

Stat 412

Yolanda Jin

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Contents

0. Cleaning Up Data and Creating Data Groups	2
a) Remove NA Data	2
b) Split the data to Testing/Training & Minority, Majority Groups	3
Creating Indicator Variables for Extreme Data	15
1. Question/Goal	17
2. EDA (Still need to Clean up for better graphs)	17
3. Balancing Data (Creating New Datasets)	19
b) Resampling Majority Data (new_train.final 1 & 2)	19
c) Using Clustering to select from Majority Group	20
4. Applying Different Methods (with and without Balanced Data)	379
Method 1: PCA	379
1-a) PCA with Unbalanced Data	379
PCA using all 22 variables	379
PCA using original 10 variables	381
PCA Using Dummy variables	382
1 b) PCA with Balanced Data	383
Method 2: Using GLM Original Predictors vs Extreme Binned Predictors + MonthlyIncome	384
2 a) GLM Original Predictors with Unbalanced Data	384
2 b) GLM Extreme Binned Predictors with Unbalanced Data	388
2 c) GLM Original Predictors Using Balanced Data	388
2 c) GLM Original Predictors with Balanced Data	394
Method 3: Ridge	394
3 a) Ridge with Unbalanced Data	394
3 b) Ridge with Balanced Data	394
Method 4: Lasso	394
4 a) Lasso with Unbalanced Data	395
4 b) Lasso with Balanced Data	395
Method 4: Random Forest	395
4 a) Random Forest with Unbalanced Data	395
4 b) Random Forest with Balanced Data	396
5. Evaluating Model/Comparing results	398
5-1 Evaluation on Final Model using Training Data	398
5-2 Marginal Model Plots	399
Need to Update!!	399
5-3 Goodness of Fit using Hosmer-Lemeshow Test	400
a)	400
AUC	401
5-3 Model Performance with Test Data	401

.....	403
Maybe don't need session	405
(0) Ensemble Learning Used by Paper	405
Not Sure if we use this!!	405
Cluster Attempt	406
a) REMOVE SECTION - NOT APPLICABLE —Bostrapping Minority Data	
(cs_train_min_add) (1000 obs)	407
Maybe don't need session (END)	410

0. Cleaning Up Data and Creating Data Groups

a) Remove NA Data

- Split out data with NA in any predictors
- split non-NA group to minority (default) vs majority (non-default) group
- Additional TODO: can check out characteristics of NA group so we can replace the NA values

```

# Read Credit Scoring Data Training Set
#cs_train <- cs_training
cs_train = read.csv("cs-training.csv")
train <- cs_train
raw_data <- cs_train      #150k rows

# Remove NA cases otherwise cannot predict
cs_train.omit <- na.omit(raw_data)  # 150k -> 120,269 obs
Predictor_Variables <- subset.data.frame(cs_train.omit, select = c(RevolvingUtilizationOfUnsecuredLines
))

summary(cs_train)

##           X           SeriousDlqin2yrs  RevolvingUtilizationOfUnsecuredLines
##  Min.   : 1   Min.   :0.00000   Min.   : 0.00
##  1st Qu.: 37501  1st Qu.:0.00000   1st Qu.: 0.03
##  Median : 75001  Median :0.00000   Median : 0.15
##  Mean   : 75001  Mean   :0.06684   Mean   : 6.05
##  3rd Qu.:112500  3rd Qu.:0.00000   3rd Qu.: 0.56
##  Max.   :150000   Max.   :1.00000   Max.   :50708.00
##
##           age          NumberOfTime30.59DaysPastDueNotWorse  DebtRatio
##  Min.   : 0.0   Min.   : 0.000           Min.   : 0.0
##  1st Qu.: 41.0  1st Qu.: 0.000           1st Qu.: 0.2
##  Median : 52.0  Median : 0.000           Median : 0.4
##  Mean   : 52.3  Mean   : 0.421           Mean   : 353.0
##  3rd Qu.: 63.0  3rd Qu.: 0.000           3rd Qu.: 0.9
##  Max.   :109.0  Max.   :98.000           Max.   :329664.0
##
##           MonthlyIncome  NumberOfOpenCreditLinesAndLoans  NumberOfTimes90DaysLate
##  Min.   : 0   Min.   : 0.000           Min.   : 0.000
##  1st Qu.: 3400  1st Qu.: 5.000           1st Qu.: 0.000
##  Median : 5400  Median : 8.000           Median : 0.000
##  Mean   : 6670  Mean   : 8.453           Mean   : 0.266
##  3rd Qu.: 8249  3rd Qu.:11.000           3rd Qu.: 0.000
##  Max.   :3008750  Max.   :58.000           Max.   :98.000
##  NA's   :29731

```

```

##  NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
##  Min.    : 0.000               Min.    : 0.0000
##  1st Qu.: 0.000               1st Qu.: 0.0000
##  Median  : 1.000               Median  : 0.0000
##  Mean    : 1.018               Mean    : 0.2404
##  3rd Qu.: 2.000               3rd Qu.: 0.0000
##  Max.    :54.000               Max.    :98.0000
##
##  NumberOfDependents
##  Min.    : 0.000
##  1st Qu.: 0.000
##  Median  : 0.000
##  Mean    : 0.757
##  3rd Qu.: 1.000
##  Max.    :20.000
##  NA's    :3924

```

b) Split the data to Testing/Training & Minority, Majority Groups

```

# Sample 60% of data for training Purpose
set.seed(1)
n = nrow(cs_train_omit)
na.idx = raw_data$X[-cs_train_omit$X] # indexes of data with NA values that we removed
n.idx = sample(n, n*0.6) # Indexes for test train split

cs_train = cs_train_omit[n.idx,] # Training data 72,161 obs
cs_test = cs_train_omit[-n.idx,] # Testing data 48,108 obs.
cs_NA = raw_data[na.idx,] # data with NA value 29,731 obs

## 1. Separate minority data vs majority data vs NA data total 72,161 obs
cs_train_min <- cs_train[cs_train$SeriousDlqin2yrs==1,] # (omit) 10,026 -> (training) 5,009 obs
cs_train_maj <- cs_train[cs_train$SeriousDlqin2yrs==0,] # (omit) 139,974 -> (training) 67,152 obs

str(cs_train)

## 'data.frame': 72161 obs. of 12 variables:
## $ X : int 30484 74216 54077 86784 14388 31442 40844 145293 17360 ...
## $ SeriousDlqin2yrs : int 0 0 0 0 0 0 1 0 ...
## $ RevolvingUtilizationOfUnsecuredLines: num 0.09474 0.05277 0.73665 0.02366 0.00582 ...
## $ age : int 47 68 36 36 44 40 59 65 50 49 ...
## $ NumberOfTime30.59DaysPastDueNotWorse: int 0 0 0 0 1 0 0 0 0 ...
## $ DebtRatio : num 0.3684 0.2276 0.0945 0.2171 0.1853 ...
## $ MonthlyIncome : int 6250 11884 2000 5600 5100 2946 3950 10500 18381 10796 ...
## $ NumberOfOpenCreditLinesAndLoans : int 8 13 6 9 24 17 7 23 10 7 ...
## $ NumberOfTimes90DaysLate : int 0 0 0 0 0 0 0 0 0 ...
## $ NumberRealEstateLoansOrLines : int 1 2 0 1 1 3 0 2 1 2 ...
## $ NumberOfTime60.89DaysPastDueNotWorse: int 0 0 0 0 0 0 0 1 0 ...
## $ NumberOfDependents : int 3 1 1 0 2 0 0 0 1 0 ...
## - attr(*, "na.action")= 'omit' Named int [1:29731] 7 9 17 33 42 53 59 63 72 87 ...
## ..- attr(*, "names")= chr [1:29731] "7" "9" "17" "33" ...
str(cs_train_min)

## 'data.frame': 4941 obs. of 12 variables:

```

```

## $ X : int 17360 90565 146254 102792 49072 142766 73164 75761 77880 ...
## $ SeriousDlqin2yrs : int 1 1 1 1 1 1 1 1 1 1 ...
## $ RevolvingUtilizationOfUnsecuredLines: num 0.667 0.942 1 1.026 0.659 ...
## $ age : int 50 59 28 30 43 37 46 47 37 42 ...
## $ NumberOfTime30.59DaysPastDueNotWorse: int 0 1 98 1 0 0 0 0 98 0 ...
## $ DebtRatio : num 0.103 0.1653 0 0.2348 0.0897 ...
## $ MonthlyIncome : int 18381 8008 1664 2763 3900 16666 4200 11000 6000 6450 ...
## $ NumberOfOpenCreditLinesAndLoans : int 10 6 0 9 4 22 7 14 0 12 ...
## $ NumberOfTimes90DaysLate : int 0 5 98 0 2 0 0 0 98 0 ...
## $ NumberOfRealEstateLoansOrLines : int 1 0 0 0 0 3 1 1 0 2 ...
## $ NumberOfTime60.89DaysPastDueNotWorse: int 1 0 98 2 1 0 1 0 98 0 ...
## $ NumberOfDependents : int 1 0 0 3 2 0 1 0 1 0 ...
## - attr(*, "na.action")= 'omit' Named int [1:29731] 7 9 17 33 42 53 59 63 72 87 ...
## ..- attr(*, "names")= chr [1:29731] "7" "9" "17" "33" ...
str(cs_train_maj)

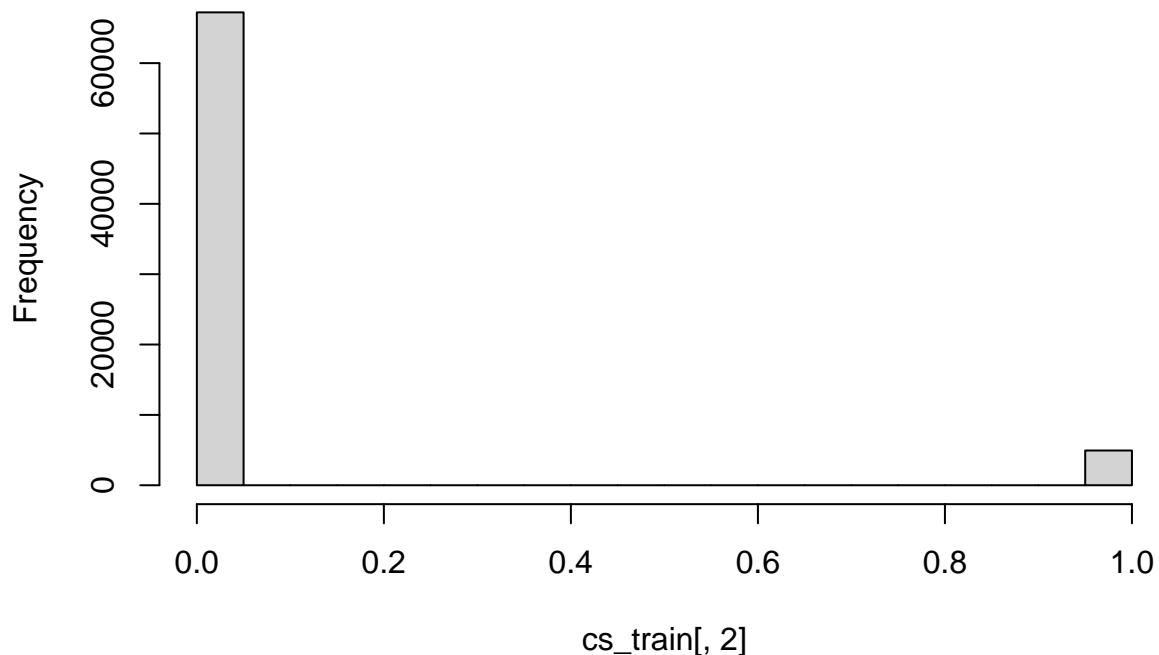
## 'data.frame': 67220 obs. of 12 variables:
## $ X : int 30484 74216 54077 86784 14388 31442 40844 145293 10260 ...
## $ SeriousDlqin2yrs : int 0 0 0 0 0 0 0 0 0 0 ...
## $ RevolvingUtilizationOfUnsecuredLines: num 0.09474 0.05277 0.73665 0.02366 0.00582 ...
## $ age : int 47 68 36 36 44 40 59 65 49 53 ...
## $ NumberOfTime30.59DaysPastDueNotWorse: int 0 0 0 0 0 1 0 0 0 0 ...
## $ DebtRatio : num 0.3684 0.2276 0.0945 0.2171 0.1853 ...
## $ MonthlyIncome : int 6250 11884 2000 5600 5100 2946 3950 10500 10796 3741 ...
## $ NumberOfOpenCreditLinesAndLoans : int 8 13 6 9 24 17 7 23 7 7 ...
## $ NumberOfTimes90DaysLate : int 0 0 0 0 0 0 0 0 0 0 ...
## $ NumberOfRealEstateLoansOrLines : int 1 2 0 1 1 3 0 2 2 2 ...
## $ NumberOfTime60.89DaysPastDueNotWorse: int 0 0 0 0 0 0 0 0 0 0 ...
## $ NumberOfDependents : int 3 1 1 0 2 0 0 0 0 1 ...
## - attr(*, "na.action")= 'omit' Named int [1:29731] 7 9 17 33 42 53 59 63 72 87 ...
## ..- attr(*, "names")= chr [1:29731] "7" "9" "17" "33" ...

# Split x and y variables
train.x = cs_train[,-which(names(cs_train) == "SeriousDlqin2yrs")] # 72,161 obs of 10 var
train.x = cs_train[,-c(which(names(cs_train) == "SeriousDlqin2yrs"), which(names(cs_train) == "X"))]
train.y = cs_train$SeriousDlqin2yrs
test.x = cs_test[,-which(names(cs_test) == "SeriousDlqin2yrs")] # 48,108 obs
test.x = cs_test[,-c(which(names(cs_test) == "SeriousDlqin2yrs"), which(names(cs_test) == "X"))]
test.y = cs_test$SeriousDlqin2yrs

hist(cs_train[,2]) #Response Variable

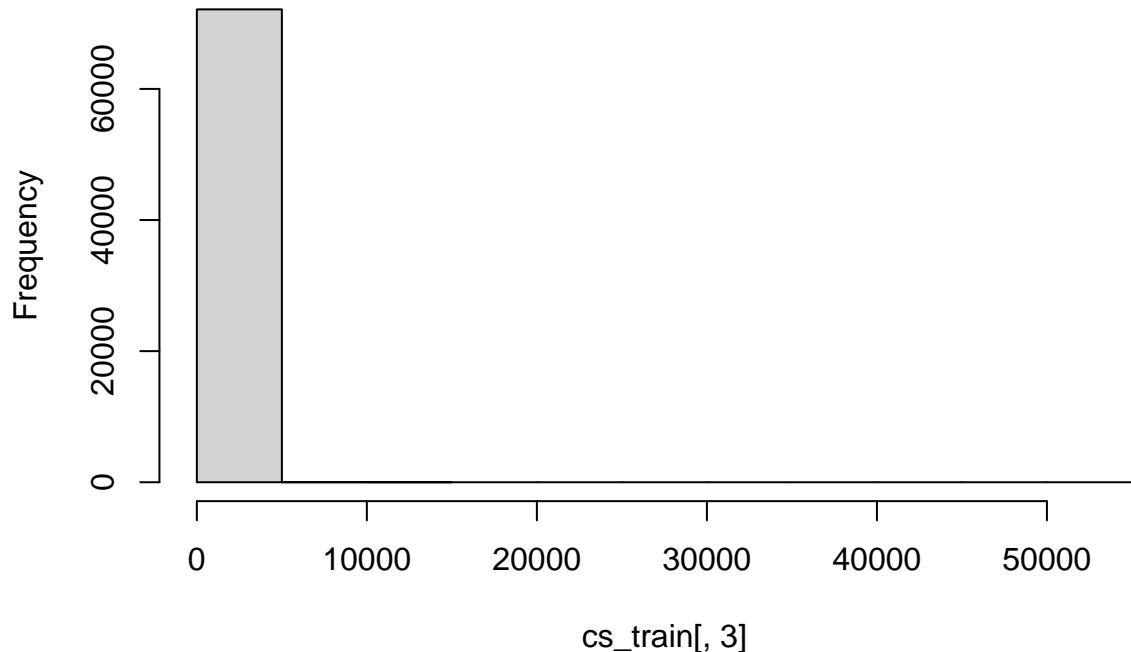
```

Histogram of cs_train[, 2]



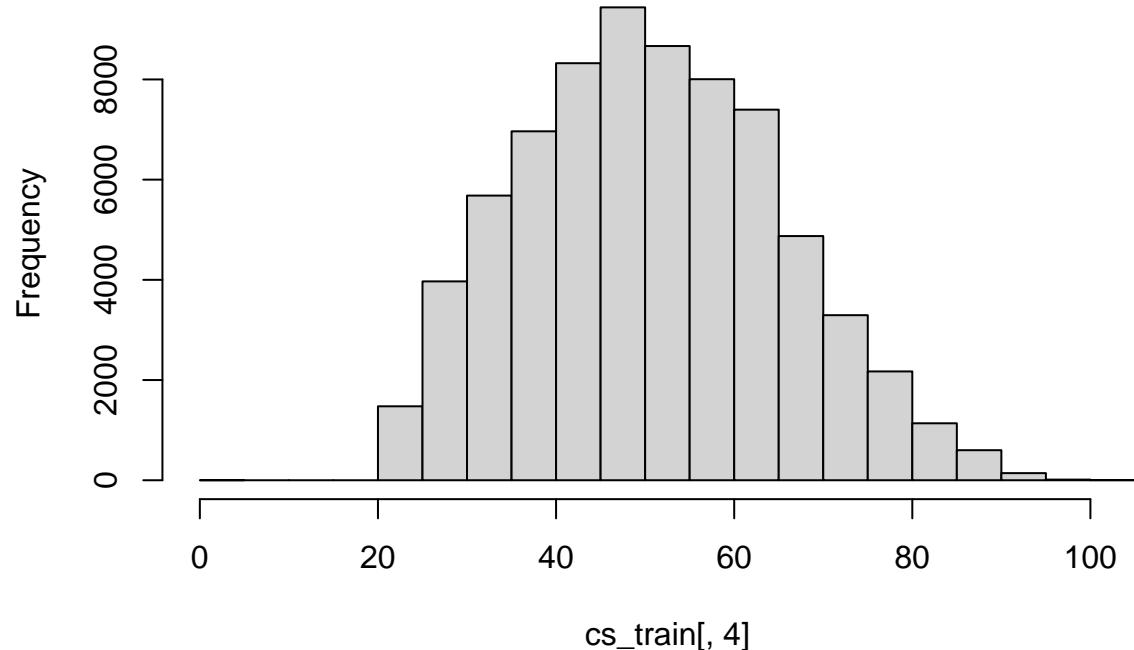
```
hist(cs_train[,3]) #RevolvingUtilizationOfUnsecuredLines
```

Histogram of cs_train[, 3]



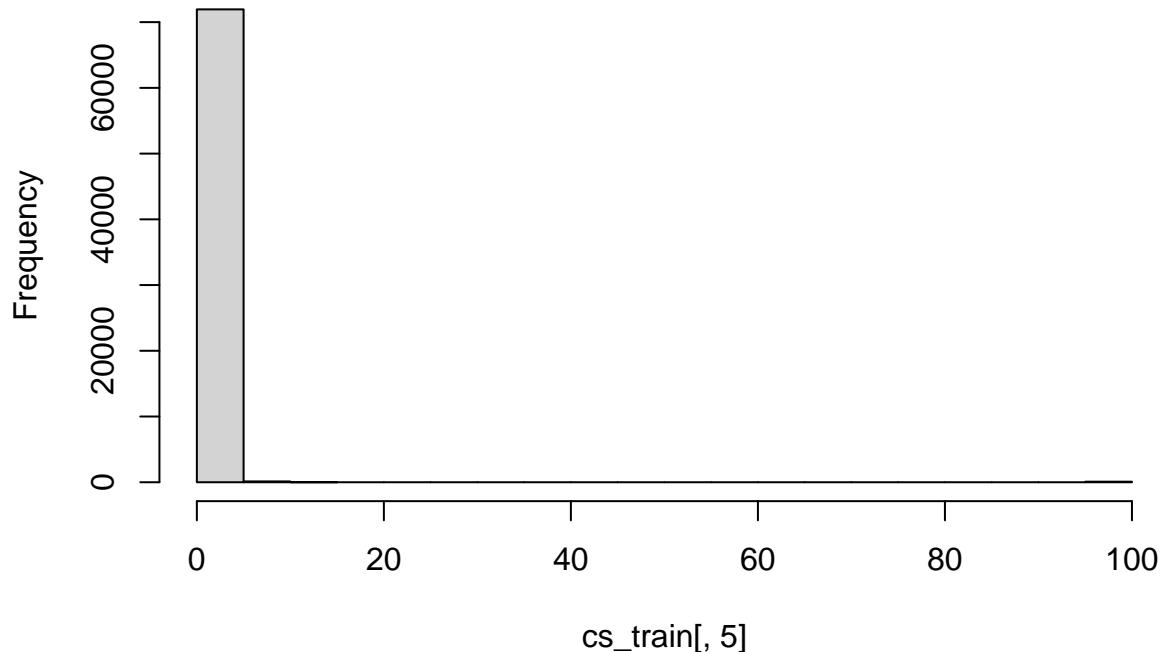
```
hist(cs_train[,4]) #age
```

Histogram of cs_train[, 4]



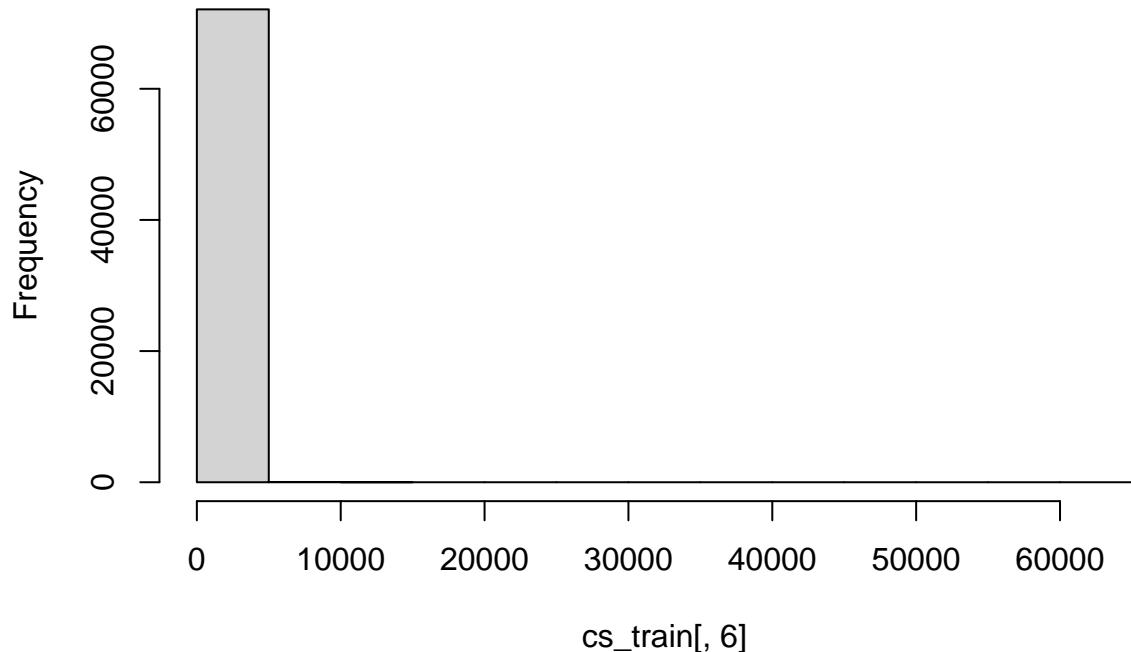
```
hist(cs_train[,5]) #Number of Time 30.59 Days Past Due Not Worse
```

