087	256.255506794	316.20792	222.41129548	1
## 12713	273	249.155833	263.240871045	316.20792	230.10250693	1
## 12714	164	168.818957	271.732952045	316.20792	237.21428391	1
## 12715	74	82.395079	261.143500612	316.20792	234.32543496	1
## 12716	35	38.570487	90.119188402	32.32174	56.78007652	1
## 12717	14	19.368658	97.606230409	32.32174	64.27835895	1
## 12718	15	13.640828	104.589911178	32.32174	71.97021782	1
## 12719	8	9.794121	111.575275430	32.32174	79.66142927	1
## 12720	10	10.310124	119.563995192	32.32174	86.96678268	1
## 12721	37	34.614090	128.056076192	32.32174	94.07855966	1
## 12722	161	139.038260	134.036401451	32.32174	102.15627656	1
## 12723	480	423.741977	142.025121213	316.20792	109.46162998	1
## 12724	673	599.716298	150.015524458	316.20792	116.76633598	1
## 12725	328	286.862640	180.674205269	316.20792	139.89803371	1
## 12726	180	208.663723	188.161247276	316.20792	147.39631615	1
## 12727	230	229.058232	211.089746602	316.20792	167.97404876	1
## 12728	292	264.256449	238.362558141	316.20792	194.08681141	1
## 12729	272	264.178270	273.770099352	316.20792	225.93023755	1
## 12730	227	242.633333	286.604809082	316.20792	238.57769199	1
## 12731	259	259.478334	298.736336758	316.20792	248.54256178	1
## 12732	334	372.953642	321.917358444	316.20792	269.02318247	1
## 12733	811	689.409258	328.901039214	316.20792	276.71504133	1
## 12734	795	678.569281	335.886403466	316.20792	284.40625278	1
## 12735	514	441.993571	335.538889257	316.20792	283.10542904	1
## 12736	458	407.744284	352.367204227	316.20792	298.82338318	1
## 12737	276	262.085108	331.179546916	316.20792	282.26656284	1
## 12738	291	221.118104	288.143740461	316.20792	244.58177619	1

## 12739	125	122.954697	296.383299101	316.20792	251.79066509	1
## 12740	53	44.742595	119.337026453	32.32174	73.98742073	1
## 12741	27	25.495479	120.974722982	32.32174	76.52946017	1
## 12742	6	9.500074	113.271146547	32.32174	70.85182792	1
## 12743	8	8.325233	120.254827317	32.32174	78.54368678	1
## 12744	7	8.358189	126.989352691	32.32174	86.33136274	1
## 12745	39	31.129225	134.476394698	32.32174	93.82964517	1
## 12746	165	137.594162	121.175366707	32.32174	89.03057506	1
## 12747	464	408.632351	133.003353962	316.20792	102.06518235	1
## 12748	643	555.211117	176.047314054	316.20792	139.83090617	1
## 12749	316	292.290337	198.673956442	316.20792	163.47772888	1
## 12750	167	159.298634	287.965748056	316.20792	235.87926328	1
## 12751	188	179.150621	308.936870940	316.20792	254.25673379	1
## 12752	180	179.291961	326.191378275	316.20792	271.11048859	1
## 12753	211	193.297146	339.303077695	316.20792	285.30472701	1
## 12754	190	182.143689	365.195675939	316.20792	307.69556886	1
## 12755	179	178.211582	384.105702776	316.20792	329.81867586	1
## 12756	335	312.007159	393.351983891	316.20792	336.64041190	1
## 12757	691	621.234598	394.659989186	316.20792	340.60894036	1
## 12758	672	611.245075	402.147031193	316.20792	348.10722279	1
## 12759	539	496.247354	408.055722571	316.20792	349.00677594	1
## 12760	407	403.167118	404.771943740	316.20792	347.53544404	1
## 12761	344	311.914904	393.099229396	316.20792	340.43120799	1
## 12762	257	251.267284	390.567967198	316.20792	338.67048256	1
## 12763	123	131.426964	357.627633822	316.20792	308.91532668	1
## 12764	69	66.786855	168.331260791	32.32174	113.80969788	1
## 12765	18	21.291099	150.832384733	32.32174	97.13399218	1
## 12766	18	15.900612	157.817748985	32.32174	104.82520363	1
## 12767	11	12.282952	174.595045895	32.32174	123.51578335	1
## 12768	12	11.013264	155.642154633	32.32174	104.44623911	1
## 12769	40	32.055264	163.380035518	32.32174	111.84805703	1
## 12770	150	140.435984	168.936906940	32.32174	124.72059550	1
## 12771	463	388.782135	176.423948947	316.20792	132.21887793	1
## 12772	590	505.266275	226.719196617	316.20792	174.37603921	1
## 12773	256	249.580236	288.168712945	316.20792	227.03432246	1
## 12774	150	178.142167	319.107121973	316.20792	257.64342641	1
## 12775	161	175.876527	350.624377630	316.20792	286.73022425	1
## 12776	215	219.710338	384.074542399	316.20792	316.37338829	1
## 12777	172	193.927651	388.295628550	316.20792	325.12765158	1
## 12778	176	205.641551	388.277805576	316.20792	322.40033882	1
## 12779	194	212.700605	416.303133747	316.20792	348.22370795	1
## 12780	320	327.679675	413.017671434	316.20792	346.75302347	1
## 12781	615	618.304583	407.974653496	316.20792	345.95823796	1
## 12782	640	631.759824	404.038710672	316.20792	338.83169583	1
## 12783	499	472.362877	422.298256999	316.20792	355.29894517	1
## 12784	436	383.597459	412.383098280	316.20792	347.51881015	1
## 12785	311	299.685585	390.492258914	316.20792	328.27940516	1
## 12786	243	216.975918	367.319390865	316.20792	307.87972164	1
## 12787	146	140.174253	382.390150210	316.20792	324.27357475	1
## 12788	93	68.669453	172.752113439	32.32174	123.94726788	1
## 12789	31	30.296722	171.874032136	32.32174	115.26550244	1
## 12790	12	12.769846	161.907855356	32.32174	110.45799300	1
## 12791	7	10.105519	169.394897363	32.32174	117.95627543	1
## 12792	10	15.786594	209.780637568	32.32174	163.02954472	1

## 12793	38	34.598787	212.926734327	32.32174	164.99150229	1
## 12794	122	118.772857	218.905376104	32.32174	173.06986660	1
## 12795	359	378.919895	248.515218335	316.20792	191.05250711	1
## 12796	613	531.457385	267.977940989	316.20792	210.01005950	1
## 12797	333	276.949061	270.343686820	316.20792	210.61880951	1
## 12798	185	180.310424	305.049729459	316.20792	239.77900359	1
## 12799	236	209.786032	315.900512017	316.20792	254.84271742	1
## 12800	254	225.148570	334.582883743	316.20792	272.44706225	1
## 12801	300	251.114398	377.376004957	316.20792	310.30925058	1
## 12802	263	241.200790	384.863046964	316.20792	317.80753301	1
## 12803	284	244.255950	409.299946521	316.20792	337.80518375	1
## 12804	380	362.998832	423.365666873	316.20792	354.58554231	1
## 12805	646	663.193386	389.301664653	316.20792	333.20109851	1
## 12806	505	551.461769	353.872759301	316.20792	299.79665587	1
## 12807	362	368.838460	355.189666553	316.20792	295.25634865	1
## 12808	202	277.300964	362.676708560	316.20792	302.75463109	1
## 12809	217	214.112995	318.967892956	316.20792	276.22025309	1
## 12810	197	185.108138	318.460563946	316.20792	265.71693908	1
## 12811	174	155.737073	305.108517894	316.20792	263.89049455	1
## 12812	116	116.947018	105.172725430	32.32174	71.15516472	1
## 12813	123	108.591824	131.819523789	32.32174	93.25596564	1
## 12814	93	79.990328	121.733433593	32.32174	90.17354026	1
## 12815	42	36.968937	127.462919974	32.32174	98.34772167	1
## 12816	19	16.784351	136.205839852	32.32174	105.36303414	1
## 12817	12	15.730899	144.194559614	32.32174	112.66838756	1
## 12818	47	35.953174	151.603377703	32.32174	115.56477744	1
## 12819	78	77.291028	160.346297580	316.20792	122.58008991	1
## 12820	167	162.004726	211.475652765	316.20792	169.04845539	1
## 12821	332	269.838776	245.627316106	316.20792	201.37485149	1
## 12822	494	396.883841	274.432995206	316.20792	228.55142817	1
## 12823	516	457.012968	303.742035543	316.20792	255.53442842	1
## 12824	602	507.865909	333.473901279	316.20792	283.65452416	1
## 12825	564	526.118323	366.699377983	316.20792	315.03740120	1
## 12826	609	546.674606	365.702666829	316.20792	314.33984239	1
## 12827	483	482.600326	398.625003029	316.20792	342.53268695	1
## 12828	513	484.302618	414.448279007	316.20792	358.63714654	1
## 12829	530	499.889040	415.331775421	316.20792	361.46922692	1
## 12830	481	470.246784	423.573017543	316.20792	368.67746841	1
## 12831	425	398.838415	421.241576162	316.20792	369.79290407	1
## 12832	386	362.424844	414.039677482	316.20792	363.92234279	1
## 12833	322	306.340791	410.252537414	316.20792	362.64458732	1
## 12834	279	259.531242	402.548960980	316.20792	356.96695507	1
## 12835	225	195.954832	386.958126786	316.20792	345.46348964	1
## 12836	163	133.063703	193.437523531	32.32174	153.32469946	1
## 12837	127	108.083748	188.274592177	32.32174	154.25499801	1
## 12838	114	96.292306	200.882930360	32.32174	168.64281286	1
## 12839	60	44.132826	173.090443890	32.32174	141.16066790	1
## 12840	13	18.495687	179.069085667	32.32174	149.23903221	1
## 12841	8	12.415323	169.958090079	32.32174	132.26496102	1
## 12842	25	28.847036	192.637434010	32.32174	152.93851073	1
## 12843	71	75.622826	190.279841816	316.20792	152.41069789	1
## 12844	141	151.211072	237.864567973	316.20792	198.58890765	1
## 12845	232	240.419550	266.670247073	316.20792	225.76548433	1
## 12846	452	417.334954	310.164866859	316.20792	266.31090472	1

## 12847	506	457.228287	319.912825729	316.20792	272.93971174	1
## 12848	556	534.139910	356.076250537	316.20792	304.49244953	1
## 12849	585	542.787844	364.568331537	316.20792	311.60422651	1
## 12850	551	502.501777	390.634599785	316.20792	335.22798095	1
## 12851	487	462.435823	407.134907004	316.20792	352.37177669	1
## 12852	461	475.939154	404.854483683	316.20792	350.51458675	1
## 12853	532	485.687628	407.921728086	316.20792	353.80656882	1
## 12854	534	490.449426	405.139627011	316.20792	352.14230791	1
## 12855	423	413.325461	398.691928447	316.20792	345.98170569	1
## 12856	332	326.530138	381.896234444	316.20792	331.98858464	1
## 12857	253	260.170540	363.143163999	316.20792	315.79520148	1
## 12858	178	200.017845	362.770782542	316.20792	319.11025182	1
## 12859	87	114.666163	363.628128143	316.20792	320.29908371	1
## 12860	68	59.655149	182.923700347	32.32174	124.61625191	1
## 12861	31	28.068399	177.430022715	32.32174	121.04176984	1
## 12862	14	14.109206	173.867570711	32.32174	118.02430137	1
## 12863	5	8.656627	178.216843797	32.32174	122.47656198	1
## 12864	4	9.402463	159.965451107	32.32174	106.09024980	1
## 12865	43	33.451867	174.785371575	32.32174	122.58056742	1
## 12866	158	138.835266	167.583472895	32.32174	116.71000614	1
## 12867	485	411.194997	190.764494582	316.20792	137.19062683	1
## 12868	608	539.356182	208.797669362	316.20792	155.39823660	1
## 12869	268	268.283344	236.822997533	316.20792	181.22160572	1
## 12870	184	203.938130	283.455386241	316.20792	224.81304793	1
## 12871	181	194.084925	331.924182930	316.20792	266.39856667	1
## 12872	270	246.383666	321.110043431	316.20792	265.24943072	1
## 12873	260	251.378608	305.318333377	316.20792	244.93853457	1
## 12874	251	234.857912	347.278402120	316.20792	284.42078835	1
## 12875	233	244.859668	369.333416353	316.20792	301.08172890	1
## 12876	414	377.813199	396.883217582	316.20792	328.74127554	1
## 12877	833	715.746903	421.095429074	316.20792	350.47863928	1
## 12878	791	717.041751	410.003244841	316.20792	341.85144971	1
## 12879	582	536.551826	411.891780247	316.20792	344.29702464	1
## 12880	475	440.247291	406.648941492	316.20792	340.62607806	1
## 12881	331	306.298368	400.427214558	316.20792	338.98488541	1
## 12882	187	209.748670	405.279848881	316.20792	343.24356959	1
## 12883	103	143.085451	397.072911209	316.20792	337.75951376	1
## 12884	37	47.218964	219.021599569	32.32174	160.34277485	1
## 12885	30	27.257869	217.244537486	32.32174	158.29200848	1
## 12886	9	13.696766	193.594459012	32.32174	139.72914989	1
## 12887	9	11.620238	190.812357937	32.32174	138.06488897	1
## 12888	10	12.240414	198.550238822	32.32174	145.46670690	1
## 12889	39	36.998087	195.066639175	32.32174	141.11921392	1
## 12890	188	149.800838	192.205685743	32.32174	140.78497751	1
## 12891	552	470.563186	200.697766743	316.20792	147.89675449	1
## 12892	656	556.988865	226.011518357	316.20792	171.80990246	1
## 12893	328	309.308041	247.484318997	316.20792	189.99444395	1
## 12894	190	206.497562	276.714506978	316.20792	218.30746870	1
## 12895	235	229.815615	302.105427466	316.20792	240.89123957	1
## 12896	308	281.525687	320.364973793	316.20792	257.35848892	1
## 12897	306	283.161588	348.641140843	316.20792	283.08539354	1
## 12898	267	278.889560	356.128182850	316.20792	290.58367597	1
## 12899	317	297.781447	373.884367939	316.20792	307.24450175	1
## 12900	416	392.394339	386.292885305	316.20792	318.75615552	1

## 12901	900	751.911377	388.104251838	316.20792	322.53110755	1
## 12902	824	712.914061	394.586254852	316.20792	330.41589543	1
## 12903	612	530.606525	399.812379996	316.20792	338.78365327	1
## 12904	505	440.698826	398.035317914	316.20792	336.73288691	1
## 12905	328	298.016265	389.325019004	316.20792	331.44240751	1
## 12906	245	220.442062	391.967754526	316.20792	333.59794151	1
## 12907	131	143.649591	370.276735976	316.20792	317.23469760	1
## 12908	54	50.613126	199.079808807	32.32174	144.38769622	1
## 12909	23	25.932220	195.796029976	32.32174	142.91636432	1
## 12910	14	15.217419	177.821626977	32.32174	128.07683613	1
## 12911	8	15.743168	197.035194236	32.32174	147.13020562	1
## 12912	11	14.384846	226.393569152	32.32174	171.14122770	1
## 12913	36	31.693182	227.754275990	32.32174	172.13648315	1
## 12914	200	157.632476	222.762276113	32.32174	168.36907206	1
## 12915	527	481.607650	243.984237874	316.20792	186.65007806	1
## 12916	687	572.007710	256.818947604	316.20792	199.29753250	1
## 12917	282	258.575906	280.926155927	316.20792	220.72167224	1
## 12918	172	186.997515	307.192244991	316.20792	247.22158776	1
## 12919	209	204.482438	343.104830922	316.20792	278.87079005	1
## 12920	322	273.114870	358.147755972	316.20792	293.62204208	1
## 12921	321	281.049463	382.256647777	316.20792	315.04553442	1
## 12922	270	257.750167	396.875063945	316.20792	328.66033837	1
## 12923	249	260.475068	401.701547456	316.20792	331.27577405	1
## 12924	392	389.450242	419.206893668	316.20792	348.03306434	1
## 12925	843	711.946838	425.688896682	316.20792	355.91785222	1
## 12926	804	703.733826	419.691857812	316.20792	352.53694658	1
## 12927	643	557.782028	416.909756737	316.20792	350.87268566	1
## 12928	445	415.560038	411.865055316	316.20792	350.07854756	1
## 12929	367	334.693887	403.658117644	316.20792	344.59449174	1
## 12930	297	263.030794	395.703702332	316.20792	339.01332399	1
## 12931	159	157.945337	374.565379598	316.20792	319.48452548	1
## 12932	54	55.940795	189.382693797	32.32174	135.95126504	1
## 12933	25	26.293689	186.270901488	32.32174	135.71349313	1
## 12934	13	15.167151	204.105938933	32.32174	151.04429441	1
## 12935	7	12.701141	211.592980940	32.32174	158.54257684	1
## 12936	11	12.665255	183.323284046	32.32174	132.89725681	1
## 12937	47	39.038699	199.399082384	32.32174	148.90460447	1
## 12938	193	148.616174	206.886124391	32.32174	156.40288690	1
## 12939	508	414.138845	205.784410067	316.20792	155.39210410	1
## 12940	617	541.931042	249.780707608	316.20792	195.74459547	1
## 12941	351	298.946745	260.630206601	316.20792	204.54918672	1
## 12942	184	189.505846	293.577010132	316.20792	234.38592719	1
## 12943	211	196.132506	356.180368209	316.20792	292.50649165	1
## 12944	276	258.750099	387.923995413	316.20792	319.85292908	1
## 12945	236	252.429164	400.255343906	316.20792	332.69395994	1
## 12946	254	245.352470	411.711523823	316.20792	341.61884617	1
## 12947	219	238.846688	419.198565830	316.20792	349.11712860	1
## 12948	387	381.022062	434.692150574	316.20792	366.64807720	1
## 12949	705	629.281409	444.389091383	316.20792	376.24950981	1
## 12950	697	633.879096	439.900452743	316.20792	372.28852228	1
## 12951	571	525.104307	431.744533132	316.20792	363.83184087	1
## 12952	470	419.666363	422.783395345	316.20792	358.63782598	1
## 12953	398	327.443876	366.314526073	316.20792	307.10122567	1
## 12954	274	246.233028	379.929586731	316.20792	321.10188766	1

## 12955	171	157.523271	389.903517231	316.20792	332.25010425	1
## 12956	114	83.396620	217.701551069	32.32174	159.78960832	1
## 12957	42	35.950477	219.062257907	32.32174	160.78486378	1
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## 12965	300	272.617551	275.968344234	316.20792	217.31476550	1
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## 12967	188	192.012567	360.947277300	316.20792	298.85076424	1
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## 12969	239	216.556723	396.630578956	316.20792	327.47470615	1
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## 12978	163	169.276960	370.311750684	316.20792	323.19861866	1
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## 12980	69	79.624931	91.318947304	32.32174	68.02879486	1
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## 12992	471	445.646669	386.605006612	316.20792	330.43394300	1
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## 13013	219	222.869079	285.036325905	316.20792	240.55829999	1
## 13014	366	326.567431	335.766039457	316.20792	281.27434332	1
## 13015	377	389.255112	358.896043083	316.20792	304.72758960	1
## 13016	433	384.601924	376.652228172	316.20792	321.38841538	1
## 13017	420	397.467119	399.329888621	316.20792	342.06261250	1
## 13018	444	406.423985	406.816930628	316.20792	349.56089493	1
## 13019	345	374.842308	400.118393186	316.20792	343.49675722	1
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## 13021	413	382.080194	445.501548379	316.20792	386.48775255	1
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## 13038	174	176.851806	323.348425022	316.20792	259.91125324	1
## 13039	201	219.796109	376.436840131	316.20792	308.57923341	1
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## 13049	258	300.765301	387.577320553	316.20792	329.04658456	1
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## 13065	283	287.283694	412.824378886	316.20792	345.81702961	1
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## 13067	401	342.647365	426.068113132	316.20792	369.06401159	1
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## 13109	293	274.900824	315.054881274	316.20792	249.41651476	1
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## 13115	254	236.361217	419.737935055	316.20792	347.49507873	1
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## 13121	323	299.756841	407.559943855	316.20792	344.27875069	1
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## 13167	287	308.091195	442.242062678	316.20792	387.82531799	1
## 13168	276	298.944587	435.543525236	316.20792	381.76118028	1
## 13169	201	254.615135	437.682899520	316.20792	384.11029071	1
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## 13189 270 325.317225 326.604274599 316.20792 284.32262294 1
## 13190 253 316.625555 329.220859308 316.20792 284.83490844 1
## 13191 250 308.834735 337.712940308 316.20792 291.94668542 1
## 13192 285 291.639127 320.415568550 316.20792 278.14649338 1
## 13193 207 223.835237 328.655127189 316.20792 285.35538229 1
## 13194 122 150.389102 326.181643671 316.20792 298.74239831 1
## 13195 123 128.413727 287.391964816 316.20792 264.03099944 1
## 13196 39 37.132504 107.284660861 32.32174 64.78625866 1
## 13197 18 17.900721 119.192555517 32.32174 82.42211109 1
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## 13202 92 79.217117 141.591484858 32.32174 104.07885438 1
## 13203 230 246.265717 167.685587400 316.20792 129.34520990 1
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## 13206 175 198.562218 191.322683891 316.20792 146.75584210 1
## 13207 216 211.823901 261.760598184 316.20792 213.67551272 1
## 13208 266 244.109380 283.936580877 316.20792 234.54263886 1
## 13209 255 242.202528 305.912742754 316.20792 252.53360393 1
## 13210 242 237.898563 307.550439283 316.20792 255.07564337 1
## 13211 280 265.146927 342.484137034 316.20792 288.75459961 1
## 13212 413 400.996312 369.554389230 316.20792 306.06057896 1
## 13213 849 762.671353 375.031353251 316.20792 314.33187229 1
## 13214 872 751.905226 358.486498126 316.20792 300.24228672 1
## 13215 631 553.968372 345.158264278 316.20792 287.86869847 1
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## 13217 331 293.451265 357.197138714 316.20792 308.62602482 1
## 13218 224 215.637159 352.455977714 316.20792 304.76214921 1
## 13219 131 144.033537 338.624382629 316.20792 292.58213740 1
## 13220 69 62.274699 156.801415286 32.32174 104.42456355 1
## 13221 15 19.543428 156.201378717 32.32174 103.22085173 1
## 13222 16 15.975052 163.688420725 32.32174 110.71913416 1
## 13223 3 6.296756 152.015706380 32.32174 103.61489811 1
## 13224 4 8.034449 161.763665250 32.32174 110.24370514 1

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## 13229	331	293.326357	245.475596147	316.20792	189.94479860	1
## 13230	190	186.116763	268.656617833	316.20792	210.42541929	1
## 13231	249	216.729450	323.200731630	316.20792	261.48659058	1
## 13232	272	258.742395	340.732228655	316.20792	279.88712936	1
## 13233	280	250.883581	361.703351539	316.20792	298.26459987	1
## 13234	242	238.260957	368.688715791	316.20792	305.95581132	1
## 13235	265	257.538563	364.701754906	316.20792	301.80189478	1
## 13236	435	407.212379	367.768999309	316.20792	305.09387685	1
## 13237	872	744.659821	355.643941788	316.20792	295.21059164	1
## 13238	819	574.861986	281.630829653	316.20792	240.66715424	1
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## 13242	139	151.244156	274.312803505	316.20792	232.16549374	1
## 13243	103	121.157529	268.038774944	316.20792	227.23780411	1
## 13244	44	41.226321	115.447224828	32.32174	72.15952323	1
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## 13252	674	592.070873	190.535862809	316.20792	145.32104996	1
## 13253	328	329.062474	214.418383067	316.20792	168.48490271	1
## 13254	195	206.762772	254.273556177	316.20792	206.17723029	1
## 13255	229	225.311965	282.298884349	316.20792	232.00059942	1
## 13256	292	290.460608	326.522837002	316.20792	276.87185295	1
## 13257	273	278.506855	344.833401390	316.20792	290.36647671	1
## 13258	241	243.617002	357.214712899	316.20792	294.30361235	1
## 13259	276	248.387026	365.203432661	316.20792	301.60896576	1
## 13260	411	407.230698	378.315132082	316.20792	315.80320418	1
## 13261	830	752.869526	401.774826941	316.20792	337.82996145	1
## 13262	814	700.712921	388.444909610	316.20792	325.45702061	1
## 13263	633	547.792988	361.632594885	316.20792	302.20424429	1
## 13264	483	438.895863	361.484901493	316.20792	303.77958163	1
## 13265	391	321.878046	348.658345400	316.20792	291.21306436	1
## 13266	244	239.735724	356.647065162	316.20792	298.51841777	1
## 13267	152	160.905758	356.605429984	316.20792	306.33824874	1
## 13268	56	57.697385	167.653427089	32.32174	124.25454559	1
## 13269	21	25.044872	169.291123618	32.32174	126.79658504	1
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## 13273	44	34.190484	164.460385880	32.32174	115.68508871	1
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## 13281	277	252.246960	367.406861308	316.20792	303.63053136	1
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## 13284	439	417.705939	382.734929686	316.20792	320.00950454	1
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## 13302	268	262.166583	288.800568021	316.20792	241.44705121	1
## 13303	288	261.109870	311.027568776	316.20792	259.34155176	1
## 13304	379	331.162858	329.062427038	316.20792	277.54851412	1
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## 13306	369	333.612954	358.395760505	316.20792	307.34041170	1
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## 13313	299	278.268841	353.728623515	316.20792	301.07522237	1
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## 13316	191	152.057628	205.914479391	32.32174	169.81545427	1
## 13317	118	104.433067	201.173318391	32.32174	165.95157866	1
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## 13328	499	470.532129	261.830150516	316.20792	226.89438319	1
## 13329	591	504.727418	284.006133210	316.20792	247.76150933	1
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## 13332	566	429.555811	261.722122365	316.20792	222.85136677	1

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## 13382 794 622.911113 368.573469165 316.20792 310.42098317 1
## 13383 595 500.556471 344.523749058 316.20792 286.10580242 1
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## 13391	3	9.821524	192.443081763	32.32174	140.86833643	1
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## 13395	526	429.957566	217.721668354	316.20792	172.68289995	1
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## 13397	320	275.379045	306.270326218	316.20792	250.22103326	1
## 13398	159	178.367557	319.103352466	316.20792	262.86913511	1
## 13399	206	219.387381	333.593581700	316.20792	280.78594174	1
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## 13401	221	231.352088	406.419370544	316.20792	337.76786607	1
## 13402	214	198.141468	425.180594626	316.20792	354.04218640	1
## 13403	244	238.761943	420.891776803	316.20792	352.95735995	1
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## 13406	772	617.218295	433.585437497	316.20792	366.09673488	1
## 13407	547	493.770625	431.808375415	316.20792	364.04596852	1
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## 13421	297	249.472363	288.711049218	316.20792	231.67074775	1
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## 13427	194	225.009994	411.959474036	316.20792	353.84436142	1
## 13428	224	300.747839	299.894968182	316.20792	241.65976473	1
## 13429	370	478.669890	298.542414980	316.20792	240.74544644	1
## 13430	643	626.478670	325.868583190	316.20792	276.07597572	1
## 13431	516	502.499894	332.853947441	316.20792	283.76718717	1
## 13432	366	356.720717	335.920136800	316.20792	281.12789960	1
## 13433	319	281.235878	347.748124055	316.20792	294.16250689	1
## 13434	288	241.926270	365.583161501	316.20792	309.49330817	1
## 13435	131	139.773552	373.070203508	316.20792	316.99159060	1
## 13436	66	59.653684	177.339701451	32.32174	122.74965024	1
## 13437	25	25.012656	184.826743458	32.32174	130.24793267	1
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## 13439	5	9.506036	185.362725663	32.32174	131.77918932	1
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## 13443	473	405.560664	250.694141772	316.20792	190.80684785	1
## 13444	657	501.400108	263.527168020	316.20792	203.45494970	1
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## 13446	198	199.578751	277.496213041	316.20792	218.83802001	1
## 13447	216	200.598572	301.804925663	316.20792	243.13767342	1
## 13448	274	243.489297	337.265168417	316.20792	272.00782656	1
## 13449	254	237.867461	346.658568806	316.20792	284.67899668	1
## 13450	197	205.344289	365.872136064	316.20792	303.73236617	1
## 13451	292	255.191408	360.880136187	316.20792	299.96495508	1
## 13452	358	358.366695	368.367178194	316.20792	307.46323751	1
## 13453	771	689.182053	393.454558261	316.20792	333.11674589	1
## 13454	777	657.391259	404.207556124	316.20792	339.35904746	1
## 13455	533	462.489572	400.220595239	316.20792	335.20513092	1
## 13456	505	432.274136	389.302081010	316.20792	327.81085393	1
## 13457	332	204.164795	259.746460442	316.20792	221.50933384	1
## 13458	68	111.835332	267.233502449	316.20792	229.00761627	1
## 13459	65	92.319707	274.218866701	316.20792	236.69882772	1
## 13460	34	34.554382	99.755983676	32.32174	65.10780720	1
## 13461	11	17.180565	111.354205730	32.32174	61.76111305	1
## 13462	19	16.759914	116.409399397	32.32174	74.82658054	1
## 13463	36	18.730901	124.147280282	32.32174	82.22839846	1
## 13464	9	12.888588	132.639361281	32.32174	89.34017544	1
## 13465	42	38.511230	139.623042051	32.32174	97.03203430	1
## 13466	126	131.807794	147.613445295	32.32174	104.33674031	1
## 13467	360	361.145618	155.602165058	316.20792	111.64209372	1
## 13468	691	570.270616	181.696267600	316.20792	136.90844924	1
## 13469	373	334.571277	203.368889056	316.20792	157.96915181	1
## 13470	233	224.066163	211.359292301	316.20792	165.27385781	1
## 13471	212	236.669287	234.567519844	316.20792	193.32899664	1
## 13472	274	216.295113	209.965103921	316.20792	172.17937049	1
## 13473	156	170.093400	216.447106936	316.20792	180.06415837	1
## 13474	229	197.049548	228.578634611	316.20792	190.02902816	1
## 13475	216	204.665038	240.005925189	316.20792	191.38004366	1
## 13476	436	352.806980	244.356881757	316.20792	195.83165686	1
## 13477	715	541.577658	234.241902221	316.20792	185.17536075	1
## 13478	622	546.675807	264.531114303	316.20792	216.38772964	1
## 13479	402	357.073360	254.365116707	316.20792	208.70405912	1
## 13480	251	184.835110	261.932066114	316.20792	220.80358669	1
## 13481	122	150.045661	262.564723650	316.20792	223.73213158	1
## 13482	135	149.432260	269.468497019	316.20792	226.82274531	1
## 13483	166	141.475997	278.463939257	316.20792	233.74094586	1
## 13484	103	90.599629	100.907918075	32.32174	75.44579369	1
## 13485	72	83.498181	109.570930552	32.32174	77.85986103	1
## 13486	60	64.729737	98.983162601	32.32174	74.97036467	1
## 13487	25	29.105838	105.966843370	32.32174	82.66222353	1
## 13488	16	17.336182	108.107901137	32.32174	85.01068655	1
## 13489	17	17.034947	115.091581906	32.32174	92.70254541	1
## 13490	15	24.573694	122.578623913	32.32174	100.20082784	1
## 13491	37	62.643792	131.744997627	316.20792	102.42131875	1
## 13492	112	134.404941	150.281533645	316.20792	120.43535208	1
## 13493	207	214.144044	156.763536659	316.20792	128.32013996	1
## 13494	268	280.970711	152.526791941	316.20792	130.19395757	1

## 13495	305	296.565232	178.592005144	316.20792	147.88644236	1
## 13496	457	344.992725	183.898037689	316.20792	160.85544534	1
## 13497	354	313.759504	190.380040703	316.20792	168.74023322	1
## 13498	343	304.719804	190.003637155	316.20792	159.86553876	1
## 13499	380	337.545364	195.811347455	316.20792	172.64161271	1
## 13500	326	284.577427	202.293350469	316.20792	180.52640059	1
## 13501	241	258.663790	209.278714721	316.20792	188.21761204	1
## 13502	177	229.176340	218.946766191	316.20792	190.24517393	1
## 13503	238	236.731870	225.932130442	316.20792	197.93638538	1
## 13504	214	211.953708	231.739840742	316.20792	210.71245934	1
## 13505	163	171.495120	240.906214457	316.20792	212.93295025	1
## 13506	180	159.068394	247.388217471	316.20792	220.81773813	1
## 13507	149	135.901763	253.116020370	316.20792	228.99256695	1
## 13508	113	117.828921	82.673293316	32.32174	55.85552463	1
## 13509	130	107.730215	91.165374316	32.32174	62.96730161	1
## 13510	122	96.328648	97.647377330	32.32174	70.85208949	1
## 13511	43	38.875359	105.134419337	32.32174	78.35037192	1
## 13512	16	13.134852	112.541553943	32.32174	81.24740922	1
## 13513	6	11.339814	120.028595950	32.32174	88.74569165	1
## 13514	19	25.331657	144.243545969	32.32174	116.41367761	1
## 13515	38	63.000695	150.222187746	316.20792	124.49204192	1
## 13516	153	152.739928	174.608069242	316.20792	147.46231824	1
## 13517	258	267.521224	207.833545946	316.20792	178.84519529	1
## 13518	379	382.187250	204.271093942	316.20792	175.82772682	1
## 13519	505	415.556451	211.758135949	316.20792	183.32600925	1
## 13520	504	455.075269	241.542703229	316.20792	208.47283199	1
## 13521	626	520.575699	259.828400369	316.20792	226.58332983	1
## 13522	616	544.180048	272.885059637	316.20792	231.56044903	1
## 13523	624	546.309254	280.372101644	316.20792	239.05873146	1
## 13524	628	503.507613	293.708489129	316.20792	251.51325688	1
## 13525	556	465.861400	303.205609121	316.20792	258.23852842	1
## 13526	515	449.358859	309.687612136	316.20792	266.12331630	1
## 13527	522	409.039946	302.485713456	316.20792	260.25275502	1
## 13528	378	312.710506	295.283814777	316.20792	254.38219374	1
## 13529	345	258.199424	290.716323781	316.20792	251.75123072	1
## 13530	191	186.288999	310.759576546	316.20792	269.18582959	1
## 13531	123	121.061100	300.846101309	316.20792	261.40504715	1
## 13532	47	42.124569	103.114647090	32.32174	54.55222415	1
## 13533	27	19.983553	112.359244723	32.32174	61.37460760	1
## 13534	17	13.111091	105.359905387	32.32174	64.31082963	1
## 13535	2	9.267701	112.846947394	32.32174	71.80911207	1
## 13536	8	11.162942	121.086506033	32.32174	79.01800097	1
## 13537	51	36.540601	128.573548040	32.32174	86.51628340	1
## 13538	157	138.751808	152.206912903	32.32174	109.77595325	1
## 13539	421	406.790106	179.024642739	316.20792	127.17904452	1
## 13540	738	622.187877	202.908846479	316.20792	150.34224985	1
## 13541	345	293.611346	226.117074023	316.20792	178.39738868	1
## 13542	200	202.226021	269.560675748	316.20792	221.91543466	1
## 13543	198	217.437025	307.760329355	316.20792	254.33841004	1
## 13544	314	263.999591	315.247371362	316.20792	261.83669247	1
## 13545	240	257.021914	321.729374376	316.20792	269.72148035	1
## 13546	271	241.627336	308.902818283	316.20792	257.15496309	1
## 13547	281	251.743489	333.259810439	316.20792	272.55136868	1
## 13548	457	416.048319	352.220855338	316.20792	291.70185009	1