Histogram of cs_train[, 5]



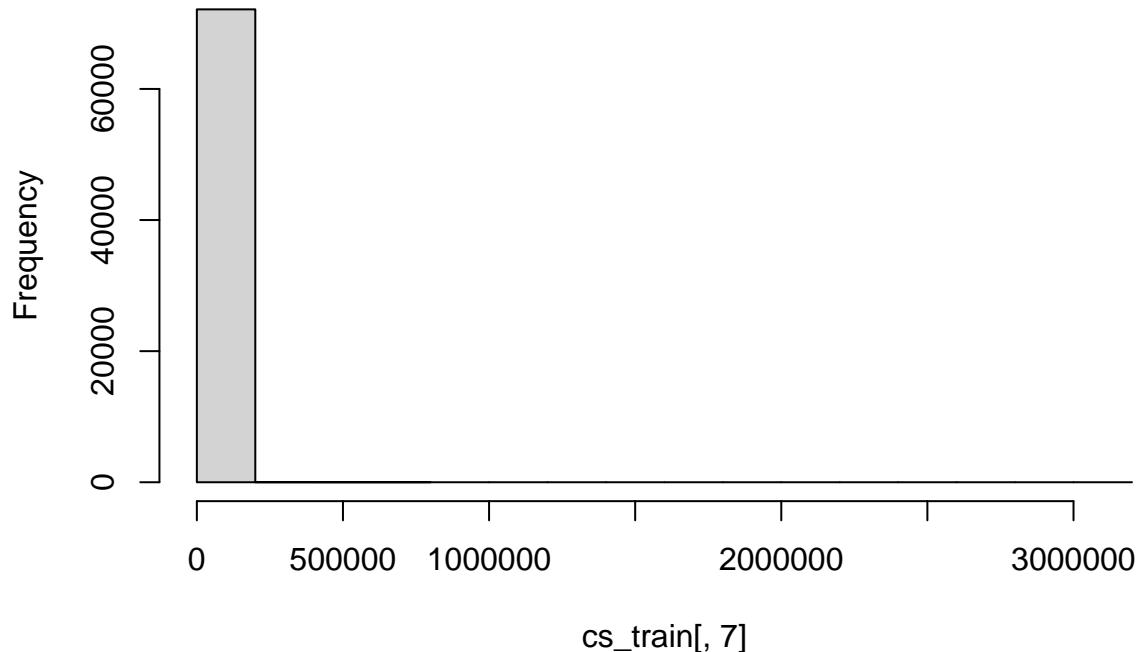
```
hist(cs_train[,6]) #DebtRatio
```

Histogram of cs_train[, 6]



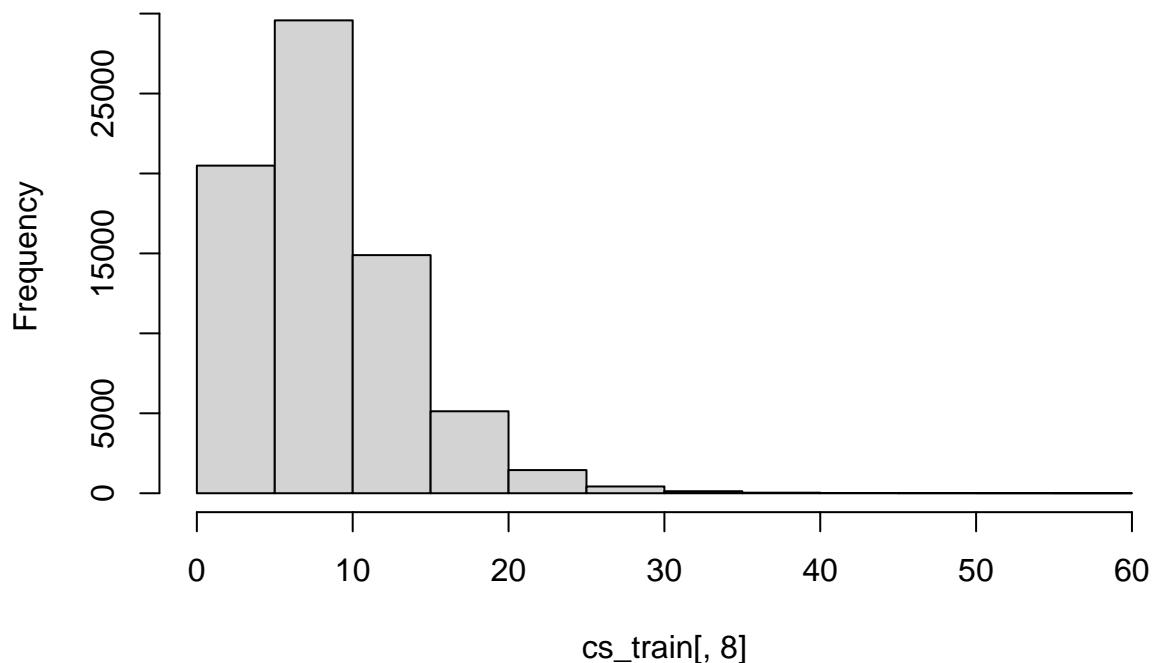
```
hist(cs_train[,7]) #MonthlyIncome
```

Histogram of cs_train[, 7]



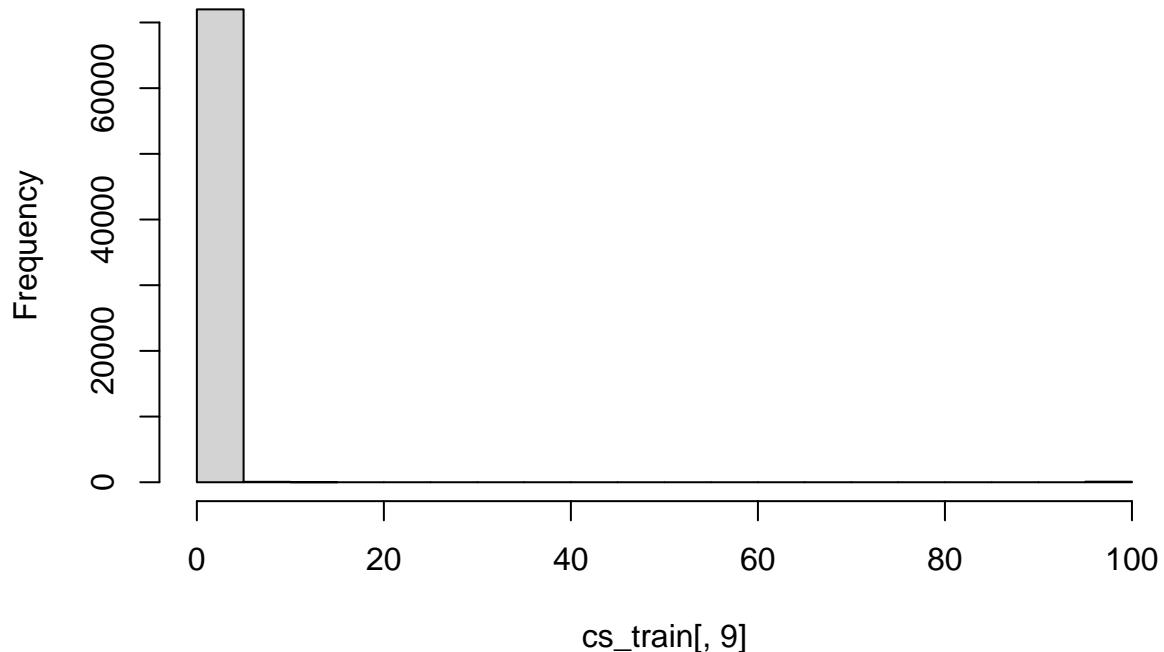
```
hist(cs_train[,8]) #Number of Open Credit Lines and Loans
```

Histogram of cs_train[, 8]



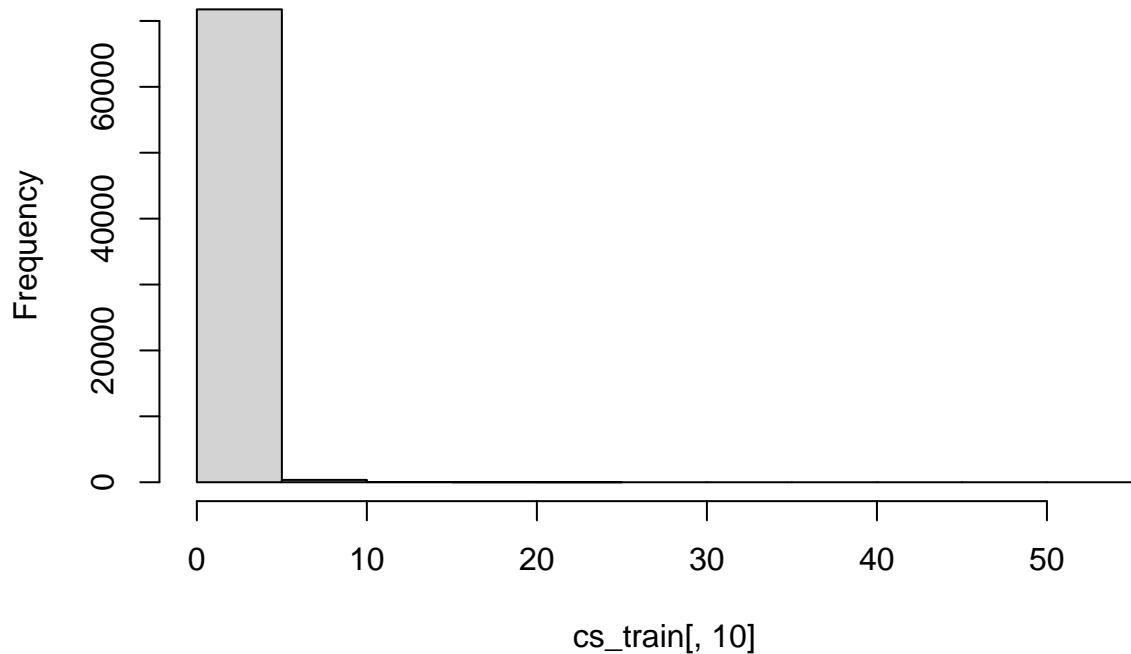
```
hist(cs_train[, 9]) #Number of Times 90 Days Late
```

Histogram of cs_train[, 9]



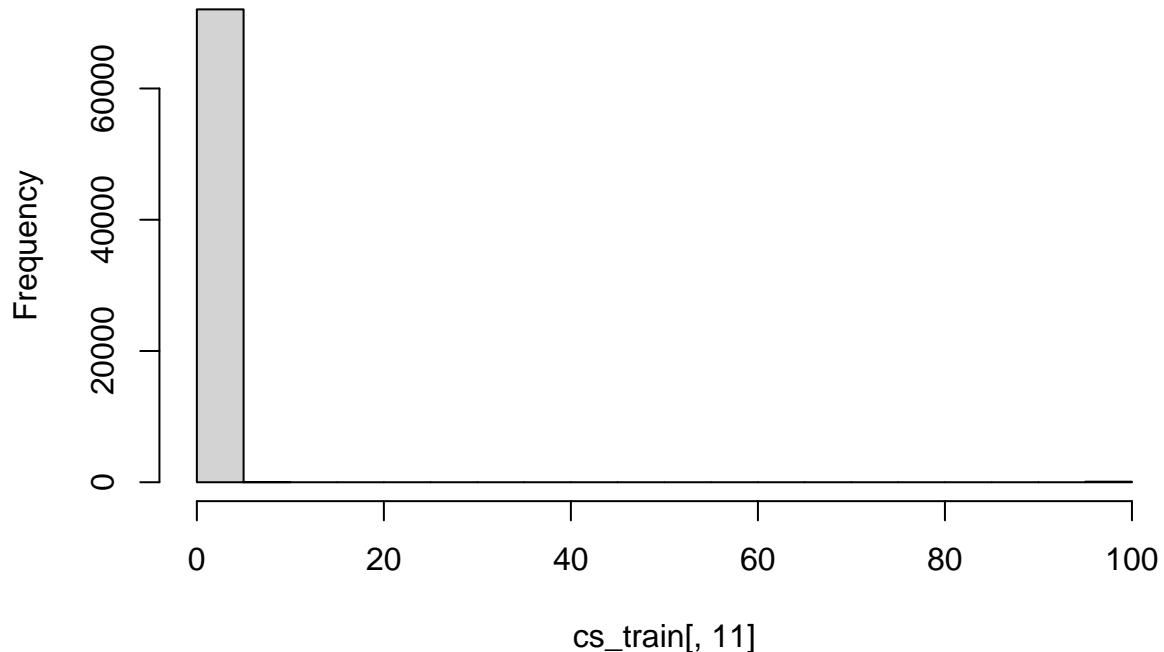
```
hist(cs_train[,10]) #NumberRealEstateLoansOrLines
```

Histogram of cs_train[, 10]



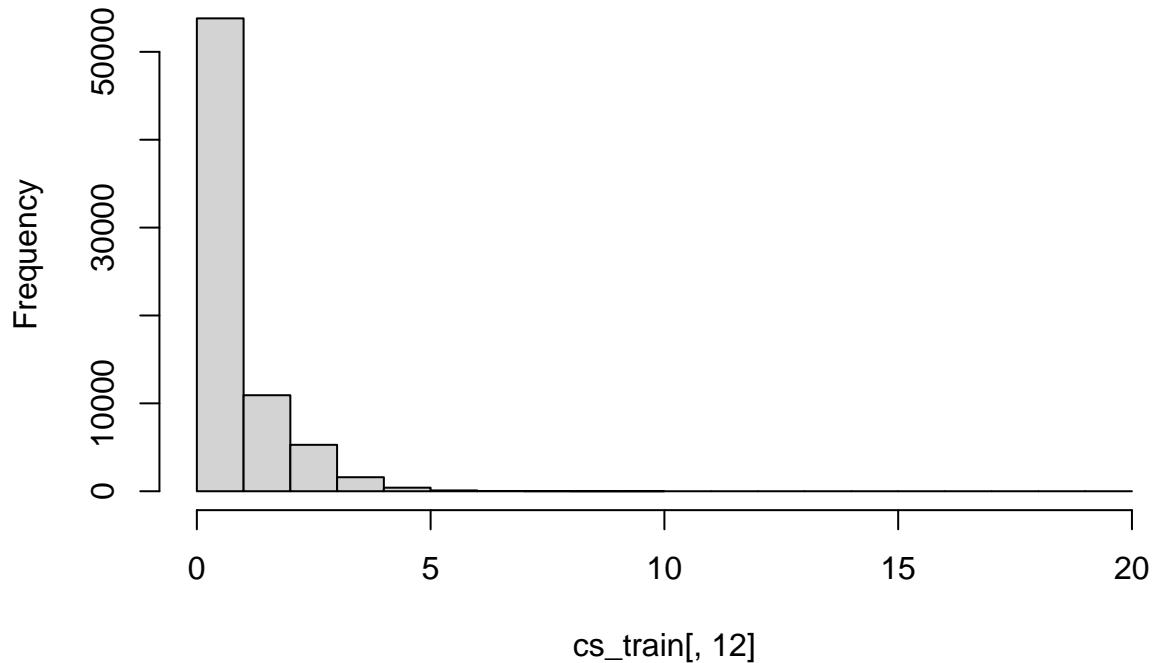
```
hist(cs_train[,11]) #NumberOfTime60.89DaysPastDueNotWorse
```

Histogram of cs_train[, 11]



```
hist(cs_train[, 12]) #Number of Dependents` ..`
```

Histogram of cs_train[, 12]



Creating Indicator Variables for Extreme Data

```
Jimmys_Bad_Variables <- cs_train
Jimmys_Bad_Variables$HighRevolving <- 0
Jimmys_Bad_Variables$HighRevolving[quantile(Jimmys_Bad_Variables[,3],0.95)] <- 1

Jimmys_Bad_Variables$Many_LessThan2MonthsLate <- 0
Jimmys_Bad_Variables$Many_LessThan2MonthsLate[quantile(Jimmys_Bad_Variables[,5],0.95)] <- 1

Jimmys_Bad_Variables$HighDebtRatio <- 0
Jimmys_Bad_Variables$HighDebtRatio[quantile(Jimmys_Bad_Variables[,6],0.95)] <- 1

Jimmys_Bad_Variables$Rich <- 0
Jimmys_Bad_Variables$Rich[quantile(Jimmys_Bad_Variables[,6],0.95)] <- 1

Jimmys_Bad_Variables$Many_CurrentLoans <- 0
Jimmys_Bad_Variables$Many_CurrentLoans[quantile(Jimmys_Bad_Variables[,8],0.95)] <- 1

Jimmys_Bad_Variables$Many_AtLeastThreeMonthsLate <- 0
Jimmys_Bad_Variables$Many_AtLeastThreeMonthsLate[quantile(Jimmys_Bad_Variables[,9],0.95)] <- 1

Jimmys_Bad_Variables$Many_HouseLoans <- 0
Jimmys_Bad_Variables$Many_HouseLoans[quantile(Jimmys_Bad_Variables[,10],0.95)] <- 1

Jimmys_Bad_Variables$Many_TwoToThreeMonthsLate <- 0
```

```

Jimmys_Bad_Variables$Many_TwoToThreeMonthsLate[quantile(Jimmys_Bad_Variables[,11],0.95)] <- 1

Jimmys_Bad_Variables$NA_Dependents_are_Mean <- Jimmys_Bad_Variables[,12] #Need to Change NA values to M
Jimmys_Bad_Variables$NA_Dependents_are_Mean[is.na(Jimmys_Bad_Variables[,12])] <- mean(Jimmys_Bad_Variables$NA_Dependents_are_Mean)
Jimmys_Bad_Variables$Many_Dependents <- 0
Jimmys_Bad_Variables$Many_Dependents[quantile(Jimmys_Bad_Variables$NA_Dependents_are_Mean,0.95)] <- 1

train1 <- Jimmys_Bad_Variables[Jimmys_Bad_Variables[,3]< quantile(Jimmys_Bad_Variables[,3],0.95),]

head(Jimmys_Bad_Variables)

##          X SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 30484 30484          0                  0.09474044 47
## 74216 74216          0                  0.05277307 68
## 54077 54077          0                  0.73665267 36
## 86784 86784          0                  0.02365700 36
## 14388 14388          0                  0.00581900 44
## 31442 31442          0                  0.11523783 40
##          NumberOfTime30.59DaysPastDueNotWorse DebtRatio MonthlyIncome
## 30484                      0.36842105      6250
## 74216                      0.22759781    11884
## 54077                      0.09445277    2000
## 86784                      0.21710409    5600
## 14388                      0.18525779    5100
## 31442                      2.49168646    2946
##          NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 30484                      8                      0
## 74216                      13                     0
## 54077                      6                      0
## 86784                      9                      0
## 14388                      24                     0
## 31442                      17                     0
##          NumberOfRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 30484                      1                      0
## 74216                      2                      0
## 54077                      0                      0
## 86784                      1                      0
## 14388                      1                      0
## 31442                      3                      0
##          NumberOfDependents HighRevolving Many_LessThan2MonthsLate HighDebtRatio
## 30484                      3                      0                      0                      1
## 74216                      1                      0                      1                      0
## 54077                      1                      0                      0                      0
## 86784                      0                      0                      0                      0
## 14388                      2                      0                      0                      0
## 31442                      0                      0                      0                      0
##          Rich Many_CurrentLoans Many_AtLeastThreeMonthsLate Many_HouseLoans
## 30484                      1                      0                      1                      0
## 74216                      0                      0                      0                      0
## 54077                      0                      0                      0                      1
## 86784                      0                      0                      0                      0
## 14388                      0                      0                      0                      0
## 31442                      0                      0                      0                      0
##          Many_TwoToThreeMonthsLate NA_Dependents_are_Mean Many_Dependents

```

```

## 30484           1           3           0
## 74216           0           1           0
## 54077           0           1           1
## 86784           0           0           0
## 14388           0           2           0
## 31442           0           0           0
Just_Bad_Variables <- subset.data.frame(Jimmys_Bad_Variables, select = c(X, SeriousDlqin2yrs, age, HighR

```

1. Question/Goal

- Comparing our model performance against paper's model
- Most important factors

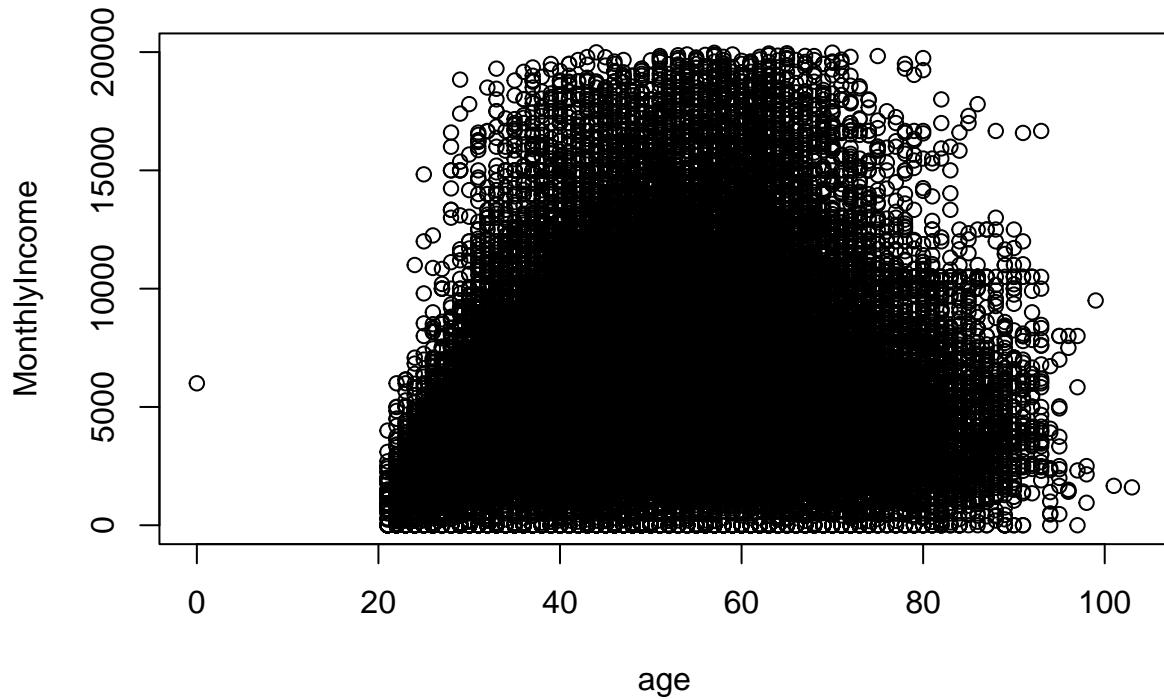
2. EDA (Still need to Clean up for better graphs)

- monthly income = 0
- 30k monthly income = NA
- Dependent = NA 4k
- age 0 remove - only 1 point
- age very old
- group by age group etc
- 13 - 101 or older (maybe cut at 100)
- 80 or more

```

#plot(SeriousDlqin2yrs ~ age, data = cs_train_maj)
cs_train_maj_g1 <- cs_train_maj[cs_train_maj$MonthlyIncome<500000,] # less than 500k monthly income
cs_train_maj_g1 <- cs_train_maj[cs_train_maj$MonthlyIncome<20000,] # less than 20k monthly income
plot(MonthlyIncome ~ age, data = cs_train_maj_g1)

```



```

train <- cs_train
##Shelly EDA Code
tapply(cs_train$RevolvingUtilizationOfUnsecuredLines, train$SeriousDlqin2yrs, median) #use this; data v

##          0          1
## 0.1544904 0.8066074

##Next Steps
# ***need final data set which excludes outliers for which we will create final model from
# do box plots for age group and income; fix axes so that box is readable -Shelly
# histogram of groupings like income by age groups, different colors -Yolanda
# sampling of data --> randomly select instead of adding additional data for response variable -Shelly
# ClassDiscovery package and DataExplorer --> provide initial graphs and analyses of data; also initial

#Remove outliers; maybe only keep anything greater than 10
tapply(train$RevolvingUtilizationOfUnsecuredLines, train$SeriousDlqin2yrs, mean) #d

##          0          1
## 6.566204 3.184407

tapply(train$age, train$SeriousDlqin2yrs, median) #median age of 45 for people defaulting

##          0          1
## 51 46

```

```

#tapply(train$`NumberOfTime30-59DaysPastDueNotWorse`, train$SeriousDlqin2yrs, mean) #2.4 times for those with delinquency
tapply(train$Number0fTimes90DaysLate, train$SeriousDlqin2yrs, mean) #2.1 times for those with delinquency

##          0          1
## 0.111931 1.523173

tapply(train$DebtRatio, train$SeriousDlqin2yrs, median) #0.43 for delinquency incidence vs 0.36 for non-delinquency

##          0          1
## 0.2924788 0.3600771

#tapply(train$NumIncome, train$SeriousDlqin2yrs, median) #delinquency monthly income of $3.8K vs $4.4K
tapply(train$Number0fTimes90DaysLate, train$SeriousDlqin2yrs, mean)

##          0          1
## 0.111931 1.523173

#summary(train$NumIncome)

```

3. Balancing Data (Creating New Datasets)

- Use clustering and pick one sub-group from majority
 - can try Age/Income
 - try Income/debt ratio
- Use bagging algorithm to create more minority data
- Use NA indicator 0 or 1 (maybe use mean/median)

b) Resampling Majority Data (new_train.final 1 & 2)

- Method 1: use Full omit Data to sample majority data (new_train.final1) (8357*2)
- Method 2: use Training Data to sample majority data (new_train.final2) (4941*2)

```

####SHELLY - Balance Response Variable
set.seed(2) # for reproducibility

## Method 1: Balance Full omit Data (new_train.final1)
new_train <- filter(cs_train OMIT, cs_train OMIT$SeriousDlqin2yrs == 0) #112k rows

#Check Response Variable Balance in cs_train OMIT data
table(cs_train OMIT$SeriousDlqin2yrs) #8,357 1's

##          0          1
## 111912    8357

n_add <- sum(cs_train OMIT$SeriousDlqin2yrs == 1) # Number of Default
n_add

## [1] 8357

new_train2 <- new_train[sample(1:nrow(new_train)),] #112k rows without replacement
new_train3 <- new_train2[1:n_add,]

#####Merge Data Together (use new_train5 variable)
new_train4 <- filter(cs_train OMIT, cs_train OMIT$SeriousDlqin2yrs == 1)

```

```

#nrow(new_train4)
new_train.final1 <- rbind(new_train3, new_train4)
nrow(new_train.final1) #16,714 rows as there should be (8357*2)

## [1] 16714
table(new_train.final1$SeriousDlqin2yrs) #correct; equal # of 0's and 1's

##
##      0      1
## 8357 8357

## Method 2: Balance Training Data (new_train.final2)

#Check Response Variable Balance in cs_train_omit data
table(cs_train$SeriousDlqin2yrs) #0: 67220 1: 4941

##
##      0      1
## 67220 4941
n_add <- nrow(cs_train_min) # Number of Default

# Randomly Sample data from Non-Default group (sample = min group obs#)
new_train <- cs_train_maj[sample(1:nrow(cs_train_maj),n_add, replace=FALSE),] #67220 rows without repl

#####***Merge Data Together (use new_train.final2 variable)
new_train.final2 <- rbind(new_train, cs_train_min)
nrow(new_train.final2) #10k rows as there should be (4941*2)

## [1] 9882
table(new_train.final2$SeriousDlqin2yrs) #correct; equal # of 0's and 1's

##
##      0      1
## 4941 4941

```

c) Using Clustering to select from Majority Group

Select one cluster from majority group and combine with minority group data to form new Balanced Training Data

```

training_dataset <- data.frame(train.x, train.y)
kmeans_model_train <- kmeans(training_dataset, centers = 5) # centers because paper had 5 clusters
kmeans_model_train$centers #what each cluster's average values are for each variable. The most obvious

##   RevolvingUtilizationOfUnsecuredLines      age
## 1                           0.25563963 51.85714
## 2                           0.30094326 53.69880
## 3                           0.00732813 52.00000
## 4                          14.17070502 53.63628
## 5                          4.13445042 50.60142
##   NumberOfTime30.59DaysPastDueNotWorse  DebtRatio MonthlyIncome
## 1                           0.2857143  0.003406329  580671.714
## 2                           0.2228916  0.076526033  91885.494
## 3                           0.0000000  0.001470045 3008750.000
## 4                           0.2515422  0.296182799  12837.435

```

```

## 5          0.4164810 35.479464445      4525.353
##  NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 1          9.142857          0.00000000
## 2          11.415663          0.06626506
## 3          10.000000          0.00000000
## 4          10.787612          0.05615007
## 5          8.178820          0.25217019
##  NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 1          1.0000000          0.28571429
## 2          2.1927711          0.01807229
## 3          1.0000000          0.00000000
## 4          1.6671912          0.05470225
## 5          0.8784692          0.22136860
##  NumberOfDependents  train.y
## 1          1.2857143 0.00000000
## 2          1.1566265 0.06024096
## 3          3.0000000 0.00000000
## 4          1.1644215 0.04418985
## 5          0.7642823 0.07538190
#Cluster 3 and 4 are different than Cluster 1 and 2 in terms of the Response Variable.
kmeans_model_train$size

## [1] 7 166 1 15886 56101

## Sample from Majority Data Proportional to Minority Data
set.seed(500)
Majority <- cs_train_maj[,-which(names(cs_train_maj) == "X")]
kmeans_model_train_majority <- kmeans(Majority, centers = 5)
kmeans_model_train_majority$centers

##  SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines      age
## 1          0          0.25563963 51.85714
## 2          0          0.29232591 54.07692
## 3          0          4.17487638 51.02706
## 4          0          0.00732813 52.00000
## 5          0          14.81383169 53.81218
##  NumberOfTime30.59DaysPastDueNotWorse  DebtRatio MonthlyIncome
## 1          0.2857143 0.003406329 580671.714
## 2          0.1923077 0.075301645 92001.218
## 3          0.2853509 35.684460036 4552.355
## 4          0.0000000 0.001470045 3008750.000
## 5          0.2149120 0.289472207 12835.539
##  NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 1          9.142857          0.00000000
## 2          11.429487          0.04487179
## 3          8.217530          0.13319329
## 4          10.000000          0.00000000
## 5          10.728789          0.03994990
##  NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 1          1.0000000          0.28571429
## 2          2.0641026          0.01282051
## 3          0.8795845          0.12134061
## 4          1.0000000          0.00000000
## 5          1.6433516          0.04146615

```

```

##      NumberOfDependents
## 1          1.2857143
## 2          1.1666667
## 3          0.7441363
## 4          3.0000000
## 5          1.1581515

kmeans_model_train_majority$size

## [1]    7 156 51887     1 15169

cluster_majority <- kmeans_model_train_majority$cluster
Majority_with_cluster <- cbind(Majority, cluster = kmeans_model_train_majority$cluster)
head(Majority_with_cluster)

##      SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 30484          0                  0.09474044 47
## 74216          0                  0.05277307 68
## 54077          0                  0.73665267 36
## 86784          0                  0.02365700 36
## 14388          0                  0.00581900 44
## 31442          0                  0.11523783 40
##      NumberOfTime30.59DaysPastDueNotWorse DebtRatio MonthlyIncome
## 30484                      0 0.36842105      6250
## 74216                      0 0.22759781     11884
## 54077                      0 0.09445277      2000
## 86784                      0 0.21710409      5600
## 14388                      0 0.18525779      5100
## 31442                      1 2.49168646     2946
##      NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 30484                      8                      0
## 74216                     13                      0
## 54077                      6                      0
## 86784                      9                      0
## 14388                     24                      0
## 31442                     17                      0
##      NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 30484                      1                      0
## 74216                      2                      0
## 54077                      0                      0
## 86784                      1                      0
## 14388                      1                      0
## 31442                      3                      0
##      NumberOfDependents cluster
## 30484          3          3
## 74216          1          5
## 54077          1          3
## 86784          0          3
## 14388          2          3
## 31442          0          3

Cluster1 <- subset.data.frame(Majority_with_cluster, cluster == 1)
Cluster2 <- subset.data.frame(Majority_with_cluster, cluster == 2)
Cluster3 <- subset.data.frame(Majority_with_cluster, cluster == 3)
Cluster4 <- subset.data.frame(Majority_with_cluster, cluster == 4)
Cluster5 <- subset.data.frame(Majority_with_cluster, cluster == 5)

```

```

Special_Small_Clusters <- sum(nrow(Cluster1),nrow(Cluster2),nrow(Cluster4))
Sample3 <- Cluster3[sample(nrow(Cluster3), nrow(Cluster3)/(nrow(Majority) - Special_Small_Clusters) * n
Sample3

##      SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 35580          0                  2.028185e-01  46
## 46953          0                  1.629959e-02  64
## 52453          0                  0.000000e+00  47
## 24027          0                  2.444725e-02  81
## 1521           0                  3.518928e-01  45
## 61774           0                  2.084403e-02  52
## 57130           0                  1.831676e-01  35
## 80283           0                  9.999999e-01  26
## 145496          0                  9.999999e-01  52
## 46162           0                  1.820346e-01  35
## 19398           0                  4.117932e-01  30
## 88300           0                  2.862652e-01  68
## 7429            0                  1.048280e+00  57
## 42092           0                  9.999999e-01  28
## 105437          0                  2.953215e-02  81
## 15786           0                  9.980040e-01  58
## 146690          0                  1.411925e-01  63
## 140730          0                  3.038997e-01  42
## 46821           0                  0.000000e+00  85
## 58102           0                  6.310580e-04  53
## 137929          0                  3.353829e-01  61
## 64582           0                  7.692308e-02  24
## 42318           0                  9.999999e-01  39
## 52970           0                  3.229534e-02  77
## 12848           0                  7.082065e-02  30
## 47977           0                  1.448199e-01  41
## 76624           0                  4.185454e-01  56
## 68296           0                  4.902735e-02  34
## 59573           0                  3.606898e-01  39
## 25961           0                  1.546589e-01  57
## 67477           0                  1.242658e-02  33
## 120588          0                  6.571241e-03  43
## 14289           0                  4.232577e-01  51
## 131394          0                  8.107800e-04  67
## 108140          0                  0.000000e+00  38
## 45005           0                  0.000000e+00  54
## 21012           0                  1.042303e-02  61
## 149334          0                  3.897485e-01  63
## 48644           0                  2.826192e-01  34
## 18405           0                  0.000000e+00  78
## 62018           0                  1.962810e-01  57
## 134377          0                  7.993410e-01  47
## 59971           0                  9.999999e-01  28
## 16834           0                  6.178209e-02  33
## 24349           0                  4.589289e-01  81
## 65634           0                  8.130272e-02  65
## 132439          0                  4.478831e-03  65
## 129102          0                  9.650087e-01  45
## 84842           0                  5.415549e-03  81

```

## 25367	0	8.749450e-04	40
## 69526	0	3.107442e-02	80
## 127629	0	1.501733e-03	72
## 130867	0	1.745201e-03	47
## 53803	0	7.357758e-01	39
## 140520	0	7.208099e-02	53
## 8598	0	2.211913e-01	58
## 22097	0	6.798058e-01	57
## 41262	0	8.294433e-02	52
## 128569	0	0.000000e+00	49
## 65612	0	4.075459e-03	26
## 12510	0	4.374605e-01	45
## 59602	0	1.800910e-01	37
## 123838	0	9.999999e-01	32
## 91758	0	8.022053e-02	68
## 43316	0	6.659667e-02	53
## 46064	0	7.776889e-01	25
## 103290	0	0.000000e+00	24
## 106964	0	1.255794e-01	38
## 64264	0	7.231045e-01	38
## 136198	0	3.290789e-01	53
## 104056	0	1.384517e-01	41
## 82370	0	1.056629e+00	50
## 100651	0	1.898650e-02	83
## 100839	0	1.190960e-02	76
## 22793	0	8.661269e-01	29
## 146335	0	1.197612e-01	70
## 58469	0	0.000000e+00	29
## 63622	0	3.245422e-01	51
## 50792	0	3.577590e-01	39
## 20230	0	4.339980e-01	29
## 35691	0	1.355809e-01	53
## 145813	0	9.999999e-01	37
## 60388	0	0.000000e+00	38
## 38157	0	2.298975e-01	41
## 83580	0	0.000000e+00	64
## 81508	0	6.702927e-02	31
## 14108	0	0.000000e+00	59
## 86628	0	2.735373e-01	85
## 60348	0	2.371170e-01	37
## 13906	0	2.426784e-01	44
## 30467	0	6.624030e-02	64
## 135337	0	2.162585e-02	37
## 90586	0	8.019447e-01	57
## 15862	0	9.815373e-03	65
## 145689	0	3.802137e-01	62
## 69899	0	9.692762e-01	44
## 110190	0	1.459830e-02	53
## 101006	0	0.000000e+00	43
## 117549	0	9.999999e-01	34
## 25395	0	2.591751e-01	41
## 13715	0	4.041845e-01	39
## 63920	0	1.770923e-02	23
## 35383	0	4.948039e-02	61

## 39419	0	4.124344e-01	38
## 104925	0	0.000000e+00	42
## 2005	0	2.827115e-01	63
## 91013	0	5.729514e-02	26
## 106956	0	7.805292e-03	35
## 116549	0	5.419127e-02	54
## 136746	0	0.000000e+00	41
## 96796	0	8.291034e-03	67
## 30629	0	1.371190e-01	62
## 73382	0	4.410075e-03	54
## 90238	0	9.176800e-02	31
## 125086	0	4.677695e-02	49
## 1277	0	9.999999e-01	29
## 26226	0	3.311580e-01	37
## 20789	0	5.640739e-02	64
## 6967	0	8.850169e-01	35
## 3139	0	1.057977e-01	29
## 136776	0	3.058022e-02	54
## 77752	0	8.294239e-02	45
## 95117	0	0.000000e+00	52
## 3710	0	5.653629e-03	59
## 83449	0	9.442621e-01	27
## 97425	0	9.057476e-02	55
## 148776	0	9.999999e-01	32
## 99915	0	6.527623e-01	40
## 36781	0	7.293903e-03	44
## 10537	0	5.328578e-01	42
## 67045	0	4.375624e-01	24
## 71089	0	9.999999e-01	28
## 54096	0	2.598981e-01	56
## 99962	0	0.000000e+00	51
## 61211	0	2.378387e-02	58
## 30218	0	3.142558e-03	41
## 52036	0	0.000000e+00	23
## 10089	0	3.585401e-01	66
## 39129	0	9.999999e-01	40
## 11238	0	1.412171e-01	43
## 140972	0	4.220905e-02	61
## 146581	0	9.561155e-01	51
## 128262	0	8.647336e-01	58
## 149596	0	2.489917e-02	50
## 5168	0	3.828412e-01	52
## 142800	0	3.997652e-01	36
## 109385	0	1.588962e-02	54
## 11779	0	3.332869e-02	71
## 4169	0	5.127568e-01	32
## 87546	0	6.128978e-01	47
## 105612	0	3.295960e-01	38
## 40172	0	7.883598e-01	30
## 97179	0	9.063482e-02	55
## 72936	0	1.352331e-01	61
## 140856	0	4.913984e-01	52
## 95437	0	9.999999e-01	42
## 59486	0	9.971879e-01	47

## 90546	0	5.005190e-01	64
## 41040	0	4.305827e-01	29
## 102471	0	9.999999e-01	40
## 68699	0	8.607380e-04	51
## 99513	0	7.852307e-01	43
## 124044	0	7.637347e-01	54
## 31164	0	1.365810e-04	41
## 53572	0	3.251479e-02	68
## 127885	0	8.627115e-02	37
## 124506	0	5.111798e-01	43
## 79691	0	2.961629e-02	30
## 81492	0	3.162943e-02	53
## 103067	0	4.859757e-02	53
## 42238	0	6.131755e-02	30
## 64952	0	1.068550e-01	49
## 44757	0	7.128960e-04	58
## 104418	0	2.491155e-02	61
## 81694	0	3.021375e-02	49
## 79257	0	3.107069e-02	35
## 82074	0	3.654949e-01	27
## 49638	0	0.000000e+00	65
## 80741	0	8.979393e-01	48
## 115809	0	9.999999e-01	50
## 96165	0	7.039414e-02	60
## 17253	0	1.871813e-01	65
## 108834	0	3.617872e-01	47
## 85185	0	1.172692e-01	78
## 3310	0	1.205824e-01	89
## 74657	0	4.680040e-01	30
## 31402	0	7.848044e-01	67
## 4124	0	3.412694e-02	66
## 24356	0	2.881318e-01	68
## 122869	0	8.804491e-01	81
## 31798	0	2.362205e-01	55
## 19618	0	7.467655e-01	56
## 92874	0	2.044738e-01	60
## 69078	0	2.033796e-01	33
## 64331	0	1.428817e-01	63
## 18632	0	4.438715e-01	53
## 120866	0	1.332068e-02	35
## 29466	0	1.958668e-01	29
## 58537	0	1.669967e-01	47
## 6639	0	8.456687e-01	31
## 82040	0	8.738711e-02	60
## 91052	0	9.999999e-01	46
## 13759	0	4.617297e-01	52
## 72625	0	0.000000e+00	37
## 73541	0	2.154839e-01	72
## 104924	0	3.717398e-01	58
## 63784	0	7.899635e-01	37
## 106701	0	2.970041e-01	45
## 140150	0	2.800654e-01	30
## 18796	0	0.000000e+00	52
## 41852	0	0.000000e+00	46

## 85465	0	9.999999e-01	72
## 51519	0	4.415732e-03	54
## 2879	0	4.935065e-01	24
## 98506	0	6.890700e-02	29
## 33754	0	4.378531e-01	74
## 61219	0	3.608754e-02	47
## 126327	0	1.016225e-01	66
## 17503	0	8.438931e-02	66
## 70778	0	8.866602e-02	40
## 109741	0	2.003092e-01	50
## 143027	0	6.916514e-01	57
## 12497	0	0.000000e+00	47
## 87836	0	1.201197e-02	63
## 61532	0	6.273686e-01	62
## 4278	0	8.368008e-01	57
## 117571	0	0.000000e+00	72
## 98762	0	5.760245e-02	61
## 131682	0	6.189887e-03	29
## 126181	0	9.999999e-01	31
## 10778	0	4.257978e-01	28
## 143293	0	1.589460e-01	41
## 4666	0	2.286025e-01	53
## 6631	0	3.141735e-01	63
## 20940	0	1.362214e-01	37
## 57355	0	2.934427e-01	44
## 8380	0	1.013613e-02	57
## 34667	0	2.732969e-02	35
## 63550	0	1.597249e-01	71
## 25058	0	0.000000e+00	32
## 35869	0	2.325626e-01	38
## 53291	0	9.999999e-01	74
## 106189	0	1.982121e-01	40
## 104325	0	9.981330e-01	35
## 63167	0	0.000000e+00	41
## 64112	0	3.047107e-01	65
## 145282	0	3.671582e-01	35
## 144139	0	9.999999e-01	36
## 52631	0	3.235486e-01	45
## 131645	0	1.585397e-01	43
## 75053	0	1.023273e-01	74
## 21321	0	4.854537e-01	54
## 74091	0	6.182342e-01	61
## 110825	0	9.224507e-01	67
## 33270	0	4.576123e-02	40
## 62172	0	4.930276e-01	43
## 149500	0	0.000000e+00	63
## 47860	0	2.734906e-01	39
## 32217	0	1.641918e-01	65
## 4594	0	2.384022e-03	61
## 97023	0	2.646163e-01	46
## 45501	0	3.487469e-02	49
## 19970	0	8.744446e-02	37
## 145012	0	6.918616e-02	50
## 46570	0	1.281047e-02	59