## 13549	847	692.059326	359.707897345	316.20792	299.20013252	1
## 13550	741	603.594501	379.952654410	316.20792	319.51024506	1
## 13551	582	494.761312	370.842713866	316.20792	308.46744350	1
## 13552	403	398.867561	343.025360148	316.20792	285.60117263	1
## 13553	296	285.246168	351.014079911	316.20792	292.90652604	1
## 13554	209	210.089277	352.651776439	316.20792	295.44856549	1
## 13555	114	120.970689	344.948200005	316.20792	289.77093323	1
## 13556	64	51.805270	148.714336710	32.32174	95.72256930	1
## 13557	17	21.921311	139.805900466	32.32174	87.55528141	1
## 13558	16	13.901003	132.604001787	32.32174	81.68472014	1
## 13559	6	8.444870	140.091043794	32.32174	89.18300257	1
## 13560	6	7.283080	146.322207931	32.32174	97.16425496	1
## 13561	50	38.821789	154.060088815	32.32174	104.56607288	1
## 13562	190	147.945282	162.048808578	32.32174	111.87142629	1
## 13563	516	440.686113	201.626991997	316.20792	148.01696989	1
## 13564	743	549.600813	230.153997924	316.20792	173.64741000	1
## 13565	339	274.911653	301.190091102	316.20792	242.93644128	1
## 13566	218	175.743487	301.223286188	316.20792	237.23650294	1
## 13567	201	202.752086	320.013399610	316.20792	261.08469400	1
## 13568	229	205.868152	313.262160625	316.20792	257.99382929	1
## 13569	273	232.878894	334.484122386	316.20792	276.27483529	1
## 13570	244	215.461321	340.715286523	316.20792	284.25608768	1
## 13571	285	256.405372	354.127787838	316.20792	289.44996637	1
## 13572	455	411.627012	342.506091554	316.20792	279.37310473	1
## 13573	869	733.262681	357.126191205	316.20792	292.98726127	1
## 13574	877	719.136603	330.815554235	316.20792	269.54155593	1
## 13575	632	547.370534	335.538318141	316.20792	278.10289019	1
## 13576	523	438.682308	328.336419462	316.20792	272.23232892	1
## 13577	378	294.953488	336.828500462	316.20792	279.34410590	1
## 13578	269	211.774154	344.817220224	316.20792	286.64945932	1
## 13579	192	186.930646	371.241014000	316.20792	310.48932582	1
## 13580	66	57.326345	192.686341122	32.32174	133.26616334	1
## 13581	28	25.407498	192.564798543	32.32174	136.48474917	1
## 13582	12	14.519182	188.076159904	32.32174	132.52376164	1
## 13583	12	10.407361	180.874261224	32.32174	126.65320037	1
## 13584	4	9.140368	182.511957753	32.32174	129.19523981	1
## 13585	59	40.287551	188.993960767	32.32174	137.08002769	1
## 13586	190	147.489351	196.982680529	32.32174	144.38538111	1
## 13587	507	433.838019	245.730150391	316.20792	187.51703641	1
## 13588	788	558.883419	281.337512419	316.20792	222.23662363	1
## 13589	342	266.677411	306.477594029	316.20792	244.91685901	1
## 13590	231	212.166124	314.788786551	316.20792	259.30391167	1
## 13591	281	232.435156	336.964769245	316.20792	280.17103781	1
## 13592	310	278.322537	344.451811252	316.20792	287.66932024	1
## 13593	312	264.355412	364.972274442	316.20792	303.26709418	1
## 13594	247	253.099058	382.225098294	316.20792	320.12149639	1
## 13595	317	282.470788	378.690480585	316.20792	318.74662900	1
## 13596	484	417.781811	397.702543545	316.20792	334.92448483	1
## 13597	913	765.088327	398.005509848	316.20792	339.27951873	1
## 13598	891	735.596595	416.593063926	316.20792	354.32092648	1
## 13599	698	582.779690	399.122022164	316.20792	339.28782186	1
## 13600	567	453.493148	385.793788316	316.20792	326.91423361	1
## 13601	397	319.914669	375.878629597	316.20792	319.13409858	1
## 13602	278	235.647323	348.787641699	316.20792	294.33518568	1

## 13603	239	195.828346	355.399515130	316.20792	297.91732347	1
## 13604	92	64.035528	157.909773965	32.32174	104.35192950	1
## 13605	29	25.470282	165.900177210	32.32174	111.65663550	1
## 13606	21	15.228900	165.049301764	32.32174	110.54938820	1
## 13607	8	9.012185	172.034666016	32.32174	118.24059965	1
## 13608	4	7.206720	167.968852775	32.32174	115.41670761	1
## 13609	42	33.477734	175.455894782	32.32174	122.91499004	1
## 13610	181	151.370266	175.108380573	32.32174	121.61416630	1
## 13611	495	411.985488	203.133708745	316.20792	147.43753542	1
## 13612	729	565.912382	208.941419045	316.20792	160.21360938	1
## 13613	344	307.482451	229.107323753	316.20792	181.85374642	1
## 13614	222	206.292033	245.631443176	316.20792	188.45039843	1
## 13615	212	199.586696	279.506116826	316.20792	219.23001054	1
## 13616	279	202.827361	321.292515565	316.20792	257.47935173	1
## 13617	242	192.685362	342.012799572	316.20792	275.95328675	1
## 13618	213	195.839428	373.703725233	316.20792	306.27299718	1
## 13619	238	200.449678	398.843806843	316.20792	328.95323256	1
## 13620	374	326.658288	422.528189767	316.20792	349.24027682	1
## 13621	738	605.897485	403.348926958	316.20792	331.91109300	1
## 13622	688	561.325884	426.729769461	316.20792	355.26787477	1
## 13623	614	490.448801	416.816294225	316.20792	347.48709233	1
## 13624	446	393.408378	400.297589912	316.20792	335.04075526	1
## 13625	271	264.994229	398.476728243	316.20792	327.45442622	1
## 13626	234	226.124661	405.963770250	316.20792	334.95270865	1
## 13627	145	136.318762	335.605243559	316.20792	281.55190894	1
## 13628	97	67.579200	161.142360534	32.32174	109.96088841	1
## 13629	54	33.053343	170.388641649	32.32174	116.78262446	1
## 13630	26	15.891139	152.638926714	32.32174	100.20338326	1
## 13631	12	11.658301	171.678823969	32.32174	118.02384016	1
## 13632	8	8.789873	165.352093865	32.32174	116.06942353	1
## 13633	37	29.782843	161.789641862	32.32174	113.05195506	1
## 13634	139	125.365741	180.326177879	32.32174	131.06598839	1
## 13635	410	396.106281	216.817610439	316.20792	161.19288458	1
## 13636	676	583.302422	243.085382985	316.20792	187.69215268	1
## 13637	363	288.824157	308.954696918	316.20792	244.55673628	1
## 13638	231	212.464360	321.936525921	316.20792	263.05362480	1
## 13639	251	229.379697	334.952124130	316.20792	268.42580355	1
## 13640	299	251.641713	338.521046288	316.20792	271.52485661	1
## 13641	314	251.828076	349.172008029	316.20792	283.71240936	1
## 13642	326	236.652749	362.759234391	316.20792	296.07047027	1
## 13643	323	237.197908	382.249791341	316.20792	316.67062374	1
## 13644	499	399.106041	370.628095057	316.20792	306.59376210	1
## 13645	699	613.350847	398.228914347	316.20792	331.28068315	1
## 13646	622	631.014537	380.957693402	316.20792	319.12373961	1
## 13647	516	497.336675	375.687020352	316.20792	313.81019194	1
## 13648	354	350.557596	354.499363040	316.20792	297.25337160	1
## 13649	260	259.437172	361.986405047	316.20792	304.75165403	1
## 13650	199	209.489667	369.975124809	316.20792	312.05700745	1
## 13651	189	157.657452	353.882612861	316.20792	300.74647104	1
## 13652	191	152.884345	183.257089980	32.32174	139.76040968	1
## 13653	80	85.592505	166.463079459	32.32174	125.76664121	1
## 13654	90	81.677080	172.441721236	32.32174	133.84500552	1
## 13655	43	38.852123	179.928763243	32.32174	141.34328795	1
## 13656	11	10.743642	164.943326409	32.32174	123.70099492	1

## 13657	14	14.992732	166.079345183	32.32174	126.43596338	1
## 13658	50	36.918337	198.299782894	32.32174	158.20534587	1
## 13659	76	91.688283	212.137848134	316.20792	170.46694227	1
## 13660	163	161.797173	234.817192065	316.20792	191.14049198	1
## 13661	337	268.358631	268.467177651	316.20792	223.65981709	1
## 13662	395	344.833733	305.132280214	316.20792	255.01962586	1
## 13663	457	400.395185	347.197352126	316.20792	294.81510363	1
## 13664	487	434.737712	350.264596529	316.20792	298.10708570	1
## 13665	498	438.855867	364.606023007	316.20792	310.17510567	1
## 13666	494	442.925545	376.009501381	316.20792	322.07326489	1
## 13667	497	430.435618	405.318541718	316.20792	349.05626514	1
## 13668	487	439.375737	390.481907640	316.20792	337.26275877	1
## 13669	479	448.979130	370.297605838	316.20792	320.32008040	1
## 13670	481	409.109730	385.922744482	316.20792	333.54773149	1
## 13671	338	309.235353	259.294059972	316.20792	224.06236854	1
## 13672	233	234.144137	264.701073594	316.20792	225.15485070	1
## 13673	300	259.592774	280.976692749	316.20792	244.03835944	1
## 13674	276	216.367012	288.463734756	316.20792	251.53664187	1
## 13675	208	169.221169	284.901282753	316.20792	248.51917340	1
## 13676	188	154.542850	100.192440411	32.32174	63.15038286	1
## 13677	158	115.611902	120.437197475	32.32174	83.46049539	1
## 13678	112	89.724232	148.315006456	32.32174	109.69420043	1
## 13679	55	45.991675	168.359942704	32.32174	127.12815189	1
## 13680	13	13.503746	169.494277995	32.32174	129.86376776	1
## 13681	17	15.263185	151.242885305	32.32174	113.47745558	1
## 13682	18	24.306860	175.127089046	32.32174	136.64066092	1
## 13683	40	74.266938	198.809788487	316.20792	156.92835259	1
## 13684	127	144.031440	226.333438904	316.20792	182.94465074	1
## 13685	226	237.208733	246.801200550	316.20792	201.51569768	1
## 13686	381	354.016300	255.866593187	316.20792	215.61270940	1
## 13687	509	423.505064	288.441589380	316.20792	241.33972880	1
## 13688	511	446.136872	297.687870495	316.20792	248.16146484	1
## 13689	483	445.302337	328.373757163	316.20792	278.86768071	1
## 13690	522	457.768805	341.987134339	316.20792	292.86899012	1
## 13691	501	462.872848	355.098833759	316.20792	307.06322854	1
## 13692	521	466.658944	362.585875767	316.20792	314.56151097	1
## 13693	531	469.091511	380.845422093	316.20792	331.02876032	1
## 13694	419	412.117704	384.744035485	316.20792	332.70132436	1
## 13695	443	372.939781	347.332886444	316.20792	301.71249370	1
## 13696	303	318.781133	323.656657157	316.20792	281.50638661	1
## 13697	271	236.730338	316.956436233	316.20792	275.44289631	1
## 13698	148	157.867105	318.092455007	316.20792	278.17786478	1
## 13699	100	113.210529	323.820257906	316.20792	286.35269360	1
## 13700	58	54.741804	147.961820078	32.32174	96.01196283	1
## 13701	19	20.291989	153.940461854	32.32174	104.09032714	1
## 13702	8	11.694614	155.578158383	32.32174	106.63236658	1
## 13703	3	6.090372	137.326765693	32.32174	90.24605440	1
## 13704	5	6.949609	144.813807701	32.32174	97.74433684	1
## 13705	47	38.821789	154.060088815	32.32174	104.56607288	1
## 13706	161	150.797175	162.552169815	32.32174	111.67784986	1
## 13707	469	422.450064	189.321620117	316.20792	137.98418895	1
## 13708	751	569.563650	212.279008783	316.20792	166.13579228	1
## 13709	293	290.374402	232.695752368	316.20792	187.67946481	1
## 13710	189	187.288330	252.791706677	316.20792	202.14079068	1

## 13711	215	225.072327	294.777926233	316.20792	243.26629295	1
## 13712	278	257.331302	289.284248600	316.20792	239.69181087	1
## 13713	226	233.973948	331.043441483	316.20792	270.36663392	1
## 13714	254	241.043885	339.535522482	316.20792	277.47841090	1
## 13715	236	245.939440	347.524242244	316.20792	284.78376432	1
## 13716	425	397.805816	355.514645489	316.20792	292.08847032	1
## 13717	827	743.331294	338.797803842	316.20792	276.76532476	1
## 13718	812	668.877162	341.161866191	316.20792	277.37472218	1
## 13719	665	535.182062	375.185342597	316.20792	314.00312096	1
## 13720	462	396.402058	314.652517768	316.20792	258.47697976	1
## 13721	322	285.508505	321.636198538	316.20792	266.16883863	1
## 13722	230	201.838846	313.258329388	316.20792	265.38249244	1
## 13723	150	130.297949	321.921341865	316.20792	267.79655978	1
## 13724	38	39.304016	131.815497222	32.32174	80.25057541	1
## 13725	21	20.716135	124.613598542	32.32174	74.38001413	1
## 13726	8	12.454813	132.100640549	32.32174	81.87829657	1
## 13727	6	7.039417	138.835165924	32.32174	89.66597252	1
## 13728	6	7.283080	146.322207931	32.32174	97.16425496	1
## 13729	45	38.823411	155.065127808	32.32174	104.17956743	1
## 13730	194	156.479341	143.443431524	32.32174	94.10270579	1
## 13731	513	401.938449	176.893596293	316.20792	123.74586983	1
## 13732	760	613.517973	197.561178756	316.20792	145.19307785	1
## 13733	333	297.560690	230.284977705	316.20792	176.76888391	1
## 13734	227	217.176154	244.852375813	316.20792	193.35631345	1
## 13735	224	219.039894	281.717299193	316.20792	227.59228330	1
## 13736	248	241.864494	327.421817781	316.20792	270.24085387	1
## 13737	288	245.332162	319.794126655	316.20792	256.97472194	1
## 13738	260	240.309925	327.281168663	316.20792	264.47300437	1
## 13739	144	204.835478	305.086788876	316.20792	248.30333690	1
## 13740	402	372.390126	322.921826321	316.20792	263.63413817	1
## 13741	820	745.206997	349.517606619	316.20792	288.70756467	1
## 13742	857	723.164015	345.530645734	316.20792	284.55364813	1
## 13743	614	527.515586	329.596265104	316.20792	282.44624941	1
## 13744	452	402.879242	304.941147638	316.20792	264.26989626	1
## 13745	352	277.245374	290.048418363	316.20792	237.32800103	1
## 13746	257	212.408647	309.589993373	316.20792	254.95552891	1
## 13747	147	141.951186	288.152552228	316.20792	244.42644273	1
## 13748	47	47.953353	132.487703911	32.32174	80.58435062	1
## 13749	33	23.415123	124.029927361	32.32174	75.19675930	1
## 13750	13	12.503835	125.918462768	32.32174	77.64233424	1
## 13751	7	7.863939	133.405504775	32.32174	85.14061667	1
## 13752	4	8.786545	150.764386840	32.32174	108.23951251	1
## 13753	49	36.685539	158.251428847	32.32174	115.73779494	1
## 13754	185	145.004897	167.417802562	32.32174	117.95828585	1
## 13755	487	410.391274	162.176018851	316.20792	120.21860890	1
## 13756	681	579.925941	187.566939339	316.20792	142.80237977	1
## 13757	350	336.076689	207.985366408	316.20792	164.34540489	1
## 13758	236	210.456923	246.529621495	316.20792	193.30358321	1
## 13759	234	233.005081	283.394544875	316.20792	227.53955306	1
## 13760	284	272.508355	322.720205935	316.20792	263.78220858	1
## 13761	280	252.277069	324.582590528	316.20792	264.58453502	1
## 13762	263	256.369443	351.178370826	316.20792	289.65796152	1
## 13763	295	275.888926	358.665412833	316.20792	297.15624395	1
## 13764	479	433.618897	342.424098128	316.20792	279.99692088	1

## 13765	837	712.448691	361.160454963	316.20792	300.88711529	1
## 13766	891	729.446253	325.866497164	316.20792	281.30103700	1
## 13767	652	562.843656	322.524939655	316.20792	264.68196366	1
## 13768	513	461.944593	328.505264914	316.20792	272.75968056	1
## 13769	320	294.394660	320.800004997	316.20792	267.08269571	1
## 13770	288	231.835043	327.785369249	316.20792	274.77390716	1
## 13771	152	151.561950	318.824231461	316.20792	269.57989227	1
## 13772	63	54.032263	146.622265299	32.32174	97.11939634	1
## 13773	42	26.347630	138.969706926	32.32174	88.46913850	1
## 13774	11	12.550100	131.516969369	32.32174	82.69504173	1
## 13775	6	7.175367	137.495611145	32.32174	90.77340604	1
## 13776	9	8.397605	144.982653152	32.32174	98.27168847	1
## 13777	41	34.107562	141.471219210	32.32174	92.28159442	1
## 13778	183	133.992142	159.956737166	32.32174	113.26825334	1
## 13779	473	416.906647	187.982065338	316.20792	139.09162246	1
## 13780	739	637.804616	214.127185942	316.20792	161.38535239	1
## 13781	343	317.310737	250.992109322	316.20792	195.62132224	1
## 13782	181	207.115969	292.727490000	316.20792	236.84328902	1
## 13783	226	213.365373	314.452813000	316.20792	254.93071859	1
## 13784	286	264.317459	345.970068657	316.20792	284.01751643	1
## 13785	310	262.326930	360.814856372	316.20792	295.89195997	1
## 13786	225	239.757203	373.423194555	316.20792	310.27977482	1
## 13787	270	268.174600	316.633536007	316.20792	251.66082785	1
## 13788	406	397.742148	366.654132595	316.20792	304.46159736	1
## 13789	865	733.454058	361.886820782	316.20792	298.95447327	1
## 13790	767	671.799319	347.553547942	316.20792	286.96739047	1
## 13791	607	560.069191	345.195955748	316.20792	286.43957762	1
## 13792	427	386.861172	337.439677770	316.20792	283.73521837	1
## 13793	342	314.121022	342.846691392	316.20792	284.82770053	1
## 13794	262	231.373064	335.141431475	316.20792	279.15071568	1
## 13795	177	160.777998	337.784166996	316.20792	281.30624968	1
## 13796	71	55.611732	164.577161841	32.32174	109.23225920	1
## 13797	43	27.765042	157.375263162	32.32174	103.36169792	1
## 13798	14	13.515599	148.466826918	32.32174	95.19441003	1
## 13799	6	8.478475	155.953868925	32.32174	102.69269246	1
## 13800	12	10.806727	149.253648001	32.32174	96.62920217	1
## 13801	37	34.401668	155.233973260	32.32174	104.70691907	1
## 13802	163	143.411967	163.726054260	32.32174	111.81869605	1
## 13803	421	421.730485	200.790798456	316.20792	148.93082698	1
## 13804	668	607.988968	223.468458905	316.20792	169.60502410	1
## 13805	396	327.437531	243.463432136	316.20792	195.94287078	1
## 13806	249	224.589370	300.943810555	316.20792	247.17455023	1
## 13807	263	245.180717	328.267640155	316.20792	270.31468730	1
## 13808	338	291.505291	339.644967716	316.20792	280.56959803	1
## 13809	345	301.823788	353.510867251	316.20792	294.47379551	1
## 13810	331	295.707068	367.124244427	316.20792	308.47510491	1
## 13811	380	286.069237	386.559761224	316.20792	319.85813916	1
## 13812	492	450.696789	388.226347092	316.20792	329.97404933	1
## 13813	741	682.616634	364.350296989	316.20792	306.89178117	1
## 13814	671	660.627476	352.225239468	316.20792	297.00849596	1
## 13815	469	500.627331	344.521663033	316.20792	291.33086370	1
## 13816	389	398.199831	339.529663156	316.20792	287.56345261	1
## 13817	278	293.639115	340.663998447	316.20792	290.29906848	1
## 13818	202	212.888188	341.995815946	316.20792	283.72045322	1

## 13819	196	160.518785	321.734345270	316.20792	268.10715194	1
## 13820	161	135.566860	146.361017034	32.32174	104.34063182	1
## 13821	122	95.243800	137.450897307	32.32174	96.17399134	1
## 13822	84	81.821814	143.932900322	32.32174	104.05877922	1
## 13823	30	34.139070	151.419942329	32.32174	111.55706165	1
## 13824	13	16.837197	170.961517339	32.32174	129.18458954	1
## 13825	17	14.416612	162.053081095	32.32174	121.01730165	1
## 13826	49	31.285686	169.540123102	32.32174	128.51558408	1
## 13827	67	85.471363	197.340763209	316.20792	156.07866621	1
## 13828	181	183.961384	222.228322460	316.20792	178.85601352	1
## 13829	278	261.067259	257.386708275	316.20792	210.79525675	1
## 13830	396	361.343548	293.748270418	316.20792	245.22480303	1
## 13831	470	417.887340	336.038030395	316.20792	283.28056779	1
## 13832	547	503.726191	360.753603124	316.20792	304.82435510	1
## 13833	527	465.984825	368.665154013	316.20792	313.45908560	1
## 13834	472	486.080556	382.080393854	316.20792	324.58358651	1
## 13835	489	476.300030	385.649316012	316.20792	327.68263957	1
## 13836	450	429.101178	403.605321918	316.20792	347.21962642	1
## 13837	492	473.220665	409.662816051	316.20792	353.96796623	1
## 13838	490	462.815365	402.964278609	316.20792	347.90382852	1
## 13839	397	383.847250	374.945420592	316.20792	322.16204398	1
## 13840	312	313.074996	381.427423607	316.20792	330.04683186	1
## 13841	289	252.079218	366.841628406	316.20792	318.15686098	1
## 13842	269	225.556446	347.664049079	316.20792	300.82702975	1
## 13843	222	187.835119	355.401929964	316.20792	308.22884767	1
## 13844	153	144.177438	168.260184238	32.32174	122.49597254	1
## 13845	87	90.505455	175.243865007	32.32174	130.18783141	1
## 13846	73	81.445409	183.485107130	32.32174	137.39607290	1
## 13847	41	37.011317	175.529008335	32.32174	131.81555256	1
## 13848	14	19.080327	183.016050342	32.32174	139.31383499	1
## 13849	19	19.643654	190.503092349	32.32174	146.81211743	1
## 13850	19	30.807185	186.940640346	32.32174	143.79464895	1
## 13851	68	107.481013	212.080721956	316.20792	166.47488434	1
## 13852	108	160.309528	243.599661096	316.20792	195.56103477	1
## 13853	229	250.544530	278.756363429	316.20792	227.50092541	1
## 13854	364	342.679364	287.248444429	316.20792	234.61270240	1
## 13855	437	393.130198	307.214528320	316.20792	253.37667836	1
## 13856	491	468.845819	348.048589610	316.20792	289.03925200	1
## 13857	523	491.771550	367.009634509	316.20792	308.18973340	1
## 13858	526	466.975910	384.765819598	316.20792	324.85055918	1
## 13859	450	457.319256	404.307394609	316.20792	342.47808707	1
## 13860	421	425.281086	363.984448276	316.20792	312.96264416	1
## 13861	382	431.085620	371.471490283	316.20792	320.46092659	1
## 13862	229	277.952670	276.616551563	316.20792	250.66214000	1
## 13863	185	224.027608	266.871669194	316.20792	225.99325570	1
## 13864	193	200.940987	272.348633215	316.20792	234.26454903	1
## 13865	208	205.523595	296.734514711	316.20792	257.23482535	1
## 13866	157	173.713996	303.970717840	316.20792	264.82957229	1
## 13867	87	110.956972	311.034306010	316.20792	277.12267629	1
## 13868	33	41.546620	139.742785060	32.32174	96.83767995	1
## 13869	11	19.485680	150.417559004	32.32174	98.47808898	1
## 13870	5	9.891466	156.977785937	32.32174	110.96476941	1
## 13871	5	10.026525	162.032979604	32.32174	124.03023689	1
## 13872	11	12.500791	183.001363961	32.32174	136.47708518	1

## 13873	25	28.020900	176.273937180	32.32174	122.83907675	1
## 13874	141	144.037366	182.585008717	32.32174	135.42157427	1
## 13875	407	381.027667	213.627792476	316.20792	172.27581927	1
## 13876	605	567.756358	193.789775638	316.20792	151.86769642	1
## 13877	276	246.595753	202.361764038	316.20792	163.58071854	1
## 13878	213	210.506582	245.800288628	316.20792	188.97775007	1
## 13879	260	248.940804	266.467871091	316.20792	210.42495809	1
## 13880	285	271.054325	301.681297059	316.20792	251.58132054	1
## 13881	289	261.926534	332.217325927	316.20792	270.50748011	1
## 13882	287	265.993977	348.414092725	316.20792	290.72101336	1
## 13883	274	269.456773	358.162051595	316.20792	297.34982038	1
## 13884	451	414.277772	382.046255336	316.20792	320.51302572	1
## 13885	858	745.246767	381.924712757	316.20792	323.73161155	1
## 13886	843	733.035041	391.672671627	316.20792	330.36041858	1
## 13887	640	559.277786	348.687883233	316.20792	289.70300634	1
## 13888	457	449.552967	334.354610392	316.20792	277.71592354	1
## 13889	317	297.891568	327.654389468	316.20792	271.65243325	1
## 13890	207	213.908383	333.383875849	316.20792	279.82661466	1
## 13891	113	138.291204	327.939532795	316.20792	273.28015441	1
## 13892	47	47.847440	127.789233134	32.32174	74.83191368	1
## 13893	18	18.676966	134.271236149	32.32174	82.71670156	1
## 13894	13	13.104871	141.758278156	32.32174	90.21498400	1
## 13895	6	8.375795	146.984403300	32.32174	98.58274183	1
## 13896	9	8.523169	153.092915494	32.32174	102.35845605	1
## 13897	36	28.915781	174.767220432	32.32174	123.41851121	1
## 13898	179	151.160375	182.081647480	32.32174	135.61515070	1
## 13899	502	462.884861	199.613144504	316.20792	154.01568948	1
## 13900	705	588.487540	216.443142957	316.20792	169.73299621	1
## 13901	327	327.618868	214.587228518	316.20792	169.01225435	1
## 13902	250	231.325214	242.612556690	316.20792	194.83562347	1
## 13903	214	223.786779	264.036022751	316.20792	215.99214314	1
## 13904	283	266.992299	308.283159170	316.20792	256.24817000	1
## 13905	253	259.379308	323.404936576	316.20792	269.66939753	1
## 13906	261	278.917807	346.734761018	316.20792	295.99880488	1
## 13907	306	269.366208	336.792396442	316.20792	280.64415172	1
## 13908	445	423.056563	303.057856935	316.20792	257.50536597	1
## 13909	868	709.894256	324.399732113	316.20792	274.06128791	1
## 13910	814	730.704980	326.540789879	316.20792	276.40975093	1
## 13911	610	535.923478	324.183197685	316.20792	275.88193808	1
## 13912	448	403.194937	317.482976761	316.20792	269.81844779	1
## 13913	317	275.376006	308.020161218	316.20792	264.81736192	1
## 13914	224	218.047621	318.945774040	316.20792	266.36130644	1
## 13915	138	147.603355	313.624082929	316.20792	264.02038436	1
## 13916	58	48.221178	124.523277279	32.32174	76.08789454	1
## 13917	23	21.727816	148.909158774	32.32174	99.05817086	1
## 13918	6	9.880058	139.497361293	32.32174	91.08445940	1
## 13919	7	8.375795	146.984403300	32.32174	98.58274183	1
## 13920	7	8.232542	154.471445307	32.32174	106.08102427	1
## 13921	43	36.101417	146.144594218	32.32174	102.32205250	1
## 13922	173	153.426043	170.530475714	32.32174	125.29232882	1
## 13923	482	435.969608	178.017517721	316.20792	132.79061125	1
## 13924	737	619.707579	222.466158439	316.20792	175.92215178	1
## 13925	341	323.007627	247.553538507	316.20792	201.57566016	1
## 13926	214	220.441772	299.938771562	316.20792	247.56105568	1

## 13927	239	244.259498	305.164896706	316.20792	255.92881352	1
## 13928	280	283.252810	312.651938713	316.20792	263.42709595	1
## 13929	313	282.833387	320.138980720	316.20792	270.92537838	1
## 13930	236	241.187039	331.897017576	316.20792	276.78117451	1
## 13931	278	279.856825	367.756901963	316.20792	311.40364980	1
## 13932	441	441.437821	354.004159234	316.20792	297.89361348	1
## 13933	858	734.271694	348.231808428	316.20792	292.77299483	1
## 13934	862	730.786491	347.859426972	316.20792	296.08804518	1
## 13935	686	584.733187	327.872607378	316.20792	269.83113566	1
## 13936	500	443.023818	329.006942669	316.20792	272.56675154	1
## 13937	381	312.526089	334.987267928	316.20792	280.64446844	1
## 13938	233	218.047621	318.945774040	316.20792	266.36130644	1
## 13939	136	150.624442	335.774089011	316.20792	282.07926058	1
## 13940	67	52.806017	155.737566633	32.32174	100.81965847	1
## 13941	28	23.366045	145.320730159	32.32174	93.23245247	1
## 13942	14	11.673947	141.005761523	32.32174	90.50437752	1
## 13943	6	8.157545	144.853356854	32.32174	95.14956715	1
## 13944	10	11.977463	138.154190974	32.32174	95.01734650	1
## 13945	41	32.946898	126.481476629	32.32174	87.91311045	1
## 13946	167	151.289741	162.721015267	32.32174	112.20520150	1
## 13947	475	435.969608	178.017517721	316.20792	132.79061125	1
## 13948	698	637.804616	214.127185942	316.20792	161.38535239	1
## 13949	353	307.740906	251.997148314	316.20792	195.23481679	1
## 13950	205	191.979208	296.496807093	316.20792	235.39373173	1
## 13951	260	232.462038	336.222109787	316.20792	277.38870941	1
## 13952	277	268.498784	345.468390901	316.20792	284.21044545	1
## 13953	281	262.101969	365.434474793	316.20792	302.97442141	1
## 13954	247	245.883301	400.670029482	316.20792	333.58428755	1
## 13955	267	264.941742	408.157071489	316.20792	341.08256999	1
## 13956	417	371.542309	394.827154159	316.20792	328.70962915	1
## 13957	810	657.997795	408.943892572	316.20792	342.51736212	1
## 13958	811	701.466574	380.953923895	316.20792	324.34944830	1
## 13959	623	539.307648	363.376823919	316.20792	303.07185005	1
## 13960	478	404.034586	345.335437568	316.20792	287.31198585	1
## 13961	336	294.224795	340.293474674	316.20792	292.44846999	1
## 13962	259	213.701120	312.777977894	316.20792	266.51310901	1
## 13963	156	154.234731	307.125540505	316.20792	259.66740630	1
## 13964	85	62.208870	168.019754748	32.32174	115.46766609	1
## 13965	41	35.838443	175.757635633	32.32174	122.86948401	1
## 13966	20	16.810353	164.360627414	32.32174	111.05290937	1
## 13967	9	11.681321	165.469866937	32.32174	118.07654639	1
## 13968	7	11.261034	155.887137978	32.32174	114.80054458	1
## 13969	33	27.120381	163.374179985	32.32174	122.29882701	1
## 13970	44	69.264943	142.514530425	32.32174	104.31616508	1
## 13971	133	172.999478	146.735616576	316.20792	113.07042836	1
## 13972	119	179.971531	144.958554494	316.20792	111.01966200	1
## 13973	220	260.186066	161.629793190	316.20792	123.46574809	1
## 13974	193	201.572664	178.404751490	316.20792	129.96593559	1
## 13975	251	201.424679	210.983141337	316.20792	173.81461685	1
## 13976	315	258.676472	270.195553006	316.20792	216.79523177	1
## 13977	290	258.901423	301.211130908	316.20792	246.07495864	1
## 13978	307	256.796806	310.377504622	316.20792	248.29544954	1
## 13979	324	265.961901	344.331030628	316.20792	277.74503715	1
## 13980	467	425.725348	336.825591528	316.20792	274.94421338	1

## 13981	730	731.376131	356.540836542	316.20792	293.80465385	1
## 13982	640	668.251326	330.481038449	316.20792	270.26248400	1
## 13983	492	533.624692	337.717241579	316.20792	277.85723094	1
## 13984	370	387.574936	330.766181777	316.20792	271.89020515	1
## 13985	286	289.016674	337.499023669	316.20792	279.67852852	1
## 13986	218	205.792727	321.960891018	316.20792	265.20179009	1
## 13987	192	157.868126	338.287528234	316.20792	281.11267325	1
## 13988	180	144.937543	156.561493281	32.32174	112.58348657	1
## 13989	116	99.058982	142.505210131	32.32174	102.14318776	1
## 13990	85	72.961150	131.441286800	32.32174	107.02178596	1
## 13991	21	28.975552	121.527811563	32.32174	99.24100353	1
## 13992	10	12.410819	131.368477992	32.32174	96.57020835	1
## 13993	11	11.886184	127.806025988	32.32174	93.55273988	1
## 13994	23	21.347631	133.613736288	32.32174	106.32881384	1
## 13995	62	70.043943	159.428110613	316.20792	124.11776314	1
## 13996	162	152.867761	173.015336976	316.20792	136.47582405	1
## 13997	271	243.853814	196.698036418	316.20792	156.76351573	1
## 13998	407	355.685567	251.694493391	316.20792	210.60373617	1
## 13999	499	410.938197	257.447163538	316.20792	214.16269091	1
## 14000	546	451.239814	289.467780433	316.20792	243.05591232	1
## 14001	569	492.873077	330.803519478	316.20792	278.52555695	1
## 14002	538	478.806390	337.285522492	316.20792	286.41034483	1
## 14003	562	491.346842	351.151422028	316.20792	300.31454231	1
## 14004	531	457.274298	358.889302913	316.20792	307.71636023	1
## 14005	512	461.403303	302.276708022	316.20792	268.45198770	1
## 14006	300	313.335885	281.060161370	316.20792	244.32129664	1
## 14007	275	264.819249	240.434074534	316.20792	211.61582125	1
## 14008	160	140.770426	251.517818675	316.20792	222.36290345	1
## 14009	128	149.094959	256.413197541	316.20792	226.22588066	1
## 14010	168	145.010223	263.900239548	316.20792	233.72416309	1
## 14011	163	143.370905	294.016836671	316.20792	269.63488903	1
## 14012	120	109.971153	128.190989510	32.32174	97.64968593	1
## 14013	113	97.303130	120.458523736	32.32174	84.39818294	1
## 14014	86	83.281772	153.684000440	32.32174	115.78105999	1
## 14015	48	40.967956	145.729585128	32.32174	110.19989224	1
## 14016	10	13.151640	167.905567821	32.32174	131.06701838	1
## 14017	10	17.247299	194.829355870	32.32174	154.71460328	1
## 14018	16	25.548940	192.975124914	32.32174	153.99321400	1
## 14019	39	78.424127	199.958805684	316.20792	161.68507287	1
## 14020	119	162.832073	239.112480222	316.20792	196.69416839	1
## 14021	217	228.258286	271.557605998	316.20792	226.72383788	1
## 14022	328	374.387239	271.409912606	316.20792	228.29917521	1
## 14023	449	451.501941	310.484734788	316.20792	264.63829524	1
## 14024	505	497.790545	318.473454550	316.20792	271.94364866	1
## 14025	543	508.936829	338.813029262	316.20792	294.81669827	1
## 14026	579	565.822881	343.716681647	316.20792	296.10275687	1
## 14027	577	537.657931	350.198684661	316.20792	303.98754475	1
## 14028	513	504.836206	357.184048913	316.20792	311.67875620	1
## 14029	505	493.484307	390.079834383	316.20792	344.48812225	1
## 14030	491	484.208126	389.056972416	316.20792	342.14731495	1
## 14031	465	448.486295	374.297507211	316.20792	329.02443149	1
## 14032	300	296.017733	362.624792867	316.20792	321.92019544	1
## 14033	220	238.820069	358.360842291	316.20792	316.21949491	1
## 14034	181	198.260379	345.281763838	316.20792	303.75008956	1

## 14035	110	146.632547	338.028847098	316.20792	300.85215387	1
## 14036	47	51.191158	156.571902669	32.32174	105.45871561	1
## 14037	14	25.634847	163.808105799	32.32174	113.05346255	1
## 14038	9	12.150930	156.857045997	32.32174	107.08643676	1
## 14039	6	8.852231	162.584848896	32.32174	115.26126558	1
## 14040	11	10.054384	171.831130011	32.32174	122.08300163	1
## 14041	36	32.202428	179.318172018	32.32174	129.58128406	1
## 14042	159	146.771868	171.865434461	32.32174	123.80718729	1
## 14043	436	399.009247	209.482874474	316.20792	157.75376361	1
## 14044	673	576.286057	263.024687805	316.20792	215.13206258	1
## 14045	305	282.418789	288.112067872	316.20792	240.78557096	1
## 14046	199	230.252534	312.497949368	316.20792	263.75584728	1
## 14047	245	246.958901	323.172723312	316.20792	265.39625631	1
## 14048	276	267.187141	338.266666423	316.20792	277.17488275	1
## 14049	254	259.641046	345.252030675	316.20792	284.86609420	1
## 14050	248	262.457707	373.052670782	316.20792	312.42917633	1
## 14051	274	276.392681	386.189237450	316.20792	322.00754067	1
## 14052	464	435.720614	381.146219512	316.20792	321.21275516	1
## 14053	818	780.097040	389.889139390	316.20792	328.22806763	1
## 14054	812	696.462419	352.329187592	316.20792	291.39045031	1
## 14055	555	540.798746	338.697413323	316.20792	282.08659957	1
## 14056	432	378.672892	338.349899115	316.20792	280.78577583	1
## 14057	290	284.693210	330.644639198	316.20792	275.10879098	1
## 14058	192	204.998482	349.233876758	316.20792	290.14955132	1
## 14059	128	136.465195	331.433143763	316.20792	276.54293571	1
## 14060	60	51.646041	150.391582392	32.32174	95.66983906	1
## 14061	27	25.026858	141.481462666	32.32174	87.50319858	1
## 14062	11	11.891245	137.444538765	32.32174	92.25317727	1
## 14063	3	7.224749	144.931580772	32.32174	99.75145970	1
## 14064	5	7.666290	152.418622779	32.32174	107.24974213	1
## 14065	36	34.159203	146.646271974	32.32174	102.12912348	1
## 14066	64	79.579502	154.014684129	32.32174	117.61161255	1
## 14067	179	315.278841	167.272847697	316.20792	125.46424542	1
## 14068	618	547.571142	161.500496891	316.20792	120.34362676	1
## 14069	402	349.440996	212.326311655	316.20792	169.88172975	1
## 14070	208	189.691416	212.202430467	316.20792	160.90992337	1
## 14071	196	220.042297	267.197203958	316.20792	214.75079123	1
## 14072	300	279.870076	317.372538212	316.20792	258.63303657	1
## 14073	286	276.113235	336.586105470	316.20792	277.68640606	1
## 14074	255	255.408301	363.232903829	316.20792	299.78720697	1
## 14075	283	268.947280	359.670451826	316.20792	296.76973850	1
## 14076	458	394.866657	373.787190239	316.20792	310.57747148	1
## 14077	812	678.448367	310.041537704	316.20792	265.19722483	1
## 14078	854	721.776897	330.230199572	316.20792	270.35894850	1
## 14079	627	584.021846	327.369246140	316.20792	270.02471209	1
## 14080	436	382.214871	311.831113490	316.20792	255.54797367	1
## 14081	308	296.295990	345.836941122	316.20792	288.28405826	1
## 14082	189	201.160146	336.374125579	316.20792	283.28297239	1
## 14083	167	147.144999	345.117045457	316.20792	290.29828487	1
## 14084	60	59.000850	178.616905582	32.32174	123.20436783	1
## 14085	37	29.093094	182.837991733	32.32174	131.95863112	1
## 14086	8	12.680100	175.636093054	32.32174	126.08806984	1
## 14087	11	9.941797	159.143939472	32.32174	109.02521128	1
## 14088	4	7.754608	140.892546782	32.32174	92.63889910	1

## 14089	39	32.112042	159.429082799	32.32174	110.65293243	1
## 14090	172	145.398532	166.916124806	32.32174	118.15121487	1
## 14091	492	432.445422	199.968986551	316.20792	154.23244897	1
## 14092	682	554.086299	229.502714953	316.20792	179.47573621	1
## 14093	367	297.459097	247.960398614	316.20792	198.81979405	1
## 14094	233	231.802557	255.447440621	316.20792	206.31807648	1
## 14095	235	210.264258	277.623423315	316.20792	227.18520262	1
## 14096	307	252.396334	293.922854673	316.20792	235.52156764	1
## 14097	294	275.043691	324.185287504	316.20792	271.02260508	1
## 14098	255	247.364513	320.952526734	316.20792	266.57864760	1
## 14099	266	242.377331	329.364700334	316.20792	269.08917944	1
## 14100	431	413.496744	344.686298556	316.20792	285.38656805	1
## 14101	851	738.277392	332.363103701	316.20792	272.62647435	1
## 14102	848	731.387260	347.684701923	316.20792	288.92386295	1
## 14103	649	545.023267	319.865664723	316.20792	266.05823949	1
## 14104	427	410.382388	327.352706730	316.20792	273.55652192	1
## 14105	315	276.433298	335.844787730	316.20792	280.66829890	1
## 14106	226	218.854022	342.830151982	316.20792	288.35951035	1
## 14107	138	137.864940	334.623214310	316.20792	282.87545452	1
## 14108	76	56.202274	145.973068353	32.32174	97.72266127	1
## 14109	21	22.330599	138.771169674	32.32174	91.85210000	1
## 14110	15	13.496221	158.363762745	32.32174	106.50700230	1
## 14111	4	6.695230	152.166903058	32.32174	100.24993557	1
## 14112	5	7.499533	159.152267310	32.32174	107.94114702	1
## 14113	37	33.901521	148.735430836	32.32174	100.35394101	1
## 14114	165	150.739675	156.222472843	32.32174	107.85222345	1
## 14115	464	399.227602	196.302334018	316.20792	143.80483802	1
## 14116	682	577.090471	232.663896160	316.20792	178.23438430	1
## 14117	337	288.574571	265.812203990	316.20792	210.94663843	1
## 14118	199	201.980458	292.909662043	316.20792	235.82713592	1
## 14119	274	244.213407	329.802419718	316.20792	271.70570685	1
## 14120	343	287.541403	358.078586768	316.20792	297.43261146	1
## 14121	300	252.424056	371.995504364	316.20792	308.36418336	1
## 14122	248	244.851970	379.352675954	316.20792	320.16511588	1
## 14123	260	253.122138	383.051468530	316.20792	318.96151884	1
## 14124	419	415.344713	398.096077062	316.20792	333.71212346	1
## 14125	897	774.346386	400.659960227	316.20792	337.19768196	1
## 14126	832	733.397622	394.611903296	316.20792	336.78940190	1
## 14127	677	565.487328	383.319898246	316.20792	325.28605125	1
## 14128	514	432.258975	390.556101376	316.20792	332.88079819	1
## 14129	356	311.060703	376.272163113	316.20792	317.92173722	1
## 14130	254	251.676252	370.778485481	316.20792	314.34725514	1
## 14131	226	180.719954	364.781446611	316.20792	310.96634949	1
## 14132	88	67.930106	181.105477557	32.32174	126.85365459	1
## 14133	54	31.702218	164.058944676	32.32174	112.95699804	1
## 14134	19	16.867560	180.887259647	32.32174	128.67495217	1
## 14135	6	10.663559	173.183683212	32.32174	122.99731992	1
## 14136	9	9.238207	163.996573795	32.32174	113.28389546	1
## 14137	36	32.172028	170.478576810	32.32174	121.16868334	1
## 14138	157	142.264379	161.568457083	32.32174	113.00204286	1
## 14139	379	435.152061	185.452660824	316.20792	136.16524820	1
## 14140	668	604.631644	222.819261959	316.20792	170.20828903	1
## 14141	378	313.719292	251.123263304	316.20792	197.57779473	1
## 14142	231	209.722437	277.943731666	316.20792	220.91150822	1

## 14143	303	229.076798	299.919893543	316.20792	238.90247329	1
## 14144	365	276.649813	348.258819815	316.20792	284.79064211	1
## 14145	357	274.590098	375.408979411	316.20792	306.69786659	1
## 14146	328	284.066858	393.666842256	316.20792	323.16576335	1
## 14147	383	306.481275	410.747679586	316.20792	338.78660557	1
## 14148	488	445.698668	406.035407926	316.20792	342.49660069	1
## 14149	791	729.576792	398.502762968	316.20792	332.12125878	1
## 14150	669	683.737678	398.633114311	316.20792	341.17464975	1
## 14151	491	470.292849	347.417095116	316.20792	292.22428435	1
## 14152	359	352.772159	339.660817138	316.20792	289.51992509	1
## 14153	255	231.152913	312.396159236	316.20792	263.48809961	1
## 14154	213	171.052285	279.656701720	316.20792	242.54037444	1
## 14155	121	118.358568	281.797759487	316.20792	244.88883746	1
## 14156	105	103.326974	107.600401720	32.32174	76.03810224	1
## 14157	92	74.415523	82.244840726	32.32174	61.10978668	1
## 14158	43	61.035173	102.991275545	32.32174	81.22697019	1
## 14159	30	32.368934	114.338658722	32.32174	77.97674055	1
## 14160	13	14.993061	155.477543998	32.32174	116.82869926	1
## 14161	9	15.509481	146.567424271	32.32174	108.66205879	1
## 14162	27	29.588371	142.503294513	32.32174	105.83751934	1
## 14163	64	69.002811	149.990336520	316.20792	113.33580177	1
## 14164	189	168.684763	200.616330468	316.20792	159.99774368	1
## 14165	292	264.239828	223.295674399	316.20792	180.67129339	1
## 14166	480	389.687997	264.780216200	316.20792	221.98972467	1
## 14167	536	441.892249	281.982021991	316.20792	241.81675247	1
## 14168	654	589.207142	335.372294039	316.20792	287.41564254	1
## 14169	644	565.720591	330.380294161	316.20792	283.64823145	1
## 14170	598	570.913375	351.854778283	316.20792	301.83212553	1
## 14171	596	578.091271	358.336781298	316.20792	309.71691341	1
## 14172	641	568.834578	366.325501060	316.20792	317.02226682	1
## 14173	635	565.664276	373.310865312	316.20792	324.71347827	1
## 14174	554	518.719136	373.943522848	316.20792	327.64202317	1
## 14175	488	436.437190	352.052683482	316.20792	308.40261818	1
## 14176	341	303.355153	358.534686496	316.20792	316.28740606	1
## 14177	338	264.319583	317.205417606	316.20792	280.89934602	1
## 14178	261	225.196754	324.692459613	316.20792	288.39762846	1
## 14179	235	175.524941	318.998961164	316.20792	281.94698530	1
## 14180	187	147.994649	170.325530896	32.32174	131.26793380	1
## 14181	131	106.783536	152.775636778	32.32174	117.56485368	1
## 14182	119	94.212206	145.402806622	32.32174	116.39200205	1
## 14183	55	45.475556	171.824916916	32.32174	140.23251597	1
## 14184	26	22.085585	170.472363715	32.32174	139.31819768	1
## 14185	11	13.890316	153.927508589	32.32174	125.22861211	1
## 14186	20	25.525647	175.601813528	32.32174	146.28866727	1
## 14187	41	79.203420	183.590533290	316.20792	153.59402068	1
## 14188	124	147.704600	196.425243020	316.20792	166.24147512	1
## 14189	270	269.227546	196.952897387	316.20792	168.85679602	1
## 14190	425	374.233015	221.338778883	316.20792	191.82707234	1
## 14191	272	275.915448	198.322987108	316.20792	174.69925687	1
## 14192	298	262.874598	214.095245025	316.20792	193.77634204	1
## 14193	162	212.873140	201.744215874	316.20792	179.37364726	1
## 14194	149	245.390409	229.069329039	316.20792	208.77290690	1
## 14195	276	338.832348	255.914893170	316.20792	227.81859925	1
## 14196	356	370.188778	269.251280655	316.20792	240.27312467	1

## 14197	343	346.378633	243.919531865	316.20792	214.79766538	1
## 14198	377	347.075842	251.406573872	316.20792	222.29594781	1
## 14199	341	328.660060	270.444787644	316.20792	240.11705213	1
## 14200	274	279.452072	278.936868644	316.20792	247.22882911	1
## 14201	190	179.117208	266.088183830	316.20792	245.20880816	1
## 14202	56	122.644446	276.510435414	316.20792	246.94632911	1
## 14203	46	89.005213	292.282693331	316.20792	266.02341428	1
## 14204	26	40.203783	97.566356090	32.32174	58.01107493	1
## 14205	10	17.542373	107.737768797	32.32174	59.84506038	1
## 14206	5	10.867303	115.224810804	32.32174	67.34334282	1
## 14207	3	7.534538	110.657319808	32.32174	64.71237979	1
## 14208	7	8.418899	127.263685241	32.32174	88.10066916	1
## 14209	37	30.921723	133.242327018	32.32174	96.17903347	1
## 14210	161	141.385650	154.039779898	32.32174	113.32359140	1
## 14211	442	431.068701	167.376167383	316.20792	125.77811682	1
## 14212	655	605.124261	185.411025645	316.20792	143.98507917	1
## 14213	357	316.694089	205.827769231	316.20792	165.52875170	1
## 14214	193	218.793449	214.823211468	316.20792	172.44695225	1
## 14215	241	236.379031	238.929364747	316.20792	187.93982236	1
## 14216	282	262.684525	253.576670255	316.20792	209.12849703	1
## 14217	291	273.215701	281.573109087	316.20792	227.37799544	1
## 14218	275	262.584108	304.252453018	316.20792	248.05154515	1
## 14219	309	279.293148	313.246211773	316.20792	254.97039311	1
## 14220	460	418.327980	320.733253780	316.20792	262.46867554	1
## 14221	893	729.002322	314.034716338	316.20792	256.40453784	1
## 14222	815	612.252970	251.743707446	316.20792	207.48621267	1
## 14223	299	351.684266	258.225710460	316.20792	215.37100055	1
## 14224	261	272.913644	256.171658687	316.20792	211.77345020	1
## 14225	245	209.538911	254.714330838	316.20792	210.87376086	1
## 14226	161	150.260733	260.522041137	316.20792	223.64983481	1
## 14227	102	115.194128	268.009083144	316.20792	231.14811724	1
## 14228	59	44.055353	97.315517213	32.32174	58.10753944	1
## 14229	33	21.743313	105.555075852	32.32174	65.31642834	1
## 14230	8	9.420481	98.656717594	32.32174	56.37612956	1
## 14231	3	6.371782	97.199389744	32.32174	55.47644021	1
## 14232	4	7.008251	104.686431751	32.32174	62.97472264	1
## 14233	34	30.406766	124.731367999	32.32174	80.40867410	1
## 14234	169	140.082074	132.469248883	32.32174	87.81049202	1
## 14235	519	430.480423	162.704475857	316.20792	115.73701133	1
## 14236	723	585.664117	170.693195619	316.20792	123.04236474	1
## 14237	328	292.264014	207.507100938	316.20792	160.25096017	1
## 14238	178	210.299388	240.281917948	316.20792	188.85414065	1
## 14239	256	251.685818	273.177703418	316.20792	221.66350670	1
## 14240	305	285.629020	306.403180122	316.20792	253.04638374	1
## 14241	331	292.874761	330.789061618	316.20792	276.01666006	1
## 14242	302	288.852303	352.263545740	316.20792	294.20055414	1
## 14243	302	287.080105	358.242187516	316.20792	302.27891845	1
## 14244	467	430.929531	365.729229523	316.20792	309.77720088	1
## 14245	878	704.286908	341.202698909	316.20792	281.03907507	1
## 14246	625	623.188044	335.205660039	316.20792	277.65816942	1
## 14247	476	397.074611	266.089156016	316.20792	231.74397745	1
## 14248	358	323.814934	281.024967808	316.20792	234.31946620	1
## 14249	280	285.510881	288.512009815	316.20792	241.81774863	1
## 14250	232	213.353981	284.949557811	316.20792	238.80028016	1

```

## 14251 136 126.536034 275.537760330 316.20792 230.82656871 1
## 14252 55 45.616196 105.095033276 32.32174 57.68952639 1
## 14253 21 20.937573 121.872330185 32.32174 76.38010611 1
## 14254 17 14.901622 129.359372192 32.32174 83.87838854 1
## 14255 7 8.615596 136.846414199 32.32174 91.37667097 1
## 14256 8 8.318375 123.344510347 32.32174 77.77017014 1
## 14257 40 33.807518 145.971152735 32.32174 101.41699285 1
## 14258 187 141.965113 170.357034231 32.32174 124.38726917 1
## 14259 553 437.217351 166.794582227 316.20792 121.36980070 1
## 14260 740 625.978093 192.688863953 316.20792 143.75999514 1
## 14261 376 329.167005 228.045387103 316.20792 178.57604687 1
## 14262 225 221.473657 251.729770027 316.20792 198.86309113 1
## 14263 267 238.897122 271.695853918 316.20792 217.62706709 1
## 14264 312 287.213103 298.993132788 316.20792 245.38372565 1
## 14265 316 284.096687 320.718455787 316.20792 263.47115522 1
## 14266 266 277.093238 334.835194201 316.20792 277.27888819 1
## 14267 316 289.808219 336.194217557 316.20792 278.27479106 1
## 14268 460 447.637631 320.512359287 316.20792 276.07028042 1
## 14269 783 652.790610 327.999401294 316.20792 283.56856285 1
## 14270 683 664.972137 298.829668575 316.20792 258.62297225 1
## 14271 580 469.121681 275.498040770 316.20792 234.95206810 1
## 14272 391 357.389977 284.290923663 316.20792 233.06348535 1
## 14273 351 285.510881 288.512009815 316.20792 241.81774863 1
## 14274 281 236.485082 295.999051822 316.20792 249.31603106 1
## 14275 140 140.942208 281.387105808 316.20792 235.78281169 1
## 14276 60 47.558093 120.234633656 32.32174 73.83806666 1
## 14277 25 22.131977 110.822836175 32.32174 65.86435521 1
## 14278 20 14.388854 118.309878182 32.32174 73.36263764 1
## 14279 9 8.781152 127.305320419 32.32174 80.28083819 1
## 14280 6 9.848942 133.283962196 32.32174 88.35920250 1
## 14281 37 32.550164 140.771004203 32.32174 95.85748493 1
## 14282 192 149.915615 131.188275244 32.32174 92.58148312 1
## 14283 481 389.261679 155.574156740 316.20792 115.55175944 1
## 14284 707 657.006462 194.648978922 316.20792 151.89087947 1
## 14285 412 357.383687 221.165906864 316.20792 178.29433048 1

## RandForestKFold
## 1 28.341420
## 2 32.470300
## 3 26.355722
## 4 17.263817
## 5 3.865484
## 6 4.016733
## 7 5.122291
## 8 11.409752
## 9 42.570314
## 10 73.423067
## 11 70.061161
## 12 88.770894
## 13 134.777500
## 14 115.238900
## 15 123.154000
## 16 119.651400
## 17 115.659433
## 18 113.357033

```

```
## 19      59.375800
## 20      57.484567
## 21      57.430500
## 22      51.601500
## 23      46.949333
## 24      50.125733
## 25      42.585100
## 26      37.083800
## 27      23.165133
## 28      11.966900
## 29      5.409638
## 30      8.329867
## 31      42.444733
## 32      56.768867
## 33      62.179700
## 34      70.589233
## 35      88.574033
## 36      107.173833
## 37      110.843000
## 38      83.069467
## 39      83.938757
## 40      84.153590
## 41      120.406262
## 42      109.680924
## 43      73.574479
## 44      55.143400
## 45      50.390233
## 46      30.486443
## 47      23.592895
## 48      8.660890
## 49      3.331494
## 50      1.806511
## 51      4.535353
## 52      38.637765
## 53      87.294822
## 54      188.158892
## 55      114.031208
## 56      51.479210
## 57      55.970148
## 58      79.836740
## 59      77.955045
## 60      77.289565
## 61      75.280198
## 62      94.293842
## 63      179.852356
## 64      178.865466
## 65      108.047101
## 66      69.436012
## 67      49.698360
## 68      27.375955
## 69      21.369876
## 70      8.972226
## 71      3.620383
## 72      1.562566
```

```

## 73      2.011169
## 74      6.373964
## 75      34.497934
## 76      88.202954
## 77      190.271973
## 78      123.468636
## 79      44.483562
## 80      63.433802
## 81      77.296383
## 82      93.909259
## 83      82.743150
## 84      80.586903
## 85      106.212915
## 86      204.673981
## 87      190.456978
## 88      122.851163
## 89      75.531354
## 90      56.468894
## 91      40.460119
## 92      23.014295
## 93      10.117891
## 94      5.562317
## 95      2.318111
## 96      2.575961
## 97      7.506560
## 98      42.759117
## 99      116.359670
## 100     231.918432
## 101     140.933385
## 102     65.101966
## 103     74.369579
## 104     93.107596
## 105     88.612858
## 106     78.894816
## 107     79.481816
## 108     102.688450
## 109     181.915189
## 110     171.379132
## 111     143.765185
## 112     83.314812
## 113     52.631765
## 114     40.588933
## 115     27.429995
## 116     11.240601
## 117     5.051000
## 118     2.380778
## 119     1.799583
## 120     6.013457
## 121     38.109876
## 122     106.623382
## 123     236.938273
## 124     141.760096
## 125     54.147553
## 126     66.598544

```

```

## 127      82.351225
## 128      78.449396
## 129      77.214496
## 130      76.988746
## 131      99.466962
## 132      166.338691
## 133      159.146091
## 134      108.713982
## 135      75.817778
## 136      54.412971
## 137      50.350586
## 138      27.006793
## 139      13.585000
## 140      5.960083
## 141      2.288967
## 142      1.801956
## 143      9.364381
## 144      46.630183
## 145      153.215279
## 146      278.715543
## 147      162.793451
## 148      65.101966
## 149      58.009042
## 150      70.542271
## 151      72.330409
## 152      53.460615
## 153      83.276835
## 154      114.716640
## 155      226.504990
## 156      141.794434
## 157      96.325033
## 158      59.251933
## 159      47.987516
## 160      45.016767
## 161      22.924295
## 162      27.591400
## 163      19.784433
## 164      17.564633
## 165      9.556844
## 166      2.367229
## 167      3.800900
## 168      3.318191
## 169      11.807505
## 170      27.344132
## 171      33.700941
## 172      74.299621
## 173      79.331333
## 174      99.182900
## 175      127.698248
## 176      99.708943
## 177      87.102617
## 178      84.513506
## 179      78.826262
## 180      59.206066

```

```
## 181      48.762908
## 182      39.165198
## 183      38.146700
## 184      35.305500
## 185      25.047200
## 186      24.139600
## 187      15.805567
## 188      16.958533
## 189      9.094000
## 190      2.071800
## 191      2.164300
## 192      2.845433
## 193      12.004600
## 194      26.908593
## 195      38.894717
## 196      63.400191
## 197      81.554633
## 198      97.045411
## 199      96.388522
## 200      99.856298
## 201      111.893729
## 202      95.745734
## 203      73.180742
## 204      63.438575
## 205      57.524944
## 206      43.876198
## 207      31.183600
## 208      25.230576
## 209      17.209333
## 210      8.371833
## 211      2.444314
## 212      2.567460
## 213      1.961690
## 214      2.257005
## 215      7.619822
## 216      39.746945
## 217      93.088212
## 218      183.380252
## 219      116.327779
## 220      39.863042
## 221      44.928809
## 222      57.225877
## 223      57.084319
## 224      51.460410
## 225      53.185591
## 226      85.977788
## 227      159.530093
## 228      153.271021
## 229      98.480642
## 230      69.979690
## 231      46.753649
## 232      28.426988
## 233      18.624317
## 234      10.338843
```

```
## 235      3.861264
## 236      3.103883
## 237      8.240471
## 238      35.577403
## 239     110.723234
## 240     250.982545
## 241     142.566143
## 242      57.130305
## 243      46.264786
## 244      62.414050
## 245      57.617622
## 246      59.345658
## 247      52.411131
## 248      75.660495
## 249     131.237521
## 250      97.226326
## 251      93.663340
## 252      50.402550
## 253      41.185305
## 254      33.351533
## 255      23.452748
## 256      11.361836
## 257      5.252733
## 258      1.835149
## 259      7.599876
## 260      30.478891
## 261      82.561199
## 262     214.022407
## 263     113.934103
## 264      49.649215
## 265      46.647083
## 266      60.626966
## 267      62.129299
## 268      51.820895
## 269      52.274938
## 270      73.008518
## 271     144.640462
## 272     142.581842
## 273      99.759435
## 274      64.207757
## 275      54.246504
## 276      39.776871
## 277      22.441864
## 278      8.618450
## 279      2.574014
## 280      2.795136
## 281      2.709367
## 282      3.251483
## 283      4.608439
## 284      38.623143
## 285     109.390320
## 286     205.745311
## 287     132.845061
## 288      40.923181
```

```
## 289      46.194153
## 290      53.256561
## 291      70.065178
## 292      54.886503
## 293      80.131111
## 294      100.246750
## 295      164.056945
## 296      149.135942
## 297      98.996365
## 298      68.175953
## 299      45.847749
## 300      32.019038
## 301      18.345231
## 302      11.862050
## 303      4.544836
## 304      1.789705
## 305      1.940890
## 306      8.332716
## 307      27.486402
## 308      90.148987
## 309      206.858131
## 310      135.694698
## 311      54.025482
## 312      56.235620
## 313      62.314724
## 314      74.604857
## 315      72.740786
## 316      77.762411
## 317      83.752483
## 318      166.617092
## 319      133.427124
## 320      94.588394
## 321      68.454378
## 322      53.697427
## 323      36.867000
## 324      25.381595
## 325      29.215653
## 326      20.634967
## 327      16.438800
## 328      10.622006
## 329      4.156110
## 330      3.135056
## 331      3.697633
## 332      12.440281
## 333      32.881829
## 334      47.542300
## 335      73.611726
## 336      96.930643
## 337      114.774252
## 338      126.536024
## 339      143.130756
## 340      147.255900
## 341      152.480967
## 342      109.783800
```

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## 343      107.230267
## 344      83.247200
## 345      57.561650
## 346      60.253100
## 347      48.843900
## 348      44.303586
## 349      39.143642
## 350      29.685833
## 351      25.770765
## 352      12.948556
## 353      3.595033
## 354      2.844133
## 355      3.099108
## 356      15.247100
## 357      34.451600
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## 359      97.987338
## 360      122.445657
## 361      146.596381
## 362      135.476976
## 363      122.321309
## 364      126.758142
## 365      151.816344
## 366      121.222663
## 367      87.431474
## 368      71.079833
## 369      60.402050
## 370      40.909367
## 371      30.873400
## 372      28.165729
## 373      23.105433
## 374      18.583767
## 375      14.495433
## 376      5.840183
## 377      3.415450
## 378      2.571983
## 379      6.959633
## 380      21.638544
## 381      44.504500
## 382      57.876083
## 383      82.900100
## 384      90.548800
## 385      87.228043
## 386      88.346776
## 387      92.161010
## 388      91.399576
## 389      91.161760
## 390      88.148655
## 391      93.852540
## 392      76.266367
## 393      44.007367
## 394      33.074300
## 395      20.843600
## 396      14.953533
```

## 397	25.980741
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## 399	46.957030
## 400	49.026764
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## 402	136.842505
## 403	131.308801
## 404	104.982400
## 405	91.981174
## 406	52.418667
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## 408	30.401050
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## 410	5.893400
## 411	4.038591
## 412	2.008624
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## 415	158.015451
## 416	271.771508
## 417	143.479198
## 418	77.768463
## 419	80.498456
## 420	93.440580
## 421	125.373921
## 422	102.085067
## 423	110.445295
## 424	139.383398
## 425	238.874211
## 426	205.795578
## 427	136.133799
## 428	113.370998
## 429	83.948984
## 430	77.256029
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## 432	15.566163
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## 434	3.833900
## 435	2.070124
## 436	1.764209
## 437	10.610852
## 438	48.915407
## 439	147.597000
## 440	286.673258
## 441	163.913967
## 442	83.725578
## 443	88.887940
## 444	97.895936
## 445	96.454874
## 446	93.912607
## 447	101.513307
## 448	106.499040
## 449	215.769640
## 450	195.595824

```
## 451      165.893532
## 452      125.236395
## 453      60.383238
## 454      48.716033
## 455      32.500100
## 456      17.757481
## 457      6.488150
## 458      4.281000
## 459      1.878567
## 460      1.974862
## 461      7.028570
## 462      42.099149
## 463      107.784314
## 464      239.545687
## 465      164.339760
## 466      58.509506
## 467      64.366351
## 468      86.498949
## 469      76.595011
## 470      72.105278
## 471      76.135264
## 472      99.496698
## 473      170.418054
## 474      132.597862
## 475      120.857433
## 476      76.151417
## 477      51.572011
## 478      36.129490
## 479      25.765667
## 480      20.117178
## 481      15.575244
## 482      15.824511
## 483      9.536800
## 484      3.617057
## 485      3.091608
## 486      18.003933
## 487      39.063760
## 488      51.057883
## 489      65.514433
## 490      69.300600
## 491      72.781733
## 492      86.110324
## 493      82.883757
## 494      92.354324
## 495      89.919540
## 496      79.086907
## 497      59.323812
## 498      60.932400
## 499      47.426431
## 500      40.503617
## 501      31.535267
## 502      27.525229
## 503      22.543464
## 504      17.124578
```

## 505	17.375133
## 506	8.080967
## 507	3.384090
## 508	2.788483
## 509	8.935048
## 510	29.940264
## 511	46.534483
## 512	67.502791
## 513	103.656867
## 514	102.234111
## 515	90.128269
## 516	104.181083
## 517	90.491640
## 518	84.098111
## 519	72.114004
## 520	57.643603
## 521	57.084034
## 522	38.368564
## 523	36.982100
## 524	31.500800
## 525	26.016400
## 526	9.477967
## 527	2.949847
## 528	1.393833
## 529	1.752426
## 530	7.382816
## 531	26.832169
## 532	115.691084
## 533	209.795064
## 534	132.481836
## 535	52.972567
## 536	53.574414
## 537	66.220495
## 538	64.753627
## 539	59.588665
## 540	64.537841
## 541	79.102298
## 542	163.008926
## 543	144.952837
## 544	106.226375
## 545	75.195190
## 546	51.948660
## 547	34.773367
## 548	29.425783
## 549	9.940238
## 550	4.667310
## 551	2.412363
## 552	1.609140
## 553	8.844459
## 554	41.026733
## 555	110.905144
## 556	234.360271
## 557	180.390358
## 558	69.772569

## 559	77.382846
## 560	99.767111
## 561	93.433634
## 562	83.947874
## 563	101.628293
## 564	117.956860
## 565	224.055847
## 566	218.030507
## 567	154.171252
## 568	97.835624
## 569	57.261527
## 570	45.052919
## 571	34.260045
## 572	14.867319
## 573	5.772893
## 574	6.330100
## 575	5.023231
## 576	25.372030
## 577	60.789464
## 578	86.150955
## 579	69.580914
## 580	41.473801
## 581	41.768420
## 582	42.941544
## 583	43.263244
## 584	41.212035
## 585	42.630020
## 586	44.296435
## 587	61.407359
## 588	56.490840
## 589	120.235658
## 590	117.726700
## 591	94.815328
## 592	64.757689
## 593	44.820730
## 594	33.086786
## 595	26.097395
## 596	13.030650
## 597	4.482926
## 598	2.650433
## 599	1.571856
## 600	9.045740
## 601	41.163549
## 602	108.798561
## 603	222.525933
## 604	112.670567
## 605	56.175476
## 606	35.183298
## 607	34.170536
## 608	35.000103
## 609	51.268106
## 610	48.348996
## 611	76.619416
## 612	150.732824

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## 614	110.423490
## 615	83.097079
## 616	56.152038
## 617	37.959000
## 618	31.219967
## 619	33.541820
## 620	23.059567
## 621	18.937356
## 622	10.159195
## 623	3.613233
## 624	3.079733
## 625	11.555514
## 626	39.598767
## 627	53.109667
## 628	63.475586
## 629	67.356700
## 630	87.766476
## 631	82.732879
## 632	94.553179
## 633	120.697803
## 634	115.482667
## 635	97.749100
## 636	81.074370
## 637	75.083165
## 638	51.349550
## 639	39.923283
## 640	37.675133
## 641	33.895200
## 642	36.406497
## 643	26.959100
## 644	20.134089
## 645	11.656138
## 646	2.592806
## 647	2.826172
## 648	8.617548
## 649	26.190357
## 650	61.001752
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## 652	85.242300
## 653	130.580309
## 654	121.968133
## 655	125.746833
## 656	133.349900
## 657	131.030000
## 658	105.771076
## 659	83.482567
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## 661	46.952433
## 662	36.537133
## 663	30.872100
## 664	28.601700
## 665	13.596933
## 666	6.223155

## 667	2.886411
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## 669	2.565418
## 670	8.006309
## 671	44.934012
## 672	97.040636
## 673	196.248781
## 674	114.092565
## 675	60.987369
## 676	59.160203
## 677	68.271006
## 678	58.378762
## 679	71.465595
## 680	54.788194
## 681	83.169247
## 682	154.317921
## 683	153.536340
## 684	154.954466
## 685	75.121482
## 686	50.811538
## 687	37.391633
## 688	23.051245
## 689	9.971188
## 690	4.264656
## 691	2.184067
## 692	1.823246
## 693	5.409900
## 694	22.759267
## 695	89.267769
## 696	144.694538
## 697	140.315071
## 698	68.587950
## 699	54.482138
## 700	53.638771
## 701	51.876171
## 702	55.843500
## 703	71.080743
## 704	79.858548
## 705	162.459133
## 706	161.159352
## 707	112.392205
## 708	84.732810
## 709	66.980181
## 710	48.942600
## 711	23.482600
## 712	4.994267
## 713	4.698067
## 714	3.804591
## 715	1.493904
## 716	1.599033
## 717	5.236167
## 718	25.232667
## 719	75.171607
## 720	135.337357

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## 721      148.710424
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## 724      69.057667
## 725      119.770667
## 726      92.848227
## 727      97.143238
## 728      128.912848
## 729      224.072967
## 730      245.245033
## 731      130.696844
## 732      92.424129
## 733      69.574723
## 734      47.956186
## 735      32.597233
## 736      11.542981
## 737      4.673071
## 738      2.632830
## 739      1.521798
## 740      4.065831
## 741      40.754850
## 742      97.235587
## 743      190.219933
## 744      138.612399
## 745      52.739183
## 746      59.130667
## 747      61.238960
## 748      58.073894
## 749      56.326256
## 750      59.985741
## 751      80.407529
## 752      171.280948
## 753      152.722374
## 754      110.651020
## 755      91.537736
## 756      53.864311
## 757      43.522902
## 758      34.538267
## 759      13.017214
## 760      6.068567
## 761      1.616033
## 762      1.366867
## 763      7.228057
## 764      33.164683
## 765      112.749534
## 766      237.145748
## 767      144.955861
## 768      54.977056
## 769      71.028775
## 770      87.967403
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## 772      104.520318
## 773      101.298694
## 774      135.023019
```