## 57788	0	7.357896e-01	65
## 61960	0	2.719456e-02	31
## 4370	0	1.540256e-01	49
## 65064	0	1.512406e-02	56
## 22525	0	2.736747e-01	45
## 16184	0	9.999999e-01	61
## 20937	0	4.666045e-03	62
## 122894	0	0.000000e+00	47
## 9809	0	2.605393e-02	67
## 121191	0	4.995715e-01	30
## 64812	0	3.935145e-02	79
## 91455	0	3.275524e-02	79
## 40971	0	9.998337e-01	28
## 116730	0	3.110506e-02	72
## 50615	0	0.000000e+00	54
## 114321	0	7.353162e-01	51
## 27566	0	2.570375e-01	43
## 109724	0	9.479526e-02	52
## 5152	0	1.219976e-02	78
## 27654	0	7.171315e-01	33
## 116889	0	9.999390e-01	60
## 134404	0	0.000000e+00	33
## 4339	0	3.828579e-01	46
## 101093	0	5.624235e-02	33
## 54408	0	4.438273e-01	50
## 11299	0	1.013998e-01	60
## 129191	0	1.254738e-01	52
## 143777	0	1.993273e-01	44
## 92858	0	1.519856e-01	54
## 77353	0	1.056859e-02	45
## 74228	0	3.720065e-03	66
## 98536	0	6.237501e-02	84
## 104905	0	3.436630e-01	44
## 138162	0	9.999999e-01	42
## 68447	0	3.677796e-03	58
## 51945	0	1.178282e-01	30
## 45921	0	2.720712e-01	33
## 23368	0	1.007798e+00	43
## 138970	0	5.399280e-02	56
## 92313	0	2.456008e-02	55
## 112928	0	1.379934e-01	39
## 84234	0	9.999999e-01	39
## 120859	0	4.184964e-01	74
## 93196	0	2.153795e-01	94
## 117555	0	8.016219e-02	44
## 66177	0	5.891626e-02	57
## 84130	0	5.044665e-01	64
## 100068	0	7.080286e-03	46
## 104257	0	4.008666e-01	38
## 134829	0	9.999999e-01	33
## 28669	0	1.941952e-02	77
## 148998	0	2.437426e-02	68
## 135065	0	2.423618e-03	32
## 89160	0	9.999999e-01	36

## 8657	0	8.328908e-03	76
## 72090	0	6.546671e-01	45
## 106658	0	8.931386e-03	72
## 44760	0	2.391556e-02	84
## 60424	0	5.850709e-01	50
## 11244	0	1.833055e-03	51
## 95715	0	5.189450e-03	67
## 76958	0	3.500385e-01	70
## 51967	0	1.666558e-02	88
## 104563	0	2.160921e-02	64
## 78279	0	2.545680e-01	58
## 78598	0	2.644620e-01	45
## 69283	0	1.669987e-02	44
## 74049	0	7.316280e-02	63
## 39838	0	5.099494e-01	49
## 97071	0	5.807849e-02	30
## 83305	0	1.718136e-01	53
## 144977	0	4.482112e-01	45
## 92989	0	1.824860e-01	53
## 99481	0	9.999999e-01	46
## 74800	0	9.999999e-01	33
## 134488	0	5.219245e-02	56
## 126335	0	9.911009e-01	39
## 136017	0	0.000000e+00	32
## 20434	0	1.306774e-01	44
## 10264	0	3.291781e-01	44
## 59691	0	9.999999e-01	39
## 63767	0	2.534918e-02	51
## 113541	0	1.420970e-02	57
## 125563	0	7.613742e-01	57
## 106855	0	9.903975e-01	56
## 24259	0	1.156184e-01	59
## 90767	0	1.231097e-01	51
## 36206	0	2.157551e-02	45
## 90933	0	9.152102e-02	63
## 104320	0	1.205221e-01	60
## 25479	0	7.213291e-01	38
## 87144	0	9.999999e-01	58
## 38378	0	1.844727e-01	56
## 10395	0	1.171077e-01	63
## 64287	0	5.188914e-03	68
## 136625	0	1.133704e-01	53
## 79983	0	4.799620e-04	33
## 108015	0	9.999999e-01	40
## 71640	0	6.379681e-02	48
## 85674	0	5.944056e-01	25
## 94329	0	9.999999e-01	79
## 35001	0	3.085597e-02	65
## 121349	0	2.522880e-02	44
## 9455	0	1.102807e+00	52
## 13528	0	3.824588e-01	55
## 104103	0	0.000000e+00	62
## 104410	0	6.800648e-02	45
## 50632	0	9.653035e-01	40

## 74861	0	9.999999e-01	27
## 127017	0	1.244338e-01	36
## 146988	0	7.870266e-01	45
## 124162	0	5.218687e-01	54
## 133253	0	4.279860e-01	67
## 65645	0	6.957440e-02	41
## 45709	0	4.082025e-02	58
## 124132	0	2.907061e-01	39
## 117188	0	0.000000e+00	51
## 39089	0	3.589478e-01	29
## 21045	0	1.369083e-01	38
## 11665	0	3.832056e-01	41
## 9929	0	5.275750e-02	47
## 52571	0	3.849726e-01	49
## 109562	0	4.959901e-03	84
## 99686	0	8.842481e-01	47
## 111235	0	4.215087e-01	27
## 28706	0	4.209579e-02	36
## 11510	0	4.652703e-01	43
## 96222	0	2.108642e-01	49
## 62050	0	1.071937e-01	78
## 137883	0	4.798993e-01	41
## 72999	0	5.926735e-01	44
## 22617	0	3.139022e-01	60
## 7341	0	5.392631e-01	57
## 7545	0	2.709148e-02	72
## 12991	0	0.000000e+00	42
## 27629	0	8.968332e-02	39
## 112822	0	5.465541e-01	67
## 25925	0	3.572217e-01	38
## 47502	0	9.999999e-01	65
## 131130	0	3.090744e-01	35
## 134894	0	9.999999e-01	55
## 35937	0	9.999999e-01	75
## 27545	0	2.787957e-01	64
## 119348	0	2.254145e-01	67
## 131072	0	1.820130e-01	62
## 59435	0	2.510180e-02	62
## 9470	0	5.380574e-02	33
## 110850	0	4.638918e-01	50
## 68109	0	4.501571e-01	79
## 33711	0	3.455614e-01	37
## 99795	0	0.000000e+00	36
## 60474	0	1.099267e+00	54
## 21909	0	3.301155e-01	70
## 10283	0	6.108452e-01	50
## 98503	0	4.284751e-01	52
## 106397	0	2.820811e-02	62
## 62023	0	0.000000e+00	44
## 148160	0	8.163237e-01	73
## 73624	0	2.022449e-02	35
## 21508	0	9.568792e-02	47
## 88829	0	1.461194e-01	56
## 29128	0	2.179564e-01	26

## 47462	0	1.608958e-02	53
## 2649	0	0.000000e+00	57
## 5110	0	3.721716e-03	49
## 12160	0	2.949645e-01	33
## 80987	0	0.000000e+00	27
## 66345	0	3.496757e-01	48
## 94722	0	2.604933e-02	45
## 56156	0	1.509718e-01	53
## 38733	0	5.951206e-01	47
## 89830	0	7.116288e-01	44
## 2754	0	5.069155e-01	66
## 124565	0	5.328575e-01	57
## 89894	0	2.776312e-01	45
## 36477	0	2.714106e-02	72
## 8118	0	9.999999e-01	40
## 96294	0	5.420633e-01	40
## 101364	0	8.872902e-01	47
## 95705	0	9.999999e-01	31
## 43697	0	3.098587e-01	82
## 144045	0	1.460544e-01	60
## 21457	0	5.264360e-03	52
## 81097	0	0.000000e+00	52
## 42269	0	3.557749e-01	67
## 147214	0	0.000000e+00	52
## 117393	0	1.784911e-02	68
## 22992	0	3.722871e-02	44
## 16678	0	5.584717e-01	26
## 59243	0	0.000000e+00	35
## 53349	0	1.361767e-01	43
## 112348	0	1.592259e-02	74
## 11230	0	0.000000e+00	40
## 144130	0	9.999999e-01	53
## 28933	0	8.647644e-03	52
## 97382	0	1.316002e-01	63
## 128678	0	3.003998e-01	24
## 112572	0	4.449817e-01	68
## 89732	0	8.100538e-02	74
## 53639	0	2.481560e-01	41
## 59455	0	1.115125e-02	30
## 53591	0	6.797416e-01	28
## 132229	0	8.800898e-01	38
## 31170	0	5.007771e-02	62
## 119046	0	7.551245e-01	41
## 138338	0	4.575111e-01	53
## 115461	0	1.007167e+00	40
## 103047	0	9.999999e-01	39
## 143135	0	3.880768e-02	30
## 71667	0	4.842579e-01	57
## 63070	0	1.491176e-02	67
## 88587	0	9.999999e-01	24
## 119923	0	9.273127e-02	84
## 63202	0	2.888825e-01	37
## 81071	0	3.596320e-01	81
## 89459	0	5.168316e-01	37

## 20991	0	2.330124e-02	68
## 139942	0	8.650571e-01	59
## 85880	0	8.519038e-02	45
## 132581	0	8.622468e-01	53
## 49724	0	1.625200e-01	62
## 80517	0	2.581083e-03	75
## 122487	0	0.000000e+00	58
## 67935	0	1.699708e-01	52
## 50539	0	2.323835e-02	31
## 67154	0	8.989094e-02	43
## 54813	0	2.625506e-02	52
## 52658	0	9.752195e-01	47
## 134119	0	1.340746e-01	44
## 9443	0	1.543335e-01	40
## 3747	0	2.177783e-01	27
## 61376	0	9.891505e-01	58
## 116305	0	1.689014e-01	49
## 53879	0	3.788782e-01	40
## 70324	0	1.623577e-02	57
## 148548	0	3.146256e-02	39
## 5829	0	1.417905e-01	38
## 86013	0	6.874148e-01	48
## 30709	0	8.454746e-01	26
## 98712	0	9.820359e-01	30
## 104601	0	4.526705e-02	62
## 66969	0	9.999999e-01	66
## 74474	0	9.231360e-03	63
## 1997	0	9.999999e-01	23
## 24862	0	9.023503e-01	56
## 145047	0	9.762802e-01	39
## 86885	0	1.216523e-01	58
## 101024	0	9.999999e-01	48
## 107100	0	9.278534e-02	65
## 143930	0	2.612787e-01	47
## 54026	0	1.533717e-01	50
## 138837	0	0.000000e+00	21
## 61407	0	2.790625e-01	46
## 18017	0	9.089710e-01	46
## 83752	0	1.324669e-02	27
## 62959	0	3.813452e-02	58
## 126215	0	2.715973e-01	60
## 119773	0	7.968416e-01	45
## 137805	0	9.999999e-01	29
## 60430	0	4.144106e-01	32
## 64532	0	4.359063e-01	38
## 71462	0	1.385034e-01	54
## 96433	0	3.166415e-02	47
## 1083	0	2.471358e-01	34
## 71858	0	2.665015e-02	42
## 22615	0	0.000000e+00	28
## 118791	0	2.891186e-01	73
## 148356	0	2.172906e-01	61
## 134595	0	2.275963e-02	57
## 109914	0	7.324492e-01	49

## 53297	0	2.818950e-04	86
## 26210	0	2.029082e-01	58
## 129243	0	5.765856e-03	34
## 61974	0	4.422530e-02	45
## 136157	0	5.369630e-01	58
## 47223	0	0.000000e+00	51
## 115057	0	2.455861e-02	64
## 147399	0	6.298740e-01	26
## 40322	0	9.666956e-01	50
## 148901	0	8.595170e-02	60
## 15311	0	9.435216e-01	39
## 92644	0	2.228348e-01	53
## 137193	0	4.123692e-01	47
## 3614	0	0.000000e+00	41
## 70104	0	3.005563e-01	61
## 129752	0	8.089706e-02	36
## 36373	0	9.007293e-02	44
## 15108	0	8.617001e-02	42
## 66502	0	1.979650e-01	42
## 46092	0	1.895356e-02	67
## 1162	0	1.718597e-02	48
## 121057	0	7.490515e-01	57
## 112232	0	1.544228e-01	34
## 101382	0	1.111944e-01	55
## 53325	0	8.977968e-01	48
## 19470	0	0.000000e+00	29
## 28449	0	2.169955e-01	62
## 12069	0	4.068640e-02	56
## 51864	0	5.751372e-01	36
## 60061	0	5.300127e-01	38
## 127849	0	6.314105e-03	90
## 130581	0	1.306874e-02	74
## 14389	0	9.999999e-01	50
## 124485	0	8.851149e-01	22
## 125356	0	4.700127e-02	39
## 134836	0	4.695015e-01	62
## 32032	0	2.037394e-01	56
## 135103	0	8.656285e-01	27
## 2654	0	8.435112e-02	81
## 129169	0	7.625811e-01	60
## 28646	0	7.016488e-01	45
## 51121	0	5.921893e-03	64
## 130969	0	3.636433e-01	32
## 71191	0	3.154225e-02	59
## 148889	0	0.000000e+00	50
## 31930	0	9.606073e-01	66
## 9679	0	1.002731e-01	38
## 47351	0	0.000000e+00	27
## 119258	0	9.369513e-02	76
## 10683	0	1.925208e-02	66
## 148633	0	1.872973e-02	58
## 23072	0	5.131422e-01	60
## 138920	0	4.611076e-01	71
## 133244	0	2.309615e-01	44

## 90248	0	5.784711e-02	42
## 99620	0	9.446580e-01	24
## 88565	0	4.538139e-03	49
## 54306	0	4.098639e-02	49
## 120321	0	1.465060e-01	77
## 24733	0	3.269272e-01	49
## 134002	0	2.711949e-02	56
## 66083	0	9.999999e-01	65
## 12413	0	2.045592e-01	73
## 25802	0	1.437811e-01	39
## 33546	0	1.108051e-01	47
## 28084	0	2.822408e-02	48
## 11425	0	1.657409e-01	26
## 56159	0	9.016197e-01	31
## 10250	0	0.000000e+00	74
## 8726	0	8.653608e-03	47
## 149398	0	4.525929e-01	81
## 2305	0	2.790689e-02	76
## 48036	0	4.439516e-01	43
## 36433	0	7.836110e-01	47
## 105217	0	7.016082e-02	58
## 40487	0	3.483690e-02	77
## 51759	0	1.590469e-01	30
## 106561	0	8.770604e-01	48
## 34316	0	9.807805e-01	43
## 99196	0	5.295237e-01	54
## 124613	0	4.704538e-02	71
## 71396	0	3.330089e-02	80
## 47301	0	2.973490e-01	46
## 132907	0	2.117113e-02	67
## 28898	0	1.868234e-01	44
## 107190	0	0.000000e+00	77
## 42663	0	6.187741e-01	39
## 58025	0	1.133369e-01	74
## 98801	0	7.320049e-02	42
## 48214	0	3.481658e-01	41
## 85159	0	7.228564e-01	40
## 122621	0	9.999999e-01	47
## 143330	0	4.453424e-02	81
## 136471	0	7.036477e-02	43
## 126926	0	1.529077e-03	58
## 130491	0	3.759475e-01	30
## 98197	0	9.999999e-01	48
## 29565	0	6.057735e-01	53
## 142061	0	9.999999e-01	35
## 18642	0	1.125371e-02	74
## 102208	0	1.516914e-02	83
## 18078	0	6.750471e-01	77
## 95355	0	8.708231e-01	45
## 128497	0	2.759037e-01	59
## 96235	0	3.646016e-03	42
## 102318	0	5.264344e-01	31
## 146073	0	5.301614e-01	33
## 89951	0	2.962638e-01	48

## 59543	0	2.387538e-01	80
## 102306	0	8.511185e-02	51
## 22828	0	5.405465e-01	34
## 88184	0	3.893653e-01	62
## 3617	0	3.167150e-01	83
## 40065	0	1.909697e-01	51
## 104871	0	9.999999e-01	54
## 77171	0	1.686919e-02	64
## 87436	0	7.003919e-01	49
## 129978	0	1.026398e-01	31
## 24209	0	1.399813e-01	72
## 50823	0	3.533156e-01	34
## 141028	0	3.410795e-01	45
## 36376	0	4.118091e-01	58
## 25913	0	9.999999e-01	36
## 15016	0	1.186801e-01	44
## 64762	0	8.635742e-03	70
## 80558	0	0.000000e+00	34
## 36251	0	5.712917e-02	63
## 93315	0	7.306076e-02	49
## 64837	0	6.771228e-01	27
## 133294	0	3.409486e-02	48
## 62229	0	7.510161e-01	41
## 145483	0	1.665674e-01	54
## 16305	0	3.208859e-02	71
## 66022	0	7.368986e-01	71
## 8831	0	6.334671e-02	65
## 123674	0	5.554191e-02	64
## 46467	0	3.824122e-01	39
## 133562	0	2.140517e-02	76
## 123327	0	4.494137e-01	56
## 113680	0	2.821944e-02	69
## 14862	0	4.073768e-01	41
## 145677	0	6.014466e-01	44
## 77433	0	5.169117e-02	65
## 68576	0	3.409802e-01	52
## 74867	0	2.083225e-02	73
## 70891	0	0.000000e+00	46
## 118510	0	9.999999e-01	42
## 45378	0	9.999999e-01	57
## 27615	0	4.925025e-01	52
## 149996	0	4.067386e-02	74
## 70399	0	1.983063e-01	59
## 82599	0	8.271030e-02	37
## 31692	0	3.161822e-01	40
## 120241	0	4.950261e-01	34
## 7002	0	1.717799e-01	50
## 100364	0	6.113706e-01	58
## 66472	0	1.280762e-01	58
## 111519	0	4.269775e-01	65
## 15406	0	1.855130e-02	52
## 114428	0	1.301381e-02	41
## 36219	0	6.648525e-01	61
## 55478	0	7.497941e-01	40

## 141238	0	9.999999e-01	31
## 128824	0	6.015999e-01	63
## 15767	0	0.000000e+00	57
## 113715	0	3.339896e-01	64
## 141058	0	9.999999e-01	55
## 140718	0	9.550357e-02	58
## 142591	0	9.999999e-01	33
## 32810	0	9.999999e-01	62
## 8482	0	4.976276e-01	48
## 108855	0	3.735073e-01	32
## 99140	0	5.604334e-01	48
## 64709	0	6.266412e-01	46
## 26521	0	1.728780e-01	36
## 138556	0	0.000000e+00	37
## 145777	0	6.016999e-01	41
## 117626	0	1.492936e-01	80
## 124319	0	2.414463e-01	60
## 70663	0	6.486486e-01	24
## 124772	0	9.999999e-01	53
## 25733	0	2.458015e-01	52
## 135692	0	0.000000e+00	33
## 63689	0	9.999999e-01	34
## 98481	0	3.259083e-01	29
## 120495	0	1.649794e-02	73
## 83656	0	6.939950e-04	43
## 87843	0	2.240719e-01	50
## 31136	0	7.312271e-03	50
## 3105	0	4.630344e-01	28
## 129557	0	3.713899e-02	57
## 80285	0	1.103193e-01	52
## 41093	0	1.019238e-01	56
## 73633	0	2.016773e-02	76
## 57680	0	0.000000e+00	62
## 60529	0	9.540918e-01	32
## 74599	0	9.999999e-01	39
## 70931	0	7.065206e-01	44
## 148678	0	1.477971e-02	76
## 102743	0	1.039480e-01	27
## 106085	0	1.968188e-01	57
## 134147	0	8.892392e-01	45
## 149883	0	6.239822e-02	77
## 119225	0	4.267365e-03	78
## 72035	0	3.727530e-02	59
## 103802	0	1.028388e-03	73
## 49154	0	4.973005e-01	39
## 115590	0	9.654512e-01	36
## 126658	0	5.031118e-01	65
## 4667	0	8.392575e-02	67
## 83153	0	1.387445e-01	29
## 72373	0	3.046170e-02	43
## 104336	0	9.999999e-01	49
## 65716	0	6.079200e-02	35
## 5805	0	0.000000e+00	58
## 91472	0	3.012576e-01	39

## 63232	0	0.000000e+00	49
## 99238	0	1.097093e-03	43
## 8414	0	3.728207e-01	57
## 145609	0	8.787306e-02	33
## 132799	0	6.654334e-01	67
## 25430	0	9.999999e-01	30
## 50790	0	1.629802e-01	66
## 5916	0	5.958850e-01	47
## 59943	0	7.609889e-01	40
## 90137	0	0.000000e+00	39
## 45421	0	8.882236e-01	42
## 128728	0	2.525093e-01	35
## 144431	0	8.075962e-01	24
## 28438	0	3.696304e-01	43
## 141497	0	5.782370e-02	23
## 136380	0	7.180493e-02	66
## 140340	0	2.021962e-02	72
## 15224	0	9.999999e-01	36
## 107443	0	1.915660e-01	39
## 111575	0	3.742409e-02	88
## 4734	0	9.418731e-02	48
## 14704	0	5.367847e-01	27
## 105703	0	9.566320e-02	51
## 48506	0	1.602255e-02	82
## 45606	0	0.000000e+00	76
## 52687	0	2.268566e-01	57
## 27763	0	8.328442e-02	68
## 7483	0	1.010728e-01	69
## 24887	0	3.808745e-01	57
## 89774	0	8.702595e-01	58
## 64394	0	5.371897e-01	55
## 62608	0	4.559445e-02	53
## 125587	0	9.999999e-01	65
## 66125	0	8.940132e-01	62
## 6345	0	2.468144e-02	63
## 80097	0	2.211568e-01	44
## 85102	0	5.985578e-01	61
## 85530	0	1.247799e-02	68
## 103259	0	1.531406e-01	51
## 107375	0	1.603182e-01	67
## 91729	0	6.587835e-01	61
## 138298	0	2.091359e-01	46
## 38578	0	2.260051e-01	55
## 17124	0	3.298936e-01	54
## 97418	0	1.366004e-01	66
## 68500	0	4.349099e-01	59
## 100885	0	9.999999e-01	52
## 53107	0	4.757929e-02	51
## 37017	0	9.147142e-01	47
## 84268	0	9.073659e-01	51
## 137200	0	5.511440e-02	50
## 142168	0	9.758177e-01	38
## 67249	0	3.420805e-01	74
## 15852	0	9.999999e-01	24