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## 775      200.685850
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## 778      85.550200
## 779      57.177333
## 780      52.014133
## 781      44.106033
## 782      39.421924
## 783      24.722176
## 784      22.435043
## 785      11.591643
## 786      6.028191
## 787      6.809250
## 788      6.864486
## 789      19.325469
## 790      29.246869
## 791      36.240140
## 792      50.155521
## 793      58.062024
## 794      57.923539
## 795      64.710824
## 796      62.817748
## 797      63.661482
## 798      67.233729
## 799      92.065076
## 800      85.124343
## 801      83.450076
## 802      71.511800
## 803      57.125000
## 804      57.729224
## 805      51.617267
## 806      43.153510
## 807      36.233211
## 808      26.119226
## 809      17.125173
## 810      3.580233
## 811      3.441133
## 812      3.000257
## 813      15.156304
## 814      40.536400
## 815      72.296600
## 816      118.534648
## 817      159.747600
## 818      189.057860
## 819      189.880094
## 820      176.647110
## 821      178.725815
## 822      168.151073
## 823      152.140262
## 824      110.168233
## 825      50.141100
## 826      44.543433
## 827      48.923829
## 828      73.710029
```

```

## 829      36.327000
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## 831      6.396667
## 832      3.153943
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## 834      1.846464
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## 836      39.626395
## 837      135.696001
## 838      251.311152
## 839      180.026867
## 840      80.154276
## 841      88.396433
## 842      93.914033
## 843      82.669429
## 844      75.319729
## 845      84.547795
## 846      125.050067
## 847      215.121067
## 848      211.437067
## 849      173.467033
## 850      126.596183
## 851      112.857357
## 852      60.935919
## 853      49.957031
## 854      20.373481
## 855      9.156629
## 856      4.497967
## 857      1.461979
## 858      2.517781
## 859      7.776233
## 860      53.277183
## 861      173.285053
## 862      280.873158
## 863      148.825583
## 864      59.435827
## 865      56.811093
## 866      88.378933
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## 868      59.260189
## 869      60.530175
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## 871      191.860367
## 872      167.659121
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## 874      68.027192
## 875      63.619967
## 876      37.606133
## 877      21.996067
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## 879      6.159897
## 880      2.831033
## 881      1.897119
## 882      7.363500

```

```

## 883      37.274727
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## 896      94.413833
## 897      79.795133
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## 900      33.157943
## 901      12.092786
## 902      6.462622
## 903      3.259567
## 904      1.678567
## 905      7.487190
## 906      33.446692
## 907     108.776420
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## 909     127.285431
## 910      46.614067
## 911      52.993233
## 912      67.992258
## 913      65.335967
## 914      55.023381
## 915      57.614881
## 916      82.634967
## 917     173.633148
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## 920      95.753633
## 921      65.377833
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## 925      6.169931
## 926      2.902000
## 927      6.955017
## 928      30.791758
## 929      92.543337
## 930     221.658043
## 931     145.583864
## 932      56.577383
## 933      66.825246
## 934      69.870465
## 935     92.624452
## 936     89.776802

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## 937	91.959833
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## 943	56.455657
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## 945	40.502567
## 946	32.853231
## 947	26.155133
## 948	18.877333
## 949	10.999516
## 950	3.382329
## 951	2.724631
## 952	3.526756
## 953	14.142133
## 954	34.161024
## 955	50.209533
## 956	110.527233
## 957	168.241667
## 958	147.090152
## 959	147.734975
## 960	188.430833
## 961	182.470702
## 962	173.451202
## 963	161.915283
## 964	101.191945
## 965	65.129400
## 966	62.333000
## 967	52.994595
## 968	49.928121
## 969	34.228933
## 970	34.655631
## 971	24.105400
## 972	20.780367
## 973	12.064216
## 974	3.175567
## 975	4.886408
## 976	17.436867
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## 981	189.147490
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## 983	174.107833
## 984	179.155376
## 985	174.284200
## 986	178.309152
## 987	142.026372
## 988	102.463534
## 989	71.106500
## 990	67.593533

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## 991      59.810367
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## 994      8.504633
## 995      4.106417
## 996      3.059518
## 997      2.514785
## 998      10.433509
## 999      56.956436
## 1000     190.535686
## 1001     304.485186
## 1002     154.787314
## 1003     95.357267
## 1004     102.017286
## 1005     117.153783
## 1006     118.205983
## 1007     109.826050
## 1008     106.582044
## 1009     224.565648
## 1010     290.023870
## 1011     258.868425
## 1012     216.433822
## 1013     131.658329
## 1014     85.679383
## 1015     69.270040
## 1016     42.254851
## 1017     20.422315
## 1018     7.842924
## 1019     5.500767
## 1020     1.648895
## 1021     6.303811
## 1022     42.161085
## 1023     125.893320
## 1024     222.277189
## 1025     131.693905
## 1026     62.541933
## 1027     65.331678
## 1028     81.766922
## 1029     100.361733
## 1030     91.709267
## 1031     91.194567
## 1032     123.293859
## 1033     227.113847
## 1034     207.432180
## 1035     151.718929
## 1036     116.885538
## 1037     72.097874
## 1038     50.521460
## 1039     27.485900
## 1040     13.334345
## 1041     7.562567
## 1042     1.699313
## 1043     1.664604
## 1044     7.419538
```

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## 1053     115.699550
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## 1059     155.036864
## 1060     120.481175
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## 1062      56.813867
## 1063      24.529338
## 1064      9.305797
## 1065      5.828167
## 1066      3.649270
## 1067      3.098057
## 1068     17.013936
## 1069     70.369871
## 1070     196.643748
## 1071     361.110354
## 1072     208.872558
## 1073     115.126957
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## 1076     158.712340
## 1077     130.214955
## 1078     135.450866
## 1079     227.340400
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## 1085     107.723433
## 1086      57.997533
## 1087      37.089109
## 1088      13.022862
## 1089      8.155250
## 1090      5.458775
## 1091      3.288233
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## 1095     299.965867
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## 1097     113.736252
## 1098     137.528644
```

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## 1107      199.836233
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## 1114      11.849933
## 1115      4.122867
## 1116      4.308633
## 1117      10.117933
## 1118      40.061967
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## 1123      136.685700
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## 1125      192.619860
## 1126      163.847624
## 1127      157.920624
## 1128      160.658650
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## 1132      52.757167
## 1133      52.229386
## 1134      39.698214
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## 1136      25.370744
## 1137      22.150800
## 1138      15.272067
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## 1141      13.229578
## 1142      45.732600
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## 1151      179.087726
## 1152      116.975200
```

```

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## 1174      77.770000
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## 1179      34.197667
## 1180      20.552900
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## 1182      23.411158
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## 1184      164.740290
## 1185      119.395085
## 1186      55.388514
## 1187      56.303671
## 1188      63.357867
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## 1190      60.160456
## 1191      81.699770
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## 1193      178.160381
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## 1195      113.560149
## 1196      93.487847
## 1197      73.939723
## 1198      59.772450
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## 1204      7.711767
## 1205      39.565983
## 1206      122.092468

```

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## 1214	101.869826
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## 1218	158.262769
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## 1220	76.888774
## 1221	55.825848
## 1222	34.594019
## 1223	12.629448
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## 1225	3.429533
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## 1227	9.656643
## 1228	60.621391
## 1229	147.465292
## 1230	382.978693
## 1231	154.252717
## 1232	85.130338
## 1233	101.788967
## 1234	106.714267
## 1235	95.502229
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## 1237	79.164300
## 1238	99.398662
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## 1241	106.172000
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## 1243	86.314881
## 1244	52.486100
## 1245	46.394623
## 1246	10.159967
## 1247	10.543881
## 1248	5.570529
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## 1250	8.600376
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## 1252	80.842819
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## 1254	105.940089
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## 1256	96.415667
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## 1258	105.065905
## 1259	107.923005
## 1260	107.682211

```

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## 1264      116.342118
## 1265      94.264614
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## 1267      63.532181
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## 1283      194.920433
## 1284      185.184529
## 1285      203.088200
## 1286      208.852976
## 1287      144.489433
## 1288      103.960433
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## 1295      27.583900
## 1296      15.171344
## 1297      5.195086
## 1298      6.179697
## 1299      20.258704
## 1300      56.038145
## 1301      75.256024
## 1302      118.136119
## 1303      150.712333
## 1304      202.828595
## 1305      272.761962
## 1306      289.154362
## 1307      302.625833
## 1308      305.471100
## 1309      177.587914
## 1310      143.609800
## 1311      115.550390
## 1312      87.245138
## 1313      76.906033
## 1314      70.279267

```

```
## 1315      58.454633
## 1316      28.827967
## 1317      7.488995
## 1318      1.616679
## 1319      9.744667
## 1320      46.303067
## 1321      161.523700
## 1322      285.541256
## 1323      176.005067
## 1324      103.014233
## 1325      94.793533
## 1326      95.028100
## 1327      64.505378
## 1328      37.133078
## 1329      38.047978
## 1330      81.673280
## 1331      99.757948
## 1332      149.294600
## 1333      96.373367
## 1334      71.235100
## 1335      86.133400
## 1336      59.027967
## 1337      50.296309
## 1338      13.229959
## 1339      4.504127
## 1340      3.924633
## 1341      2.871541
## 1342      1.808795
## 1343      5.977785
## 1344      47.304223
## 1345      126.714437
## 1346      243.469537
## 1347      151.266249
## 1348      75.531329
## 1349      82.084741
## 1350      118.097266
## 1351      101.937541
## 1352      101.974670
## 1353      99.389151
## 1354      126.659507
## 1355      252.926362
## 1356      225.970221
## 1357      140.643951
## 1358      95.553333
## 1359      74.362427
## 1360      53.812700
## 1361      32.103267
## 1362      11.162137
## 1363      4.417894
## 1364      2.896500
## 1365      2.871541
## 1366      1.368345
## 1367      7.448449
## 1368      44.093275
```

```

## 1369      146.038764
## 1370      297.227295
## 1371      166.288886
## 1372      97.932953
## 1373      96.570500
## 1374      144.847949
## 1375      172.504500
## 1376      131.664700
## 1377      135.652200
## 1378      220.788248
## 1379      364.034256
## 1380      317.874033
## 1381      209.473331
## 1382      119.482233
## 1383      92.469929
## 1384      57.159276
## 1385      36.002057
## 1386      13.044859
## 1387      3.234700
## 1388      3.119095
## 1389      1.717967
## 1390      1.675761
## 1391      7.277664
## 1392      40.567331
## 1393      123.685287
## 1394      218.915557
## 1395      142.671198
## 1396      63.552048
## 1397      61.487867
## 1398      76.910004
## 1399      79.932438
## 1400      78.281786
## 1401      76.525386
## 1402      93.608261
## 1403      190.492090
## 1404      188.536567
## 1405      115.199949
## 1406      86.159612
## 1407      58.762900
## 1408      54.037612
## 1409      27.013000
## 1410      13.084978
## 1411      4.272056
## 1412      2.171967
## 1413      1.338767
## 1414      1.241700
## 1415      7.318724
## 1416      34.321567
## 1417      128.414784
## 1418      265.995738
## 1419      183.099352
## 1420      73.239805
## 1421      94.523008
## 1422      110.339087

```

```

## 1423      103.315314
## 1424      104.585884
## 1425      112.130209
## 1426      150.186842
## 1427      212.815967
## 1428      197.493333
## 1429      134.027938
## 1430      90.340089
## 1431      69.232722
## 1432      54.786495
## 1433      45.618938
## 1434      29.637833
## 1435      30.039933
## 1436      24.014033
## 1437      9.705433
## 1438      3.062700
## 1439      5.127417
## 1440      7.626087
## 1441      23.681990
## 1442      45.376233
## 1443      73.301544
## 1444      105.342278
## 1445      167.796467
## 1446      213.985733
## 1447      210.479395
## 1448      265.617419
## 1449      211.590395
## 1450      229.074886
## 1451      188.044986
## 1452      183.940252
## 1453      135.139000
## 1454      87.025800
## 1455      81.336333
## 1456      71.769900
## 1457      50.437700
## 1458      51.037433
## 1459      43.743033
## 1460      35.655200
## 1461      14.819433
## 1462      4.932271
## 1463      11.596821
## 1464      29.856117
## 1465      45.097800
## 1466      49.102429
## 1467      52.401429
## 1468      95.350262
## 1469      111.785933
## 1470      119.151733
## 1471      40.410151
## 1472      36.419558
## 1473      33.996839
## 1474      44.490253
## 1475      32.476496
## 1476      30.915782

```

## 1477	29.260282
## 1478	27.867667
## 1479	22.464733
## 1480	19.388333
## 1481	5.204300
## 1482	3.683122
## 1483	1.897567
## 1484	1.510995
## 1485	5.226974
## 1486	44.960470
## 1487	116.058212
## 1488	229.575437
## 1489	147.831857
## 1490	72.544852
## 1491	84.468233
## 1492	110.261599
## 1493	92.657801
## 1494	97.164149
## 1495	121.473449
## 1496	141.546306
## 1497	265.181171
## 1498	225.995088
## 1499	157.136236
## 1500	108.424805
## 1501	78.166912
## 1502	54.423181
## 1503	33.243800
## 1504	13.002083
## 1505	4.786970
## 1506	2.973272
## 1507	5.067402
## 1508	2.168808
## 1509	10.156976
## 1510	51.553498
## 1511	152.746353
## 1512	280.879200
## 1513	174.264300
## 1514	93.545089
## 1515	97.913600
## 1516	105.209314
## 1517	100.593095
## 1518	87.783698
## 1519	105.016614
## 1520	138.861286
## 1521	275.996162
## 1522	257.516838
## 1523	191.649833
## 1524	110.318267
## 1525	91.357722
## 1526	58.758338
## 1527	45.934548
## 1528	12.088787
## 1529	5.057508
## 1530	4.020383

```

## 1531      3.107625
## 1532      2.069042
## 1533      9.180710
## 1534     49.214767
## 1535    142.569878
## 1536    253.554524
## 1537   152.215244
## 1538    73.683567
## 1539   74.071614
## 1540   92.946867
## 1541   93.793600
## 1542   86.621295
## 1543   87.635795
## 1544  110.111567
## 1545  178.441067
## 1546  177.904133
## 1547  144.715400
## 1548  102.719589
## 1549   66.195379
## 1550   30.304383
## 1551   23.141233
## 1552   9.379311
## 1553   5.678895
## 1554   3.379029
## 1555  10.233933
## 1556  37.039333
## 1557  63.709268
## 1558  82.358473
## 1559  40.893732
## 1560  32.673484
## 1561  23.312760
## 1562  25.070246
## 1563  20.992146
## 1564  25.892213
## 1565  25.834198
## 1566  39.698154
## 1567 173.261149
## 1568  97.219051
## 1569  95.250651
## 1570  58.342063
## 1571  45.397581
## 1572  58.317733
## 1573  36.538667
## 1574 11.795930
## 1575   7.423984
## 1576   5.930033
## 1577   2.288400
## 1578   9.944467
## 1579  39.347795
## 1580 160.649644
## 1581  324.271195
## 1582 179.915092
## 1583  86.179233
## 1584  85.679133

```

## 1585	103.592767
## 1586	117.426106
## 1587	99.581433
## 1588	99.801067
## 1589	123.306267
## 1590	216.681633
## 1591	173.515460
## 1592	130.188382
## 1593	94.056200
## 1594	67.909956
## 1595	62.574236
## 1596	42.052767
## 1597	38.039886
## 1598	23.026467
## 1599	19.752200
## 1600	12.623438
## 1601	4.370552
## 1602	3.824833
## 1603	5.482287
## 1604	21.248828
## 1605	49.605326
## 1606	86.494800
## 1607	120.859600
## 1608	158.644589
## 1609	175.513356
## 1610	186.373100
## 1611	180.416900
## 1612	215.057867
## 1613	248.382324
## 1614	240.323867
## 1615	152.528357
## 1616	134.548290
## 1617	91.004471
## 1618	78.865767
## 1619	71.398733
## 1620	51.163400
## 1621	49.541422
## 1622	48.082600
## 1623	23.712467
## 1624	9.876100
## 1625	6.029681
## 1626	8.209165
## 1627	33.188000
## 1628	45.223343
## 1629	76.114733
## 1630	162.676867
## 1631	182.420767
## 1632	220.637027
## 1633	235.898294
## 1634	310.095446
## 1635	320.799857
## 1636	252.737857
## 1637	238.873600
## 1638	156.977757

## 1639	109.423533
## 1640	76.712371
## 1641	63.458100
## 1642	48.586838
## 1643	34.042967
## 1644	12.250387
## 1645	4.162982
## 1646	2.697488
## 1647	2.651924
## 1648	10.255911
## 1649	49.676202
## 1650	163.967652
## 1651	297.967390
## 1652	178.208112
## 1653	97.653914
## 1654	98.921573
## 1655	118.737939
## 1656	106.127917
## 1657	96.214360
## 1658	113.474443
## 1659	170.575819
## 1660	286.469110
## 1661	259.048286
## 1662	196.928698
## 1663	134.598153
## 1664	100.773573
## 1665	62.866647
## 1666	39.509500
## 1667	19.440838
## 1668	9.896003
## 1669	4.677745
## 1670	2.120076
## 1671	10.302877
## 1672	42.744471
## 1673	139.638731
## 1674	342.732366
## 1675	198.769916
## 1676	89.237581
## 1677	89.531881
## 1678	106.199100
## 1679	96.716533
## 1680	100.777926
## 1681	111.810779
## 1682	128.089129
## 1683	223.707967
## 1684	213.631967
## 1685	152.827833
## 1686	101.585209
## 1687	62.381848
## 1688	38.915179
## 1689	29.472494
## 1690	7.750562
## 1691	4.922289
## 1692	2.552233

```

## 1693      1.599133
## 1694      8.106410
## 1695     44.170633
## 1696    149.660678
## 1697   309.979224
## 1698   167.317992
## 1699    87.510667
## 1700    94.557567
## 1701   127.683367
## 1702   126.453776
## 1703   113.114514
## 1704   106.848076
## 1705   158.960491
## 1706   249.390518
## 1707   254.700951
## 1708   193.934400
## 1709   134.763685
## 1710   104.100733
## 1711    74.682833
## 1712    45.279495
## 1713    25.194959
## 1714   12.120565
## 1715    6.598967
## 1716    2.795466
## 1717    2.915589
## 1718   15.541333
## 1719   60.715183
## 1720   192.928378
## 1721   353.060014
## 1722   191.975867
## 1723   104.678333
## 1724   115.103400
## 1725   140.105533
## 1726   151.750033
## 1727   140.619019
## 1728   152.372719
## 1729   197.558990
## 1730   363.684467
## 1731   304.186585
## 1732   224.116178
## 1733   157.738300
## 1734   145.640695
## 1735    91.451690
## 1736    56.850290
## 1737   30.079000
## 1738    16.475675
## 1739    10.643319
## 1740     4.191318
## 1741   15.069733
## 1742   62.149286
## 1743   188.653533
## 1744   332.631708
## 1745   237.766967
## 1746   134.181300

```

## 1747	170.750633
## 1748	205.750767
## 1749	197.110833
## 1750	205.359567
## 1751	198.372186
## 1752	279.745105
## 1753	465.203999
## 1754	525.056161
## 1755	342.982667
## 1756	245.994233
## 1757	184.368481
## 1758	144.907562
## 1759	96.120133
## 1760	81.434989
## 1761	56.169667
## 1762	41.599100
## 1763	19.222300
## 1764	8.023633
## 1765	8.470767
## 1766	14.816062
## 1767	31.641533
## 1768	99.005900
## 1769	107.746500
## 1770	155.373167
## 1771	206.380179
## 1772	245.676770
## 1773	315.727067
## 1774	326.636852
## 1775	345.234752
## 1776	361.721685
## 1777	296.286433
## 1778	228.607433
## 1779	177.037633
## 1780	122.085800
## 1781	85.091567
## 1782	72.168167
## 1783	54.698533
## 1784	45.574189
## 1785	34.866100
## 1786	33.029800
## 1787	13.972600
## 1788	4.710533
## 1789	7.271181
## 1790	4.987410
## 1791	18.458661
## 1792	48.680210
## 1793	93.721267
## 1794	142.623533
## 1795	213.238700
## 1796	250.709761
## 1797	245.120127
## 1798	281.556444
## 1799	286.516044
## 1800	261.639585

```
## 1801      215.326700
## 1802      164.874157
## 1803      113.900113
## 1804      81.349205
## 1805      57.966483
## 1806      50.887050
## 1807      32.997700
## 1808      13.507683
## 1809      7.924614
## 1810      6.192524
## 1811      2.373767
## 1812      7.582876
## 1813      43.559600
## 1814      67.951004
## 1815      189.572317
## 1816      161.200842
## 1817      82.519433
## 1818      101.156400
## 1819      100.966300
## 1820      127.385800
## 1821      124.320000
## 1822      163.056400
## 1823      209.664667
## 1824      373.337567
## 1825      374.239100
## 1826      319.755400
## 1827      229.908533
## 1828      115.349300
## 1829      94.233200
## 1830      52.911052
## 1831      25.598526
## 1832      16.832319
## 1833      6.087444
## 1834      4.361267
## 1835      2.577767
## 1836      18.831967
## 1837      72.092716
## 1838      222.856245
## 1839      361.453940
## 1840      204.386142
## 1841      132.744033
## 1842      130.659983
## 1843      163.162750
## 1844      147.401033
## 1845      168.635643
## 1846      161.766386
## 1847      239.384837
## 1848      415.468433
## 1849      375.405967
## 1850      216.565500
## 1851      160.108833
## 1852      117.130233
## 1853      91.594152
## 1854      55.333533
```

```

## 1855      15.050583
## 1856      7.616081
## 1857      4.857814
## 1858      2.664933
## 1859      9.854067
## 1860      48.220505
## 1861     153.913700
## 1862     268.848300
## 1863     168.415076
## 1864     76.980300
## 1865     87.765300
## 1866     86.940757
## 1867     92.848413
## 1868    102.041062
## 1869    100.420295
## 1870    169.622467
## 1871    330.966267
## 1872    201.147800
## 1873    178.351267
## 1874    70.418500
## 1875    34.764933
## 1876    54.943524
## 1877    29.374700
## 1878    12.019576
## 1879     5.939843
## 1880     5.718690
## 1881     1.641800
## 1882     1.515867
## 1883     9.775881
## 1884    45.337605
## 1885   104.302288
## 1886   118.412629
## 1887   118.903466
## 1888   70.819733
## 1889   79.026933
## 1890   97.237302
## 1891   101.873868
## 1892   101.849078
## 1893   93.292213
## 1894   111.200465
## 1895   212.416363
## 1896   213.537652
## 1897   149.881752
## 1898   114.568500
## 1899   79.881179
## 1900   62.707821
## 1901   36.612700
## 1902   16.697081
## 1903    5.542733
## 1904    4.415495
## 1905    2.969233
## 1906    3.554933
## 1907   10.148967
## 1908   46.841494

```

## 1909	139.362760
## 1910	310.767111
## 1911	181.190757
## 1912	102.858267
## 1913	95.287076
## 1914	134.896576
## 1915	142.472910
## 1916	135.323733
## 1917	124.958435
## 1918	150.948268
## 1919	230.127100
## 1920	207.633152
## 1921	160.498486
## 1922	101.043433
## 1923	89.052900
## 1924	55.572552
## 1925	38.968100
## 1926	33.432967
## 1927	31.861867
## 1928	26.119724
## 1929	11.843133
## 1930	6.037033
## 1931	7.143567
## 1932	12.155622
## 1933	37.436642
## 1934	70.664542
## 1935	108.413805
## 1936	140.339133
## 1937	164.546200
## 1938	199.644200
## 1939	216.192600
## 1940	218.776033
## 1941	219.761600
## 1942	232.240833
## 1943	194.987400
## 1944	168.843567
## 1945	130.203233
## 1946	84.179867
## 1947	53.226567
## 1948	57.198186
## 1949	39.037767
## 1950	37.559800
## 1951	26.369790
## 1952	22.624567
## 1953	13.120900
## 1954	5.543024
## 1955	7.074044
## 1956	31.535167
## 1957	40.652875
## 1958	81.737262
## 1959	102.154067
## 1960	127.012067
## 1961	161.589910
## 1962	174.056333

## 1963	181.342300
## 1964	182.502767
## 1965	184.272550
## 1966	175.786833
## 1967	143.909500
## 1968	129.119600
## 1969	74.880433
## 1970	47.085667
## 1971	45.582252
## 1972	33.273667
## 1973	13.441714
## 1974	6.310661
## 1975	4.752681
## 1976	2.541276
## 1977	10.833514
## 1978	51.433408
## 1979	150.698660
## 1980	310.939611
## 1981	152.941657
## 1982	91.953533
## 1983	75.283944
## 1984	96.653944
## 1985	87.646602
## 1986	98.862476
## 1987	91.212867
## 1988	149.022634
## 1989	263.252267
## 1990	236.528750
## 1991	177.146952
## 1992	121.438819
## 1993	94.577119
## 1994	53.275597
## 1995	32.952100
## 1996	16.706452
## 1997	4.916681
## 1998	4.714662
## 1999	3.406124
## 2000	2.336800
## 2001	12.347681
## 2002	58.852636
## 2003	173.336626
## 2004	336.534461
## 2005	183.567700
## 2006	82.395310
## 2007	97.086867
## 2008	125.520600
## 2009	107.626800
## 2010	104.953400
## 2011	117.992900
## 2012	171.271311
## 2013	374.639383
## 2014	283.854567
## 2015	207.350767
## 2016	156.279986

```
## 2017      99.365300
## 2018      75.645119
## 2019      47.887367
## 2020      16.518176
## 2021      10.643633
## 2022      5.077400
## 2023      3.800333
## 2024      2.417467
## 2025      13.173062
## 2026      65.026316
## 2027      192.386538
## 2028      320.728367
## 2029      174.142100
## 2030      87.896278
## 2031      91.679178
## 2032      107.721144
## 2033      103.429400
## 2034      93.735829
## 2035      83.874452
## 2036      59.808100
## 2037      116.387905
## 2038      113.969494
## 2039      98.745928
## 2040      57.641352
## 2041      45.351217
## 2042      30.108100
## 2043      20.044767
## 2044      6.055495
## 2045      5.053129
## 2046      4.882295
## 2047      1.824129
## 2048      2.208329
## 2049      8.475929
## 2050      33.112500
## 2051      102.329926
## 2052      212.041567
## 2053      109.259429
## 2054      75.897119
## 2055      71.304152
## 2056      75.822452
## 2057      79.346986
## 2058      76.670086
## 2059      66.113919
## 2060      97.058368
## 2061      160.342778
## 2062      168.916900
## 2063      146.408133
## 2064      72.178733
## 2065      60.976474
## 2066      42.325467
## 2067      29.727767
## 2068      7.617467
## 2069      4.848100
## 2070      6.103433
```

```

## 2071      3.065700
## 2072      2.926867
## 2073      9.947229
## 2074     32.321964
## 2075    120.405383
## 2076    233.933933
## 2077    206.121761
## 2078     98.908333
## 2079   106.094767
## 2080   112.555333
## 2081   122.111386
## 2082   110.289795
## 2083   120.362300
## 2084   156.515940
## 2085   267.325333
## 2086   258.815433
## 2087   178.462600
## 2088   118.699156
## 2089   106.717600
## 2090    73.306244
## 2091    53.698400
## 2092   39.909567
## 2093   32.349000
## 2094   23.452390
## 2095   12.297567
## 2096    5.456200
## 2097    5.286300
## 2098   16.575767
## 2099   34.155000
## 2100   72.571508
## 2101   130.405676
## 2102   179.045260
## 2103   274.034283
## 2104   167.611467
## 2105   165.417324
## 2106   155.001633
## 2107   138.145543
## 2108   233.841400
## 2109   213.841667
## 2110   190.467867
## 2111   161.858100
## 2112    97.914900
## 2113    83.508067
## 2114    63.729567
## 2115    56.530071
## 2116    39.560301
## 2117    36.239967
## 2118    26.391190
## 2119    15.599367
## 2120     5.932133
## 2121     5.596600
## 2122    25.879910
## 2123    43.721576
## 2124    89.305364

```

```
## 2125      154.366176
## 2126      228.712000
## 2127      298.893817
## 2128      344.986600
## 2129      371.981943
## 2130      375.382483
## 2131      324.100700
## 2132      325.718222
## 2133      276.522122
## 2134      220.574033
## 2135      198.530500
## 2136      122.587733
## 2137      91.602467
## 2138      78.004931
## 2139      66.728100
## 2140      23.250408
## 2141      13.900394
## 2142      5.600652
## 2143      2.214383
## 2144      2.178205
## 2145      15.507129
## 2146      74.805061
## 2147      223.405067
## 2148      372.481862
## 2149      206.617533
## 2150      126.452444
## 2151      162.241872
## 2152      196.303113
## 2153      184.029146
## 2154      170.510833
## 2155      171.162979
## 2156      270.839829
## 2157      453.154167
## 2158      458.846500
## 2159      360.563202
## 2160      233.393467
## 2161      161.196833
## 2162      113.543206
## 2163      80.488133
## 2164      30.968452
## 2165      17.716133
## 2166      7.910000
## 2167      4.639300
## 2168      3.795744
## 2169      9.704000
## 2170      65.193617
## 2171      190.207322
## 2172      144.254114
## 2173      65.922733
## 2174      46.535700
## 2175      47.441300
## 2176      69.063700
## 2177      77.998267
## 2178      97.565410
```

```
## 2179      130.559300
## 2180      162.757807
## 2181      389.808914
## 2182      291.280367
## 2183      200.549400
## 2184      130.065222
## 2185      109.676767
## 2186      65.225844
## 2187      41.814400
## 2188      22.597868
## 2189      5.954533
## 2190      5.308800
## 2191      3.904657
## 2192      1.935976
## 2193      14.496502
## 2194      67.478217
## 2195      200.845156
## 2196      454.618954
## 2197      224.028707
## 2198      145.028857
## 2199      157.819780
## 2200      186.484050
## 2201      177.649859
## 2202      181.929211
## 2203      187.767380
## 2204      268.849629
## 2205      490.702695
## 2206      466.048803
## 2207      348.654765
## 2208      182.944256
## 2209      140.471206
## 2210      112.538133
## 2211      63.211202
## 2212      31.662978
## 2213      16.529696
## 2214      7.833162
## 2215      3.273757
## 2216      2.293760
## 2217      11.837608
## 2218      65.030851
## 2219      208.720893
## 2220      414.837677
## 2221      199.267120
## 2222      121.834311
## 2223      151.651300
## 2224      170.998281
## 2225      172.933876
## 2226      179.974565
## 2227      197.501317
## 2228      259.797600
## 2229      421.425100
## 2230      360.131143
## 2231      249.881267
## 2232      209.500843
```

```
## 2233      123.072833
## 2234      93.958200
## 2235      60.617700
## 2236      22.249767
## 2237      9.420548
## 2238      8.446914
## 2239      2.543500
## 2240      2.016788
## 2241      10.614933
## 2242      52.131567
## 2243      136.791807
## 2244      187.722948
## 2245      200.668982
## 2246      81.355344
## 2247      118.143733
## 2248      103.055633
## 2249      72.735900
## 2250      35.309579
## 2251      40.331090
## 2252      86.565850
## 2253      99.266019
## 2254      79.124200
## 2255      61.932567
## 2256      79.021050
## 2257      59.830450
## 2258      52.040817
## 2259      41.386800
## 2260      30.803633
## 2261      25.458950
## 2262      22.588656
## 2263      11.676400
## 2264      4.585833
## 2265      5.348778
## 2266      14.075733
## 2267      29.000656
## 2268      67.168257
## 2269      120.357379
## 2270      143.986333
## 2271      177.890321
## 2272      197.096586
## 2273      200.402338
## 2274      202.674536
## 2275      193.436810
## 2276      216.106343
## 2277      219.827533
## 2278      185.146067
## 2279      146.174167
## 2280      98.180233
## 2281      77.470033
## 2282      76.205667
## 2283      56.777500
## 2284      56.560383
## 2285      43.517183
## 2286      38.401222
```

## 2287	17.809110
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## 2289	5.607578
## 2290	14.821667
## 2291	32.215281
## 2292	82.686138
## 2293	112.209060
## 2294	183.966233
## 2295	217.639724
## 2296	255.142800
## 2297	280.881833
## 2298	312.885100
## 2299	311.703833
## 2300	293.734867
## 2301	278.322600
## 2302	256.462800
## 2303	209.142000
## 2304	124.488867
## 2305	93.913100
## 2306	73.134767
## 2307	49.930486
## 2308	26.918892
## 2309	9.399350
## 2310	9.984786
## 2311	2.971850
## 2312	16.181823
## 2313	76.759488
## 2314	210.631684
## 2315	385.575652
## 2316	184.982478
## 2317	105.060607
## 2318	127.003067
## 2319	152.814257
## 2320	153.030567
## 2321	160.790769
## 2322	164.511515
## 2323	262.945708
## 2324	480.308267
## 2325	457.996167
## 2326	348.371467
## 2327	214.319200
## 2328	192.160619
## 2329	124.358600
## 2330	75.098933
## 2331	30.319519
## 2332	19.432882
## 2333	11.987050
## 2334	4.130000
## 2335	6.058667
## 2336	19.780800
## 2337	80.511017
## 2338	243.795429
## 2339	256.196300
## 2340	89.673700

```
## 2341      73.621617
## 2342     101.308167
## 2343     127.405867
## 2344    120.149157
## 2345      94.258329
## 2346    100.231267
## 2347    154.712933
## 2348    251.237167
## 2349    244.412600
## 2350    181.375633
## 2351    129.798856
## 2352    123.496100
## 2353      65.733000
## 2354      57.013667
## 2355     17.351883
## 2356      5.599876
## 2357      4.092267
## 2358      2.635333
## 2359      2.862100
## 2360      8.794533
## 2361     44.636967
## 2362     88.711504
## 2363    180.748562
## 2364   111.181990
## 2365     91.954311
## 2366     98.249144
## 2367     89.068133
## 2368    106.133059
## 2369    103.410211
## 2370     98.090378
## 2371   194.062733
## 2372    329.266867
## 2373    339.508800
## 2374    224.743700
## 2375    171.572289
## 2376    141.427000
## 2377    122.717335
## 2378     84.284533
## 2379     25.514183
## 2380     12.974834
## 2381      4.250422
## 2382      2.889889
## 2383      6.234548
## 2384     15.852399
## 2385     75.502827
## 2386    272.622534
## 2387    434.671646
## 2388    230.163207
## 2389   123.921211
## 2390   157.270101
## 2391   189.558067
## 2392   206.543750
## 2393   170.503782
## 2394   188.368117
```

```
## 2395      275.379566
## 2396      541.079300
## 2397      459.219633
## 2398      343.798145
## 2399      215.933428
## 2400      162.521943
## 2401      131.445733
## 2402      78.500357
## 2403      45.175767
## 2404      29.507905
## 2405      25.382338
## 2406      10.044911
## 2407      6.331133
## 2408      11.740933
## 2409      50.095900
## 2410      155.834742
## 2411      267.424333
## 2412      203.111567
## 2413      190.948167
## 2414      190.681012
## 2415      204.172579
## 2416      194.498888
## 2417      193.235655
## 2418      204.201321
## 2419      286.072421
## 2420      343.895233
## 2421      280.184600
## 2422      219.302500
## 2423      132.610200
## 2424      107.853967
## 2425      81.519767
## 2426      62.130233
## 2427      50.014767
## 2428      40.503083
## 2429      34.425989
## 2430      17.528443
## 2431      5.018479
## 2432      5.158578
## 2433      13.767633
## 2434      47.086410
## 2435      57.522558
## 2436      45.743958
## 2437      35.962458
## 2438      36.342733
## 2439      116.990467
## 2440      67.492167
## 2441      82.570967
## 2442      89.955400
## 2443      70.454400
## 2444      63.402567
## 2445      102.128767
## 2446      120.987100
## 2447      70.038633
## 2448      61.684000
```

```
## 2449      41.193333
## 2450      60.577400
## 2451      58.730033
## 2452      49.728467
## 2453      41.988744
## 2454      26.272044
## 2455      9.596544
## 2456      6.206800
## 2457      19.671767
## 2458      47.982909
## 2459      87.162307
## 2460      160.648322
## 2461      234.993967
## 2462      303.519683
## 2463      351.372750
## 2464      374.802326
## 2465      401.937193
## 2466      412.685429
## 2467      424.722671
## 2468      365.750233
## 2469      341.018633
## 2470      279.301467
## 2471      204.167819
## 2472      140.094190
## 2473      111.639081
## 2474      80.784371
## 2475      41.158008
## 2476      19.621591
## 2477      11.577533
## 2478      5.868367
## 2479      4.720717
## 2480      20.244641
## 2481      82.785437
## 2482      253.019532
## 2483      436.114779
## 2484      211.364967
## 2485      133.665778
## 2486      148.667733
## 2487      188.345800
## 2488      180.210290
## 2489      185.615571
## 2490      219.374948
## 2491      266.248072
## 2492      523.677733
## 2493      481.752383
## 2494      384.366540
## 2495      261.718100
## 2496      191.462052
## 2497      126.130633
## 2498      70.214148
## 2499      32.110991
## 2500      13.616179
## 2501      12.641094
## 2502      4.398333
```

```
## 2503      5.318600
## 2504     19.120100
## 2505     88.815183
## 2506    253.582848
## 2507   423.574889
## 2508   181.780052
## 2509   107.468879
## 2510   128.730811
## 2511   137.329559
## 2512   133.184178
## 2513   125.245578
## 2514   139.488611
## 2515   253.436106
## 2516   509.094531
## 2517   456.165533
## 2518   319.722433
## 2519   215.139522
## 2520   155.709200
## 2521   126.217067
## 2522    54.781719
## 2523    33.044861
## 2524   10.012219
## 2525    5.916928
## 2526    3.751029
## 2527    6.648562
## 2528   16.557798
## 2529   80.377032
## 2530   305.961779
## 2531   447.552275
## 2532   219.984638
## 2533   140.702044
## 2534   157.057352
## 2535   174.794077
## 2536   176.052843
## 2537   170.953113
## 2538   178.169567
## 2539   306.852637
## 2540   496.565033
## 2541   465.689633
## 2542   440.617714
## 2543   288.211060
## 2544   189.871819
## 2545   138.868500
## 2546   101.087943
## 2547    44.333519
## 2548   21.240184
## 2549   13.709110
## 2550    7.252283
## 2551    6.801400
## 2552   17.090600
## 2553   82.900433
## 2554  231.219129
## 2555  370.157029
## 2556  222.092767
```

## 2557	140.530957
## 2558	164.994072
## 2559	219.739266
## 2560	231.409908
## 2561	203.844100
## 2562	258.577796
## 2563	320.258948
## 2564	610.487424
## 2565	554.116202
## 2566	369.058813
## 2567	244.561482
## 2568	198.540427
## 2569	142.935920
## 2570	95.998178
## 2571	28.583335
## 2572	21.369764
## 2573	8.016357
## 2574	3.463948
## 2575	3.756867
## 2576	18.517943
## 2577	65.374245
## 2578	225.567255
## 2579	368.386606
## 2580	201.484033
## 2581	132.525778
## 2582	102.700383
## 2583	97.142533
## 2584	57.351797
## 2585	39.602379
## 2586	62.548841
## 2587	87.011819
## 2588	88.144152
## 2589	69.291971
## 2590	66.624838
## 2591	55.250033
## 2592	38.527933
## 2593	30.878200
## 2594	25.363200
## 2595	25.572090
## 2596	22.335557
## 2597	21.246822
## 2598	9.324900
## 2599	6.393095
## 2600	6.980833
## 2601	13.920348
## 2602	40.964062
## 2603	70.130233
## 2604	89.431712
## 2605	181.341267
## 2606	227.411500
## 2607	286.613900
## 2608	292.505733
## 2609	366.104733
## 2610	398.313005

```
## 2611      402.073600
## 2612      386.385471
## 2613      336.579733
## 2614      269.704333
## 2615      191.326833
## 2616      162.050433
## 2617      168.324500
## 2618      105.693100
## 2619      106.633333
## 2620      68.716633
## 2621      65.204367
## 2622      25.671578
## 2623      8.543890
## 2624      9.705479
## 2625      22.954562
## 2626      58.913224
## 2627      134.606050
## 2628      193.846767
## 2629      310.780967
## 2630      367.958033
## 2631      397.676900
## 2632      444.545800
## 2633      477.444100
## 2634      408.846650
## 2635      415.620800
## 2636      391.946300
## 2637      340.374138
## 2638      200.244300
## 2639      132.435533
## 2640      73.424833
## 2641      47.903400
## 2642      50.566733
## 2643      19.980167
## 2644      14.417133
## 2645      11.193552
## 2646      8.045800
## 2647      5.778000
## 2648      19.286500
## 2649      82.576821
## 2650      244.700114
## 2651      437.914767
## 2652      231.465761
## 2653      140.075211
## 2654      156.566519
## 2655      187.641156
## 2656      205.057869
## 2657      183.491302
## 2658      197.180735
## 2659      272.769945
## 2660      566.865722
## 2661      512.115931
## 2662      402.268339
## 2663      286.113095
## 2664      208.557919
```

```
## 2665      140.031000
## 2666      87.064110
## 2667      39.399327
## 2668      20.352667
## 2669      17.430633
## 2670      12.196833
## 2671      6.773833
## 2672      19.077532
## 2673      91.584873
## 2674      302.925985
## 2675      428.772046
## 2676      206.173144
## 2677      132.453033
## 2678      169.950369
## 2679      182.299331
## 2680      175.928515
## 2681      164.875115
## 2682      162.090548
## 2683      274.203802
## 2684      522.014181
## 2685      532.490181
## 2686      330.729900
## 2687      270.846714
## 2688      206.548067
## 2689      157.297467
## 2690      87.411533
## 2691      36.786475
## 2692      21.335110
## 2693      9.566626
## 2694      8.195367
## 2695      6.733643
## 2696      18.178895
## 2697      86.444971
## 2698      247.925431
## 2699      414.858681
## 2700      195.297486
## 2701      96.310661
## 2702      144.243114
## 2703      170.437602
## 2704      156.957056
## 2705      167.150122
## 2706      157.458365
## 2707      253.408535
## 2708      424.324267
## 2709      416.756200
## 2710      298.740533
## 2711      237.689010
## 2712      157.362267
## 2713      117.716033
## 2714      87.898310
## 2715      52.921099
## 2716      19.907800
## 2717      16.859767
## 2718      5.336767
```

## 2719	8.649733
## 2720	18.947433
## 2721	87.420100
## 2722	259.681333
## 2723	427.813959
## 2724	179.065533
## 2725	96.309975
## 2726	100.520261
## 2727	137.796533
## 2728	126.627383
## 2729	141.956329
## 2730	166.997918
## 2731	269.190289
## 2732	515.287938
## 2733	499.840317
## 2734	421.383497
## 2735	306.144183
## 2736	217.952095
## 2737	161.121010
## 2738	117.981574
## 2739	43.341676
## 2740	28.320458
## 2741	11.128594
## 2742	5.208383
## 2743	6.020167
## 2744	24.400356
## 2745	98.927933
## 2746	311.189133
## 2747	470.626267
## 2748	260.773400
## 2749	160.867762
## 2750	175.047015
## 2751	237.351544
## 2752	260.568367
## 2753	227.125405
## 2754	240.824100
## 2755	294.868956
## 2756	472.911700
## 2757	438.500321
## 2758	258.441767
## 2759	206.942562
## 2760	191.915210
## 2761	139.225101
## 2762	101.041700
## 2763	91.333967
## 2764	73.274167
## 2765	59.055833
## 2766	21.650893
## 2767	8.103800
## 2768	8.662333
## 2769	22.068238
## 2770	52.174252
## 2771	96.615031
## 2772	183.512367

```
## 2773      302.112400
## 2774      368.349900
## 2775      415.518067
## 2776      474.240412
## 2777      479.495645
## 2778      541.514457
## 2779      468.584971
## 2780      404.234800
## 2781      383.359789
## 2782      357.727089
## 2783      190.164410
## 2784      165.286767
## 2785      139.237900
## 2786      100.274300
## 2787      86.425900
## 2788      62.105200
## 2789      53.304400
## 2790      23.822438
## 2791      12.194210
## 2792      9.465488
## 2793      14.299033
## 2794      48.446967
## 2795      98.882175
## 2796      175.733267
## 2797      282.833929
## 2798      265.515571
## 2799      290.772567
## 2800      352.255533
## 2801      287.376900
## 2802      287.544133
## 2803      266.089500
## 2804      219.154419
## 2805      190.063805
## 2806      179.140605
## 2807      124.912288
## 2808      112.877217
## 2809      108.314217
## 2810      114.732891
## 2811      100.990169
## 2812      58.145515
## 2813      21.979750
## 2814      11.810469
## 2815      11.930952
## 2816      22.771022
## 2817      98.026743
## 2818      248.097788
## 2819      468.125210
## 2820      208.184352
## 2821      133.518967
## 2822      154.201251
## 2823      206.373419
## 2824      200.501233
## 2825      195.390514
## 2826      228.582392
```

```
## 2827      303.808792
## 2828      578.732401
## 2829      553.049767
## 2830      376.245476
## 2831      266.782987
## 2832      239.604267
## 2833      148.224633
## 2834      80.702000
## 2835      28.270734
## 2836      14.205969
## 2837      8.363906
## 2838      5.019100
## 2839      5.311262
## 2840      20.965388
## 2841      110.827699
## 2842      265.008169
## 2843      462.631696
## 2844      199.049467
## 2845      145.552662
## 2846      174.643283
## 2847      212.688721
## 2848      193.035021
## 2849      172.793987
## 2850      169.072854
## 2851      315.175631
## 2852      597.603129
## 2853      576.740476
## 2854      411.034460
## 2855      313.808369
## 2856      213.023000
## 2857      137.252367
## 2858      87.535300
## 2859      32.586837
## 2860      10.422850
## 2861      5.843945
## 2862      2.765800
## 2863      3.381967
## 2864      12.533953
## 2865      37.144430
## 2866      76.587126
## 2867      94.915000
## 2868      61.506400
## 2869      58.931833
## 2870      105.484961
## 2871      136.443667
## 2872      144.106300
## 2873      145.860200
## 2874      151.917967
## 2875      241.963317
## 2876      384.488340
## 2877      386.157533
## 2878      286.410167
## 2879      187.620383
## 2880      162.087033
```

```

## 2881      107.621486
## 2882      68.133500
## 2883      34.480221
## 2884      14.929167
## 2885      7.351967
## 2886      5.495567
## 2887      5.764333
## 2888      25.485700
## 2889      91.855212
## 2890      294.888496
## 2891      468.277144
## 2892      223.684319
## 2893      159.460572
## 2894      188.414633
## 2895      212.771281
## 2896      225.973995
## 2897      210.111958
## 2898      203.674767
## 2899      331.711083
## 2900      603.003190
## 2901      564.567905
## 2902      409.501103
## 2903      276.430738
## 2904      202.933263
## 2905      157.717067
## 2906      111.326211
## 2907      56.790131
## 2908      30.456833
## 2909      13.693876
## 2910      6.928424
## 2911      4.954957
## 2912      17.652504
## 2913      88.293955
## 2914      277.925963
## 2915      451.203359
## 2916      212.713795
## 2917      143.862060
## 2918      174.617810
## 2919      243.196300
## 2920      252.709448
## 2921      230.635991
## 2922      254.439000
## 2923      358.699910
## 2924      584.477200
## 2925      466.742733
## 2926      345.987333
## 2927      253.874417
## 2928      158.336300
## 2929      136.383786
## 2930      110.189000
## 2931      84.369833
## 2932      62.529367
## 2933      52.737100
## 2934      23.475367

```

## 2935	8.416310
## 2936	8.363800
## 2937	22.625514
## 2938	63.104619
## 2939	147.182929
## 2940	232.018883
## 2941	356.781992
## 2942	407.936852
## 2943	419.543800
## 2944	466.279556
## 2945	414.659467
## 2946	426.241300
## 2947	422.952143
## 2948	389.641100
## 2949	363.202567
## 2950	315.116205
## 2951	254.379862
## 2952	194.711367
## 2953	156.193067
## 2954	127.143600
## 2955	110.524062
## 2956	82.400314
## 2957	61.125362
## 2958	28.900733
## 2959	9.556167
## 2960	8.063964
## 2961	14.669500
## 2962	52.298050
## 2963	127.447021
## 2964	213.593745
## 2965	326.471734
## 2966	376.803076
## 2967	413.595476
## 2968	402.961362
## 2969	385.832071
## 2970	383.007738
## 2971	406.555376
## 2972	381.861243
## 2973	328.070100
## 2974	274.650005
## 2975	198.164467
## 2976	158.622667
## 2977	116.020533
## 2978	69.522124
## 2979	55.900394
## 2980	27.186100
## 2981	9.004857
## 2982	7.625356
## 2983	5.767185
## 2984	25.189749
## 2985	114.651459
## 2986	298.057002
## 2987	496.307243
## 2988	241.425581

## 2989	150.254950
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## 2993	204.679310
## 2994	210.171976
## 2995	363.331233
## 2996	640.714400
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## 2999	270.647648
## 3000	199.684348
## 3001	150.050370
## 3002	89.275740
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## 3004	27.720433
## 3005	10.804109
## 3006	5.832817
## 3007	4.186014
## 3008	26.388530
## 3009	117.766971
## 3010	310.650991
## 3011	466.482510
## 3012	221.468967
## 3013	155.271800
## 3014	165.675833
## 3015	228.884667
## 3016	215.995367
## 3017	207.808133
## 3018	211.994600
## 3019	350.480148
## 3020	618.753167
## 3021	622.171800
## 3022	439.831842
## 3023	311.866429
## 3024	222.279157
## 3025	168.361803
## 3026	103.841867
## 3027	41.827459
## 3028	23.268256
## 3029	12.617009
## 3030	4.239033
## 3031	3.114612
## 3032	21.784151
## 3033	118.415703
## 3034	350.944353
## 3035	463.557593
## 3036	243.723533
## 3037	161.194395
## 3038	164.776029
## 3039	229.151867
## 3040	216.277013
## 3041	199.210722
## 3042	226.117933

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## 3043      324.689667
## 3044      466.530600
## 3045      451.080019
## 3046      407.082043
## 3047      279.936695
## 3048      225.427290
## 3049      148.959655
## 3050      79.687033
## 3051      42.638723
## 3052      20.205967
## 3053      13.380676
## 3054      6.213433
## 3055      5.374285
## 3056      25.385612
## 3057      103.898297
## 3058      345.161413
## 3059      478.266558
## 3060      208.184352
## 3061      154.562005
## 3062      194.686781
## 3063      222.043014
## 3064      229.953554
## 3065      205.094954
## 3066      238.335224
## 3067      309.565195
## 3068      602.324233
## 3069      552.970750
## 3070      388.427867
## 3071      287.750271
## 3072      203.287867
## 3073      179.042784
## 3074      95.382300
## 3075      42.167601
## 3076      22.735869
## 3077      9.279722
## 3078      4.640200
## 3079      4.622704
## 3080      23.961182
## 3081      69.474091
## 3082      175.155645
## 3083      457.595286
## 3084      269.235700
## 3085      149.979843
## 3086      150.113205
## 3087      206.764459
## 3088      190.403767
## 3089      182.401992
## 3090      196.700992
## 3091      276.006710
## 3092      386.506733
## 3093      381.856700
## 3094      313.514633
## 3095      209.424900
## 3096      167.012100
```

```

## 3097      145.578333
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## 3100      80.158386
## 3101      57.907419
## 3102      31.198271
## 3103      8.605379
## 3104      10.803678
## 3105      16.404467
## 3106      81.941362
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## 3108      153.755967
## 3109      209.884548
## 3110      242.790148
## 3111      245.046881
## 3112      242.914048
## 3113      248.153014
## 3114      266.704681
## 3115      268.774895
## 3116      264.766000
## 3117      268.478200
## 3118      217.367500
## 3119      165.720367
## 3120      81.143900
## 3121      43.356833
## 3122      54.292067
## 3123      67.689467
## 3124      61.284867
## 3125      53.223967
## 3126      31.043633
## 3127      13.780000
## 3128      12.692338
## 3129      18.086267
## 3130      49.837757
## 3131      97.341110
## 3132      185.225617
## 3133      255.001462
## 3134      335.675233
## 3135      396.254800
## 3136      417.816233
## 3137      420.965600
## 3138      426.478433
## 3139      419.036700
## 3140      353.029567
## 3141      297.193867
## 3142      256.915267
## 3143      207.860557
## 3144      149.909300
## 3145      134.669967
## 3146      81.631934
## 3147      33.923494
## 3148      14.882367
## 3149      12.139762
## 3150      4.971900

```

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## 3151      5.701792
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## 3155   478.317306
## 3156  233.148129
## 3157  150.648800
## 3158  208.596400
## 3159  225.641317
## 3160  225.281265
## 3161  207.877442
## 3162  212.807261
## 3163  240.752741
## 3164  311.743779
## 3165  396.223700
## 3166  322.797633
## 3167  228.252667
## 3168  189.110833
## 3169  120.940233
## 3170    86.808117
## 3171   33.684075
## 3172  15.402145
## 3173    7.920695
## 3174   4.670535
## 3175   4.370373
## 3176  17.744082
## 3177  50.871382
## 3178  204.098702
## 3179  422.247867
## 3180  229.439081
## 3181   99.271941
## 3182  127.572210
## 3183  136.713022
## 3184  169.544900
## 3185  186.139713
## 3186  194.764357
## 3187  293.686262
## 3188  589.048643
## 3189  525.190116
## 3190  382.102962
## 3191  255.473133
## 3192  168.629833
## 3193  108.145500
## 3194   71.420376
## 3195  27.537344
## 3196  14.019474
## 3197   6.825398
## 3198   5.778224
## 3199   4.907395
## 3200   15.473934
## 3201  102.908316
## 3202  320.143740
## 3203  442.688468
## 3204  196.350422
```

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## 3205      103.164358
## 3206      76.918200
## 3207      91.839376
## 3208      147.485367
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## 3210      176.197556
## 3211      318.456290
## 3212      585.191612
## 3213      589.153283
## 3214      295.508495
## 3215      208.234576
## 3216      133.477467
## 3217      139.797836
## 3218      73.750083
## 3219      33.923494
## 3220      12.629567
## 3221      12.144626
## 3222      5.457951
## 3223      5.035409
## 3224      24.580958
## 3225      106.526432
## 3226      275.384169
## 3227      545.022715
## 3228      279.642421
## 3229      149.799871
## 3230      139.064961
## 3231      199.943371
## 3232      190.244547
## 3233      175.106063
## 3234      201.806789
## 3235      319.806024
## 3236      537.259979
## 3237      563.383424
## 3238      417.979561
## 3239      314.124733
## 3240      209.734550
## 3241      88.120883
## 3242      78.707233
## 3243      45.351343
## 3244      21.757400
## 3245      9.061733
## 3246      5.398700
## 3247      5.142413
## 3248      26.787845
## 3249      123.814393
## 3250      369.720386
## 3251      581.630481
## 3252      241.139533
## 3253      155.775429
## 3254      198.871900
## 3255      252.272822
## 3256      220.768541
## 3257      210.932505
## 3258      238.587322
```

```
## 3259      348.379462
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## 3261      535.391800
## 3262      366.037678
## 3263      258.617778
## 3264      230.421271
## 3265      168.064636
## 3266      122.587234
## 3267      111.585133
## 3268      82.716098
## 3269      55.991029
## 3270      24.278865
## 3271      6.581467
## 3272      7.092767
## 3273      25.451609
## 3274      59.522614
## 3275      134.877188
## 3276      242.237879
## 3277      350.421120
## 3278      438.526700
## 3279      487.319542
## 3280      485.203457
## 3281      498.414311
## 3282      502.381714
## 3283      517.926838
## 3284      450.168800
## 3285      427.070400
## 3286      343.067438
## 3287      253.399967
## 3288      228.576300
## 3289      197.339333
## 3290      133.697715
## 3291      117.346167
## 3292      83.237333
## 3293      60.685495
## 3294      29.648586
## 3295      11.889545
## 3296      9.014042
## 3297      20.554533
## 3298      57.661324
## 3299      122.809717
## 3300      226.981912
## 3301      339.502244
## 3302      422.007900
## 3303      424.815500
## 3304      485.333567
## 3305      338.602067
## 3306      385.820467
## 3307      354.287505
## 3308      367.837500
## 3309      380.026200
## 3310      333.424838
## 3311      253.034717
## 3312      178.481367
```

```

## 3313      145.152567
## 3314      93.218367
## 3315      34.514177
## 3316      16.063060
## 3317      5.758495
## 3318      4.237452
## 3319      4.822111
## 3320      19.137289
## 3321      98.430237
## 3322      298.855483
## 3323      456.199038
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## 3325      142.766867
## 3326      179.788200
## 3327      206.573490
## 3328      201.476021
## 3329      182.382721
## 3330      183.335554
## 3331      289.409800
## 3332      411.489200
## 3333      507.385067
## 3334      380.854427
## 3335      281.936867
## 3336      192.771778
## 3337      140.644662
## 3338      85.892681
## 3339      33.855058
## 3340      15.098090
## 3341      10.855181
## 3342      4.350700
## 3343      4.500740
## 3344      22.371413
## 3345      115.785755
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## 3347      353.788367
## 3348      210.330789
## 3349      131.495850
## 3350      174.693514
## 3351      200.668400
## 3352      202.623567
## 3353      190.907867
## 3354      199.093500
## 3355      304.626981
## 3356      606.834065
## 3357      544.774088
## 3358      387.624479
## 3359      295.086377
## 3360      219.477648
## 3361      107.574800
## 3362      90.292233
## 3363      33.075281
## 3364      11.685383
## 3365      9.753629
## 3366      7.283033

```

```
## 3367      4.863340
## 3368     26.449366
## 3369    127.540648
## 3370    341.738856
## 3371    529.523729
## 3372    258.791867
## 3373   158.016367
## 3374   168.711681
## 3375   231.860448
## 3376   229.300898
## 3377   214.312817
## 3378   224.223933
## 3379   344.510319
## 3380   702.812536
## 3381   578.838150
## 3382   454.230757
## 3383   335.553583
## 3384   243.934837
## 3385   180.783341
## 3386   104.165193
## 3387   57.727388
## 3388   23.236657
## 3389   12.621874
## 3390   4.676295
## 3391   4.092940
## 3392   27.880624
## 3393   100.733593
## 3394   280.526797
## 3395   526.679871
## 3396   234.006300
## 3397   153.785267
## 3398   180.229214
## 3399   207.992400
## 3400   200.446854
## 3401   197.629221
## 3402   172.604978
## 3403   334.540600
## 3404   557.329576
## 3405   550.275133
## 3406   434.259532
## 3407   333.843366
## 3408   232.455767
## 3409   179.255828
## 3410   108.855252
## 3411   61.646494
## 3412   36.751233
## 3413   15.235342
## 3414    9.630933
## 3415    7.453400
## 3416   31.319791
## 3417   108.168500
## 3418   321.678356
## 3419   461.307140
## 3420   233.955967
```

## 3421	152.227883
## 3422	175.121648
## 3423	233.050389
## 3424	240.524440
## 3425	236.106636
## 3426	288.830367
## 3427	377.738567
## 3428	533.562667
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## 3430	283.074000
## 3431	247.992339
## 3432	183.430467
## 3433	165.704145
## 3434	108.898410
## 3435	110.267400
## 3436	71.742443
## 3437	56.047345
## 3438	22.399430
## 3439	7.255000
## 3440	8.945533
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## 3443	122.433026
## 3444	215.048850
## 3445	315.181504
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## 3447	414.796817
## 3448	406.676089
## 3449	424.650231
## 3450	415.957909
## 3451	438.229967
## 3452	409.923700
## 3453	373.527138
## 3454	292.021321
## 3455	234.763400
## 3456	203.656533
## 3457	169.150790
## 3458	126.138369
## 3459	98.451122
## 3460	71.766510
## 3461	63.095190
## 3462	27.957220
## 3463	14.798555
## 3464	7.721900
## 3465	20.460967
## 3466	40.560457
## 3467	104.500400
## 3468	155.082250
## 3469	276.248952
## 3470	298.577057
## 3471	416.837122
## 3472	411.867729
## 3473	381.503876
## 3474	382.756076

## 3475	386.202848
## 3476	393.172419
## 3477	327.222638
## 3478	304.779471
## 3479	235.739927
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## 3481	157.627344
## 3482	136.459224
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## 3487	7.905933
## 3488	8.507600
## 3489	20.794633
## 3490	58.043033
## 3491	122.339233
## 3492	180.089800
## 3493	306.336558
## 3494	359.912433
## 3495	368.130364
## 3496	360.995917
## 3497	352.649550
## 3498	340.067693
## 3499	349.227333
## 3500	339.875400
## 3501	310.482533
## 3502	260.170689
## 3503	279.933200
## 3504	199.605067
## 3505	151.018200
## 3506	78.006858
## 3507	37.560072
## 3508	18.126951
## 3509	11.842419
## 3510	4.912400
## 3511	5.211718
## 3512	29.335479
## 3513	113.407287
## 3514	286.047327
## 3515	471.013689
## 3516	203.864914
## 3517	131.785355
## 3518	141.247033
## 3519	173.076650
## 3520	153.551148
## 3521	150.911005
## 3522	163.583105
## 3523	269.329876
## 3524	498.764700
## 3525	496.089490
## 3526	363.917881
## 3527	272.403068
## 3528	226.728748

```
## 3529      171.537422
## 3530      98.438631
## 3531      38.202844
## 3532      18.473863
## 3533      7.610295
## 3534      6.227956
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## 3536      25.829183
## 3537      137.803833
## 3538      338.142667
## 3539      487.062951
## 3540      228.103819
## 3541      142.708267
## 3542      127.054368
## 3543      172.210900
## 3544      153.737162
## 3545      158.242429
## 3546      166.504671
## 3547      260.769037
## 3548      501.063689
## 3549      415.984567
## 3550      315.195767
## 3551      277.405967
## 3552      204.557988
## 3553      152.291435
## 3554      100.528605
## 3555      56.146000
## 3556      22.802471
## 3557      11.036650
## 3558      6.441283
## 3559      6.131100
## 3560      30.817772
## 3561      120.453500
## 3562      345.737567
## 3563      501.407176
## 3564      243.621419
## 3565      167.731533
## 3566      184.490831
## 3567      237.592167
## 3568      219.094600
## 3569      209.728500
## 3570      215.042367
## 3571      344.033800
## 3572      606.813393
## 3573      586.511100
## 3574      424.845753
## 3575      367.009576
## 3576      263.092135
## 3577      185.609139
## 3578      117.177411
## 3579      56.147381
## 3580      22.272632
## 3581      11.682400
## 3582      5.320467
```

```
## 3583      7.122200
## 3584     29.098518
## 3585    120.626919
## 3586    335.829167
## 3587    521.445267
## 3588    247.729222
## 3589   170.402753
## 3590   193.900917
## 3591   262.347067
## 3592   253.130870
## 3593   235.352036
## 3594   245.883339
## 3595   397.176617
## 3596   633.716267
## 3597   591.982233
## 3598   433.020986
## 3599   336.540314
## 3600   264.371956
## 3601   191.600337
## 3602   152.811414
## 3603   116.050726
## 3604   96.630988
## 3605   68.273817
## 3606   30.641500
## 3607   15.151129
## 3608   11.386112
## 3609   34.200586
## 3610   85.795271
## 3611   162.187167
## 3612   265.369533
## 3613   384.926021
## 3614   472.084633
## 3615   505.871819
## 3616   488.292583
## 3617   503.802850
## 3618   450.626200
## 3619   487.611367
## 3620   470.183267
## 3621   415.798900
## 3622   343.371667
## 3623   250.256567
## 3624   209.197833
## 3625   199.246333
## 3626   147.058067
## 3627   127.708100
## 3628   91.720138
## 3629   70.051364
## 3630   40.434867
## 3631   13.888033
## 3632   10.143533
## 3633   27.237400
## 3634   46.699333
## 3635   117.035333
## 3636   201.355600
```

## 3637	299.737567
## 3638	348.712033
## 3639	356.590100
## 3640	407.757967
## 3641	401.523300
## 3642	450.502100
## 3643	424.722965
## 3644	398.647698
## 3645	344.362767
## 3646	331.578400
## 3647	267.501033
## 3648	183.010567
## 3649	150.735646
## 3650	101.389181
## 3651	36.040746
## 3652	19.450325
## 3653	9.268062
## 3654	4.979035
## 3655	6.622998
## 3656	29.333096
## 3657	121.064759
## 3658	391.796352
## 3659	536.242183
## 3660	236.549041
## 3661	130.345510
## 3662	149.661481
## 3663	221.075267
## 3664	205.550224
## 3665	184.418333
## 3666	199.186167
## 3667	316.263043
## 3668	642.463843
## 3669	636.766167
## 3670	458.029358
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## 3673	193.359775
## 3674	94.813970
## 3675	36.770769
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## 3677	8.234716
## 3678	4.408152
## 3679	7.221279
## 3680	30.509103
## 3681	136.306915
## 3682	354.464733
## 3683	512.975800
## 3684	239.763886
## 3685	152.047550
## 3686	171.214700
## 3687	200.554205
## 3688	212.365633
## 3689	187.383305
## 3690	195.402857

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## 3691      355.858419
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## 3695      342.856261
## 3696      232.981064
## 3697      168.763792
## 3698      98.528433
## 3699      41.253233
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## 3701      6.045364
## 3702      4.660295
## 3703      7.107572
## 3704      25.923313
## 3705      134.097105
## 3706      381.787038
## 3707      488.579726
## 3708      227.621186
## 3709      124.111243
## 3710      145.296100
## 3711      162.655481
## 3712      145.405814
## 3713      147.883871
## 3714      137.092824
## 3715      268.793932
## 3716      517.480143
## 3717      462.950167
## 3718      395.848439
## 3719      300.011188
## 3720      219.564407
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## 3722      120.341900
## 3723      44.720327
## 3724      21.532977
## 3725      7.182400
## 3726      4.660439
## 3727      6.242819
## 3728      24.468667
## 3729      120.138205
## 3730      317.523089
## 3731      462.333417
## 3732      205.564767
## 3733      122.963876
## 3734      132.868967
## 3735      149.571062
## 3736      149.388929
## 3737      134.626938
## 3738      133.967781
## 3739      264.916810
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## 3741      488.837400
## 3742      405.762962
## 3743      304.342167
## 3744      206.618500
```

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## 3747      56.037167
## 3748      21.293405
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## 3750      6.660489
## 3751      5.531300
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## 3753      115.941268
## 3754      302.936957
## 3755      481.028543
## 3756      227.261333
## 3757      135.624933
## 3758      154.217071
## 3759      200.962683
## 3760      199.002733
## 3761      172.087405
## 3762      204.508500
## 3763      309.710033
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## 3765      525.639767
## 3766      383.729656
## 3767      283.762279
## 3768      231.247855
## 3769      187.601950
## 3770      126.570833
## 3771      119.900456
## 3772      86.184310
## 3773      65.341430
## 3774      29.814861
## 3775      12.632267
## 3776      15.327700
## 3777      36.128567
## 3778      70.310367
## 3779      144.466110
## 3780      246.875767
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## 3783      379.643944
## 3784      389.581444
## 3785      385.609469
## 3786      387.852569
## 3787      405.527000
## 3788      360.409467
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## 3790      288.406117
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## 3792      209.504733
## 3793      166.254341
## 3794      122.326700
## 3795      115.803472
## 3796      93.721826
## 3797      65.180530
## 3798      27.234611
```

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## 3801      21.157057
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## 3804     207.997800
## 3805     321.639700
## 3806     372.890511
## 3807     409.257413
## 3808     380.515067
## 3809     355.301600
## 3810     375.272933
## 3811     302.099767
## 3812     279.417133
## 3813     293.225538
## 3814     268.208583
## 3815     218.789700
## 3816     175.162067
## 3817     141.687433
## 3818     109.265637
## 3819      34.433894
## 3820     18.999977
## 3821      9.811678
## 3822      7.258767
## 3823      5.332033
## 3824     27.720432
## 3825     115.217586
## 3826     400.651000
## 3827     511.317219
## 3828     247.651717
## 3829     149.379655
## 3830     169.433310
## 3831     227.319838
## 3832     265.087336
## 3833     234.932703
## 3834     232.269703
## 3835     358.308263
## 3836     641.485357
## 3837     626.651667
## 3838     440.234378
## 3839     349.143972
## 3840     245.012035
## 3841     169.814053
## 3842     118.576161
## 3843      42.643531
## 3844     18.591462
## 3845      9.838234
## 3846      4.260167
## 3847      4.403633
## 3848     28.258213
## 3849     124.988352
## 3850     404.452433
## 3851     517.812786
## 3852     228.820533
```