## 93844	0	7.786889e-01	33
## 28851	0	1.644518e+00	40
## 108011	0	0.000000e+00	72
## 79300	0	6.305589e-02	61
## 96323	0	3.565375e-01	38
## 84975	0	8.732169e-01	50
## 77886	0	2.867381e-01	29
## 33269	0	1.159747e-01	41
## 43734	0	8.313053e-02	78
## 90977	0	1.350770e-01	70
## 86770	0	0.000000e+00	54
## 6431	0	3.874703e-02	53
## 12319	0	2.101586e-01	50
## 9830	0	5.730056e-02	61
## 115235	0	5.518119e-01	40
## 145360	0	2.411439e-01	42
## 133215	0	1.367767e-01	55
## 66021	0	5.678816e-02	66
## 24543	0	5.140653e-01	45
## 87827	0	9.390609e-01	22
## 67624	0	8.403426e-01	34
## 25840	0	1.145682e-02	58
## 33759	0	7.531724e-01	43
## 32736	0	1.668910e-01	66
## 110230	0	6.037083e-02	60
## 20875	0	9.241537e-01	45
## 87507	0	8.175152e-03	50
## 142320	0	0.000000e+00	36
## 67022	0	9.999999e-01	47
## 71105	0	7.239206e-03	68
## 61976	0	3.735429e-02	32
## 72559	0	5.497251e-03	43
## 105742	0	7.199778e-03	35
## 31442	0	1.152378e-01	40
## 60440	0	0.000000e+00	61
## 57220	0	1.297284e-02	56
## 1699	0	8.186597e-01	58
## 90790	0	5.870688e-01	39
## 129261	0	2.195651e-02	52
## 97575	0	3.120368e-01	51
## 89800	0	1.394287e-01	39
## 147528	0	2.799262e-02	90
## 145159	0	7.661879e-01	56
## 79284	0	5.389518e-01	24
## 27351	0	1.216676e-01	58
## 97667	0	2.735551e-02	52
## 95169	0	5.340735e-01	27
## 145699	0	2.147491e-01	51
## 131351	0	8.114192e-01	45
## 2661	0	1.091684e-02	42
## 126808	0	3.350628e-02	68
## 131878	0	7.908630e-01	72
## 141006	0	5.200348e-01	26
## 89731	0	1.025197e+00	44

## 91222	0	1.521580e-01	51
## 36494	0	1.079965e-01	52
## 9290	0	3.130344e-02	46
## 4707	0	8.962152e-01	47
## 57197	0	9.665529e-01	40
## 21544	0	1.466039e-01	56
## 111281	0	9.999999e-01	38
## 94532	0	3.192185e-02	77
## 11343	0	3.966226e-02	33
## 145466	0	9.999999e-01	28
## 139689	0	5.531117e-01	46
## 83688	0	2.804770e-01	62
## 117935	0	5.608679e-01	52
## 33762	0	0.000000e+00	44
## 99745	0	2.440889e-01	46
## 88106	0	2.371969e-01	34
## 106753	0	8.652965e-01	27
## 83395	0	6.140020e-01	62
## 75118	0	1.864885e-02	52
## 62140	0	1.424754e-02	83
## 102326	0	8.840603e-01	44
## 116732	0	0.000000e+00	39
## 31002	0	7.778922e-01	33
## 45403	0	5.837817e-02	24
## 50155	0	0.000000e+00	56
## 125844	0	3.560343e-02	62
## 49020	0	2.979628e-01	37
## 44512	0	2.511570e-02	66
## 8931	0	9.999999e-01	66
## 140192	0	8.229887e-01	43
## 59547	0	7.482059e-01	63
## 148486	0	3.911522e-01	42
## 43453	0	3.916084e-01	35
## 15256	0	4.305995e-01	56
## 8306	0	8.100209e-02	71
## 126501	0	3.861263e-02	77
## 37929	0	3.078059e-01	68
## 136210	0	1.794065e-02	36
## 132639	0	8.472500e-03	73
## 108994	0	3.015855e-01	53
## 23144	0	5.124149e-01	26
## 66648	0	9.999999e-01	40
## 57702	0	0.000000e+00	31
## 55170	0	2.153269e-01	37
## 113197	0	3.292455e-01	67
## 98352	0	3.271947e-01	38
## 144532	0	6.579178e-01	47
## 7210	0	2.441463e-01	76
## 137681	0	1.638661e-02	53
## 103729	0	6.555079e-02	62
## 88963	0	4.737007e-02	87
## 145980	0	4.671940e-03	36
## 112236	0	5.456241e-02	55
## 96292	0	5.484873e-02	40

## 76561	0	6.748783e-01	76
## 7880	0	1.034447e-02	54
## 92058	0	9.999999e-01	31
## 58949	0	4.615921e-01	43
## 61491	0	9.965764e-03	81
## 37459	0	3.121266e-02	49
## 87817	0	1.733658e-01	61
## 9308	0	0.000000e+00	69
## 92277	0	7.629130e-02	68
## 78085	0	9.301126e-01	41
## 135903	0	9.999999e-01	24
## 119512	0	6.763719e-01	37
## 33428	0	0.000000e+00	48
## 5154	0	9.763412e-01	52
## 34752	0	3.294251e-03	56
## 63286	0	0.000000e+00	69
## 93829	0	5.686688e-02	74
## 131399	0	0.000000e+00	34
## 102373	0	2.438905e-02	35
## 139049	0	4.278632e-01	69
## 60035	0	0.000000e+00	26
## 15144	0	8.059177e-03	62
## 70018	0	4.187561e-01	63
## 68693	0	0.000000e+00	40
## 16449	0	9.762048e-01	28
## 77336	0	5.398106e-01	37
## 91681	0	9.999999e-01	64
## 58246	0	1.861588e-01	56
## 78167	0	9.999999e-01	55
## 99377	0	1.374622e-01	62
## 548	0	8.482699e-02	59
## 99933	0	2.388671e-02	80
## 11915	0	2.175391e-01	49
## 91691	0	0.000000e+00	51
## 115069	0	1.624959e-02	65
## 148084	0	9.999999e-01	44
## 68783	0	2.249901e-01	66
## 21066	0	8.093671e-01	35
## 101892	0	4.742744e-01	55
## 131678	0	3.190653e-01	36
## 65856	0	1.407816e-02	66
## 45381	0	1.087746e-01	37
## 1501	0	1.288421e-01	37
## 103093	0	9.440160e-01	44
## 74131	0	1.016327e-01	34
## 77022	0	1.217215e-01	29
## 61187	0	9.302684e-01	45
## 57607	0	2.382585e-02	49
## 53014	0	8.133155e-02	52
## 74293	0	3.433493e-01	49
## 40721	0	9.999999e-01	45
## 44731	0	7.654509e-01	48
## 4984	0	1.743575e-01	32
## 79293	0	9.999999e-01	54

## 108410	0	3.430514e-01	26
## 45036	0	6.539198e-01	56
## 22260	0	2.437585e-01	46
## 106047	0	2.144893e-02	26
## 93212	0	6.441571e-01	37
## 42174	0	2.838505e-03	57
## 94208	0	2.065020e-02	61
## 93066	0	9.999999e-01	39
## 73207	0	0.000000e+00	63
## 105738	0	8.366534e-01	67
## 81454	0	1.094158e-01	58
## 19449	0	8.476305e-01	41
## 120152	0	3.572352e-01	34
## 142165	0	1.668747e-02	50
## 2245	0	1.841826e-01	73
## 33126	0	2.338339e-01	45
## 13223	0	1.972019e-01	40
## 37463	0	7.832798e-01	62
## 100352	0	3.125767e-01	31
## 106764	0	4.438352e-01	31
## 127747	0	8.030357e-02	32
## 107282	0	1.944367e-01	63
## 45116	0	0.000000e+00	49
## 58848	0	3.075536e-01	50
## 1861	0	9.999999e-01	45
## 53696	0	0.000000e+00	90
## 103922	0	9.999999e-01	45
## 42006	0	8.112793e-02	39
## 142013	0	4.569817e-01	53
## 109810	0	2.574871e-02	51
## 78720	0	5.632053e-01	43
## 6275	0	7.192043e-02	33
## 87211	0	7.570121e-01	64
## 89705	0	0.000000e+00	56
## 133148	0	6.175688e-01	42
## 106374	0	9.794772e-02	65
## 102069	0	4.741648e-01	54
## 21296	0	2.854905e-01	47
## 50327	0	7.099432e-01	26
## 3834	0	2.636976e-01	57
## 125798	0	1.295681e-01	36
## 132429	0	3.053868e-01	55
## 144312	0	7.746344e-01	49
## 10356	0	1.098494e-01	41
## 46423	0	1.998145e-02	47
## 98094	0	9.999999e-01	42
## 71426	0	9.042781e-02	53
## 74180	0	3.669136e-01	70
## 147927	0	3.866929e-01	39
## 61883	0	2.215534e-01	45
## 118717	0	3.091345e-01	67
## 119239	0	6.671443e-01	27
## 2903	0	2.215408e-02	79
## 56682	0	2.529708e-01	40

## 71737	0	1.186118e-02	46
## 59986	0	3.119792e-02	78
## 74015	0	3.432044e-01	58
## 15395	0	1.037772e-01	67
## 31837	0	6.074023e-01	47
## 40536	0	4.718830e-01	33
## 66396	0	7.258399e-01	59
## 7040	0	4.128146e-02	44
## 46137	0	9.999600e-03	44
## 120428	0	2.835541e-02	42
## 53812	0	8.712945e-01	55
## 90431	0	1.294928e-01	53
## 96765	0	9.014442e-02	64
## 146042	0	1.767498e-02	40
## 1159	0	2.269576e-01	80
## 36138	0	2.045725e-01	49
## 106613	0	4.595405e-02	32
## 101788	0	7.343083e-02	51
## 111064	0	4.686711e-02	48
## 38172	0	8.028540e-01	45
## 96032	0	1.909618e-01	33
## 134614	0	0.000000e+00	37
## 121180	0	5.014000e-02	68
## 118181	0	9.267481e-01	47
## 140933	0	1.374056e-02	59
## 35710	0	1.778309e-01	56
## 10161	0	6.310738e-01	38
## 129575	0	5.681404e-01	36
## 21712	0	6.751785e-01	75
## 5746	0	4.235398e-02	56
## 16093	0	3.479502e-03	55
## 38926	0	9.999999e-01	25
## 45994	0	1.604846e-01	57
## 131631	0	4.695305e-02	25
## 137104	0	4.281429e-02	29
## 50364	0	7.530444e-02	56
## 115340	0	2.928760e-01	35
## 143443	0	3.252947e-03	46
## 138833	0	9.999999e-01	41
## 64381	0	0.000000e+00	55
## 140154	0	1.542951e-01	67
## 33686	0	2.637841e-02	30
## 145708	0	8.053227e-01	48
## 67628	0	3.790284e-02	49
## 82603	0	6.972704e-02	50
## 30831	0	6.738180e-01	35
## 66307	0	5.159019e-02	72
## 70932	0	1.687240e-01	32
## 40564	0	7.045908e-01	36
## 94371	0	4.151795e-01	47
## 109720	0	4.557746e-03	34
## 111309	0	4.316564e-02	69
## 71414	0	1.184291e-02	63
## 48068	0	2.091368e-01	55

## 95309	0	7.990627e-02	63
## 75926	0	5.521068e-01	44
## 136923	0	2.784032e-01	67
## 95168	0	2.474794e-02	30
## 77610	0	1.319358e-01	64
## 84088	0	1.737913e-01	40
## 100607	0	3.703520e-01	46
## 41171	0	1.837124e-01	51
## 36633	0	0.000000e+00	59
## 106610	0	9.999999e-01	29
## 132594	0	9.504692e-01	34
## 85428	0	1.174721e-01	63
## 51925	0	2.491735e-02	34
## 27563	0	1.243223e-02	89
## 22905	0	3.619061e-02	65
## 14718	0	1.537855e-01	57
## 121471	0	1.706569e-01	49
## 148314	0	3.636636e-01	73
## 89793	0	1.717888e-02	44
## 143929	0	1.777008e-01	64
## 73944	0	1.776115e-02	55
## 62304	0	4.530573e-01	51
## 5070	0	2.987450e-01	27
## 104396	0	0.000000e+00	28
## 20987	0	0.000000e+00	80
## 136350	0	0.000000e+00	62
## 131252	0	1.795127e-01	64
## 129509	0	4.527203e-02	37
## 50322	0	7.430256e-01	64
## 90021	0	8.600700e-01	69
## 16189	0	4.367458e-01	66
## 99090	0	2.398798e-02	57
## 106038	0	2.971247e-01	67
## 146511	0	1.125303e-02	44
## 102453	0	0.000000e+00	43
## 1973	0	4.561957e-01	65
## 74573	0	6.218900e-02	62
## 107452	0	1.575336e-02	72
## 99904	0	1.814234e-01	60
## 21249	0	4.120713e-03	44
## 20367	0	6.538496e-01	31
## 77914	0	8.067722e-01	42
## 16607	0	1.160697e-03	79
## 106708	0	1.895963e-01	68
## 59208	0	7.694881e-03	69
## 124568	0	2.681412e-02	24
## 129501	0	1.481188e-01	36
## 23524	0	2.027299e-01	44
## 74397	0	3.652171e-01	53
## 65394	0	8.403073e-02	73
## 96203	0	9.408017e-01	28
## 65902	0	1.785643e-03	40
## 6390	0	5.725511e-01	87
## 144746	0	8.185521e-01	40

## 74943	0	6.223620e-02	35
## 106227	0	5.107176e-02	68
## 5713	0	5.291814e-01	58
## 46624	0	1.796472e-02	43
## 75167	0	4.820268e-01	49
## 96998	0	5.342156e-01	57
## 63305	0	1.047894e-02	45
## 42954	0	3.406124e-01	34
## 136230	0	5.251579e-02	82
## 58544	0	1.569177e-02	63
## 148734	0	4.173506e-02	45
## 98204	0	9.787053e-01	44
## 61913	0	2.242353e-01	55
## 132631	0	7.378878e-02	70
## 31994	0	8.264474e-01	54
## 72239	0	2.295402e-03	67
## 79656	0	5.563091e-02	44
## 89786	0	3.173211e-03	64
## 126981	0	7.490267e-01	73
## 133368	0	1.456819e-01	59
## 107201	0	5.323877e-01	47
## 8517	0	7.954358e-01	69
## 6714	0	9.999999e-01	26
## 18362	0	2.105263e-01	27
## 56355	0	0.000000e+00	52
## 64944	0	3.982375e-01	52
## 58519	0	9.726831e-03	64
## 90649	0	7.524882e-02	46
## 129184	0	3.205364e-02	53
## 44979	0	9.999999e-01	80
## 91608	0	1.499964e-02	78
## 9118	0	3.261447e-02	71
## 59282	0	1.786198e-01	50
## 10823	0	1.453709e-01	53
## 38432	0	6.669495e-02	43
## 143407	0	4.395317e-02	37
## 43686	0	1.794347e-02	63
## 34794	0	2.499634e-01	56
## 102854	0	1.723645e-02	30
## 123267	0	9.999999e-01	62
## 52868	0	6.219792e-01	57
## 31201	0	9.999999e-01	66
## 100908	0	8.961982e-03	44
## 64717	0	0.000000e+00	72
## 129130	0	1.706709e-02	74
## 110360	0	3.764175e-02	73
## 106916	0	2.932443e-01	68
## 57739	0	9.726831e-02	40
## 65723	0	7.958408e-01	26
## 21185	0	2.574186e-01	64
## 97641	0	5.401886e-03	71
## 90673	0	2.073139e-01	46
## 95610	0	6.526695e-01	62
## 138961	0	3.564735e-02	61

## 12214	0	0.000000e+00	51
## 51843	0	0.000000e+00	29
## 104481	0	1.944875e-01	59
## 11669	0	4.631590e-02	69
## 66657	0	6.776901e-01	64
## 136101	0	5.534568e-01	47
## 123487	0	5.733280e-01	49
## 54138	0	0.000000e+00	58
## 96586	0	0.000000e+00	34
## 35105	0	1.339933e-01	32
## 56187	0	5.764457e-02	48
## 140419	0	7.232027e-01	30
## 112585	0	7.834913e-02	64
## 34732	0	5.810419e-01	39
## 114582	0	2.322768e-02	48
## 71321	0	4.226907e-02	80
## 133887	0	1.729827e-02	67
## 81587	0	2.015791e-02	51
## 125886	0	9.198160e-02	29
## 90941	0	4.007503e-01	37
## 58059	0	6.138975e-02	52
## 101359	0	4.613436e-02	64
## 73344	0	1.596043e-02	39
## 88987	0	2.881163e-01	26
## 54036	0	1.974130e-02	80
## 58444	0	1.500357e-01	61
## 12144	0	2.525718e-01	58
## 53308	0	9.999999e-01	35
## 84993	0	3.658868e-01	36
## 131330	0	2.693138e-02	65
## 41633	0	2.785837e-02	60
## 43426	0	2.979570e-01	45
## 85347	0	4.893197e-01	35
## 64228	0	0.000000e+00	51
## 38399	0	2.427572e-01	24
## 133348	0	8.955403e-01	49
## 78514	0	1.819050e-02	82
## 148613	0	2.471387e-01	50
## 75665	0	2.889184e-01	58
## 118329	0	1.917850e-02	38
## 125279	0	2.284390e-01	56
## 93640	0	8.659670e-03	74
## 96173	0	9.999999e-01	40
## 99230	0	2.698486e-02	81
## 31961	0	4.204434e-01	49
## 94096	0	9.999999e-01	43
## 96420	0	1.116729e-01	46
## 19528	0	4.912287e-02	48
## 5887	0	6.159031e-02	31
## 6989	0	1.102168e-01	51
## 138890	0	4.156462e-01	36
## 50623	0	3.375807e-01	41
## 22891	0	0.000000e+00	79
## 86353	0	1.563251e-01	57

## 8603	0	1.647378e-01	39
## 78352	0	1.305963e-01	69
## 111083	0	1.817146e-01	38
## 88467	0	0.000000e+00	39
## 141372	0	9.464308e-01	46
## 107906	0	9.932023e-03	31
## 118491	0	5.094981e-01	28
## 108311	0	6.508906e-01	38
## 95191	0	9.538077e-01	32
## 36783	0	9.422319e-02	61
## 71645	0	4.622366e-01	44
## 83452	0	1.874928e-01	34
## 133859	0	9.295021e-01	48
## 109260	0	1.961503e-01	40
## 111303	0	0.000000e+00	37
## 3162	0	1.591235e-02	47
## 114375	0	6.054129e-02	48
## 25649	0	9.999999e-01	47
## 21181	0	2.580880e-02	23
## 70799	0	6.212168e-01	59
## 28562	0	9.167708e-01	30
## 83935	0	5.180666e-01	63
## 19045	0	3.484037e-01	43
## 126435	0	0.000000e+00	55
## 141629	0	5.279854e-02	64
## 126879	0	8.822355e-01	35
## 78398	0	5.195467e-01	52
## 141656	0	3.806835e-01	30
## 9079	0	4.075497e-02	70
## 138731	0	2.044695e-02	75
## 44774	0	1.033138e+00	28
## 53053	0	4.343242e-01	38
## 3212	0	1.128766e-01	31
## 135753	0	0.000000e+00	45
## 37405	0	7.888277e-02	52
## 125247	0	2.328530e-02	79
## 55771	0	9.999999e-01	28
## 135658	0	0.000000e+00	71
## 48567	0	3.430476e-02	66
## 103986	0	4.645176e-03	47
## 128842	0	0.000000e+00	26
## 127376	0	1.264582e-01	70
## 36348	0	4.255830e-02	86
## 142925	0	9.780220e-01	39
## 71233	0	4.655217e-01	29
## 10420	0	1.954951e-02	73
## 10358	0	8.056627e-02	52
## 40470	0	1.247290e-02	48
## 85323	0	3.749134e-01	67
## 56001	0	7.077428e-01	40
## 67011	0	5.034190e-02	75
## 137879	0	3.939210e-02	58
## 37048	0	2.396304e-01	65
## 68539	0	2.863462e-02	63

## 148057	0	5.461700e-02	60
## 123520	0	9.430986e-01	66
## 31364	0	6.681299e-01	74
## 10593	0	3.106689e-01	69
## 58557	0	2.477790e-02	53
## 10143	0	7.520620e-01	36
## 30207	0	8.600933e-01	30
## 99823	0	1.141993e-01	55
## 107125	0	9.716028e-01	40
## 59572	0	1.464386e-02	46
## 148008	0	0.000000e+00	61
## 30694	0	2.590205e-02	55
## 31352	0	1.038147e+00	60
## 97946	0	9.483368e-01	49
## 99371	0	2.606916e-02	49
## 139759	0	1.304798e-02	61
## 86179	0	6.241607e-02	61
## 25443	0	1.886721e-03	36
## 16245	0	0.000000e+00	38
## 115931	0	7.289853e-02	40
## 129572	0	1.337965e-01	49
## 106868	0	6.206703e-01	45
## 87793	0	3.574319e-01	65
## 142532	0	2.613289e-01	41
## 58864	0	1.445529e-01	66
## 85562	0	9.238038e-01	72
## 81301	0	6.429707e-02	62
## 96811	0	9.999999e-01	25
## 82853	0	8.958631e-01	51
## 112543	0	6.798640e-02	80
## 63621	0	8.844116e-01	30
## 114931	0	9.241853e-02	62
## 147181	0	1.056453e-01	45
## 141839	0	2.083899e-02	62
## 112832	0	2.729615e-01	51
## 20481	0	1.789083e-01	51
## 131234	0	3.413174e-01	32
## 26734	0	2.083461e-01	77
## 67711	0	8.751650e-01	40
## 58620	0	7.132239e-01	59
## 101402	0	2.428150e-02	45
## 142852	0	2.293175e-01	51
## 26873	0	4.416512e-01	61
## 70209	0	9.270699e-02	51
## 96744	0	4.892069e-02	42
## 63785	0	4.611767e-02	26
## 58893	0	0.000000e+00	83
## 55210	0	1.517062e-02	76
## 133647	0	9.999999e-01	38
## 21739	0	8.114788e-01	43
## 45337	0	1.448347e-01	25
## 6196	0	4.586049e-03	51
## 111939	0	2.189075e-01	58
## 92206	0	0.000000e+00	54

## 73587	0	3.187458e-01	67
## 127253	0	9.999999e-01	34
## 36460	0	2.888109e-03	50
## 93359	0	1.032367e+00	44
## 98820	0	5.335331e-02	65
## 102300	0	1.098781e-01	57
## 98684	0	8.673755e-02	40
## 92804	0	2.489043e-01	62
## 46274	0	6.241389e-02	25
## 1211	0	0.000000e+00	53
## 62353	0	7.074416e-03	30
## 58201	0	2.991811e-02	86
## 128050	0	8.528808e-02	49
## 122815	0	7.050174e-01	45
## 102319	0	1.493148e-02	80
## 56005	0	7.221344e-01	57
## 35598	0	1.996672e-02	39
## 68677	0	1.329179e-01	39
## 91171	0	5.036140e-02	79
## 108953	0	3.514269e-02	78
## 74974	0	2.177587e-01	57
## 84106	0	7.642150e-04	72
## 124168	0	8.495421e-02	54
## 26581	0	5.683893e-02	63
## 65721	0	9.785116e-02	43
## 129942	0	5.257437e-01	39
## 68617	0	8.667373e-01	58
## 9066	0	4.762610e-02	31
## 116446	0	9.896503e-01	40
## 115129	0	6.270363e-03	52
## 109928	0	0.000000e+00	23
## 14932	0	6.648875e-01	45
## 83446	0	9.999999e-01	50
## 140925	0	3.756314e-01	28
## 79592	0	1.233406e-02	85
## 24485	0	1.966658e-01	36
## 148757	0	2.787155e-01	46
## 132692	0	2.505588e-02	67
## 116427	0	1.706654e-01	38
## 103279	0	8.516632e-01	44
## 77943	0	5.908184e-01	22
## 81526	0	6.138772e-02	63
## 117642	0	5.073930e-02	41
## 18754	0	3.978271e-02	41
## 118053	0	6.672129e-02	64
## 22545	0	5.663614e-01	34
## 98452	0	2.032193e-03	61
## 140308	0	7.835833e-01	43
## 94039	0	9.120050e-01	45
## 45179	0	5.172921e-03	48
## 100040	0	7.789042e-02	39
## 35730	0	2.472305e-02	54
## 51515	0	7.584008e-03	34
## 12327	0	9.792878e-03	87