```
## 3853      151.803717
## 3854      167.735910
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## 3856      248.454667
## 3857      208.142724
## 3858      228.774667
## 3859      381.471288
## 3860      573.581200
## 3861      564.361557
## 3862      432.640614
## 3863      327.226042
## 3864      255.199699
## 3865      184.299525
## 3866      104.854060
## 3867      47.662650
## 3868      17.268680
## 3869      10.617159
## 3870      3.150167
## 3871      4.466933
## 3872      26.188650
## 3873      134.584924
## 3874      399.965000
## 3875      532.460552
## 3876      247.560432
## 3877      165.978308
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## 3879      237.245836
## 3880      229.751533
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## 3882      211.208890
## 3883      322.019148
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## 3886      464.338778
## 3887      347.731417
## 3888      257.833456
## 3889      191.669470
## 3890      122.616948
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## 3893      8.953288
## 3894      4.369117
## 3895      6.679111
## 3896      29.211879
## 3897      91.776226
## 3898      246.025005
## 3899      487.962388
## 3900      279.578800
## 3901      149.011424
## 3902      171.695981
## 3903      217.081600
## 3904      187.677967
## 3905      175.318267
## 3906      187.544900
```

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## 3907      301.965424
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## 3911      230.781776
## 3912      169.395800
## 3913      136.642300
## 3914      53.138171
## 3915      28.899278
## 3916      18.211133
## 3917      12.141519
## 3918      6.183367
## 3919      5.982545
## 3920      19.096100
## 3921      111.943635
## 3922      337.932241
## 3923      513.929062
## 3924      227.721552
## 3925      168.066733
## 3926      188.083367
## 3927      246.334900
## 3928      220.905200
## 3929      223.405500
## 3930      242.774700
## 3931      378.589224
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## 3934      303.584495
## 3935      262.667600
## 3936      215.358700
## 3937      157.516700
## 3938      140.385237
## 3939      109.987889
## 3940      90.149760
## 3941      60.084330
## 3942      24.989463
## 3943      10.684355
## 3944      9.628333
## 3945      27.341686
## 3946      54.268510
## 3947      134.579200
## 3948      240.114000
## 3949      284.998033
## 3950      383.396067
## 3951      449.430294
## 3952      372.385078
## 3953      375.974700
## 3954      382.859700
## 3955      443.446600
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## 3958      328.309152
## 3959      231.555757
## 3960      203.260467
```

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## 3965      72.609514
## 3966      32.805243
## 3967      15.024400
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## 3970      70.034543
## 3971      129.783167
## 3972      197.703567
## 3973      295.772167
## 3974      399.554267
## 3975      390.122600
## 3976      387.527400
## 3977      357.323133
## 3978      381.674933
## 3979      404.895507
## 3980      398.647698
## 3981      329.134967
## 3982      305.575667
## 3983      252.948167
## 3984      200.391586
## 3985      166.254341
## 3986      112.433337
## 3987      36.779418
## 3988      14.491250
## 3989      6.045364
## 3990      3.994133
## 3991      3.780194
## 3992      16.881822
## 3993      71.185515
## 3994      131.045981
## 3995      270.551100
## 3996      225.968067
## 3997      131.165371
## 3998      146.216338
## 3999      195.698167
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## 4003      327.018576
## 4004      630.855979
## 4005      559.307510
## 4006      429.861651
## 4007      354.455048
## 4008      255.788041
## 4009      165.449700
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## 4011      38.303213
## 4012      14.043600
## 4013      6.648133
## 4014      3.274522
```

```
## 4015      8.517261
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## 4024   205.219211
## 4025   176.335519
## 4026   193.196233
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## 4028   576.556133
## 4029   540.963029
## 4030   410.537762
## 4031   349.391367
## 4032   245.773738
## 4033   154.605067
## 4034   95.456667
## 4035   40.559182
## 4036   20.574253
## 4037   10.324580
## 4038    6.545571
## 4039    8.796335
## 4040   25.091972
## 4041   126.267521
## 4042   373.013727
## 4043   518.861857
## 4044   255.288800
## 4045   155.042095
## 4046   173.071806
## 4047   194.669933
## 4048   165.086514
## 4049   169.244844
## 4050   158.095567
## 4051   284.622133
## 4052   580.755133
## 4053   526.482767
## 4054   414.545033
## 4055   300.148831
## 4056   240.672357
## 4057   158.579767
## 4058   108.386200
## 4059    48.005090
## 4060    26.888519
## 4061    8.890875
## 4062    7.182900
## 4063    7.307659
## 4064    30.995846
## 4065   118.578510
## 4066   364.375858
## 4067   477.321533
## 4068   260.588324
```

```
## 4069      154.239933
## 4070      162.116567
## 4071      182.343881
## 4072      186.547824
## 4073      170.359767
## 4074      198.550000
## 4075      285.853033
## 4076      557.597562
## 4077      559.441233
## 4078      404.886633
## 4079      336.276260
## 4080      241.453852
## 4081      177.917300
## 4082      104.467333
## 4083      51.339335
## 4084      26.049976
## 4085      14.410322
## 4086      5.998092
## 4087      8.020412
## 4088      24.573046
## 4089      120.222123
## 4090      319.474774
## 4091      489.765171
## 4092      255.047533
## 4093      151.828841
## 4094      194.906501
## 4095      214.621438
## 4096      237.817536
## 4097      223.373638
## 4098      241.296855
## 4099      357.692617
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## 4101      543.589938
## 4102      430.847778
## 4103      330.206804
## 4104      258.423719
## 4105      178.518489
## 4106      159.974814
## 4107      126.096800
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## 4109      73.749033
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## 4111      13.252044
## 4112      12.004800
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## 4114      59.303867
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## 4116      210.988548
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## 4120      417.285613
## 4121      406.270377
## 4122      410.284025
```

```
## 4123      434.983948
## 4124      432.048933
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## 4126      375.675333
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## 4128      219.416085
## 4129      196.166000
## 4130      165.466633
## 4131      127.751167
## 4132      102.410144
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## 4135      12.676350
## 4136      11.924067
## 4137      29.334567
## 4138      62.362967
## 4139      132.730519
## 4140      229.357283
## 4141      357.841031
## 4142      395.509085
## 4143      448.920428
## 4144      432.315863
## 4145      446.534691
## 4146      426.459715
## 4147      462.670133
## 4148      428.115333
## 4149      375.464083
## 4150      335.030267
## 4151      245.495333
## 4152      202.599800
## 4153      163.396405
## 4154      118.550033
## 4155      39.372733
## 4156      16.780556
## 4157      8.367233
## 4158      3.492522
## 4159      8.480021
## 4160      27.034833
## 4161      123.878926
## 4162      334.181691
## 4163      508.166233
## 4164      248.921083
## 4165      163.253767
## 4166      184.917800
## 4167      198.207181
## 4168      184.700243
## 4169      187.245076
## 4170      204.476462
## 4171      321.605650
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## 4173      646.588267
## 4174      430.071663
## 4175      327.811768
## 4176      249.328176
```

```
## 4177      169.717133
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## 4179      35.211810
## 4180      18.499270
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## 4183      7.897118
## 4184      27.259797
## 4185      130.865560
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## 4187      525.728486
## 4188      259.372329
## 4189      166.494490
## 4190      171.707140
## 4191      216.131405
## 4192      188.051243
## 4193      184.041033
## 4194      180.928476
## 4195      252.799599
## 4196      536.853600
## 4197      506.337367
## 4198      342.644779
## 4199      306.953002
## 4200      217.032910
## 4201      149.497767
## 4202      104.770767
## 4203      39.010971
## 4204      26.313763
## 4205      13.237905
## 4206      7.206153
## 4207      6.815408
## 4208      27.094270
## 4209      121.548229
## 4210      341.903798
## 4211      550.311438
## 4212      243.911933
## 4213      140.355257
## 4214      184.695008
## 4215      245.186455
## 4216      240.727053
## 4217      195.741238
## 4218      201.860255
## 4219      355.173617
## 4220      673.772417
## 4221      617.353081
## 4222      493.358267
## 4223      372.178367
## 4224      274.215117
## 4225      200.226500
## 4226      137.767748
## 4227      61.240805
## 4228      28.866229
## 4229      10.477327
## 4230      8.360700
```

```
## 4231      6.480587
## 4232     28.644306
## 4233    134.429667
## 4234   377.574837
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## 4236  251.876100
## 4237  144.464290
## 4238  171.640387
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## 4240  234.737822
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## 4243  329.011057
## 4244  658.326100
## 4245  619.201667
## 4246  486.054513
## 4247  387.701150
## 4248  312.927426
## 4249  210.510933
## 4250  134.106314
## 4251  61.015444
## 4252  28.011589
## 4253  13.739219
## 4254  9.267290
## 4255  7.213851
## 4256  29.577915
## 4257  122.319097
## 4258  303.708050
## 4259  545.287850
## 4260  249.170288
## 4261  164.090067
## 4262  197.275144
## 4263  264.598385
## 4264  277.490642
## 4265  301.287886
## 4266  311.629833
## 4267  373.558991
## 4268  549.508609
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## 4270  405.442073
## 4271  305.159488
## 4272  259.669480
## 4273  217.075022
## 4274  140.866903
## 4275  123.564200
## 4276  93.864211
## 4277  66.303038
## 4278  35.158767
## 4279  11.275657
## 4280  13.647433
## 4281  29.159970
## 4282  52.647100
## 4283 131.063400
## 4284 201.452834
```

```
## 4285      317.540369
## 4286      373.629517
## 4287      386.898211
## 4288      399.158397
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## 4290      352.774460
## 4291      381.467552
## 4292      387.413375
## 4293      401.530213
## 4294      320.387236
## 4295      293.642256
## 4296      236.002083
## 4297      211.874833
## 4298      157.684833
## 4299      140.600514
## 4300      87.010564
## 4301      71.614433
## 4302      37.253405
## 4303      8.488767
## 4304      6.420300
## 4305      10.727267
## 4306      34.412081
## 4307      110.146067
## 4308      214.281629
## 4309      304.944600
## 4310      406.169233
## 4311      448.442258
## 4312      415.915895
## 4313      374.694150
## 4314      367.622867
## 4315      404.898648
## 4316      321.187410
## 4317      282.084143
## 4318      230.728000
## 4319      185.398367
## 4320      177.237289
## 4321      168.552700
## 4322      137.199133
## 4323      133.343233
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## 4325      64.858900
## 4326      26.467367
## 4327      11.729800
## 4328      7.818367
## 4329      24.846133
## 4330      63.322867
## 4331      110.686000
## 4332      229.565633
## 4333      314.335400
## 4334      373.715148
## 4335      426.693914
## 4336      426.548514
## 4337      424.962967
## 4338      424.058914
```

```
## 4339      443.752850
## 4340      426.878233
## 4341      415.137600
## 4342      372.610233
## 4343      353.013367
## 4344      366.359567
## 4345      307.674900
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## 4347      60.912117
## 4348      37.504203
## 4349      12.174751
## 4350      7.206370
## 4351      5.903523
## 4352      27.429071
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## 4355      525.562189
## 4356      252.018504
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## 4358      192.178799
## 4359      231.448419
## 4360      207.435757
## 4361      214.004279
## 4362      190.692776
## 4363      337.957650
## 4364      638.070581
## 4365      597.299233
## 4366      451.619228
## 4367      347.459567
## 4368      249.132363
## 4369      161.615869
## 4370      91.843657
## 4371      49.810388
## 4372      17.641263
## 4373      9.659407
## 4374      6.079006
## 4375      6.165653
## 4376      32.143016
## 4377      126.181540
## 4378      322.754692
## 4379      592.214202
## 4380      221.899986
## 4381      106.911833
## 4382      158.725833
## 4383      180.681100
## 4384      157.484433
## 4385      182.601343
## 4386      196.508943
## 4387      308.467719
## 4388      625.379500
## 4389      595.943371
## 4390      435.047323
## 4391      321.945978
## 4392      262.863779
```

```

## 4393      181.974954
## 4394      112.235104
## 4395      43.448298
## 4396      20.127727
## 4397      10.467976
## 4398      4.741209
## 4399      6.626678
## 4400      32.385560
## 4401      131.490900
## 4402      360.079762
## 4403      510.787276
## 4404      226.475890
## 4405      144.805057
## 4406      150.346727
## 4407      182.359886
## 4408      173.821752
## 4409      178.638019
## 4410      194.977198
## 4411      307.052476
## 4412      620.263346
## 4413      553.332917
## 4414      419.498646
## 4415      302.746310
## 4416      248.069740
## 4417      201.260991
## 4418      137.692976
## 4419      55.330746
## 4420      24.528157
## 4421      17.380760
## 4422      6.648362
## 4423      8.444707
## 4424      28.774263
## 4425      119.554187
## 4426      363.996885
## 4427      530.795812
## 4428      234.618333
## 4429      157.240500
## 4430      168.265033
## 4431      206.923972
## 4432      206.951039
## 4433      194.729557
## 4434      180.781824
## 4435      197.632833
## 4436      217.721300
## 4437      404.297267
## 4438      294.891600
## 4439      266.865071
## 4440      195.596767
## 4441      174.222998
## 4442      156.709629
## 4443      117.826183
## 4444      83.450733
## 4445      71.406333
## 4446      32.523490

```

## 4447	7.973068
## 4448	13.566767
## 4449	30.571471
## 4450	60.134410
## 4451	162.429113
## 4452	231.285846
## 4453	310.256378
## 4454	348.043697
## 4455	395.721565
## 4456	433.543009
## 4457	384.674452
## 4458	395.791985
## 4459	438.510672
## 4460	410.177027
## 4461	420.532705
## 4462	375.853532
## 4463	282.206508
## 4464	233.280927
## 4465	199.683448
## 4466	141.172033
## 4467	151.166006
## 4468	100.956385
## 4469	90.664574
## 4470	31.889599
## 4471	8.849167
## 4472	16.077974
## 4473	28.587667
## 4474	63.640052
## 4475	117.247500
## 4476	200.402100
## 4477	313.724359
## 4478	358.050131
## 4479	384.408090
## 4480	405.791900
## 4481	386.088602
## 4482	397.398411
## 4483	406.043333
## 4484	399.665741
## 4485	418.048456
## 4486	318.503779
## 4487	287.461891
## 4488	226.172594
## 4489	159.850894
## 4490	100.253450
## 4491	53.208621
## 4492	20.542942
## 4493	13.153200
## 4494	8.737033
## 4495	5.190239
## 4496	31.362701
## 4497	130.520400
## 4498	404.755124
## 4499	475.617702
## 4500	225.621049

```
## 4501      141.663283
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## 4503      190.219639
## 4504      157.258094
## 4505      154.104835
## 4506      162.574772
## 4507      262.239272
## 4508      543.716833
## 4509      516.491667
## 4510      395.869586
## 4511      272.875967
## 4512      170.094252
## 4513      145.610717
## 4514      89.463400
## 4515      32.255766
## 4516      16.462821
## 4517      12.035672
## 4518      7.171730
## 4519      6.698802
## 4520      26.029866
## 4521      121.771761
## 4522      342.118365
## 4523      502.130499
## 4524      219.225547
## 4525      135.407775
## 4526      143.945351
## 4527      182.437498
## 4528      172.712955
## 4529      159.610143
## 4530      178.479343
## 4531      247.244284
## 4532      485.750417
## 4533      515.713200
## 4534      406.397037
## 4535      329.727550
## 4536      261.438867
## 4537      201.932001
## 4538      104.217844
## 4539      57.312322
## 4540      18.315172
## 4541      9.030158
## 4542      5.265100
## 4543      6.455170
## 4544      28.505271
## 4545      125.936294
## 4546      339.754276
## 4547      500.795502
## 4548      224.489336
## 4549      146.013160
## 4550      175.683725
## 4551      189.197483
## 4552      160.628800
## 4553      153.855533
## 4554      88.564433
```

```

## 4555      181.141500
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## 4557      450.664233
## 4558      357.312662
## 4559      329.423038
## 4560      258.252695
## 4561      181.771942
## 4562      127.998123
## 4563      53.438522
## 4564      24.758456
## 4565      10.780458
## 4566      6.610319
## 4567      6.436581
## 4568      29.880367
## 4569      133.410309
## 4570      341.936381
## 4571      517.747189
## 4572      243.544363
## 4573      145.413541
## 4574      168.959625
## 4575      232.298276
## 4576      200.760548
## 4577      199.974643
## 4578      209.274957
## 4579      337.314364
## 4580      667.324014
## 4581      607.630967
## 4582      429.669206
## 4583      335.322141
## 4584      267.315618
## 4585      200.050303
## 4586      125.411685
## 4587      64.001438
## 4588      20.084512
## 4589      23.758732
## 4590      7.025575
## 4591      8.260319
## 4592      27.839180
## 4593      135.725065
## 4594      341.209634
## 4595      558.957735
## 4596      239.219276
## 4597      176.032144
## 4598      221.619776
## 4599      258.434014
## 4600      259.312862
## 4601      253.167629
## 4602      261.752405
## 4603      384.876483
## 4604      636.103390
## 4605      588.122538
## 4606      442.620786
## 4607      369.374470
## 4608      274.214650

```

## 4609	217.272353
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## 4612	89.806563
## 4613	75.038600
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## 4615	13.118900
## 4616	11.850233
## 4617	30.685133
## 4618	52.626538
## 4619	129.851832
## 4620	211.059673
## 4621	351.501619
## 4622	417.428812
## 4623	462.184344
## 4624	456.027277
## 4625	427.678847
## 4626	439.508110
## 4627	423.854072
## 4628	451.101606
## 4629	420.739750
## 4630	379.151994
## 4631	290.385022
## 4632	241.763040
## 4633	199.586738
## 4634	161.053500
## 4635	128.001883
## 4636	98.311433
## 4637	80.516086
## 4638	46.596029
## 4639	11.283057
## 4640	12.546867
## 4641	23.092498
## 4642	54.003681
## 4643	126.453925
## 4644	216.552787
## 4645	316.924295
## 4646	418.442926
## 4647	437.021500
## 4648	451.853545
## 4649	459.735088
## 4650	368.078697
## 4651	386.300110
## 4652	409.047300
## 4653	401.063886
## 4654	369.788946
## 4655	276.148375
## 4656	224.195549
## 4657	170.538559
## 4658	106.257017
## 4659	54.851426
## 4660	24.942104
## 4661	12.483776
## 4662	6.679499

## 4663	5.262257
## 4664	30.770482
## 4665	132.325870
## 4666	376.497274
## 4667	498.749773
## 4668	226.305927
## 4669	168.235451
## 4670	170.667907
## 4671	196.607767
## 4672	172.724708
## 4673	160.314174
## 4674	182.685689
## 4675	321.137316
## 4676	545.772046
## 4677	596.987067
## 4678	457.013169
## 4679	343.737024
## 4680	267.093315
## 4681	161.615869
## 4682	91.843657
## 4683	55.330746
## 4684	17.575267
## 4685	11.583192
## 4686	5.280741
## 4687	6.002437
## 4688	27.160716
## 4689	127.900957
## 4690	357.218114
## 4691	439.341655
## 4692	212.329006
## 4693	148.166767
## 4694	131.796587
## 4695	170.605079
## 4696	166.948692
## 4697	147.872554
## 4698	189.251274
## 4699	269.074493
## 4700	545.303767
## 4701	545.846600
## 4702	421.149105
## 4703	297.535564
## 4704	258.493449
## 4705	176.154581
## 4706	100.197867
## 4707	42.943088
## 4708	15.194781
## 4709	8.610497
## 4710	6.635429
## 4711	5.436586
## 4712	33.269910
## 4713	136.918024
## 4714	377.140193
## 4715	504.816147
## 4716	251.655829

## 4717	148.064233
## 4718	161.307067
## 4719	153.009123
## 4720	152.918903
## 4721	148.881514
## 4722	148.546471
## 4723	292.001195
## 4724	488.265767
## 4725	495.581633
## 4726	423.025605
## 4727	320.767721
## 4728	245.299336
## 4729	168.698842
## 4730	115.993885
## 4731	44.320548
## 4732	19.138400
## 4733	7.720894
## 4734	6.785950
## 4735	6.301645
## 4736	24.127704
## 4737	121.111748
## 4738	313.404425
## 4739	433.550231
## 4740	218.257257
## 4741	119.143867
## 4742	127.040575
## 4743	142.581855
## 4744	138.836503
## 4745	152.764514
## 4746	143.132804
## 4747	245.684608
## 4748	461.478183
## 4749	430.853133
## 4750	356.916152
## 4751	293.809933
## 4752	243.312357
## 4753	167.974824
## 4754	116.965574
## 4755	70.650867
## 4756	22.552786
## 4757	14.912520
## 4758	9.000032
## 4759	10.438267
## 4760	24.295524
## 4761	106.758416
## 4762	307.932533
## 4763	377.626452
## 4764	214.612630
## 4765	128.927995
## 4766	136.004243
## 4767	137.870818
## 4768	129.057140
## 4769	142.134398
## 4770	139.775364

```
## 4771      261.038424
## 4772      417.753700
## 4773      469.635100
## 4774      359.720367
## 4775      283.504571
## 4776      228.186708
## 4777      183.779733
## 4778      123.485940
## 4779      118.772179
## 4780      90.052605
## 4781      64.180795
## 4782      31.653266
## 4783      9.825326
## 4784      9.564367
## 4785      29.048417
## 4786      61.648017
## 4787      120.892172
## 4788      181.139481
## 4789      283.365720
## 4790      297.428101
## 4791      270.128141
## 4792      272.579189
## 4793      269.938675
## 4794      251.932989
## 4795      255.612264
## 4796      239.747797
## 4797      259.548033
## 4798      271.070690
## 4799      205.490864
## 4800      192.493099
## 4801      173.770460
## 4802      122.804250
## 4803      129.979593
## 4804      91.691282
## 4805      63.711331
## 4806      35.393905
## 4807      9.559060
## 4808      8.772143
## 4809      25.232633
## 4810      47.831524
## 4811      119.468491
## 4812      189.207852
## 4813      286.659358
## 4814      319.725414
## 4815      287.268543
## 4816      346.737600
## 4817      322.245567
## 4818      302.368155
## 4819      292.078426
## 4820      265.020691
## 4821      286.652954
## 4822      305.996186
## 4823      245.460198
## 4824      191.130859
```

```

## 4825      139.135876
## 4826      91.542933
## 4827      54.200114
## 4828      16.841429
## 4829      8.145598
## 4830      7.189901
## 4831      6.448693
## 4832      25.898890
## 4833      114.967724
## 4834      301.335462
## 4835      434.935681
## 4836      200.484868
## 4837      121.643730
## 4838      120.968057
## 4839      123.598300
## 4840      130.421500
## 4841      126.443800
## 4842      147.000348
## 4843      223.837300
## 4844      496.169678
## 4845      508.684078
## 4846      432.861462
## 4847      300.097145
## 4848      203.879533
## 4849      143.632465
## 4850      114.379500
## 4851      32.280447
## 4852      19.247990
## 4853      9.686122
## 4854      5.736445
## 4855      6.250985
## 4856      32.081176
## 4857      133.572064
## 4858      359.014546
## 4859      475.159675
## 4860      217.191258
## 4861      154.254564
## 4862      169.826239
## 4863      190.534378
## 4864      193.389729
## 4865      164.758933
## 4866      193.376400
## 4867      281.485923
## 4868      584.212046
## 4869      591.615633
## 4870      408.994233
## 4871      315.940840
## 4872      276.888954
## 4873      203.828694
## 4874      113.708644
## 4875      55.597933
## 4876      19.071787
## 4877      9.683324
## 4878      4.780850

```

```

## 4879      5.836184
## 4880     24.148708
## 4881    128.056239
## 4882    355.846932
## 4883    504.914641
## 4884    237.434325
## 4885    153.675257
## 4886   170.805120
## 4887   188.840005
## 4888   194.515076
## 4889   179.647816
## 4890   202.520700
## 4891   312.134882
## 4892   602.328456
## 4893   621.389889
## 4894   434.270074
## 4895   326.797026
## 4896   275.835779
## 4897   198.428817
## 4898   130.225811
## 4899   56.572989
## 4900   27.459840
## 4901    9.383908
## 4902    5.909708
## 4903    7.307516
## 4904   31.794635
## 4905   126.399659
## 4906   373.893258
## 4907   501.100792
## 4908   228.490081
## 4909   140.429607
## 4910   163.067487
## 4911   195.085888
## 4912   176.657888
## 4913   188.240117
## 4914   149.227554
## 4915   286.547215
## 4916   511.608267
## 4917   493.895033
## 4918   399.026657
## 4919   325.233962
## 4920   218.366920
## 4921   183.077157
## 4922   118.265374
## 4923    48.892561
## 4924    26.713725
## 4925   11.258253
## 4926    7.189901
## 4927    6.283865
## 4928    27.345394
## 4929   109.557219
## 4930   291.618423
## 4931   427.443581
## 4932   219.573619

```

## 4933	137.240383
## 4934	177.281225
## 4935	161.704667
## 4936	179.895654
## 4937	177.186133
## 4938	176.220050
## 4939	295.329914
## 4940	483.699833
## 4941	453.735667
## 4942	344.183431
## 4943	282.456167
## 4944	227.753195
## 4945	203.132338
## 4946	114.940144
## 4947	131.928246
## 4948	90.901963
## 4949	61.595038
## 4950	41.798671
## 4951	11.851930
## 4952	14.695333
## 4953	27.058160
## 4954	56.487967
## 4955	127.796130
## 4956	186.663001
## 4957	290.969749
## 4958	341.615881
## 4959	370.724604
## 4960	341.649705
## 4961	312.029420
## 4962	315.908303
## 4963	336.740033
## 4964	305.882782
## 4965	319.709111
## 4966	323.317103
## 4967	254.193443
## 4968	213.075427
## 4969	199.679600
## 4970	148.170833
## 4971	124.808446
## 4972	87.193548
## 4973	73.071774
## 4974	42.844571
## 4975	13.041607
## 4976	11.145507
## 4977	23.361493
## 4978	52.991890
## 4979	133.870296
## 4980	200.267702
## 4981	283.707969
## 4982	312.315937
## 4983	333.832371
## 4984	308.185753
## 4985	323.517053
## 4986	331.898605

## 4987	320.525200
## 4988	310.489082
## 4989	348.819533
## 4990	316.957579
## 4991	284.096182
## 4992	193.729044
## 4993	133.789317
## 4994	87.619298
## 4995	48.366219
## 4996	24.554545
## 4997	12.669093
## 4998	5.569921
## 4999	6.590990
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## 5001	130.547154
## 5002	342.938362
## 5003	426.870317
## 5004	205.861313
## 5005	130.851048
## 5006	155.133065
## 5007	195.621300
## 5008	185.538800
## 5009	172.615484
## 5010	225.026156
## 5011	314.834151
## 5012	562.056082
## 5013	643.074967
## 5014	433.034265
## 5015	340.663265
## 5016	236.396000
## 5017	190.176559
## 5018	113.268788
## 5019	49.104406
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## 5021	9.906407
## 5022	6.194300
## 5023	9.233374
## 5024	27.546302
## 5025	127.394155
## 5026	329.488013
## 5027	424.396936
## 5028	219.622912
## 5029	148.710543
## 5030	171.709899
## 5031	185.268527
## 5032	220.583064
## 5033	243.118302
## 5034	243.027751
## 5035	310.715326
## 5036	585.273500
## 5037	600.853645
## 5038	452.044802
## 5039	319.523678
## 5040	269.818010

```
## 5041      195.353433
## 5042      135.935271
## 5043      53.934133
## 5044      20.839598
## 5045      12.602219
## 5046      6.580171
## 5047      7.716456
## 5048      28.233050
## 5049      94.909100
## 5050      308.790231
## 5051      454.851262
## 5052      246.385164
## 5053      122.753722
## 5054      179.880333
## 5055      182.952667
## 5056      186.237295
## 5057      175.881800
## 5058      132.337900
## 5059      202.448367
## 5060      428.758333
## 5061      417.246733
## 5062      324.617300
## 5063      145.400167
## 5064      135.823933
## 5065      95.899667
## 5066      97.323200
## 5067      31.791876
## 5068      16.563267
## 5069      10.937378
## 5070      3.955289
## 5071      8.057210
## 5072      28.668259
## 5073      115.154017
## 5074      325.331108
## 5075      446.945547
## 5076      206.996922
## 5077      140.593944
## 5078      171.050208
## 5079      211.605100
## 5080      233.465425
## 5081      209.668834
## 5082      223.898457
## 5083      318.460017
## 5084      642.824543
## 5085      544.196311
## 5086      423.977767
## 5087      313.425733
## 5088      228.210762
## 5089      200.099188
## 5090      130.255081
## 5091      46.544516
## 5092      19.171072
## 5093      13.170438
## 5094      6.056461
```

```
## 5095      6.355407
## 5096     26.983225
## 5097    150.840474
## 5098   356.788940
## 5099   506.754014
## 5100   303.890233
## 5101  191.546633
## 5102  185.755548
## 5103  223.976830
## 5104  215.205875
## 5105  239.368690
## 5106  224.788477
## 5107  375.416097
## 5108  601.030618
## 5109  627.249812
## 5110  421.664236
## 5111  317.606718
## 5112  226.378492
## 5113  187.678966
## 5114  119.469099
## 5115  124.316450
## 5116   87.918831
## 5117   66.697181
## 5118   41.250083
## 5119   10.460829
## 5120   8.735164
## 5121   22.358367
## 5122   57.891700
## 5123  123.688767
## 5124  227.561548
## 5125  316.690381
## 5126  363.478395
## 5127  412.886323
## 5128  421.401600
## 5129  391.850395
## 5130  378.528700
## 5131  292.823633
## 5132  236.957067
## 5133  262.323500
## 5134  210.212867
## 5135  172.122667
## 5136  137.383567
## 5137  127.060767
## 5138  110.160871
## 5139   97.116967
## 5140   81.077067
## 5141   75.191300
## 5142   33.770128
## 5143    7.785809
## 5144   9.456664
## 5145   21.407314
## 5146   47.163900
## 5147  105.469119
## 5148  211.660000
```

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## 5149      307.191332
## 5150      322.905729
## 5151      386.454124
## 5152      388.662838
## 5153      375.585897
## 5154      337.562133
## 5155      274.522081
## 5156      252.887910
## 5157      287.951900
## 5158      255.171133
## 5159      228.334817
## 5160      167.928590
## 5161      128.797733
## 5162      86.252833
## 5163      34.625545
## 5164      21.450357
## 5165      8.820975
## 5166      3.867913
## 5167      7.998497
## 5168      24.089040
## 5169      117.511722
## 5170      304.510680
## 5171      391.891960
## 5172      200.097521
## 5173      147.025011
## 5174      189.912339
## 5175      221.553003
## 5176      182.489773
## 5177      189.868429
## 5178      172.506669
## 5179      306.346564
## 5180      604.896220
## 5181      628.522514
## 5182      438.397745
## 5183      313.805925
## 5184      230.425190
## 5185      197.271494
## 5186      110.396618
## 5187      37.570881
## 5188      19.955157
## 5189      10.672008
## 5190      4.944834
## 5191      8.010111
## 5192      29.596295
## 5193      117.039721
## 5194      380.827108
## 5195      517.207855
## 5196      232.650250
## 5197      166.913183
## 5198      165.886010
## 5199      206.494877
## 5200      217.503594
## 5201      181.113379
## 5202      189.901312
```

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## 5205      620.918715
## 5206      435.699226
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## 5209      175.729167
## 5210      108.501000
## 5211      48.768837
## 5212      21.450131
## 5213      11.049286
## 5214      5.185305
## 5215      5.839308
## 5216      31.553271
## 5217      120.333288
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## 5219      423.073612
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## 5232      249.204402
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## 5234      126.685922
## 5235      56.417637
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## 5237      12.008512
## 5238      7.297860
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## 5246      182.060183
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## 5248      241.255577
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## 5250      207.500242
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## 5310	34.538224

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## 5321   339.960243
## 5322   376.867945
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## 5359    6.123997
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## 5364  219.367509
```

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## 5385	125.645325
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## 5392	231.859889
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## 5406	6.005930
## 5407	7.664323
## 5408	29.045801
## 5409	123.417850
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## 5411	455.717519
## 5412	234.310970
## 5413	156.820621
## 5414	175.041994
## 5415	208.138868
## 5416	213.825522
## 5417	190.767126
## 5418	196.088300

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## 5422      249.643348
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## 5435      515.047280
## 5436      283.811206
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## 5472      220.493242
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## 5504	27.705592
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## 5512	231.148125
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## 5522	95.390997
## 5523	40.815414
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## 5525	9.257333
## 5526	6.358533

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## 5535     250.923962
## 5536     349.889808
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## 5538     438.262544
## 5539     418.304344
## 5540     592.675948
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## 5545     174.678412
## 5546      99.069782
## 5547     43.036684
## 5548     25.024590
## 5549      8.374453
## 5550      3.829283
## 5551      6.805871
## 5552     27.670872
## 5553     126.451071
## 5554     366.122151
## 5555     529.683458
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## 5570     107.820267
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## 5578     328.137602
## 5579     532.160892
## 5580     213.503812

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## 5594      112.570657
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## 5601      128.835676
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## 5605      176.399955
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## 5609      223.245893
## 5610      242.049567
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## 5612      530.807878
## 5613      507.248278
## 5614      315.343967
## 5615      260.469026
## 5616      225.729300
## 5617      179.085238
## 5618      125.991495
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## 5624      11.763395
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```

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## 5657      7.054149
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## 5774	106.039402
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## 5831	187.920100
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## 5840	176.614333
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## 5845	42.751233
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## 5849	4.801283
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## 5889    134.363305
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## 5892     42.115943
## 5893     16.660490
## 5894      8.518476
## 5895      3.943956
## 5896      4.650809
## 5897     17.822733
## 5898     78.747900
## 5899     195.551374
## 5900     250.480891
## 5901     140.015567
## 5902     84.031590
## 5903     99.243533
## 5904    104.809733
```

## 5905	139.731300
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## 5907	120.314081
## 5908	143.593967
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## 5912	172.847444
## 5913	97.423033
## 5914	62.207967
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## 5916	25.236524
## 5917	13.039026
## 5918	8.068600
## 5919	4.693194
## 5920	3.569962
## 5921	22.067043
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## 5924	249.472791
## 5925	138.414281
## 5926	64.579467
## 5927	77.749324
## 5928	87.692790
## 5929	126.451143
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## 5931	212.523069
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## 5933	492.547514
## 5934	467.772214
## 5935	333.959733
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## 5937	200.790944
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## 5939	117.289700
## 5940	109.680779
## 5941	82.005878
## 5942	75.670667
## 5943	34.780659
## 5944	9.287933
## 5945	11.653700
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## 5947	49.934333
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## 5949	231.106714
## 5950	337.146000
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## 5952	387.216233
## 5953	412.313040
## 5954	402.221874
## 5955	439.901888
## 5956	433.603044
## 5957	458.732414
## 5958	375.918500