## 113889	0	9.999999e-01	38
## 86119	0	1.097260e-01	66
## 74249	0	0.000000e+00	23
## 144455	0	3.625715e-01	50
## 94190	0	0.000000e+00	36
## 83719	0	3.573556e-01	37
## 47187	0	1.645716e-02	32
## 36706	0	5.141486e-01	50
## 69637	0	5.454454e-02	42
## 115320	0	3.215330e-04	37
## 102595	0	2.632716e-01	69
## 72787	0	1.514566e-01	37
## 130783	0	3.334177e-02	65
## 19847	0	9.031371e-01	40
## 22822	0	8.329213e-01	55
## 50418	0	1.201209e-02	72
## 55720	0	1.983904e-02	35
## 96895	0	1.080372e-01	44
## 104598	0	4.902317e-01	37
## 121789	0	1.095572e-02	75
## 116606	0	1.841923e-02	75
## 59426	0	9.440572e-03	65
## 37715	0	3.781732e-02	59
## 26766	0	5.321256e-01	30
## 19005	0	9.999999e-01	79
## 3670	0	1.129353e+00	57
## 78694	0	3.015527e-01	41
## 135318	0	8.006399e-01	43
## 28485	0	4.880947e-02	43
## 68162	0	3.120657e-01	47
## 87580	0	0.000000e+00	81
## 118479	0	2.958873e-01	41
## 70950	0	0.000000e+00	74
## 25137	0	1.064473e-01	45
## 10908	0	9.322411e-01	58
## 108488	0	2.261712e-03	80
## 17977	0	8.678637e-01	58
## 32200	0	2.044084e-02	72
## 86831	0	9.612467e-01	65
## 49039	0	0.000000e+00	29
## 27079	0	3.329609e-02	48
## 93554	0	6.761080e-01	33
## 139702	0	6.992646e-01	51
## 68344	0	2.737726e-01	42
## 99940	0	5.698286e-02	71
## 90593	0	6.408613e-03	27
## 89313	0	6.059611e-03	64
## 110773	0	1.999960e-04	54
## 32641	0	2.949946e-01	41
## 35158	0	1.762957e-02	67
## 39501	0	1.002281e-01	72
## 133601	0	9.999999e-01	22
## 88164	0	4.053266e-02	39
## 148330	0	6.352194e-02	72

## 17529	0	8.381079e-01	28
## 51482	0	2.447773e-01	61
## 67603	0	3.797130e-02	71
## 132157	0	5.011739e-01	49
## 121868	0	1.953222e-01	76
## 93759	0	6.758648e-01	73
## 81835	0	4.416251e-03	84
## 136877	0	2.734142e-01	37
## 15304	0	5.603187e-02	33
## 32642	0	9.427290e-04	52
## 94287	0	4.447037e-01	48
## 140165	0	4.315773e-01	51
## 81584	0	1.009996e+00	31
## 19967	0	5.141381e-01	55
## 115944	0	9.275566e-01	26
## 89832	0	2.115021e-01	41
## 7556	0	7.223481e-01	43
## 47606	0	1.523283e-02	49
## 120331	0	3.356811e-01	39
## 120400	0	5.313112e-01	45
## 145663	0	5.838416e-01	47
## 64652	0	2.933433e-01	54
## 138939	0	6.049838e-03	87
## 104230	0	1.356362e-01	47
## 16594	0	1.476672e-01	47
## 18569	0	9.879566e-01	56
## 50746	0	3.882250e-01	49
## 62055	0	8.429672e-02	33
## 54787	0	1.289832e-01	49
## 69721	0	9.999999e-01	60
## 122007	0	6.311221e-02	49
## 18071	0	2.940568e-02	83
## 62309	0	1.876634e-02	33
## 29767	0	0.000000e+00	73
## 124112	0	0.000000e+00	57
## 64290	0	7.414552e-01	46
## 78313	0	1.606539e-01	33
## 144079	0	4.861125e-02	66
## 42630	0	9.999999e-01	29
## 100105	0	0.000000e+00	61
## 135280	0	8.524858e-02	67
## 126610	0	2.788401e-02	54
## 27973	0	7.839111e-02	31
## 82679	0	2.618527e-01	63
## 117945	0	8.628438e-02	72
## 81330	0	2.652017e-01	33
## 82899	0	9.999999e-01	30
## 77439	0	0.000000e+00	40
## 109225	0	4.141884e-01	31
## 8247	0	1.286767e-01	35
## 33842	0	9.055881e-03	65
## 33959	0	1.121591e-02	87
## 109582	0	6.047555e-01	87
## 53919	0	6.098071e-01	60

## 39689	0	4.373217e-03	67
## 105607	0	3.795238e-02	42
## 76951	0	3.486614e-02	51
## 39082	0	3.261487e-02	38
## 79711	0	9.976601e-01	58
## 132687	0	5.065946e-01	50
## 10971	0	7.355071e-02	41
## 60709	0	1.352388e-03	56
## 104987	0	9.463480e-01	38
## 81696	0	3.630277e-02	34
## 10371	0	7.667163e-02	64
## 26531	0	3.930243e-02	59
## 125452	0	7.426361e-03	55
## 65777	0	9.999999e-01	26
## 79956	0	2.712754e-02	41
## 129567	0	1.432285e-01	52
## 77740	0	7.957534e-02	37
## 26651	0	7.499250e-01	45
## 12000	0	3.983218e-02	59
## 77558	0	6.665930e-04	31
## 10711	0	7.333544e-01	35
## 10421	0	1.739229e-01	43
## 4261	0	0.000000e+00	41
## 62004	0	1.655834e-02	63
## 101826	0	9.329558e-03	41
## 36335	0	5.442656e-02	47
## 70313	0	2.679591e-02	43
## 46010	0	4.807097e-01	68
## 71962	0	8.972814e-03	54
## 60345	0	1.803525e-01	65
## 82753	0	1.808788e-01	60
## 100729	0	9.999999e-01	51
## 112472	0	9.593946e-02	59
## 20107	0	7.613167e-02	48
## 62062	0	7.031678e-01	65
## 20981	0	1.200297e-01	33
## 43521	0	1.949736e-01	51
## 115456	0	6.231299e-01	68
## 122154	0	1.158964e-01	42
## 124082	0	9.452642e-01	46
## 26983	0	0.000000e+00	29
## 26046	0	6.511330e-04	35
## 52737	0	5.845848e-03	55
## 54396	0	2.036314e-03	45
## 99387	0	1.944946e-01	47
## 6377	0	6.104524e-01	32
## 44133	0	4.744479e-02	69
## 16794	0	1.014416e-01	60
## 26300	0	3.259608e-01	44
## 119014	0	0.000000e+00	23
## 98659	0	1.448989e-01	53
## 117301	0	4.252328e-01	44
## 146279	0	3.018621e-02	52
## 114287	0	4.102623e-02	32

## 122044	0	5.287160e-04	75
## 97198	0	3.374171e-02	55
## 37462	0	8.908675e-01	48
## 91564	0	7.399260e-02	40
## 75583	0	1.762832e-02	38
## 125606	0	0.000000e+00	66
## 73438	0	2.691043e-02	63
## 11129	0	3.778310e-02	50
## 461	0	9.228762e-02	61
## 117064	0	9.975375e-02	57
## 44583	0	3.848729e-02	24
## 140979	0	1.350986e-02	37
## 44784	0	5.721374e-02	46
## 18312	0	3.430439e-01	69
## 71832	0	1.371780e+00	31
## 56775	0	8.151330e-01	66
## 34169	0	2.575559e-02	49
## 329	0	2.842362e-01	45
## 134669	0	9.999999e-01	51
## 122965	0	1.072532e-01	43
## 74071	0	9.003951e-01	51
## 130677	0	3.580636e-01	54
## 49430	0	2.429913e-01	44
## 147522	0	9.602104e-03	81
## 27254	0	2.068912e-01	42
## 129066	0	5.713544e-03	37
## 3232	0	2.551276e-01	33
## 67205	0	9.448197e-01	60
## 76027	0	8.217604e-01	60
## 109176	0	6.563415e-01	56
## 111302	0	4.180591e-03	39
## 101854	0	1.069530e+00	47
## 132285	0	2.004506e-01	57
## 41312	0	8.347584e-03	65
## 149148	0	9.999999e-01	52
## 48477	0	0.000000e+00	38
## 36278	0	1.235886e-03	82
## 76404	0	9.999999e-01	34
## 27927	0	2.046842e-02	56
## 140969	0	7.133185e-02	53
## 135625	0	1.006340e+00	42
## 61197	0	4.105081e-01	29
## 35455	0	1.245169e-01	54
## 54576	0	1.566265e-01	45
## 33554	0	1.838168e-03	53
## 112698	0	6.391219e-01	58
## 48675	0	2.427757e-01	76
## 17438	0	2.873366e-02	79
## 24174	0	9.702900e-01	69
## 59892	0	1.015367e+00	67
## 145824	0	1.798753e-01	36
## 101931	0	2.112860e-02	67
## 26259	0	2.932942e-03	52
## 83051	0	4.393876e-03	63

## 140578	0	7.281396e-02	69
## 126413	0	9.924804e-02	52
## 135468	0	7.221219e-02	65
## 11661	0	1.034057e-01	38
## 116595	0	1.226396e-01	38
## 75932	0	0.000000e+00	59
## 102539	0	5.993375e-02	53
## 136649	0	1.351685e-01	72
## 35661	0	1.170433e-01	36
## 89982	0	3.805523e-01	34
## 55738	0	5.828343e-01	24
## 82445	0	5.071170e-02	74
## 13899	0	5.133010e-01	67
## 16826	0	4.934330e-01	58
## 59907	0	6.003480e-01	79
## 72997	0	0.000000e+00	34
## 8771	0	3.539097e-01	39
## 46855	0	8.225585e-02	36
## 63113	0	8.740093e-01	46
## 92538	0	6.452857e-02	66
## 81451	0	7.324294e-02	42
## 10441	0	4.999868e-02	69
## 119163	0	3.639564e-01	50
## 22518	0	4.666958e-01	32
## 90117	0	2.179828e-01	59
## 58873	0	4.179960e-02	49
## 87072	0	9.930769e-02	75
## 105549	0	1.024637e-01	77
## 85655	0	0.000000e+00	34
## 142523	0	4.671183e-01	78
## 66457	0	1.006915e-01	58
## 122565	0	1.412011e-02	55
## 53477	0	8.351586e-02	53
## 5184	0	2.279271e-02	40
## 63062	0	4.533082e-02	60
## 26887	0	9.258590e-01	41
## 21105	0	3.617999e-01	30
## 71390	0	2.699365e-01	40
## 37901	0	6.460639e-03	93
## 132897	0	6.661052e-01	46
## 101170	0	2.274538e-01	26
## 35135	0	8.884424e-01	52
## 149699	0	5.746994e-03	59
## 28963	0	9.999999e-01	70
## 111179	0	9.558407e-01	48
## 23838	0	3.938142e-01	35
## 4012	0	6.152230e-01	58
## 74676	0	8.097962e-02	76
## 47633	0	1.994346e-01	79
## 54668	0	6.104847e-02	52
## 48348	0	9.580000e+02	40
## 80634	0	8.476347e-02	31
## 48619	0	6.631671e-01	30
## 109430	0	5.776825e-01	50

## 3436	0	6.253409e-02	28
## 97578	0	0.000000e+00	39
## 134220	0	3.167873e-01	30
## 71870	0	4.838662e-01	45
## 16054	0	1.695463e-01	51
## 83578	0	1.699989e-01	53
## 101394	0	1.087324e-02	71
## 96610	0	6.885290e-01	48
## 87217	0	2.366612e-01	53
## 104433	0	2.769089e-03	70
## 18155	0	3.740056e-01	52
## 69850	0	1.520606e-02	75
## 125902	0	1.337918e-02	45
## 113278	0	2.725233e-01	55
## 59273	0	2.903816e-01	46
## 16320	0	9.117217e-01	44
## 134329	0	6.605043e-02	47
## 53322	0	1.172998e-02	64
## 143953	0	9.999999e-01	61
## 44443	0	9.999999e-01	60
## 3498	0	7.260127e-01	48
## 8356	0	2.725662e-01	56
## 84142	0	1.618279e-01	29
## 7294	0	9.746700e-01	51
## 57771	0	7.105789e-01	59
## 40039	0	2.514685e-01	79
## 89025	0	7.425174e-01	58
## 102495	0	6.084927e-01	45
## 59231	0	4.182107e-02	52
## 135139	0	2.179877e-02	84
## 691	0	8.342668e-02	64
## 109108	0	6.559884e-01	39
## 139976	0	1.016281e+00	43
## 55797	0	1.888665e-02	42
## 7287	0	0.000000e+00	50
## 104691	0	2.536581e-01	61
## 101401	0	9.999999e-01	53
## 105448	0	9.999999e-01	26
## 120903	0	3.691834e-02	72
## 43772	0	2.787122e-01	60
## 80784	0	9.999999e-01	26
## 39390	0	1.269968e-02	63
## 45888	0	8.770176e-01	29
## 33859	0	1.186201e-01	56
## 124513	0	5.119302e-02	63
## 59903	0	7.389835e-01	59
## 126731	0	2.943336e-02	47
## 76841	0	5.860073e-01	48
## 94462	0	9.999999e-01	30
## 66020	0	1.193808e-01	50
## 136459	0	9.000769e-01	43
## 74211	0	2.823397e-01	47
## 47995	0	9.999999e-01	33
## 126549	0	0.000000e+00	63

## 98140	0	7.731753e-01	27
## 39404	0	3.340053e-01	32
## 116829	0	6.912461e-02	66
## 78839	0	4.060797e-01	49
## 148343	0	7.970277e-01	50
## 97278	0	9.999999e-01	46
## 3497	0	4.456180e-02	59
## 40275	0	3.310705e-01	55
## 86779	0	0.000000e+00	49
## 8013	0	3.014939e-01	53
## 84086	0	9.999999e-01	39
## 137165	0	2.067192e-01	61
## 30380	0	1.882168e-02	60
## 97133	0	8.040747e-01	50
## 87133	0	8.883005e-02	33
## 135175	0	2.285641e-01	36
## 104594	0	6.666444e-03	86
## 126233	0	1.791133e-02	56
## 74502	0	4.986990e-02	76
## 79170	0	0.000000e+00	46
## 30475	0	5.399841e-02	41
## 142537	0	1.752653e-01	29
## 66501	0	2.167913e-02	50
## 122642	0	3.107531e-02	54
## 47529	0	2.814763e-03	77
## 79502	0	5.174246e-01	47
## 46281	0	2.327486e-03	67
## 46373	0	1.324442e-01	61
## 33487	0	3.194920e-02	75
## 83600	0	9.300685e-02	62
## 38852	0	5.104979e-01	35
## 66744	0	9.999999e-01	53
## 22613	0	5.987649e-01	47
## 61505	0	3.049153e-01	35
## 99488	0	2.688420e-01	61
## 104663	0	4.081968e-01	50
## 40201	0	4.968387e-02	47
## 5852	0	1.935421e-03	86
## 64496	0	4.056050e-01	69
## 24048	0	2.435026e-01	38
## 145850	0	1.102729e-03	73
## 55953	0	1.618581e-01	52
## 69200	0	0.000000e+00	62
## 95933	0	2.167832e-01	67
## 111685	0	0.000000e+00	35
## 141259	0	1.018994e+00	62
## 28758	0	2.715455e-01	63
## 105408	0	2.470070e-02	40
## 40964	0	5.999538e-02	62
## 99734	0	7.622534e-02	44
## 90279	0	9.813721e-01	37
## 66543	0	7.224684e-02	62
## 46292	0	1.225958e-01	39
## 78667	0	4.655297e-02	55

## 112408	0	3.331178e-02	49
## 97138	0	9.999999e-01	41
## 117594	0	3.696605e-02	46
## 102746	0	3.693310e-01	56
## 97991	0	9.999999e-01	25
## 129141	0	2.130525e-02	62
## 114932	0	2.931165e-02	56
## 24444	0	6.075738e-02	84
## 56533	0	6.563263e-01	27
## 130391	0	8.123201e-02	83
## 47158	0	1.088446e-01	61
## 123114	0	6.688328e-01	49
## 9409	0	2.381392e-01	40
## 39659	0	0.000000e+00	36
## 13872	0	4.155639e-03	75
## 137331	0	9.317114e-02	54
## 131287	0	8.952507e-02	64
## 5545	0	4.668237e-01	42
## 88757	0	3.113899e-03	42
## 134187	0	0.000000e+00	47
## 11708	0	5.137945e-01	40
## 15191	0	1.565491e-01	76
## 86030	0	7.693077e-01	27
## 127164	0	1.876008e-01	88
## 140441	0	4.469548e-01	51
## 40618	0	9.999999e-01	52
## 10066	0	5.816866e-01	62
## 112846	0	1.363633e-01	55
## 117575	0	7.199467e-02	55
## 132438	0	9.999999e-01	81
## 62832	0	9.467370e-01	30
## 132753	0	1.240242e-01	41
## 75336	0	5.234832e-01	40
## 100649	0	4.331644e-02	44
## 22523	0	9.034942e-01	34
## 135359	0	2.328996e-02	40
## 55777	0	2.513612e-02	38
## 95984	0	4.254185e-01	48
## 124213	0	5.171909e-01	52
## 85983	0	6.817617e-01	44
## 50303	0	4.444320e-04	65
## 56045	0	1.826785e-02	60
## 60619	0	9.894159e-01	25
## 147227	0	9.897172e-01	24
## 30503	0	3.609668e-02	79
## 143020	0	1.061176e+00	61
## 120720	0	3.374706e-01	52
## 62848	0	2.136016e-01	61
## 130312	0	2.382750e-01	41
## 47930	0	2.816080e-01	28
## 98226	0	0.000000e+00	87
## 2256	0	6.946843e-01	62
## 22517	0	2.244171e-02	69
## 103788	0	1.509240e-01	58

## 130763	0	5.662305e-01	35
## 1087	0	8.663445e-01	34
## 35351	0	6.665128e-02	50
## 48046	0	6.428110e-04	60
## 81276	0	8.539369e-03	81
## 115010	0	9.769756e-02	54
## 108160	0	7.036837e-02	41
## 112302	0	3.984679e-03	51
## 81168	0	5.396654e-02	46
## 44465	0	0.000000e+00	51
## 4062	0	4.782832e-02	64
## 133756	0	5.420781e-01	41
## 119612	0	0.000000e+00	30
## 89172	0	1.968670e-02	68
## 133678	0	2.107578e-01	75
## 63994	0	5.984268e-03	51
## 59551	0	1.793259e-03	57
## 6608	0	1.292433e-02	43
## 138868	0	1.143109e-01	75
## 77027	0	5.445879e-01	66
## 56010	0	1.091297e-01	57
## 38854	0	8.318779e-01	38
## 67098	0	9.502443e-01	36
## 1084	0	9.999999e-01	43
## 30713	0	5.063233e-02	68
## 50796	0	3.206914e-02	56
## 121850	0	9.999999e-01	52
## 32571	0	7.151806e-01	31
## 19196	0	5.161399e-01	52
## 37495	0	4.241664e-02	64
## 62027	0	9.999999e-01	24
## 105008	0	7.449628e-01	40
## 28940	0	3.940382e-02	59
## 127877	0	6.653746e-01	63
## 60218	0	1.238948e-01	65
## 139427	0	3.436196e-02	49
## 6888	0	3.972787e-01	67
## 83308	0	0.000000e+00	33
## 143118	0	5.852942e-02	63
## 63957	0	6.234634e-02	29
## 63363	0	6.597290e-01	62
## 97203	0	2.278387e-02	62
## 149826	0	3.355431e-01	43
## 401	0	1.341915e-01	63
## 112362	0	5.844650e-03	80
## 71156	0	1.342605e-01	70
## 35327	0	0.000000e+00	28
## 59961	0	4.374790e-02	43
## 121795	0	0.000000e+00	64
## 133664	0	2.617829e-02	49
## 146016	0	9.999999e-01	30
## 123449	0	7.468949e-01	45
## 139085	0	6.026795e-01	44
## 133934	0	9.999999e-01	47

## 41782	0	3.158947e-02	35
## 35089	0	2.350724e-01	62
## 40281	0	9.788377e-03	80
## 65531	0	8.775374e-01	54
## 102275	0	9.490735e-01	40
## 68212	0	7.655362e-01	56
## 83080	0	1.314604e-02	73
## 78107	0	1.704657e-02	85
## 23903	0	2.382586e-01	51
## 67	0	7.508737e-01	55
## 82600	0	3.968931e-02	47
## 54199	0	2.953459e-01	59
## 120465	0	7.593169e-01	54
## 62973	0	1.811623e-02	43
## 66710	0	2.816591e-02	70
## 43557	0	6.733779e-01	34
## 141722	0	1.109663e-03	58
## 117025	0	4.613999e-01	31
## 88533	0	9.207761e-01	64
## 116973	0	6.585383e-02	48
## 118367	0	2.532554e-02	74
## 130293	0	1.312870e-01	58
## 128346	0	0.000000e+00	46
## 48837	0	3.819270e-01	50
## 115962	0	9.999999e-01	80
## 134741	0	9.761800e-01	57
## 83877	0	4.824879e-03	67
## 56731	0	6.086525e-02	36
## 83662	0	2.686567e-01	31
## 54305	0	1.096428e-01	37
## 76568	0	1.094565e-02	30
## 108816	0	2.801823e-03	59
## 92641	0	7.637828e-02	73
## 101693	0	4.067115e-01	49
## 94901	0	6.943850e-02	51
## 119986	0	1.142820e-04	48
## 147026	0	4.506291e-01	29
## 64596	0	2.133270e-01	71
## 99868	0	1.216060e-01	31
## 2074	0	3.775889e-01	34
## 62604	0	7.220192e-02	47
## 116383	0	0.000000e+00	69
## 19701	0	0.000000e+00	40
## 91221	0	0.000000e+00	55
## 143989	0	4.309046e-01	34
## 28032	0	3.179473e-02	85
## 28909	0	3.470020e-02	36
## 12598	0	3.210030e-03	49
## 55898	0	6.281228e-01	42
## 2001	0	1.194621e-02	54
## 53834	0	0.000000e+00	74
## 66400	0	1.566867e-02	60
## 147326	0	9.568949e-01	48
## 138207	0	1.305721e-02	31