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## 5966      74.823533
## 5967      43.150435
## 5968      13.612133
## 5969      20.394919
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## 5971      47.413433
## 5972      111.507910
## 5973      233.785433
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## 5979      504.786490
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## 5993      121.291708
## 5994      350.338531
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## 5996      232.128701
## 5997      149.791742
## 5998      197.372665
## 5999      215.682556
## 6000      209.559717
## 6001      196.765633
## 6002      242.747726
## 6003      371.128308
## 6004      680.572981
## 6005      604.954207
## 6006      495.339232
## 6007      344.046543
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## 6009      173.368586
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## 6012      16.566966
```

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## 6013      10.350553
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## 6015      6.575558
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## 6018     353.232556
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## 6022     182.460465
## 6023     219.545600
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## 6025     197.128587
## 6026     200.488321
## 6027     330.818091
## 6028     699.910633
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## 6032     250.529068
## 6033     172.228890
## 6034     99.638551
## 6035     43.140171
## 6036     16.504122
## 6037      7.177891
## 6038      7.694120
## 6039      6.777870
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## 6059     43.511761
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## 6063      7.743823
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## 6065     122.261900
## 6066     385.099758

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## 6079      233.513367
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## 6098      227.576990
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## 6105      156.308900
## 6106      129.875700
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## 6117      282.179690
## 6118      347.191800
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## 6120      345.010433
```

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## 6124      362.958662
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## 6135      5.954267
## 6136      7.215100
## 6137      19.899233
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## 6140      182.385000
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## 6144      388.676424
## 6145      368.117067
## 6146      374.629733
## 6147      374.163700
## 6148      365.041057
## 6149      332.884024
## 6150      261.112167
## 6151      201.838467
## 6152      165.511667
## 6153      119.299300
## 6154      87.587967
## 6155      36.907167
## 6156      17.386925
## 6157      11.168867
## 6158      6.043502
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## 6163      519.857357
## 6164      258.684083
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## 6167      205.704467
## 6168      201.051500
## 6169      206.712729
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## 6172      595.600233
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```

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## 6183      6.339967
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## 6188      110.693157
## 6189      53.357125
## 6190      54.095992
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## 6192      96.620956
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## 6217      183.548165
## 6218      189.906132
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```

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## 6237      136.430700
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## 6245      486.385433
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## 6247      217.914744
## 6248      191.720400
## 6249      163.015662
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## 6251      40.607100
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## 6264      31.454978
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## 6268      191.000052
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```

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## 6297      156.683057
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## 6314      374.068710
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## 6350	7.221747
## 6351	7.642500
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## 6353	120.469336
## 6354	306.936724
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## 6373	9.061268
## 6374	5.984636
## 6375	5.855733
## 6376	24.244533
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## 6381	105.754267
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## 6384	177.185948
## 6385	216.476867
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## 6389	447.624533
## 6390	358.582133

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## 6429      185.174008
## 6430      232.838010
## 6431      275.636167
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```

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```

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## 6566	4.240881
## 6567	5.606367
## 6568	29.870652
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## 6651	456.492267
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## 6653	422.406833
## 6654	295.920767
## 6655	217.152257
## 6656	181.084067
## 6657	149.017006
## 6658	114.009167
## 6659	79.749762
## 6660	47.399633

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## 6661      33.994950
## 6662      15.689017
## 6663      12.264483
## 6664      16.252250
## 6665      41.416600
## 6666      161.229867
## 6667      255.558300
## 6668      230.799100
## 6669      312.797700
## 6670      359.189967
## 6671      409.533633
## 6672      391.483733
## 6673      396.679400
## 6674      395.237133
## 6675      425.697767
## 6676      461.687067
## 6677      456.163333
## 6678      332.483500
## 6679      244.603624
## 6680      166.491200
## 6681      128.243092
## 6682      90.231200
## 6683      33.996638
## 6684      16.341033
## 6685      7.358905
## 6686      5.714237
## 6687      5.763026
## 6688      32.800384
## 6689      132.716660
## 6690      407.594287
## 6691      577.375467
## 6692      273.996545
## 6693      169.166519
## 6694      170.495278
## 6695      223.867105
## 6696      228.984105
## 6697      192.551838
## 6698      188.900633
## 6699      387.800771
## 6700      602.691983
## 6701      582.321250
## 6702      326.460867
## 6703      259.700200
## 6704      209.289310
## 6705      170.387750
## 6706      83.495567
## 6707      35.721010
## 6708      12.965967
## 6709      4.884800
## 6710      3.515002
## 6711      5.608167
## 6712      26.875917
## 6713      121.497433
## 6714      287.649214
```

## 6715	460.595705
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## 6717	140.508146
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## 6722	82.349567
## 6723	163.608089
## 6724	218.734000
## 6725	206.350467
## 6726	169.261800
## 6727	142.548633
## 6728	119.864967
## 6729	66.895967
## 6730	59.213333
## 6731	22.717838
## 6732	15.205286
## 6733	6.936098
## 6734	6.386405
## 6735	6.799638
## 6736	20.956950
## 6737	78.513210
## 6738	126.659306
## 6739	202.012406
## 6740	107.782765
## 6741	79.616691
## 6742	131.437000
## 6743	127.337478
## 6744	171.089700
## 6745	167.023062
## 6746	171.647662
## 6747	308.915905
## 6748	411.247417
## 6749	385.291033
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## 6752	165.290367
## 6753	150.872268
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## 6755	37.337794
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## 6758	6.976571
## 6759	7.483381
## 6760	21.928100
## 6761	101.469119
## 6762	148.522500
## 6763	382.950991
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## 6765	107.176607
## 6766	85.537377
## 6767	82.339367
## 6768	175.680700

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## 6773      604.723062
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## 6777      152.961750
## 6778      106.328067
## 6779      122.597233
## 6780      84.285057
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## 6782      24.947677
## 6783      8.220667
## 6784      8.915086
## 6785      22.480919
## 6786      59.965326
## 6787      130.203283
## 6788      241.813333
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## 6791      443.220880
## 6792      433.550818
## 6793      450.364892
## 6794      416.722048
## 6795      465.927433
## 6796      500.545333
## 6797      449.640251
## 6798      273.879564
## 6799      211.391917
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## 6806      32.759848
## 6807      11.545733
## 6808      9.924919
## 6809      16.784879
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## 6814      442.294945
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## 6822      252.907067
```

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## 6831      7.030689
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## 6835      495.082317
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## 6837      159.462267
## 6838      196.292946
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## 6842      206.411159
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## 6845      552.920580
## 6846      378.679554
## 6847      246.640485
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## 6855      4.701848
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## 6862      192.639100
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## 6870      376.667202
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## 6876      15.044033
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## 6893	248.014333
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## 6895	142.465933
## 6896	111.358957
## 6897	77.910267
## 6898	28.349043
## 6899	16.425583
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## 6903	29.564716
## 6904	109.391771
## 6905	335.634889
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## 6908	147.232271
## 6909	158.183300
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## 6911	210.808795
## 6912	173.235433
## 6913	179.355600
## 6914	274.412467
## 6915	492.937277
## 6916	488.236829
## 6917	359.556567
## 6918	245.865781
## 6919	168.246465
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## 6921	109.092403
## 6922	46.050217
## 6923	24.393079
## 6924	13.645586
## 6925	6.132819
## 6926	6.467167
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## 6928	106.903341
## 6929	285.149481
## 6930	471.456681

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## 6936      244.114726
## 6937      235.693773
## 6938      327.568250
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## 6943      176.523809
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## 6945      110.810037
## 6946      97.948462
## 6947      83.958790
## 6948      59.373095
## 6949      26.093844
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## 6953      58.302974
## 6954      124.728405
## 6955      194.993167
## 6956      256.193638
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## 6958      355.610333
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## 6967      144.888645
## 6968      126.548383
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## 6970      89.220814
## 6971      73.323609
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## 6973      33.275708
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## 6975      6.390610
## 6976      14.935576
## 6977      37.174378
## 6978      103.605867
## 6979      171.656100
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## 6984      414.525867
```

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## 6994	38.079622
## 6995	13.969829
## 6996	6.865467
## 6997	5.307226
## 6998	6.356055
## 6999	25.725652
## 7000	98.870416
## 7001	285.938310
## 7002	481.887786
## 7003	232.204719
## 7004	142.141700
## 7005	181.981244
## 7006	228.695400
## 7007	222.096671
## 7008	224.823738
## 7009	198.756859
## 7010	331.233445
## 7011	637.472652
## 7012	546.284529
## 7013	239.270100
## 7014	184.071683
## 7015	161.916533
## 7016	112.851510
## 7017	84.757033
## 7018	36.401884
## 7019	13.923411
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## 7021	6.748631
## 7022	6.005357
## 7023	26.235612
## 7024	116.283843
## 7025	321.822207
## 7026	586.815004
## 7027	273.257771
## 7028	153.758271
## 7029	187.343329
## 7030	257.723390
## 7031	291.518288
## 7032	233.322845
## 7033	246.561767
## 7034	387.223852
## 7035	688.340390
## 7036	613.289100
## 7037	358.260717
## 7038	259.623881

```

## 7039      188.392542
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## 7041      98.509683
## 7042      42.580358
## 7043      15.057727
## 7044      5.451116
## 7045      4.240881
## 7046      5.834833
## 7047      30.146319
## 7048      110.652748
## 7049      328.844225
## 7050      504.714223
## 7051      253.014092
## 7052      152.733057
## 7053      165.042148
## 7054      212.938800
## 7055      138.329033
## 7056      102.784595
## 7057      101.647662
## 7058      251.102600
## 7059      494.706133
## 7060      515.393000
## 7061      333.812178
## 7062      229.698050
## 7063      180.904467
## 7064      138.817173
## 7065      78.527567
## 7066      33.531748
## 7067      13.878237
## 7068      7.291331
## 7069      4.559976
## 7070      5.957904
## 7071      20.763383
## 7072      67.032252
## 7073      218.928476
## 7074      295.089967
## 7075      257.433933
## 7076      64.505315
## 7077      58.792888
## 7078      59.504712
## 7079      121.161578
## 7080      108.500476
## 7081      133.635533
## 7082      330.565583
## 7083      404.565167
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## 7085      236.698233
## 7086      202.700514
## 7087      145.044965
## 7088      107.486191
## 7089      71.376330
## 7090      41.589775
## 7091      19.946510
## 7092      7.334435

```

```

## 7093      6.948258
## 7094      9.155948
## 7095     29.237811
## 7096     98.132478
## 7097    281.392800
## 7098    472.796244
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## 7104   189.943024
## 7105   216.909081
## 7106   320.570457
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## 7108   436.218564
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## 7110   151.242014
## 7111   74.841567
## 7112   48.703505
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## 7114   31.679921
## 7115   28.143938
## 7116   25.959352
## 7117   13.595167
## 7118   4.854500
## 7119   3.894081
## 7120   10.048748
## 7121   23.047819
## 7122   36.405167
## 7123   35.226167
## 7124   27.031000
## 7125   27.686586
## 7126   40.511769
## 7127   37.343136
## 7128   34.660269
## 7129   61.961359
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## 7131   38.066675
## 7132   41.225331
## 7133   73.122733
## 7134   58.415195
## 7135   60.527033
## 7136   57.661863
## 7137   42.899114
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## 7139   47.210233
## 7140   43.977344
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## 7143   5.930867
## 7144   13.386862
## 7145   34.111437
## 7146   97.732222

```

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## 7157      242.165033
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## 7159      99.603695
## 7160      79.323644
## 7161      50.479633
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## 7163      11.628038
## 7164      4.667525
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## 7166      5.554044
## 7167      20.783802
## 7168      85.757775
## 7169      213.112621
## 7170      413.399114
## 7171      235.707079
## 7172      135.812187
## 7173      170.500094
## 7174      197.126160
## 7175      177.270833
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## 7177      193.424967
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## 7181      282.656683
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## 7200      172.833838
```

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## 7235	13.083226
## 7236	7.009253
## 7237	5.495491
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## 7243	209.231162
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## 7253	256.968933
## 7254	215.090673

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## 7255      161.709163
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## 7308      44.539748
```

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## 7329	54.209262
## 7330	17.816137
## 7331	10.041920
## 7332	3.482168
## 7333	3.497065
## 7334	4.791557
## 7335	25.330883
## 7336	96.909386
## 7337	300.459332
## 7338	416.050683
## 7339	199.785429
## 7340	134.125762
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## 7343	192.341512
## 7344	192.551500
## 7345	199.215352
## 7346	300.704968
## 7347	516.649424
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## 7351	149.862232
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## 7353	65.425052
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## 7356	3.193279
## 7357	2.957206
## 7358	4.389252
## 7359	24.464088
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## 7362	470.776908

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## 7406	5.576159
## 7407	22.710138
## 7408	104.408748
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## 7411	229.976086
## 7412	133.800733
## 7413	131.882754
## 7414	175.566600
## 7415	90.179344
## 7416	72.517315

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## 7417      82.179577
## 7418      116.314594
## 7419      164.954277
## 7420      330.328300
## 7421      268.354474
## 7422      186.965938
## 7423      139.903737
## 7424      112.399125
## 7425      95.389861
## 7426      55.574819
## 7427      26.674147
## 7428      18.441067
## 7429      8.286344
## 7430      7.952605
## 7431      11.775467
## 7432      35.124224
## 7433      116.762267
## 7434      206.106779
## 7435      200.663567
## 7436      200.687652
## 7437      200.960852
## 7438      226.813352
## 7439      236.945223
## 7440      241.080690
## 7441      238.202245
## 7442      247.305906
## 7443      277.544769
## 7444      215.270391
## 7445      187.440846
## 7446      114.863746
## 7447      81.881700
## 7448      86.148396
## 7449      72.357650
## 7450      66.864500
## 7451      58.580167
## 7452      43.583332
## 7453      14.354396
## 7454      6.676494
## 7455      5.408133
## 7456      10.776110
## 7457      36.341681
## 7458      100.568689
## 7459      154.163967
## 7460      258.649190
## 7461      341.445407
## 7462      374.901543
## 7463      396.913707
## 7464      422.932655
## 7465      397.323667
## 7466      385.868005
## 7467      313.635100
## 7468      221.388062
## 7469      210.954995
## 7470      154.139433
```

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## 7471      129.192633
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## 7474      85.795467
## 7475      76.421733
## 7476      62.544409
## 7477      27.557044
## 7478      8.229100
## 7479      7.276033
## 7480      20.210257
## 7481      53.100649
## 7482      104.468300
## 7483      177.133057
## 7484      269.734150
## 7485      315.481945
## 7486      357.183867
## 7487      356.086967
## 7488      380.914233
## 7489      336.296133
## 7490      377.258467
## 7491      278.141000
## 7492      262.561483
## 7493      198.478017
## 7494      162.394450
## 7495      124.171267
## 7496      101.149056
## 7497      83.313867
## 7498      35.944905
## 7499      13.729851
## 7500      14.259247
## 7501      5.987524
## 7502      5.838354
## 7503      28.223383
## 7504      115.333437
## 7505      360.596633
## 7506      509.918717
## 7507      231.334695
## 7508      129.975295
## 7509      146.932598
## 7510      195.406038
## 7511      211.457933
## 7512      199.995500
## 7513      207.041200
## 7514      327.833567
## 7515      546.891895
## 7516      496.288969
## 7517      357.117625
## 7518      280.214810
## 7519      233.833400
## 7520      138.396033
## 7521      88.977867
## 7522      32.850400
## 7523      14.765126
## 7524      13.415809
```

```

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## 7529     364.357700
## 7530     514.049307
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## 7532     138.298345
## 7533     152.961822
## 7534     193.355600
## 7535     146.757217
## 7536     162.594317
## 7537     189.371033
## 7538     301.038274
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## 7542     217.257867
## 7543     167.699100
## 7544     129.334644
## 7545     85.299533
## 7546     23.814448
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## 7548     8.299067
## 7549     4.911367
## 7550     4.689000
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## 7560     109.179900
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## 7563     306.229333
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## 7566     97.188733
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## 7568     55.982367
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## 7570     25.728035
## 7571     10.275195
## 7572     5.953567
## 7573     4.087886
## 7574     5.905000
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## 7577     236.774090
## 7578     348.607050

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## 7592	99.899746
## 7593	67.614375
## 7594	32.778085
## 7595	12.955081
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## 7597	4.784686
## 7598	6.154152
## 7599	27.123206
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## 7601	294.613064
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## 7606	195.665000
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## 7608	177.253391
## 7609	183.557621
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## 7611	460.736325
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## 7627	149.717843
## 7628	217.447537
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## 7632	385.138519

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## 7635	296.260080
## 7636	238.103129
## 7637	197.497564
## 7638	164.648633
## 7639	123.923933
## 7640	119.119933
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## 7644	55.502800
## 7645	32.070132
## 7646	11.363333
## 7647	7.359033
## 7648	15.065167
## 7649	53.092979
## 7650	102.682271
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## 7657	351.840600
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## 7659	235.575171
## 7660	224.429671
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## 7664	54.134500
## 7665	40.543800
## 7666	23.814448
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## 7670	4.397757
## 7671	22.381038
## 7672	78.236040
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## 7674	409.928276
## 7675	243.367752
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## 7685	132.412156
## 7686	100.976033

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## 7693	4.423293
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## 7695	16.961824
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## 7703	33.183404
## 7704	33.102737
## 7705	55.504941
## 7706	86.316987
## 7707	151.186998
## 7708	151.960762
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## 7712	111.711500
## 7713	56.295917
## 7714	19.466871
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## 7717	3.825933
## 7718	5.705148
## 7719	19.211638
## 7720	75.762740
## 7721	200.335902
## 7722	395.529162
## 7723	203.342767
## 7724	109.458567
## 7725	135.385454
## 7726	178.629800
## 7727	186.413024
## 7728	207.418767
## 7729	203.562467
## 7730	230.991830
## 7731	206.177267
## 7732	276.606733
## 7733	213.894360
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## 7737	69.633205
## 7738	39.892786
## 7739	25.517047
## 7740	21.290914

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## 7742      5.478738
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## 7745     60.454806
## 7746    111.034533
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## 7753   191.088921
## 7754   235.370371
## 7755   152.341546
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## 7757    99.167483
## 7758    62.605117
## 7759    50.378833
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## 7761    40.386900
## 7762    29.200322
## 7763    13.844423
## 7764     8.314841
## 7765     2.885358
## 7766     6.566406
## 7767    18.512117
## 7768    54.613202
## 7769   160.587827
## 7770   281.131900
## 7771   206.603875
## 7772   150.276959
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## 7774   237.118981
## 7775   233.937181
## 7776   280.698889
## 7777   328.090741
## 7778   322.423597
## 7779   373.192733
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## 7781   226.429996
## 7782   162.058878
## 7783   130.612852
## 7784   105.027810
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## 7786    76.458448
## 7787    65.054776
## 7788    44.423712
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## 7794   91.719960
```

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## 7804      210.949500
## 7805      175.434467
## 7806      160.721567
## 7807      106.819900
## 7808      92.212667
## 7809      68.834159
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## 7811      60.824588
## 7812      41.328469
## 7813      29.097905
## 7814      6.837510
## 7815      7.549981
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## 7817      46.180312
## 7818      88.609300
## 7819      148.753957
## 7820      219.199836
## 7821      292.628167
## 7822      344.770967
## 7823      351.023533
## 7824      379.130759
## 7825      415.171233
## 7826      397.597400
## 7827      298.120938
## 7828      230.872000
## 7829      200.562029
## 7830      157.746302
## 7831      116.015567
## 7832      90.016822
## 7833      59.394000
## 7834      26.589908
## 7835      13.664050
## 7836      5.220510
## 7837      5.202250
## 7838      28.953502
## 7839      104.075670
## 7840      308.611102
## 7841      427.119690
## 7842      221.547752
## 7843      131.849083
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## 7845      188.288538
## 7846      199.474767
## 7847      193.901467
## 7848      177.820405
```

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## 7858      19.330542
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## 7860      4.049667
## 7861      6.208652
## 7862      26.303143
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## 7866      194.983867
## 7867      103.371967
## 7868      42.633750
## 7869      48.496960
## 7870      62.606227
## 7871      47.508850
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## 7873      141.281810
## 7874      371.646067
## 7875      372.798800
## 7876      268.442233
## 7877      187.438386
## 7878      130.241863
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## 7880      57.064343
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## 7882      11.849504
## 7883      6.472100
## 7884      2.782958
## 7885      5.996696
## 7886      22.680243
## 7887      81.336682
## 7888      247.175572
## 7889      435.996748
## 7890      215.526538
## 7891      135.681222
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## 7893      185.287743
## 7894      160.976183
## 7895      151.442233
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## 7902      151.268548
```

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## 7916      132.209019
## 7917      185.876323
## 7918      168.645102
## 7919      162.377502
## 7920      168.411602
## 7921      253.556533
## 7922      446.437362
## 7923      421.408740
## 7924      268.131139
## 7925      207.535346
## 7926      165.658260
## 7927      115.956093
## 7928      74.427805
## 7929      38.395933
## 7930      13.651910
## 7931      8.669113
## 7932      3.238625
## 7933      3.196067
## 7934      23.446604
## 7935      81.134591
## 7936      235.589060
## 7937      428.491581
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## 7940      171.367517
## 7941      199.513580
## 7942      216.946752
## 7943      194.950767
## 7944      221.620234
## 7945      291.870734
## 7946      430.576918
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## 7951      115.989483
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## 7953      66.989867
## 7954      70.647105
## 7955      53.159005
## 7956      15.514077
```

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## 7964	263.513433
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## 7967	335.220316
## 7968	363.493644
## 7969	329.979833
## 7970	255.755895
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## 7972	176.871559
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## 7977	87.094852
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## 7981	8.635310
## 7982	6.110179
## 7983	11.010167
## 7984	40.516489
## 7985	84.622176
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## 7993	352.930973
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## 7998	96.246809
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## 8029      5.782657
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## 8036      68.357492
## 8037      103.166075
## 8038      62.060460
## 8039      92.551630
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## 8045      124.723987
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## 8050      13.795381
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## 8053      3.436843
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## 8062      53.451595
## 8063      45.587538
## 8064      79.568263
```

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## 8083    128.528298
## 8084    127.232560
## 8085    148.184272
## 8086    143.311648
## 8087    151.398327
## 8088    161.534346
## 8089    252.532696
## 8090    414.502530
## 8091    372.211033
## 8092    271.403665
## 8093    188.847932
## 8094    157.784060
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## 8097      34.272452
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## 8099      9.532654
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## 8101      3.196067
## 8102      21.550058
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## 8105    399.145029
## 8106    273.838271
## 8107      136.567874
## 8108    147.108452
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## 8111    184.487816
## 8112    192.716016
## 8113    296.563873
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## 8116    252.441711
## 8117    165.324400
## 8118    155.668532
```

```

## 8119      121.885698
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## 8135      290.205327
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## 8140      141.661640
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## 8142      82.933500
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## 8160      252.530991
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```

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## 8178    251.260617
## 8179   131.775431
## 8180   141.869554
## 8181   159.903848
## 8182   157.788386
## 8183   142.914100
## 8184   151.701752
## 8185   248.414914
## 8186   382.945003
## 8187   363.860356
## 8188   262.168662
## 8189   195.211529
## 8190   142.478403
## 8191    99.581395
## 8192    66.910676
## 8193    20.453208
## 8194     8.364975
## 8195     3.642847
## 8196     3.116596
## 8197     3.749750
## 8198   22.126240
## 8199   85.692045
## 8200   248.440479
## 8201   516.905067
## 8202   276.837805
## 8203   130.156271
## 8204   139.266119
## 8205   186.069267
## 8206   161.596330
## 8207   154.383183
## 8208   174.133802
## 8209   257.897936
## 8210   426.447018
## 8211   417.102761
## 8212   311.003565
## 8213   202.465220
## 8214   157.834873
## 8215   107.898128
## 8216     73.497671
## 8217    24.897054
## 8218    12.254724
## 8219     5.616381
## 8220     4.130956
## 8221     4.335721
## 8222    24.871946
## 8223    87.629158
## 8224   268.690676
## 8225   449.002942
## 8226   266.676877
```

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## 8227      148.881682
## 8228      150.187894
## 8229      157.444617
## 8230      161.509236
## 8231      167.089340
## 8232      182.545992
## 8233      289.189706
## 8234      429.314151
## 8235      414.533690
## 8236      273.811770
## 8237      186.306236
## 8238      156.671605
## 8239      113.057061
## 8240      71.257524
## 8241      43.524466
## 8242      18.252876
## 8243      7.430848
## 8244      3.758249
## 8245      6.178782
## 8246      27.037605
## 8247      102.496440
## 8248      297.983462
## 8249      525.897792
## 8250      273.098895
## 8251      131.872190
## 8252      147.731099
## 8253      178.639769
## 8254      174.075767
## 8255      163.827100
## 8256      140.983967
## 8257      175.102636
## 8258      423.506329
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## 8260      324.704867
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## 8262      187.970043
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## 8264      111.619700
## 8265      53.366533
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## 8267      16.510947
## 8268      5.435422
## 8269      7.189239
## 8270      30.606971
## 8271      96.863450
## 8272      301.114200
## 8273      518.736069
## 8274      263.917879
## 8275      138.938967
## 8276      155.750077
## 8277      165.783324
## 8278      163.529933
## 8279      164.090724
## 8280      158.629619
```

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## 8291      54.614052
## 8292      21.824291
## 8293      8.223539
## 8294      7.945000
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## 8296      31.405633
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## 8301      232.104500
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## 8303      231.815900
## 8304      228.142495
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## 8306      163.900123
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## 8313      68.829267
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## 8315      46.895100
## 8316      17.326072
## 8317      4.558150
## 8318      5.892357
## 8319      8.437867
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## 8325      214.374495
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## 8327      227.793167
## 8328      235.110461
## 8329      223.330640
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## 8332      137.159174
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## 8334      88.100462
```

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## 8345      434.382381
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## 8350      147.602182
## 8351      169.759856
## 8352      194.207923
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## 8354      445.465119
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## 8370      269.265710
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## 8372      152.197884
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## 8374      182.066626
## 8375      167.408861
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## 8377      284.380182
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## 8381      178.328300
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## 8385      24.593100
## 8386      13.305167
## 8387      5.583310
## 8388      3.054500
```

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## 8394	216.340461
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## 8399	75.185300
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## 8406	143.138495
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## 8408	71.643048
## 8409	29.722545
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## 8433	14.229300
## 8434	12.240567
## 8435	9.715567
## 8436	4.435900
## 8437	3.200600
## 8438	11.669962
## 8439	57.726668
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## 8441	232.827471
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## 8462      4.069190
## 8463      10.268333
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## 8517	142.842181
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## 8521	73.956100
## 8522	60.909622
## 8523	49.709167
## 8524	43.673733
## 8525	34.676833
## 8526	31.080600
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## 8530	3.292433
## 8531	3.263200
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## 8534	146.100046
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## 8536	95.850556
## 8537	101.603129
## 8538	57.602323
## 8539	41.892085
## 8540	34.092340
## 8541	28.039983
## 8542	28.591183
## 8543	74.369367
## 8544	151.328233
## 8545	160.832950
## 8546	120.533800
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## 8548	64.838667
## 8549	43.255067
## 8550	32.569767

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## 8581      114.124506
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## 8590      190.131576
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## 8593      135.148882
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## 8597      42.755333
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## 8601      4.475700
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## 8604      41.846870

```

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## 8612      222.377088
## 8613      251.868267
## 8614      252.897023
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## 8618      97.066330
## 8619      92.966257
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## 8623      38.281148
## 8624      31.951814
## 8625      18.222533
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## 8627      3.959167
## 8628      11.151700
## 8629      77.163467
## 8630      58.873776
## 8631      106.200833
## 8632      134.318467
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## 8634      349.297857
## 8635      318.641667
## 8636      272.335790
## 8637      247.961789
## 8638      208.433300
## 8639      139.462567
## 8640      113.745657
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## 8645      43.918633
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## 8647      65.167200
## 8648      56.154289
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## 8650      7.509200
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```

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## 8662      193.728400
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## 8670      38.565700
## 8671      22.576100
## 8672      18.395967
## 8673      4.306667
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## 8684      165.931798
## 8685      160.852248
## 8686      157.245700
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## 8688      105.834267
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## 8690      63.791500
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## 8693      12.032083
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## 8695      2.824547
## 8696      2.650267
## 8697      3.660573
## 8698      10.039539
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## 8701      269.192095
## 8702      139.101481
## 8703      58.820402
## 8704      73.400292
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## 8707      72.157150
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## 8711      209.464066
## 8712      145.103345
```

```

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## 8722      9.893677
## 8723      53.841901
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## 8725      278.589435
## 8726      171.898184
## 8727      60.738828
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## 8733      105.465376
## 8734      227.279528
## 8735      243.121123
## 8736      173.216954
## 8737      125.587218
## 8738      83.549667
## 8739      50.364600
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## 8743      4.356152
## 8744      3.541400
## 8745      3.762633
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## 8747      65.866421
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## 8763      76.720690
## 8764      49.033433
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## 8766      6.904000

```

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```

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## 8828	332.455493
## 8829	318.095093
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## 8833	103.076114
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## 8840	3.176645
## 8841	3.284103
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## 8853	60.100468
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## 8855	152.084267
## 8856	134.695143
## 8857	103.909890
## 8858	66.385100
## 8859	51.764500
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## 8863	3.800856
## 8864	2.699400
## 8865	22.514816
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## 8867	190.649592
## 8868	334.025261
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## 8871	125.190959
## 8872	146.993039
## 8873	155.789991
## 8874	132.559303

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## 8912      2.750376
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## 8940	348.015389
## 8941	208.277586
## 8942	95.917045
## 8943	109.723830
## 8944	114.636130
## 8945	137.974478
## 8946	135.571378
## 8947	135.440892
## 8948	185.025036
## 8949	310.201381
## 8950	269.552845
## 8951	203.926385
## 8952	122.274131
## 8953	96.443823
## 8954	59.384486
## 8955	45.495081
## 8956	39.602733
## 8957	40.162500
## 8958	30.932989
## 8959	14.785056
## 8960	3.761745
## 8961	4.040102
## 8962	5.787978
## 8963	18.771244
## 8964	63.566605
## 8965	75.214171
## 8966	116.807833
## 8967	149.082567
## 8968	177.708408
## 8969	175.270038
## 8970	197.119638
## 8971	191.688538
## 8972	151.816344
## 8973	135.675840
## 8974	122.585803
## 8975	90.707005
## 8976	85.205350
## 8977	60.641700
## 8978	56.485433
## 8979	51.731733
## 8980	48.380000
## 8981	41.130267
## 8982	36.932667

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## 8985	5.178524
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## 8993	182.286843
## 8994	136.086519
## 8995	174.100374
## 8996	177.015148
## 8997	141.610263
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## 9003	31.100495
## 9004	25.200533
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## 9007	6.435022
## 9008	6.167600
## 9009	5.479548
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## 9015	142.733033
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## 9017	195.076839
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## 9019	179.807870
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## 9023	127.354205
## 9024	82.137333
## 9025	57.017633
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## 9028	15.326064
## 9029	6.832452
## 9030	8.628000
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## 9035	135.806570
## 9036	95.707662

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## 9063 143.914178
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## 9070 199.518811
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## 9072 103.307250
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## 9075  11.814350
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## 9077   2.622974
## 9078   2.366729
## 9079   2.120800
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## 9082 147.884950
## 9083 345.593354
## 9084 181.106695
## 9085  82.729759
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## 9088  92.675914
## 9089 102.688949
## 9090 116.724459
```

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## 9113      107.367096
## 9114      123.081470
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## 9128      2.655610
## 9129      3.315267
## 9130      18.077482
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```

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## 9153      3.647241
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## 9162      167.106131
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## 9193      72.938495
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## 9232   193.348811
## 9233   164.403278
## 9234   174.340550
## 9235   211.822817
## 9236   367.599911
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## 9414      3.700013
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## 9468    127.726605
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## 9521	164.362129
## 9522	241.318589

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## 9718	187.907918
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## 9725	2.920047
## 9726	2.093524
## 9727	24.363202
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## 9731	222.378563
## 9732	122.194143
## 9733	134.281292
## 9734	177.317310
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## 9736	148.755319
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## 9742	193.039908
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## 9744	107.137958
## 9745	63.454948
## 9746	25.106590
## 9747	8.224210
## 9748	6.492981
## 9749	2.117813
## 9750	3.048233
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## 9753	273.651208
## 9754	450.552571
## 9755	215.888100
## 9756	62.947200
## 9757	64.403886
## 9758	56.546952
## 9759	76.299967
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## 9763	245.188324
## 9764	259.063724
## 9765	212.093900
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## 9768	103.806593
## 9769	65.485373
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## 9998	270.633242
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## 10467   7.347550
## 10468   18.522687
## 10469   67.589267
## 10470   171.219760
## 10471   287.524917
## 10472   447.575833
## 10473   500.801767
## 10474   580.405500
## 10475   630.068624
## 10476   645.238924
## 10477   642.312867
## 10478   622.365756
## 10479   588.258456
## 10480   543.773889
## 10481   396.710689
## 10482   271.361024
## 10483   216.539878
## 10484   194.264367
## 10485   139.499452
## 10486   94.025510
## 10487   88.933176
## 10488   54.890000
## 10489   21.073867
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## 10491   6.938594
## 10492   13.437221
## 10493   68.768100
## 10494   161.782649
```

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## 10499      431.506367
## 10500      488.988833
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## 10502      510.046624
## 10503      508.979122
## 10504      462.380579
## 10505      364.500846
## 10506      225.512233
## 10507      181.092567
## 10508      125.821319
## 10509      74.695786
## 10510      32.676067
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## 10512      9.835633
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## 10514      5.490400
## 10515      26.676783
## 10516      113.987058
## 10517      364.046703
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## 10521      208.631114
## 10522      263.613367
## 10523      260.561967
## 10524      265.668800
## 10525      276.101770
## 10526      382.538981
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## 10529      502.248400
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## 10540      103.722070
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## 10543      305.570829
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## 10545      229.005643
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## 10548      253.789133
```

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## 10558      36.721574
## 10559      28.939069
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## 10569      184.440283
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## 10586      6.861800
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```

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## 10656      38.043733
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## 10705      4.244786
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## 10818      177.692933

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## 10869      39.761800
## 10870      16.054921
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```

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```

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## 11111      7.202690
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```

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## 11178      145.472906
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```

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## 11223      499.928949
## 11224      356.047536
## 11225      261.575967
## 11226      156.669310
## 11227      95.383543
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## 11231      7.242000
## 11232      8.167500
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## 11237      256.285200
## 11238      164.662800
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## 11243      114.780667
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## 11245      425.965383
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## 11248      239.327900
## 11249      157.251000
## 11250      139.056283
```

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## 11260      577.778200
## 11261      283.263828
## 11262      182.220100
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## 11267      241.657756
## 11268      365.975122
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## 11272      346.353317
## 11273      237.613726
## 11274      196.102129
## 11275      124.775333
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## 11296      324.629539
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## 11298      182.714667
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## 11302      70.079586
## 11303      27.379161
## 11304      7.406949
```

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## 11982     404.619243
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## 11984     610.276806
## 11985     643.573089
## 11986     659.007300
## 11987     654.720186
## 11988     586.444996
## 11989     583.542000
## 11990     567.291067
## 11991     408.502767
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## 11993     261.046067
## 11994     272.199500
## 11995     192.754300
## 11996     157.880579
## 11997     111.976494
## 11998      84.944350
## 11999      48.519538
## 12000     14.405995
## 12001     10.715263
## 12002     26.191542
## 12003     76.208433
## 12004     164.107245
## 12005     299.258983
## 12006     419.151625