## 31030	0	7.511076e-02	39
## 79799	0	9.371734e-02	56
## 138889	0	9.999999e-01	63
## 137353	0	8.570408e-01	35
## 117282	0	3.576872e-02	60
## 144781	0	8.633004e-02	32
## 38237	0	0.000000e+00	38
## 123729	0	3.880960e-02	45
## 32829	0	0.000000e+00	66
## 111146	0	3.002833e-01	42
## 144761	0	0.000000e+00	39
## 78895	0	1.235997e-01	64
## 3847	0	1.941431e-01	54
## 12770	0	3.526916e-01	59
## 21780	0	4.063885e-02	50
## 72862	0	5.972453e-01	78
## 39664	0	7.915403e-01	63
## 147648	0	5.841643e-02	44
## 49911	0	9.923089e-01	55
## 98525	0	6.552067e-03	68
## 39734	0	0.000000e+00	40
## 15293	0	0.000000e+00	54
## 92603	0	3.101138e-02	80
## 52390	0	1.558087e-01	66
## 22332	0	4.012190e-01	27
## 99790	0	8.157444e-01	39
## 28505	0	7.593157e-02	57
## 179	0	0.000000e+00	41
## 141941	0	5.353379e-02	71
## 143978	0	6.389252e-02	46
## 28162	0	1.496494e+00	48
## 36474	0	3.369465e-02	27
## 130013	0	2.741634e-02	54
## 77118	0	1.697553e-01	37
## 59253	0	7.911289e-01	48
## 105014	0	4.027818e-02	43
## 25339	0	2.547114e-01	51
## 17781	0	8.656878e-02	35
## 97303	0	9.999999e-01	43
## 51365	0	5.013023e-01	46
## 142787	0	9.999999e-01	49
## 137285	0	9.530926e-01	49
## 111844	0	8.502075e-01	31
## 52411	0	1.203671e-01	42
## 42918	0	8.922737e-01	31
## 91856	0	0.000000e+00	61
## 528	0	5.518899e-01	42
## 138086	0	4.558228e-01	26
## 39520	0	2.910522e-01	63
## 68153	0	0.000000e+00	29
## 13698	0	8.258481e-02	51
## 20529	0	9.301165e-01	44
## 100779	0	9.696550e-02	33
## 113654	0	1.242189e-01	64

## 8253	0	7.726818e-02	44
## 26905	0	7.500313e-01	38
## 7884	0	6.600128e-01	40
## 69832	0	1.526934e-01	62
## 143426	0	1.721662e-01	28
## 39870	0	1.273958e-01	80
## 90034	0	4.337170e-02	67
## 37550	0	1.101570e-01	69
## 68694	0	5.436587e-02	35
## 98548	0	5.110372e-02	81
## 109321	0	7.362967e-03	28
## 38408	0	3.476807e-01	73
## 139790	0	9.999999e-01	27
## 119542	0	1.029016e-02	83
## 5147	0	2.044398e-01	62
## 79369	0	1.741304e-01	53
## 50336	0	8.132747e-01	27
## 104719	0	2.829303e-01	36
## 85533	0	8.533730e-03	49
## 47490	0	5.042137e-02	30
## 103843	0	9.999999e-01	52
## 93772	0	5.732767e-01	51
## 74642	0	1.315658e-01	27
## 106033	0	4.302126e-02	58
## 89927	0	9.639691e-01	34
## 5542	0	6.470687e-01	61
## 32416	0	1.760474e-01	44
## 74827	0	7.437844e-01	63
## 129219	0	1.694983e-02	60
## 106621	0	1.514998e-01	72
## 100972	0	1.284566e-02	64
## 60441	0	2.854459e-02	59
## 122500	0	5.165664e-01	38
## 119705	0	8.972276e-02	42
## 34234	0	3.126239e-02	58
## 135562	0	1.738283e-01	53
## 5982	0	1.577163e-01	58
## 136711	0	2.231576e-01	63
## 107323	0	5.838761e-01	56
## 19362	0	1.088890e-01	48
## 37705	0	8.607848e-01	32
## 71538	0	2.756782e-01	66
## 92993	0	7.926689e-01	50
## 71160	0	3.139686e-02	71
## 18869	0	3.531830e-01	56
## 3133	0	5.067173e-01	68
## 21808	0	7.882113e-01	39
## 14648	0	2.016777e-01	77
## 92840	0	2.691265e-02	62
## 59874	0	5.934937e-02	57
## 120243	0	9.999999e-01	25
## 18106	0	2.588178e-02	78
## 127546	0	9.993338e-03	23
## 15626	0	8.327874e-01	23

## 34050	0	2.874223e-01	60
## 74390	0	1.467125e-03	74
## 50538	0	5.002714e-02	64
## 117336	0	1.704403e-01	74
## 142311	0	3.402339e-02	73
## 134565	0	1.732510e-03	77
## 49941	0	1.096586e+00	52
## 93258	0	6.892954e-02	34
## 90032	0	3.320607e-01	46
## 148426	0	5.723123e-02	59
## 82333	0	1.149276e-01	46
## 28138	0	1.003766e+00	59
## 65061	0	1.258307e-02	58
## 144080	0	2.336145e-01	42
## 149191	0	1.228075e-02	70
## 98535	0	4.391797e-01	41
## 8815	0	1.009388e+00	60
## 132242	0	1.482766e-01	54
## 17759	0	0.000000e+00	42
## 12579	0	4.299713e-02	37
## 89820	0	9.999999e-01	26
## 120457	0	7.918265e-02	39
## 66382	0	1.408634e-02	38
## 79768	0	8.920958e-01	56
## 11337	0	3.862016e-01	37
## 25980	0	1.001000e+00	42
## 29974	0	9.999999e-01	63
## 107425	0	9.999999e-01	25
## 81473	0	6.562138e-01	40
## 137853	0	9.999999e-01	35
## 24520	0	9.755152e-01	50
## 64880	0	9.995363e-01	43
## 19191	0	4.647398e-02	53
## 86061	0	6.284733e-01	50
## 100695	0	4.369782e-02	77
## 6897	0	1.107784e+00	37
## 107583	0	3.564308e-02	27
## 50360	0	1.029192e-01	62
## 29533	0	4.015236e-02	57
## 139697	0	3.166903e-02	49
## 11079	0	8.521369e-03	63
## 102556	0	9.299081e-01	67
## 65732	0	8.482371e-01	43
## 31684	0	1.166810e-01	26
## 57347	0	9.999999e-01	46
## 13208	0	1.501276e-02	72
## 5779	0	0.000000e+00	43
## 29109	0	1.574258e-01	79
## 1563	0	6.390820e-01	48
## 65499	0	1.726106e-01	45
## 117659	0	4.554545e-02	55
## 34426	0	4.083796e-02	48
## 146051	0	2.158892e-01	53
## 22430	0	6.302476e-01	60

## 10726	0	4.460611e-01	59
## 56035	0	4.433585e-01	66
## 66077	0	4.662356e-01	55
## 98769	0	1.793466e-01	36
## 78661	0	9.999999e-01	35
## 117193	0	7.446633e-01	51
## 140398	0	4.932511e-02	30
## 146914	0	5.957270e-01	28
## 112482	0	9.930005e-01	40
## 131414	0	0.000000e+00	32
## 121887	0	0.000000e+00	63
## 20799	0	4.008285e-01	48
## 5665	0	2.687270e-01	34
## 59073	0	1.035677e-01	68
## 26452	0	8.138904e-03	28
## 45671	0	9.999999e-01	26
## 124779	0	4.659146e-01	64
## 95152	0	9.999999e-01	38
## 96688	0	1.449186e-02	69
## 66818	0	8.901146e-02	47
## 141721	0	4.795010e-02	40
## 121338	0	1.284160e-01	47
## 87049	0	8.633789e-01	48
## 60609	0	8.287171e-01	40
## 100591	0	5.744968e-01	28
## 51411	0	2.921280e-04	30
## 83990	0	9.780381e-02	64
## 147078	0	1.318078e-02	53
## 87174	0	7.660278e-01	31
## 146716	0	9.286730e-01	46
## 21109	0	7.673035e-01	33
## 24992	0	1.194500e-02	72
## 48930	0	6.090472e-01	65
## 41425	0	0.000000e+00	69
## 102881	0	6.875725e-02	38
## 96329	0	3.554812e-01	37
## 11057	0	4.920124e-01	36
## 97429	0	2.948711e-02	66
## 36570	0	6.601152e-02	62
## 362	0	1.866828e-01	30
## 133163	0	5.536907e-02	27
## 91070	0	4.693248e-01	38
## 57997	0	4.207623e-01	67
## 95764	0	2.852877e-02	73
## 30947	0	1.546640e-01	25
## 120042	0	4.117497e-01	47
## 121871	0	2.058581e-02	52
## 114843	0	7.998522e-01	43
## 3185	0	9.575300e-01	30
## 57334	0	1.186374e-01	62
## 125911	0	4.008371e-01	34
## 83745	0	2.651026e-01	56
## 28691	0	4.423823e-02	41
## 29167	0	4.963517e-02	88

## 6359	0	5.220460e-03	56
## 83197	0	3.690794e-03	82
## 48986	0	9.700561e-01	60
## 18882	0	2.036327e-02	73
## 20695	0	3.706186e-01	24
## 101902	0	3.176679e-01	36
## 69463	0	3.702140e-02	55
## 66474	0	9.999999e-01	48
## 86937	0	1.460357e-01	70
## 75935	0	2.733796e-01	40
## 914	0	9.999999e-01	36
## 82770	0	2.087471e-01	38
## 101995	0	2.509100e-01	34
## 120144	0	7.771058e-02	27
## 36119	0	4.894342e-01	43
## 34902	0	3.003808e-01	44
## 25482	0	3.841701e-02	36
## 23006	0	9.999999e-01	23
## 22007	0	5.785082e-02	77
## 25974	0	8.012375e-02	64
## 110690	0	8.318614e-01	30
## 95261	0	2.943882e-02	50
## 20038	0	8.097000e-04	58
## 71654	0	3.754231e-01	55
## 39862	0	9.796020e-01	35
## 26827	0	6.287646e-01	61
## 145316	0	2.452910e-01	42
## 121726	0	5.835711e-02	45
## 149792	0	9.999999e-01	32
## 50272	0	2.332876e-01	47
## 66450	0	3.657391e-01	56
## 3979	0	8.299726e-02	45
## 130912	0	9.627254e-02	35
## 144934	0	9.180546e-01	30
## 45454	0	9.415775e-01	63
## 77136	0	9.592237e-03	26
## 97111	0	1.215151e-01	59
## 73136	0	1.816384e-01	36
## 54351	0	9.999999e-01	62
## 140700	0	8.861658e-01	50
## 3773	0	2.510460e-02	73
## 87222	0	3.826500e-01	45
## 30920	0	4.051293e-01	27
## 109295	0	8.946548e-01	34
## 99890	0	1.002665e+00	25
## 64868	0	2.835921e-02	69
## 139869	0	1.042758e-01	46
## 90244	0	2.797699e-01	67
## 47414	0	9.999999e-01	27
## 123146	0	2.239523e-01	40
## 32492	0	1.277445e-01	59
## 123568	0	4.459703e-02	34
## 131005	0	3.284725e-02	63
## 44595	0	8.921242e-01	29

## 126169	0	1.443610e-01	33
## 88977	0	7.408754e-03	45
## 127410	0	3.308396e-01	46
## 136279	0	3.721310e-01	32
## 48668	0	2.307090e-01	35
## 11318	0	3.282637e-01	54
## 113286	0	4.955445e-03	74
## 36192	0	7.013759e-01	43
## 141082	0	0.000000e+00	33
## 29930	0	6.561675e-01	63
## 84916	0	3.962118e-02	89
## 475	0	1.008833e-01	52
## 71318	0	7.070878e-01	39
## 39300	0	3.322036e-02	66
## 38345	0	7.959102e-03	57
## 141532	0	2.529856e-02	61
## 51022	0	6.401671e-01	56
## 118168	0	0.000000e+00	28
## 48823	0	1.163114e-02	48
## 2759	0	7.293689e-03	27
## 45120	0	2.629357e-01	53
## 60646	0	6.055078e-01	45
## 118943	0	3.360723e-02	75
## 86042	0	5.969970e-04	72
## 140755	0	4.215316e-02	74
## 31869	0	1.060847e-01	66
## 106282	0	4.391971e-02	60
## 2722	0	1.232390e-01	57
## 122274	0	3.544698e-02	42
## 49010	0	1.741358e-03	55
## 14407	0	5.264735e-01	23
## 70081	0	1.128770e-01	53
## 111954	0	4.329856e-02	67
## 33653	0	5.184979e-02	37
## 64633	0	3.129443e-01	46
## 666	0	5.788494e-01	48
## 94231	0	6.472180e-01	29
## 17841	0	9.301797e-03	45
## 66514	0	0.000000e+00	47
## 11963	0	7.811631e-01	48
## 47390	0	4.593505e-02	78
## 142246	0	4.696881e-03	64
## 15569	0	7.871798e-01	33
## 75162	0	3.154872e-01	59
## 125754	0	3.714384e-01	43
## 139846	0	1.398274e-01	75
## 48937	0	9.420116e-01	25
## 63382	0	6.888309e-01	56
## 37073	0	8.838005e-03	59
## 26123	0	1.104128e-01	56
## 87702	0	2.055017e-01	84
## 31461	0	3.845846e-01	44
## 134941	0	9.345385e-01	51
## 79392	0	6.541630e-01	47

## 18193	0	1.211577e+00	57
## 55262	0	1.585470e-01	31
## 36756	0	1.782879e-01	54
## 148258	0	9.999999e-01	23
## 48041	0	5.539006e-01	28
## 139800	0	2.047181e-01	29
## 119698	0	4.292353e-01	58
## 86056	0	4.791939e-02	27
## 42599	0	6.475782e-01	59
## 101011	0	0.000000e+00	29
## 37094	0	1.886958e-01	62
## 4869	0	7.695459e-01	54
## 9247	0	1.145521e-01	64
## 6119	0	5.379875e-02	62
## 91192	0	9.469027e-01	51
## 17021	0	1.026649e+00	23
## 95865	0	3.352907e-02	61
## 89204	0	0.000000e+00	54
## 82825	0	4.855689e-01	40
## 8221	0	2.286371e-01	64
## 18337	0	2.967547e-01	49
## 121333	0	2.130237e-02	49
## 89223	0	3.018564e-01	52
## 28030	0	2.008742e-01	44
## 45756	0	0.000000e+00	54
## 121176	0	8.627585e-01	30
## 87772	0	2.200131e-02	63
## 117902	0	3.653409e-01	50
## 144930	0	2.844381e-02	61
## 98161	0	3.649296e-01	30
## 61745	0	4.035354e-02	47
## 130409	0	3.539829e-01	63
## 32709	0	6.355788e-01	53
## 85201	0	2.888675e-03	63
## 69018	0	0.000000e+00	79
## 88897	0	1.897953e-01	41
## 65387	0	2.649610e-01	49
## 135665	0	1.440390e-01	53
## 68154	0	1.042431e-01	64
## 7875	0	3.702815e-01	77
## 32201	0	2.017136e-01	51
## 127718	0	5.773634e-01	30
## 92963	0	5.908818e-01	29
## 108110	0	9.140431e-02	75
## 18790	0	9.860915e-01	43
## 109243	0	5.908518e-03	78
## 121638	0	6.079173e-02	64
## 127289	0	4.578240e-02	42
## 68991	0	9.659064e-01	51
## 67992	0	3.055847e-01	43
## 41170	0	1.664409e-02	48
## 23422	0	2.619651e-01	29
## 117714	0	1.936186e-01	51
## 45376	0	1.643275e-01	48

## 106865	0	6.130612e-02	54
## 86319	0	4.000573e-01	61
## 22293	0	8.933084e-01	60
## 122311	0	4.324168e-01	43
## 69961	0	2.666269e-01	46
## 68	0	6.799093e-03	27
## 85670	0	4.916508e-01	34
## 65641	0	9.958337e-01	54
## 137471	0	5.642143e-03	69
## 93330	0	7.333155e-01	45
## 17362	0	4.099868e-02	29
## 108538	0	9.999174e-01	39
## 145749	0	2.372711e-02	43
## 123387	0	2.588965e-01	35
## 116921	0	9.146407e-01	53
## 83218	0	1.359256e-02	55
## 25655	0	4.560901e-02	58
## 90193	0	3.136640e-03	37
## 89851	0	4.613932e-01	63
## 55832	0	3.090769e-03	68
## 92547	0	5.946478e-01	38
## 68420	0	2.962170e-01	31
## 147977	0	3.507310e-02	51
## 47222	0	9.999999e-01	86
## 51070	0	4.783975e-02	61
## 119980	0	3.844421e-01	43
## 135320	0	8.017355e-01	65
## 74452	0	2.739554e-01	53
## 21263	0	1.049947e-02	66
## 59695	0	1.946403e-01	43
## 141582	0	3.150413e-02	73
## 11330	0	3.294520e-01	64
## 35532	0	9.999999e-01	46
## 119022	0	9.638433e-02	53
## 97269	0	0.000000e+00	43
## 12663	0	6.295875e-01	27
## 116551	0	8.266560e-04	66
## 88489	0	3.246332e-02	30
## 54519	0	9.780439e-01	23
## 37838	0	1.146431e-01	52
## 133115	0	8.571020e-02	48
## 66231	0	5.071240e-04	53
## 17198	0	5.794071e-01	48
## 88368	0	6.371501e-02	60
## 65430	0	5.954384e-01	46
## 93417	0	7.529806e-02	78
## 59411	0	1.122888e-01	62
## 56505	0	3.289232e-01	64
## 35914	0	1.301383e-02	56
## 43484	0	2.372074e-01	59
## 148036	0	1.752297e-02	68
## 58522	0	5.856030e-03	47
## 149331	0	6.262832e-03	76
## 6798	0	5.207523e-01	53

## 83601	0	0.000000e+00	56
## 105817	0	0.000000e+00	22
## 144488	0	1.929921e-01	51
## 11666	0	9.999999e-01	35
## 96733	0	2.478590e-03	61
## 117729	0	5.937338e-01	52
## 127342	0	9.999999e-01	58
## 78240	0	1.202662e-02	81
## 54913	0	1.190263e-01	54
## 65259	0	7.874803e-03	62
## 47144	0	8.340830e-01	28
## 90338	0	1.611678e-01	41
## 66151	0	6.200896e-02	26
## 128909	0	1.240382e-03	49
## 27604	0	2.023899e-01	42
## 19342	0	2.971259e-03	55
## 147323	0	0.000000e+00	26
## 74238	0	3.853975e-02	66
## 109769	0	9.999999e-01	30
## 146545	0	7.565026e-02	44
## 120210	0	2.786564e-01	58
## 93146	0	2.343695e-01	63
## 28928	0	0.000000e+00	48
## 52705	0	1.826545e-02	58
## 47405	0	2.078893e-03	51
## 93239	0	5.823785e-01	53
## 29016	0	9.999999e-01	29
## 33936	0	2.263255e-01	44
## 65093	0	4.479800e-02	46
## 128700	0	6.151096e-01	46
## 59138	0	3.835386e-01	46
## 57807	0	0.000000e+00	43
## 117108	0	5.935677e-01	26
## 77318	0	1.361423e-01	55
## 128531	0	1.300512e+00	34
## 75516	0	5.648320e-02	55
## 38930	0	9.999999e-01	25
## 61026	0	7.759876e-02	53
## 142614	0	9.999999e-01	31
## 20836	0	9.999999e-01	27
## 103415	0	9.638518e-01	39
## 87857	0	0.000000e+00	52
## 4981	0	2.845368e-02	58
## 12	0	1.879812e-02	51
## 66143	0	6.921584e-01	41
## 72113	0	7.343178e-01	36
## 113928	0	6.212360e-01	53
## 140987	0	8.867974e-03	57
## 25661	0	1.825963e-01	63
## 127648	0	1.124700e-01	43
## 132619	0	9.999999e-01	38
## 139257	0	7.627575e-01	70
## 91385	0	9.318434e-02	45
## 91852	0	2.757890e-01	47

## 134917	0	6.099187e-01	30
## 102964	0	6.067694e-01	42
## 142457	0	1.474107e-01	32
## 43838	0	2.935589e-01	29
## 1644	0	1.089310e-02	71
## 129512	0	3.269005e-01	73
## 100812	0	3.279679e-01	52
## 112886	0	1.769491e-01	66
## 88075	0	3.631023e-02	50
## 132449	0	7.851642e-03	77
## 35345	0	1.155042e+00	47
## 48207	0	0.000000e+00	47
## 60669	0	1.692215e-02	59
## 148798	0	9.019074e-01	53
## 42447	0	5.834066e-02	54
## 142065	0	3.568371e-02	35
## 93241	0	5.778632e-02	39
## 114896	0	6.104303e-02	62
## 55060	0	4.702120e-04	76
## 81565	0	8.668918e-01	61
## 144526	0	5.083322e-01	51
## 19585	0	1.514805e-01	39
## 133941	0	1.467696e-01	56
## 68484	0	7.967289e-02	73
## 15046	0	8.395757e-01	38
## 111201	0	5.540950e-03	51
## 1578	0	3.291521e-01	41
## 58669	0	3.830021e-01	54
## 61175	0	9.999999e-01	39
## 57363	0	2.139065e-01	48
## 71519	0	1.092710e-01	65
## 9242	0	4.759756e-01	41
## 21116	0	9.999999e-01	24
## 51488	0	2.504825e-02	56
## 139151	0	2.312769e-01	26
## 28979	0	2.545326e-02	32
## 97856	0	5.365114e-01	57
## 101530	0	4.727673e-01	30
## 19976	0	6.252822e-01	34
## 97330	0	8.681040e-01	76
## 93205	0	7.017595e-01	34
## 57932	0	3.209112e-01	61
## 97328	0	5.341644e-02	42
## 39911	0	4.132874e-02	26
## 59076	0	9.740037e-01	54
## 42398	0	1.302498e-01	53
## 95233	0	9.055497e-01	79
## 142950	0	1.740283e-03	55
## 127535	0	0.000000e+00	60
## 135231	0	7.847470e-02	70
## 45554	0	1.025265e-01	46
## 28642	0	1.078736e-01	46
## 125461	0	9.999999e-01	29
## 32223	0	1.765197e-02	36