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## 12007      544.472855
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## 12024      5.777385
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```

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```

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## 12516	492.379938
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## 12742      7.813616
## 12743      6.899986
## 12744      6.589129
## 12745      34.081706
## 12746      145.304167
## 12747      410.050033
## 12748      587.814733
## 12749      300.648533
## 12750      144.006005
## 12751      176.358200
## 12752      176.003933
## 12753      191.740867
## 12754      177.773495
## 12755      168.000376
## 12756      301.543176
## 12757      633.355071
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## 12759      503.623800
## 12760      397.645448
## 12761      309.895567
## 12762      244.019634
```

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## 12763      124.161133
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## 12768      9.506007
## 12769      34.173437
## 12770      141.577167
## 12771      397.058742
## 12772      535.398773
## 12773      248.200167
## 12774      163.474657
## 12775      166.363575
## 12776      221.662052
## 12777      193.586110
## 12778      201.419500
## 12779      211.033343
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## 12782      657.428155
## 12783      464.879622
## 12784      387.304617
## 12785      298.285400
## 12786      214.265212
## 12787      136.795950
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## 12790      12.035447
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## 12793      35.457817
## 12794      125.177775
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## 12796      557.170167
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## 12798      162.941724
## 12799      215.534074
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## 12801      264.253557
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## 12803      250.313410
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## 12805      675.302333
## 12806      567.770367
## 12807      357.310367
## 12808      251.632052
## 12809      208.116900
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## 12811      150.872362
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## 12813      112.649443
## 12814      82.824333
## 12815      37.524300
## 12816      14.307790
```

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## 12823     473.973247
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## 12832     363.405833
## 12833     299.443218
## 12834     244.556400
## 12835     182.205890
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## 12837     110.844833
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## 12849     564.340924
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## 12852     474.270349
## 12853     488.789562
## 12854     498.382538
## 12855     412.517633
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## 12857     250.864718
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## 12859     106.491633
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## 12865      36.478598
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## 12878      752.685022
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## 12886      10.843494
## 12887      8.782167
## 12888      9.353800
## 12889      33.997851
## 12890      159.750362
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```

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## 12936      9.239233
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## 12941      303.165100
## 12942      178.188769
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## 12944      254.807455
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## 12946      248.251788
## 12947      238.713922
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## 12949      657.982033
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## 12978      177.560500
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## 12994      433.392812
## 12995      429.012810
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## 12997      352.654833
## 12998      351.407100
## 12999      376.004183
## 13000      283.221767
## 13001      215.154185
## 13002      182.223312
## 13003      147.697100
## 13004      139.022831
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## 13016      402.392560
## 13017      405.483638
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## 13019      362.248131
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## 13023      368.577294
## 13024      301.535343
## 13025      271.952996
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## 13047     549.392299
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## 13068     459.230748
## 13069     691.466667
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## 13072     333.458633
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## 13074     184.145009
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## 13086     394.746964
```

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## 13097      416.291900
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## 13100      72.608084
## 13101      27.159262
## 13102      15.670948
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## 13104      6.961953
## 13105      31.034993
## 13106      129.252483
## 13107      365.654010
## 13108      534.862855
## 13109      292.051685
## 13110      178.024111
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## 13117      614.395357
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## 13126      14.094973
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## 13133      261.737879
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## 13135      214.289667
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## 13140      347.013494
```

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## 13147      141.717939
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## 13149      79.800472
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## 13152      15.348135
## 13153      15.448600
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## 13157      247.818192
## 13158      317.905244
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## 13160      362.448533
## 13161      366.332667
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## 13163      298.599148
## 13164      304.858104
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## 13166      285.041771
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## 13177      9.230440
## 13178      23.743043
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## 13218      213.179082
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## 13225      41.135756
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## 13230      168.235451
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## 13233      259.294992
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```

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```

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## 13355      426.597226
## 13356      448.515281
```

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```

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## 13445      282.635349
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```

```

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## 13500     279.873433
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## 13502     227.793667
## 13503     240.415067
## 13504     202.699600
## 13505     165.913556
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## 13507     136.494800
## 13508     118.986302
## 13509     110.929467
## 13510     96.713367
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## 13512     12.186995
## 13513      9.705495
## 13514     23.505871
## 13515     46.104233
## 13516     139.045233
## 13517     250.012543
## 13518     388.116833

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## 13535      6.970324
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## 13537      41.417381
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## 13539      409.768645
## 13540      661.909950
## 13541      311.826411
## 13542      176.283946
## 13543      204.321288
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## 13545      256.744655
## 13546      241.868067
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## 13555      114.782321
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## 13560      6.068602
## 13561      43.793843
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## 13563      451.903938
## 13564      580.107811
## 13565      286.825675
## 13566      175.837103
## 13567      196.783025
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## 13570      209.084667
## 13571      260.987143
## 13572      418.176021
```

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## 13586      159.707855
## 13587      438.159352
## 13588      613.074110
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## 13590      200.711367
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## 13595      287.420861
## 13596      432.489632
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## 13626      208.570538

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```

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```

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```

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```

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## 14259      460.222040
## 14260      666.465287
## 14261      345.124007
## 14262      207.772965
## 14263      233.013683
## 14264      284.639000
## 14265      293.958697
## 14266      281.372007
## 14267      300.763385
## 14268      435.128387
## 14269      716.775533
## 14270      693.366400
## 14271      504.196667
## 14272      368.052906
## 14273      290.510735
## 14274      239.912152
```

```

## 14275      135.078037
## 14276      50.620792
## 14277      23.568889
## 14278      14.810499
## 14279      7.708829
## 14280      8.336893
## 14281      34.058012
## 14282      160.665033
## 14283      407.292152
## 14284      702.608886
## 14285      371.202820
## [ reached 'max' / getOption("max.print") -- omitted 3094 rows ]

RandForest.c=cor(all.predictions$Actual,all.predictions$RandForest)
LinModel.c=cor(all.predictions$Actual,all.predictions$LinModel)
RPart=cor(all.predictions$Actual,all.predictions$RPart)
svm.c=cor(all.predictions$Actual,all.predictions$svm)
nnet.c=cor(all.predictions$Actual,all.predictions$nnet)

## Warning in cor(all.predictions$Actual, all.predictions$nnet): the standard
## deviation is zero

RandForestKFold.c=cor(all.predictions$Actual,all.predictions$RandForestKFold)

predict.vs.actual.correlation=data.frame(RandForest.c,
                                         LinModel.c,
                                         RPart,
                                         svm.c,
                                         nnet.c,
                                         RandForestKFold.c)
predict.vs.actual.correlation

##   RandForest.c LinModel.c      RPart      svm.c nnet.c RandForestKFold.c
## 1    0.9778838  0.5814736  0.6393053  0.5767638     NA    0.9838914

```

RandForest.c LinModel.c RPart svm.c nnet.c RandForestKFold.c

1 0.9778838 0.5814736 0.6393053 0.5767638 NA 0.9838384

Integrating clusters

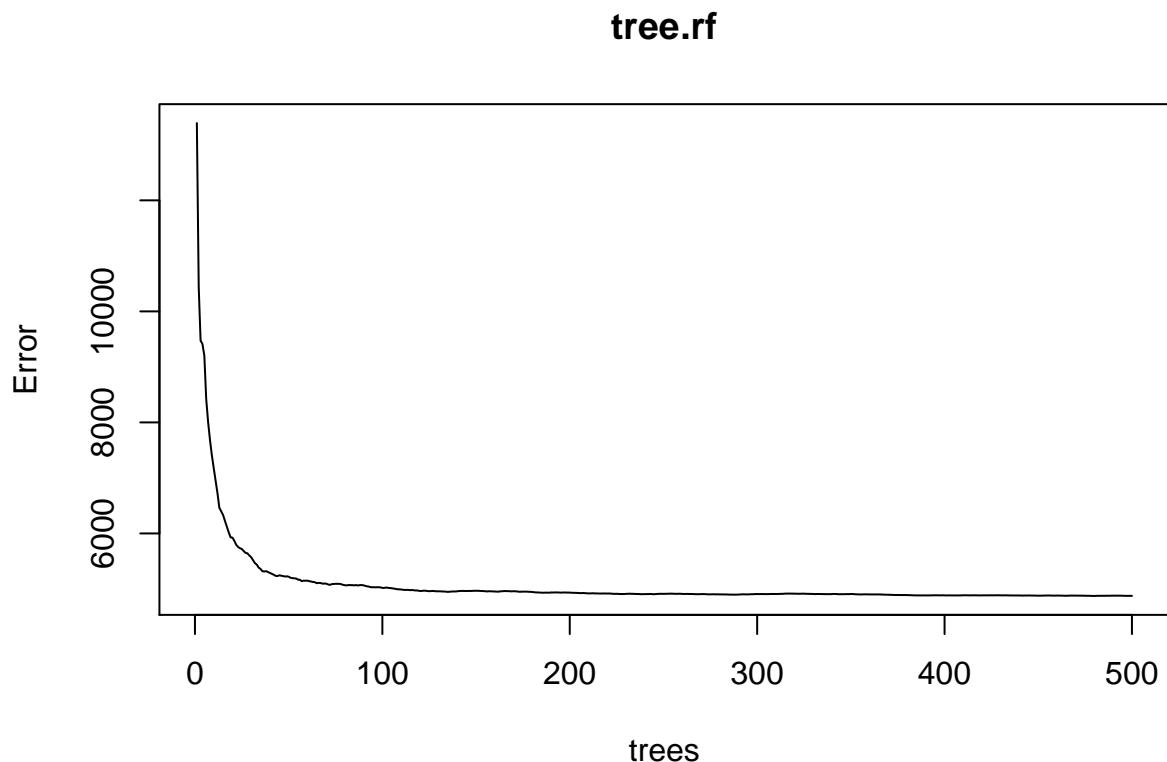
lets add them to the models with the higher accuracy

RandForest, LinModel, RPart, RandForestKfold

```
data$WeatherCluster <- kweatherresult$cluster  
data$TimeCluster <- kTimeresult$cluster
```

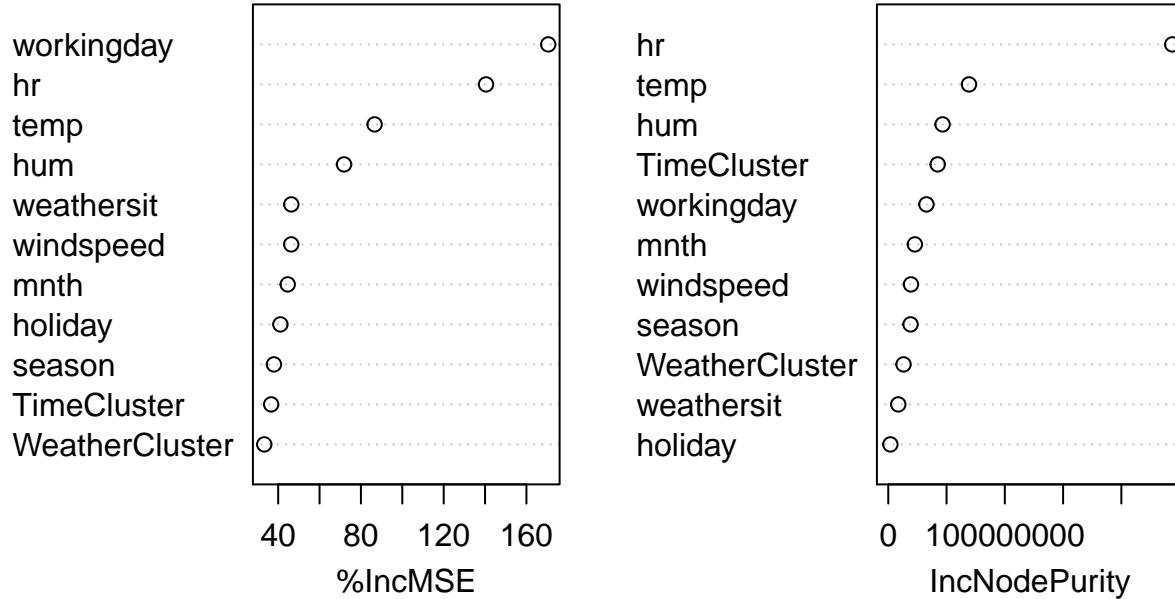
Random forest model 2.0

```
set.seed(123)  
tree.rf=randomForest(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed+WeatherCluster  
plot(tree.rf)
```



```
varImpPlot(tree.rf)
```

tree.rf



```

predict.rf=predict(tree.rf,data)
RMSE.forest=sqrt(mean((predict.rf-data$cnt)^2))
MSE.forest=mean((predict.rf-data$cnt)^2)
MAE.forest=mean(abs(predict.rf- data$cnt))

```

Linear model 2.0

```

train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
lModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed+WeatherCluster+Time
## + Fold01: parameter=none
## - Fold01: parameter=none
## + Fold02: parameter=none
## - Fold02: parameter=none
## + Fold03: parameter=none
## - Fold03: parameter=none
## + Fold04: parameter=none
## - Fold04: parameter=none
## + Fold05: parameter=none
## - Fold05: parameter=none
## + Fold06: parameter=none
## - Fold06: parameter=none

```

```

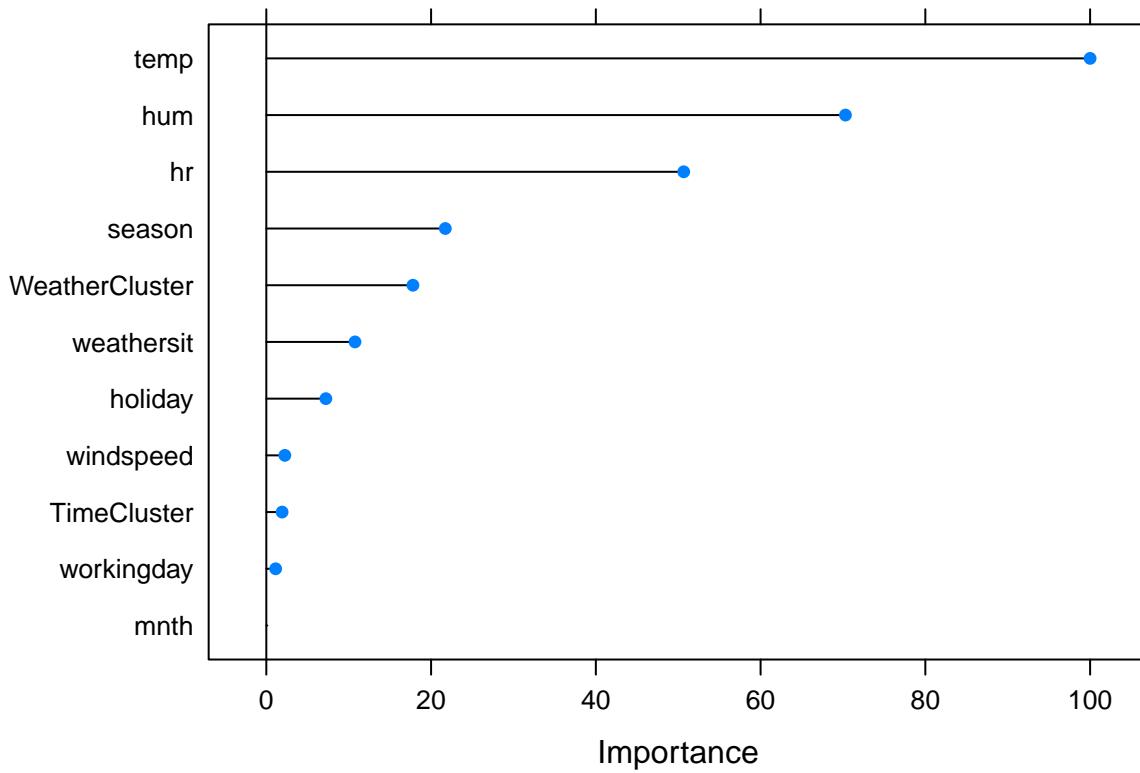
## + Fold07: parameter=none
## - Fold07: parameter=none
## + Fold08: parameter=none
## - Fold08: parameter=none
## + Fold09: parameter=none
## - Fold09: parameter=none
## + Fold10: parameter=none
## - Fold10: parameter=none
## Aggregating results
## Fitting final model on full training set

lmPredictions<- predict(lModel,data)
RMSE.lm=sqrt(mean((lmPredictions-data$cnt)^2))
MSE.lm=mean((lmPredictions-data$cnt)^2)
MAE.lm=mean(abs(lmPredictions- data$cnt))
summary(lModel)

##
## Call:
## NULL
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -341.99    -96.28   -30.96    53.33   693.32
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 68.2362   8.9066  7.661 1.94e-14 ***
## season      18.2718   1.8917  9.659 < 2e-16 ***
## mnth       -0.6076   0.5958 -1.020  0.3079
## hr          6.8689   0.3245 21.169 < 2e-16 ***
## holiday     -26.9734   6.9281 -3.893 9.92e-05 ***
## workingday   3.6572   2.4878  1.470  0.1416
## weathersit  -12.4973   2.3578 -5.300 1.17e-07 ***
## temp         332.2789   8.1470 40.785 < 2e-16 ***
## hum          -212.5398   7.3349 -28.976 < 2e-16 ***
## windspeed    18.6718   9.7556  1.914  0.0556 .
## WeatherCluster -6.2274   0.7692 -8.096 6.04e-16 ***
## TimeCluster   8.3491   4.6862  1.782  0.0748 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 21701.23)
##
## Null deviance: 571761591 on 17378 degrees of freedom
## Residual deviance: 376885212 on 17367 degrees of freedom
## AIC: 222865
##
## Number of Fisher Scoring iterations: 2

plot(varImp(lModel))

```



Regression tree 2.0

```

train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
rpartModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed+WeatherCluster+TimeCluster, data=ct, method="rpart", tuneLength=10, trControl=train_control)

## + Fold01: cp=0.0506
## - Fold01: cp=0.0506
## + Fold02: cp=0.0506
## - Fold02: cp=0.0506
## + Fold03: cp=0.0506
## - Fold03: cp=0.0506
## + Fold04: cp=0.0506
## - Fold04: cp=0.0506
## + Fold05: cp=0.0506
## - Fold05: cp=0.0506
## + Fold06: cp=0.0506
## - Fold06: cp=0.0506
## + Fold07: cp=0.0506
## - Fold07: cp=0.0506
## + Fold08: cp=0.0506
## - Fold08: cp=0.0506
## + Fold09: cp=0.0506
## - Fold09: cp=0.0506

```

```

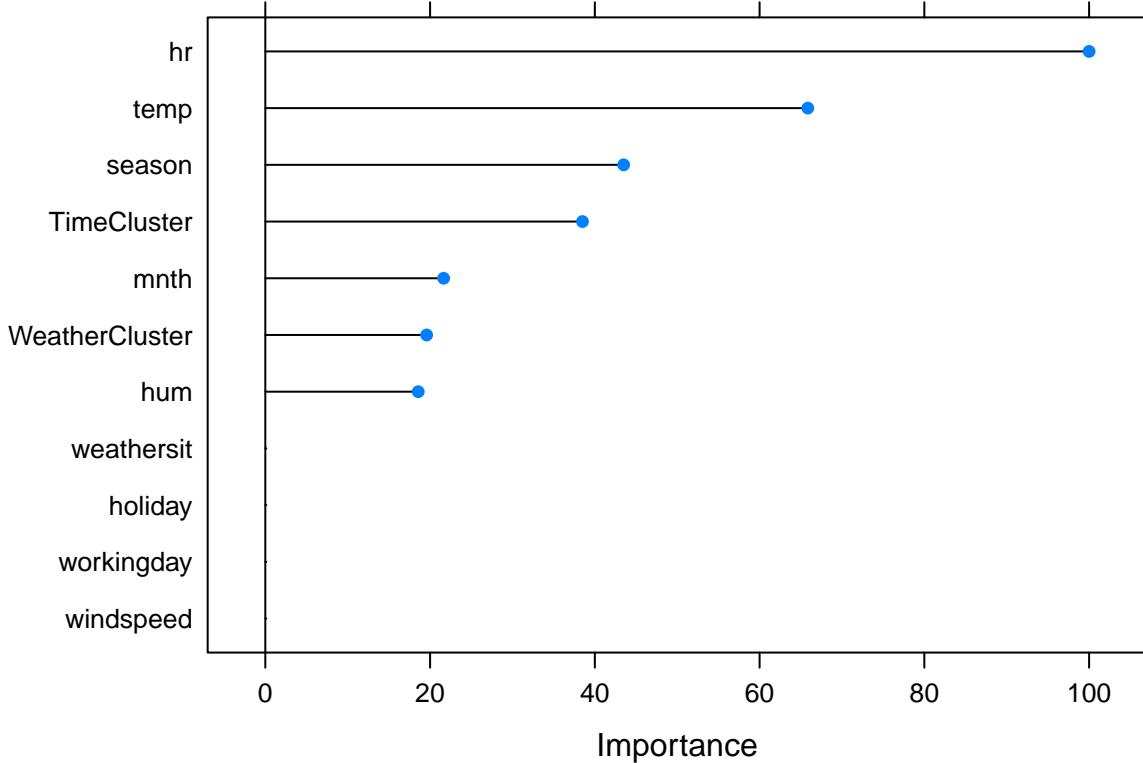
## + Fold10: cp=0.0506
## - Fold10: cp=0.0506

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info =
## trainInfo, : There were missing values in resampled performance measures.

## Aggregating results
## Selecting tuning parameters
## Fitting cp = 0.0506 on full training set

rpartPredictions<- predict(rpartModel,data)
RMSE.rpart=sqrt(mean((rpartPredictions-data$cnt)^2))
MSE.rpart=mean((rpartPredictions-data$cnt)^2)
MAE.rpart=mean(abs(rpartPredictions- data$cnt))
plot(varImp(rpartModel))

```



Random Forest this time with kfold 2.0

```

train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
rfModel<- train(cnt~+season+mnth+hr+holiday+workingday+weathersit+temp+hum+windspeed+WeatherCluster+Tim

```

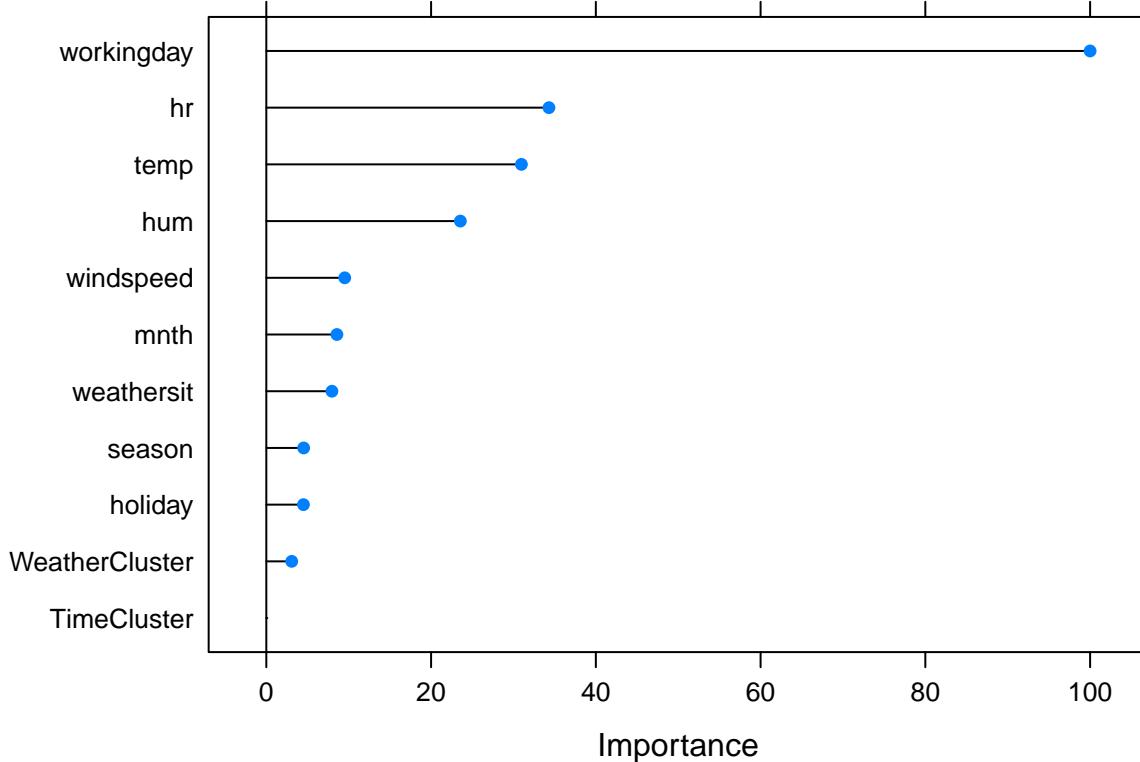
```
## + Fold01: mtry= 2
## - Fold01: mtry= 2
## + Fold01: mtry= 6
## - Fold01: mtry= 6
## + Fold01: mtry=11
## - Fold01: mtry=11
## + Fold02: mtry= 2
## - Fold02: mtry= 2
## + Fold02: mtry= 6
## - Fold02: mtry= 6
## + Fold02: mtry=11
## - Fold02: mtry=11
## + Fold03: mtry= 2
## - Fold03: mtry= 2
## + Fold03: mtry= 6
## - Fold03: mtry= 6
## + Fold03: mtry=11
## - Fold03: mtry=11
## + Fold04: mtry= 2
## - Fold04: mtry= 2
## + Fold04: mtry= 6
## - Fold04: mtry= 6
## + Fold04: mtry=11
## - Fold04: mtry=11
## + Fold05: mtry= 2
## - Fold05: mtry= 2
## + Fold05: mtry= 6
## - Fold05: mtry= 6
## + Fold05: mtry=11
## - Fold05: mtry=11
## + Fold06: mtry= 2
## - Fold06: mtry= 2
## + Fold06: mtry= 6
## - Fold06: mtry= 6
## + Fold06: mtry=11
## - Fold06: mtry=11
## + Fold07: mtry= 2
## - Fold07: mtry= 2
## + Fold07: mtry= 6
## - Fold07: mtry= 6
## + Fold07: mtry=11
## - Fold07: mtry=11
## + Fold08: mtry= 2
## - Fold08: mtry= 2
## + Fold08: mtry= 6
## - Fold08: mtry= 6
## + Fold08: mtry=11
## - Fold08: mtry=11
## + Fold09: mtry= 2
## - Fold09: mtry= 2
## + Fold09: mtry= 6
## - Fold09: mtry= 6
## + Fold09: mtry=11
## - Fold09: mtry=11
```

```

## + Fold10: mtry= 2
## - Fold10: mtry= 2
## + Fold10: mtry= 6
## - Fold10: mtry= 6
## + Fold10: mtry=11
## - Fold10: mtry=11
## Aggregating results
## Selecting tuning parameters
## Fitting mtry = 6 on full training set

rfPredictions<- predict(rfModel,data)
RMSE.rfkf=sqrt(mean((rfPredictions-data$cnt)^2))
MSE.rfkf=mean((rfPredictions-data$cnt)^2)
MAE.rfkf=mean(abs(rfPredictions- data$cnt))
plot(varImp(rfModel))

```



Append it to the accuracy dataset

```

accuracy <- rbind(accuracy,data.frame(Method="RandomForest2.0",RMSE=RMSE.forest,MAE=MAE.forest,MSE=MSE.forest))
accuracy <- rbind(accuracy,data.frame(Method="LinearModel2.0",RMSE=RMSE.lm,MAE=MAE.lm,MSE=MSE.lm))
accuracy <- rbind(accuracy,data.frame(Method="RegressionTree2.0",RMSE=RMSE.rpart,MAE=MAE.rpart,MSE=MSE.rpart))
accuracy <- rbind(accuracy,data.frame(Method="RandomForestWithKfold2.0",RMSE=RMSE.rfkf,MAE=MAE.rfkf,MSE=MSE.rfkf))

```

```

accuracy$RMSE = round(accuracy$RMSE, 2)
accuracy$MAE = round(accuracy$MAE, 2)
accuracy$MSE = round(accuracy$MSE, 2)

all.predictions$RandomForest2.0 <- predict.rf
all.predictions$LinearModel2.0 <- lmPredictions
all.predictions$RegressionTree2.0 <- rpartPredictions
all.predictions$RandomForestWithKfold2.0 <- rfPredictions

RandForest.c2=cor(all.predictions$Actual,all.predictions$RandomForest2.0)
LinModel.c2=cor(all.predictions$Actual,all.predictions$LinearModel2.0)
RPart.c2=cor(all.predictions$Actual,all.predictions$RegressionTree2.0)
RandForestKFold.c2=cor(all.predictions$Actual,all.predictions$RandomForestWithKfold2.0)

predict.vs.actual.correlation <- cbind(predict.vs.actual.correlation,RandForest.c2)
predict.vs.actual.correlation <- cbind(predict.vs.actual.correlation,LinModel.c2)
predict.vs.actual.correlation <- cbind(predict.vs.actual.correlation,RPart.c2)
predict.vs.actual.correlation <- cbind(predict.vs.actual.correlation,RandForestKFold.c2)

predict.vs.actual.correlation

## RandForest.c LinModel.c RPart svm.c nnet.c RandForestKFold.c
## 1 0.9778838 0.5814736 0.6393053 0.5767638 NA 0.9838914
## RandForest.c2 LinModel.c2 RPart.c2 RandForestKFold.c2
## 1 0.970959 0.5838108 0.6393053 0.9836688

```

**RandForest.c LinModel.c RPart svm.c nnet.c RandForestKFold.c
RandForest.c2 LinModel.c2 RPart.c2 RandForestKFold.c2**

**1 0.9778838 0.5814736 0.6393053 0.5767638 NA 0.9838735
0.9715803 0.5845314 0.6393053 0.9836316**

What if we tried to train with only the clusters?

Random Forest this time with kfold 2.5

```

train_control<- trainControl(method="cv", number=10, verboseIter = TRUE)
rfModel2.5<- train(cnt~+WeatherCluster+TimeCluster, data, method="rf", trControl=train_control)

## note: only 1 unique complexity parameters in default grid. Truncating the grid to 1 .
##
## + Fold01: mtry=2
## - Fold01: mtry=2
## + Fold02: mtry=2
## - Fold02: mtry=2
## + Fold03: mtry=2

```

```

## - Fold03: mtry=2
## + Fold04: mtry=2
## - Fold04: mtry=2
## + Fold05: mtry=2
## - Fold05: mtry=2
## + Fold06: mtry=2
## - Fold06: mtry=2
## + Fold07: mtry=2
## - Fold07: mtry=2
## + Fold08: mtry=2
## - Fold08: mtry=2
## + Fold09: mtry=2
## - Fold09: mtry=2
## + Fold10: mtry=2
## - Fold10: mtry=2
## Aggregating results
## Fitting final model on full training set

rfPredictions2.5<- predict(rfModel2.5,data)
RMSE.rfkf2.5=sqrt(mean((rfPredictions2.5-data$cnt)^2))
MSE.rfkf2.5=mean((rfPredictions2.5-data$cnt)^2)
MAE.rfkf2.5=mean(abs(rfPredictions2.5- data$cnt))

accuracy <- rbind(accuracy,data.frame(Method="RandomForestWithKfold2.5",RMSE=RMSE.rfkf2.5,MAE=MAE.rfkf2.5)
accuracy$RMSE = round(accuracy$RMSE,2)
accuracy$MAE = round(accuracy$MAE,2)
accuracy$MSE = round(accuracy$MSE,2)
all.predictions$RandomForestWithKfold2.5 <- rfPredictions2.5
RandForestKFold.c2.5=cor(all.predictions$Actual,all.predictions$RandomForestWithKfold2.5)
predict.vs.actual.correlation <- cbind(predict.vs.actual.correlation,RandForestKFold.c2.5)

```

only 0.5056317 accurate but it shows we can reduce the number of features by clustering. Therefore reducing time needed to train the data

Determine how many clusters we should us for shiny app

```

model <- cascadeKM(data$cnt, 1, 10, iter = 10)
model$results[2,]

## 1 groups 2 groups 3 groups 4 groups 5 groups 6 groups 7 groups
##          NA 37535.41 50742.80 63303.81 76276.81 90317.66 103600.09
## 8 groups 9 groups 10 groups
## 115689.29 131427.37 141740.85

which.max(model$results[2,])

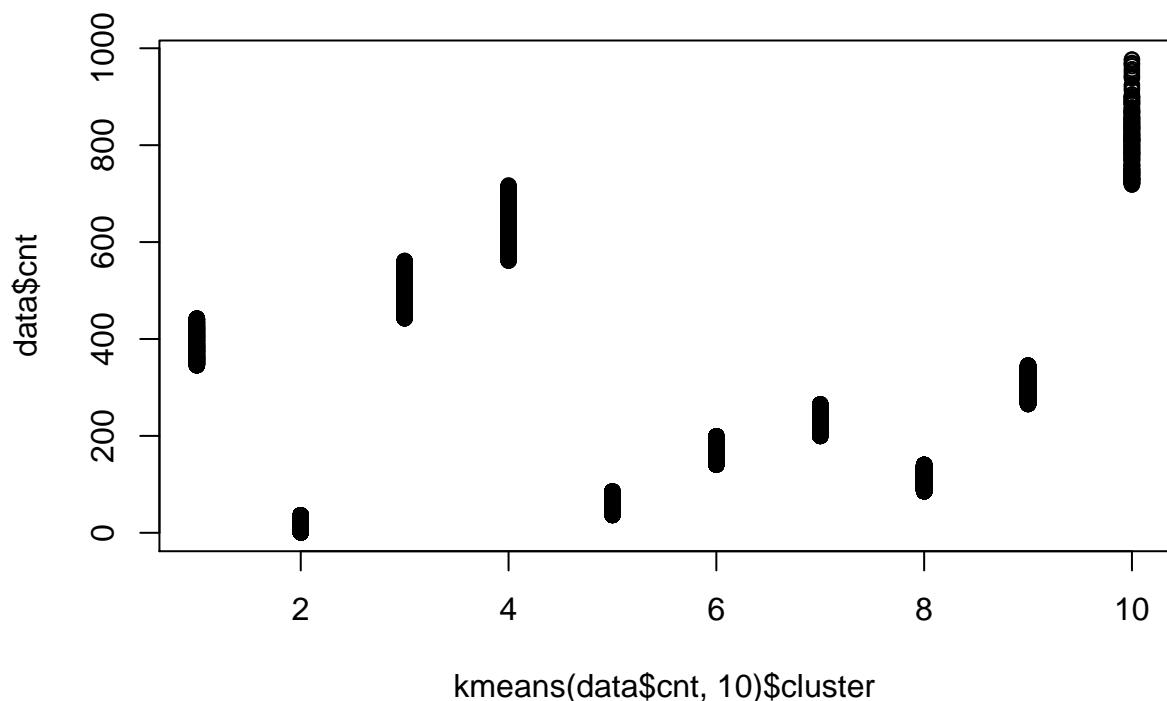
## 10 groups
##          10

```

recommends 10 groups

plot a graph

```
plot(kmeans(data$cnt, 10)$cluster,data$cnt)
```



```
##MODEL DEPLOYMENT #Export the most efficient model for the app
```

```
saveRDS(rfModel, "model2.0.rds")
```