## 40209	0	9.818182e-01	28
## 102136	0	5.874804e-01	45
## 109566	0	4.371304e-02	58
## 86852	0	1.055304e-02	77
## 15797	0	2.834613e-01	62
## 104507	0	3.192859e-01	27
## 115158	0	8.914327e-03	38
## 141503	0	3.465151e-01	33
## 134225	0	8.963942e-01	68
## 119694	0	7.942058e-01	31
## 49979	0	2.303885e-01	53
## 133552	0	7.470556e-01	46
## 5798	0	9.999999e-01	39
## 13297	0	1.097863e-01	79
## 63427	0	2.102111e-01	53
## 11470	0	6.700471e-01	59
## 58487	0	0.000000e+00	69
## 49058	0	3.146654e-01	62
## 87962	0	7.499349e-01	43
## 70417	0	1.456482e-02	67
## 107185	0	6.276774e-01	52
## 76545	0	1.420786e-01	49
## 111091	0	1.667859e-02	71
## 106028	0	5.712473e-02	29
## 11609	0	1.395002e-01	38
## 39488	0	0.000000e+00	65
## 50098	0	4.314821e-01	56
## 147983	0	0.000000e+00	29
## 90362	0	8.828104e-01	55
## 3231	0	0.000000e+00	58
## 1189	0	9.927252e-02	58
## 33890	0	9.290372e-01	34
## 60155	0	1.921616e-01	60
## 88455	0	3.486823e-02	46
## 48171	0	2.828541e-01	49
## 68893	0	5.908409e-01	44
## 23175	0	6.418264e-02	34
## 19796	0	1.429675e-02	44
## 15617	0	0.000000e+00	68
## 85175	0	1.005518e-01	46
## 52343	0	9.999999e-01	40
## 117466	0	7.167435e-01	60
## 118436	0	2.619000e+03	66
## 145367	0	9.051843e-01	57
## 35028	0	9.999999e-01	36
## 2065	0	2.919490e-04	60
## 22907	0	0.000000e+00	62
## 135632	0	1.799581e-02	52
## 129077	0	2.876410e-01	33
## 117604	0	5.313527e-02	38
## 116800	0	6.449209e-01	41
## 79703	0	1.001329e+00	51
## 56924	0	2.991718e-02	47
## 127586	0	3.606320e-01	38

## 33085	0	3.859179e-01	62
## 77936	0	5.235738e-01	36
## 87251	0	1.797943e-03	60
## 65761	0	2.223555e-01	31
## 131228	0	6.093045e-01	54
## 129739	0	8.068780e-03	54
## 91612	0	7.321786e-03	58
## 60983	0	4.844223e-01	41
## 9697	0	8.721851e-02	51
## 70325	0	4.997785e-02	42
## 124532	0	0.000000e+00	33
## 94657	0	1.466664e-01	55
## 76824	0	3.840990e-01	33
## 146825	0	6.782019e-03	28
## 112116	0	1.991204e-03	73
## 95058	0	1.604920e-02	29
## 77608	0	0.000000e+00	25
## 136239	0	3.925062e-02	39
## 112177	0	5.274814e-01	37
## 53593	0	3.731866e-01	40
## 4159	0	3.897433e-01	28
## 143801	0	2.486510e-01	89
## 7052	0	3.185196e-02	56
## 72924	0	2.131259e-01	35
## 6953	0	1.483234e-01	38
## 70822	0	1.882592e-01	29
## 26050	0	4.749239e-01	64
## 57634	0	2.417181e-01	44
## 139590	0	1.083406e-01	73
## 26927	0	9.999999e-01	31
## 26454	0	2.012248e-01	70
## 63872	0	0.000000e+00	69
## 21624	0	6.677404e-02	69
## 147134	0	1.198795e-02	45
## 1193	0	9.636146e-01	46
## 115554	0	0.000000e+00	64
## 46066	0	9.999999e-01	48
## 22173	0	4.863674e-02	64
## 118992	0	1.126669e-02	63
## 71312	0	7.794051e-01	28
## 45415	0	9.927931e-01	45
## 6641	0	1.920352e-02	66
## 65844	0	2.911835e-02	48
## 64989	0	8.645409e-01	32
## 33178	0	1.507466e-01	76
## 126749	0	2.651464e-01	47
## 93571	0	2.415751e-01	40
## 77960	0	4.237589e-01	44
## 103102	0	7.182350e-02	43
## 131660	0	7.030270e-01	33
## 66110	0	0.000000e+00	68
## 834	0	2.352252e-01	37
## 95680	0	1.345216e-01	67
## 14166	0	7.873218e-03	85

## 29391	0	3.758920e-01	69
## 132622	0	1.178550e-03	60
## 126311	0	1.759824e-01	32
## 846	0	8.353115e-01	31
## 11818	0	4.122206e-01	35
## 93257	0	3.509901e-01	63
## 105592	0	5.717141e-01	34
## 83974	0	9.999999e-01	64
## 56022	0	3.132238e-02	72
## 35037	0	3.578077e-01	60
## 141732	0	6.242380e-01	62
## 112497	0	2.314226e-02	73
## 125466	0	2.856828e-02	71
## 107982	0	6.333240e-01	39
## 119466	0	0.000000e+00	45
## 33668	0	7.810331e-02	57
## 79940	0	4.338772e-01	62
## 37973	0	3.259109e-02	70
## 91621	0	1.942975e-01	61
## 125984	0	8.383659e-01	42
## 9022	0	9.999999e-01	35
## 119003	0	2.286988e-02	43
## 102285	0	1.388000e-01	48
## 104498	0	9.999999e-01	54
## 113695	0	8.458201e-01	44
## 60874	0	1.326680e-04	61
## 140196	0	9.999999e-01	32
## 125353	0	4.302815e-02	64
## 68487	0	3.976576e-02	47
## 21502	0	9.244151e-01	38
## 6791	0	7.353162e-01	23
## 109299	0	6.316538e-03	44
## 60088	0	9.999999e-01	85
## 102542	0	2.806964e-02	33
## 18240	0	6.783951e-02	72
## 34310	0	5.537093e-02	59
## 119604	0	5.999833e-02	30
## 7501	0	5.722853e-03	86
## 64738	0	5.024738e-01	34
## 91227	0	2.452610e-01	31
## 124306	0	8.420108e-02	69
## 148273	0	3.786744e-02	57
## 22791	0	9.672217e-01	54
## 65848	0	9.999999e-01	24
## 115704	0	5.534951e-01	44
## 16883	0	0.000000e+00	38
## 4049	0	4.151215e-03	48
## 131864	0	7.709615e-02	78
## 26530	0	9.222745e-01	50
## 60443	0	1.574880e-01	41
## 47737	0	5.360334e-03	60
## 23459	0	1.718208e-02	68
## 24560	0	5.845104e-01	55
## 21864	0	3.170091e-01	29

## 33009	0	7.908955e-01	33
## 95465	0	2.887675e-02	47
## 20203	0	9.742301e-01	32
## 83672	0	1.250937e-01	40
## 131599	0	5.820453e-01	34
## 62371	0	2.311579e-02	30
## 30681	0	4.538721e-01	49
## 101776	0	0.000000e+00	66
## 50865	0	9.999999e-01	27
## 32903	0	0.000000e+00	64
## 48351	0	4.947212e-01	41
## 18296	0	3.857692e-01	33
## 45317	0	9.999999e-01	43
## 3100	0	2.212699e-02	49
## 70286	0	9.134088e-01	45
## 23292	0	4.771809e-02	60
## 135377	0	1.458677e-01	49
## 97197	0	1.578947e-01	39
## 38011	0	9.999999e-01	53
## 69672	0	1.409800e-01	43
## 41640	0	2.238567e-01	84
## 82122	0	2.083258e-02	62
## 111882	0	1.769122e-01	44
## 116942	0	5.642359e-01	58
## 92516	0	8.759124e-02	43
## 136375	0	9.076718e-02	65
## 130710	0	7.874320e-02	46
## 7818	0	0.000000e+00	41
## 67260	0	2.493410e-01	38
## 65187	0	4.817126e-02	37
## 29611	0	4.715740e-03	28
## 7317	0	6.899628e-02	41
## 76909	0	9.999999e-01	56
## 138551	0	2.129701e-01	48
## 136883	0	2.148933e-01	42
## 110625	0	2.811300e-02	80
## 37083	0	2.922586e-02	66
## 44500	0	5.509559e-02	61
## 113037	0	2.411395e-02	49
## 115304	0	1.064962e-01	53
## 47631	0	9.729802e-01	56
## 129045	0	1.853510e-02	52
## 130885	0	2.662150e-01	32
## 80309	0	2.035593e-01	27
## 8738	0	6.985502e-01	26
## 4956	0	4.765762e-01	40
## 37082	0	5.711732e-01	44
## 130340	0	0.000000e+00	46
## 84057	0	3.726808e-01	57
## 143839	0	6.329178e-01	55
## 5190	0	3.835095e-01	49
## 77714	0	9.847328e-01	35
## 104484	0	2.123938e-01	48
## 4342	0	1.764355e-01	48

## 17776	0	1.446570e-02	57
## 148097	0	1.964629e-02	27
## 18830	0	8.465588e-01	45
## 137807	0	0.000000e+00	65
## 144553	0	2.808833e-01	25
## 17134	0	0.000000e+00	45
## 6512	0	1.703739e-01	63
## 132109	0	5.512855e-01	52
## 4743	0	8.943094e-01	50
## 134433	0	4.346687e-02	45
## 64374	0	2.742333e-01	49
## 60986	0	2.936443e-01	43
## 53098	0	2.968353e-01	40
## 128567	0	3.569315e-02	34
## 105269	0	4.808136e-01	58
## 84920	0	2.678775e-01	44
## 115408	0	0.000000e+00	76
## 60829	0	8.735722e-02	61
## 49606	0	0.000000e+00	65
## 69296	0	4.819518e-02	73
## 77184	0	1.462395e-01	46
## 39947	0	6.216882e-03	63
## 145528	0	4.031126e-01	61
## 85198	0	1.263864e-01	82
## 141776	0	4.470457e-03	57
## 105711	0	7.784279e-02	84
## 90582	0	5.095426e-01	42
## 36327	0	3.038485e-02	47
## 116673	0	9.924357e-01	51
## 124420	0	8.379534e-01	35
## 39920	0	2.339883e-02	59
## 86814	0	3.554708e-02	69
## 21438	0	9.999999e-01	28
## 127993	0	5.338923e-02	62
## 15914	0	2.639868e-02	56
## 98861	0	7.651980e-02	63
## 5755	0	4.019158e-01	56
## 70925	0	6.905238e-01	25
## 31220	0	1.428612e-01	53
## 25290	0	1.453563e-02	73
## 136172	0	1.673985e-01	46
## 105053	0	5.603251e-02	37
## 67496	0	6.291976e-01	41
## 123827	0	1.425306e-01	55
## 123331	0	4.036119e-02	89
## 116894	0	3.411285e-02	62
## 143781	0	5.701477e-01	64
## 148700	0	1.666556e-03	39
## 9539	0	1.172953e-01	57
## 15262	0	1.779802e-01	40
## 126019	0	8.782435e-02	38
## 81218	0	4.119529e-01	67
## 72453	0	5.102876e-01	58
## 148082	0	1.472460e-02	24

## 33173	0	3.108635e-01	56
## 4042	0	5.902274e-02	39
## 82548	0	7.702691e-01	59
## 105800	0	3.381716e-02	66
## 3321	0	0.000000e+00	67
## 145674	0	9.972312e-01	46
## 23764	0	5.414549e-01	52
## 146122	0	1.991023e-02	43
## 132066	0	1.090174e-01	30
## 139291	0	4.011448e-03	44
## 1310	0	4.474650e-01	59
## 61369	0	1.870441e-03	62
## 148578	0	6.205367e-03	63
## 110001	0	9.999999e-01	38
## 126753	0	8.936376e-02	64
## 117679	0	3.030357e-01	57
## 13460	0	0.000000e+00	43
## 109458	0	9.999999e-01	63
## 71053	0	5.064013e-01	39
## 148828	0	0.000000e+00	51
## 27276	0	1.320487e-02	66
## 149607	0	0.000000e+00	40
## 112667	0	2.832429e-02	77
## 83470	0	7.296255e-01	35
## 128353	0	3.279022e-01	30
## 132913	0	3.209679e-02	65
## 59379	0	5.309429e-02	34
## 102304	0	4.563437e-01	32
## 108155	0	2.305292e-02	68
## 120609	0	7.068298e-01	61
## 42028	0	5.099362e-01	38
## 23350	0	2.908721e-01	28
## 79266	0	1.784713e-01	59
## 110614	0	4.951241e-01	25
## 141404	0	3.643452e-01	32
## 78436	0	1.427888e-01	76
## 4675	0	0.000000e+00	22
## 118006	0	3.455149e-01	42
## 122460	0	4.622829e-01	37
## 111718	0	2.194042e-01	53
## 146460	0	7.996431e-01	37
## 109892	0	6.918341e-02	30
## 49807	0	0.000000e+00	46
## 138374	0	3.766903e-02	50
## 133689	0	5.018124e-01	78
## 74004	0	3.165504e-01	34
## 134406	0	3.051300e-01	45
## 52891	0	7.249910e-01	44
## 104289	0	4.392499e-01	37
## 72307	0	9.999999e-01	43
## 74634	0	2.186774e-02	52
## 88579	0	1.222472e-01	59
## 52927	0	9.462523e-03	61
## 116556	0	4.269740e-02	65

## 140907	0	1.319028e-02	45
## 50239	0	8.477729e-01	41
## 43280	0	2.329592e-01	62
## 70179	0	9.089392e-03	55
## 147256	0	0.000000e+00	80
## 6969	0	9.010549e-01	51
## 4969	0	4.476086e-02	51
## 20633	0	9.999999e-01	43
## 97804	0	5.629282e-02	70
## 54014	0	2.378897e-02	56
## 103045	0	1.206712e-01	42
## 98099	0	9.780019e-01	28
## 68133	0	4.038618e-02	53
## 28118	0	2.769889e-01	33
## 89627	0	2.039898e-02	46
## 12376	0	8.167456e-01	49
## 119332	0	3.233981e-01	36
## 120878	0	1.259297e-01	75
## 56617	0	8.894259e-01	37
## 99410	0	6.928577e-03	53
## 140461	0	1.658193e-01	57
## 31688	0	2.547895e-01	47
## 53363	0	7.249910e-04	81
## 130630	0	1.017812e-01	35
## 146435	0	6.497166e-03	67
## 44908	0	9.999999e-01	51
## 24256	0	4.843592e-01	76
## 83079	0	1.055263e-01	64
## 106497	0	6.315100e-02	59
## 37215	0	2.109461e-01	57
## 141842	0	5.281284e-01	48
## 100110	0	2.110986e-01	40
## 29569	0	2.062238e-01	37
## 147164	0	2.598420e-01	34
## 79994	0	9.911757e-01	37
## 82009	0	2.393380e-01	71
## 3693	0	7.289199e-02	69
## 75612	0	3.451410e-01	34
## 85182	0	2.920044e-01	46
## 141648	0	1.069465e-01	43
## 35845	0	2.085507e-01	44
## 26730	0	2.999800e-02	77
## 36780	0	6.154132e-01	37
## 146713	0	3.541076e-01	29
## 110226	0	8.472357e-01	32
## 39957	0	3.685103e-01	41
## 133343	0	2.758455e-01	38
## 24049	0	0.000000e+00	64
## 74705	0	1.362577e-02	53
## 22865	0	1.014981e-01	59
## 142911	0	9.633943e-01	25
## 30960	0	9.999999e-01	44
## 98929	0	0.000000e+00	48
## 59952	0	7.888649e-01	33

## 33858	0	3.331113e-03	36
## 55176	0	1.260578e-01	64
## 71778	0	1.054384e+00	35
## 136957	0	0.000000e+00	82
## 102852	0	7.142451e-01	59
## 4487	0	2.785389e-01	55
## 104254	0	8.223850e-02	66
## 144067	0	7.811088e-02	30
## 95158	0	6.582498e-01	49
## 94204	0	5.040680e-02	31
## 128360	0	5.200988e-01	56
## 143161	0	5.689935e-01	47
## 140148	0	7.974852e-01	44
## 16665	0	4.620013e-01	61
## 80011	0	1.999901e-02	52
## 103140	0	5.871301e-01	67
## 100846	0	1.882697e-02	50
## 59355	0	5.091808e-02	43
## 214448	0	6.997944e-02	34
## 106231	0	9.253396e-01	53
## 4638	0	6.454903e-01	51
## 22871	0	2.820293e-02	49
## 29363	0	1.321670e-01	79
## 44615	0	5.258498e-01	45
## 91147	0	2.665197e-02	68
## 94438	0	5.358183e-02	28
## 23468	0	7.740144e-01	35
## 34575	0	1.108438e-02	79
## 28256	0	1.536612e-02	79
## 11571	0	3.082456e-03	36
## 68761	0	1.458294e-01	64
## 4228	0	4.845781e-03	39
## 33519	0	9.999999e-01	55
## 36434	0	1.767343e-01	65
## 109520	0	9.183091e-01	53
## 113874	0	3.738633e-01	48
## 31700	0	0.000000e+00	38
## 109269	0	1.580218e-01	42
## 24586	0	1.369515e-02	77
## 46357	0	1.009481e+00	81
## 54182	0	5.700208e-02	45
## 96646	0	7.112385e-02	49
## 88142	0	7.730657e-02	48
## 131182	0	3.154676e-01	47
## 4751	0	5.603312e-01	32
## 134762	0	2.378129e-01	37
## 96310	0	1.783709e-01	76
## 49511	0	6.162008e-02	42
## 75344	0	1.678204e-01	72
## 34344	0	1.001818e+00	32
## 128539	0	5.248930e-02	31
## 139877	0	9.632739e-01	49
## 105669	0	1.689856e-02	61
## 89179	0	7.704690e-02	50

## 97191	0	1.420069e-01	38
## 67719	0	4.698819e-01	59
## 84613	0	2.335029e-01	44
## 8149	0	1.043979e-01	50
## 98827	0	6.620125e-01	64
## 66428	0	1.022666e+00	40
## 65009	0	3.036565e-02	84
## 13203	0	9.188022e-03	56
## 145843	0	6.338732e-02	72
## 21352	0	9.913894e-01	61
## 123764	0	5.622536e-02	43
## 64447	0	2.285388e-03	30
## 58225	0	5.416054e-01	26
## 143139	0	1.251667e-01	54
## 137605	0	8.550954e-01	31
## 45472	0	9.999999e-01	33
## 49340	0	2.970771e-02	47
## 123529	0	4.700699e-01	36
## 39498	0	3.684133e-03	36
## 102385	0	3.826720e-02	58
## 70505	0	7.579605e-02	50
## 105778	0	1.138798e-01	37
## 113885	0	8.390043e-01	62
## 149846	0	1.061130e-01	43
## 70529	0	0.000000e+00	64
## 118675	0	0.000000e+00	88
## 63538	0	3.833768e-02	63
## 61932	0	9.999999e-01	36
## 30402	0	4.794490e-02	68
## 72203	0	7.305851e-01	62
## 119109	0	0.000000e+00	24
## 53034	0	4.581806e-01	30
## 132212	0	9.852130e-01	60
## 65409	0	2.026721e-03	62
## 55880	0	6.992673e-03	50
## 62507	0	1.435660e-01	59
## 34	0	1.868686e-01	57
## 144475	0	4.257795e-01	33
## 4206	0	9.641821e-02	49
## 92536	0	4.351718e-03	31
## 118907	0	7.588505e-01	33
## 51131	0	1.044811e+00	32
## 136640	0	9.999999e-01	48
## 32419	0	1.212077e-01	50
## 35880	0	8.554011e-03	42
## 25672	0	0.000000e+00	44
## 72205	0	9.358026e-01	58
## 125889	0	0.000000e+00	32
## 138165	0	6.843854e-01	27
## 30062	0	2.651668e-01	34
## 52542	0	6.454121e-01	26
## 147021	0	2.849560e-01	33
## 128679	0	3.617018e-01	54
## 103932	0	7.923073e-02	61

## 69732	0	1.442328e+00	40
## 135709	0	3.198097e-01	51
## 119263	0	8.052398e-01	43
## 42544	0	6.211794e-01	46
## 98926	0	6.545517e-02	70
## 29637	0	9.313692e-01	40
## 149288	0	6.806886e-01	38
## 125390	0	1.223562e-01	72
## 109802	0	2.326304e-01	45
## 94050	0	8.154253e-01	54
## 25055	0	2.147393e-01	37
## 46653	0	7.162271e-03	45
## 58057	0	2.054527e-02	36
## 23021	0	6.652283e-01	70
## 32782	0	9.437440e-01	60
## 120190	0	8.397388e-01	31
## 4833	0	1.351802e-02	60
## 147817	0	1.879379e-02	50
## 5337	0	8.126438e-01	55
## 4987	0	2.326339e-01	68
## 32329	0	9.999999e-01	29
## 137866	0	0.000000e+00	58
## 70662	0	7.878510e-01	36
## 124970	0	9.999999e-01	65
## 91782	0	8.233867e-03	51
## 101110	0	8.726086e-02	62
## 42712	0	2.632415e-01	76
## 32723	0	2.967551e-02	30
## 54193	0	6.426437e-02	32
## 23565	0	2.827523e-02	74
## 109798	0	4.457386e-01	49
## 57390	0	0.000000e+00	62
## 118662	0	2.652841e-01	51
## 38005	0	1.573753e-01	38
## 18276	0	1.037122e-01	47
## 92495	0	5.872064e-01	23
## 115742	0	8.310517e-01	68
## 58702	0	2.698151e-02	63
## 71052	0	2.071124e-01	48
## 113878	0	5.407932e-02	64
## 126754	0	4.885950e-01	35
## 43124	0	7.394261e-01	62
## 11547	0	1.754128e-01	32
## 106784	0	5.299089e-01	46
## 95928	0	9.998919e-01	41
## 39049	0	2.272500e-01	54
## 144540	0	5.122805e-01	41
## 34807	0	5.864490e-01	61
## 53893	0	2.437983e-03	72
## 88068	0	1.226105e-02	48
## 93163	0	2.422984e-02	61
## 125049	0	4.733814e-01	39
## 86182	0	1.359734e-01	66
## 117777	0	5.611578e-03	73

## 124527	0	8.239203e-01	57
## 136234	0	4.496268e-02	51
## 8587	0	9.962655e-02	29
## 25124	0	9.999999e-01	32
## 26503	0	0.000000e+00	34
## 61975	0	1.117715e-01	53
## 6473	0	5.046498e-02	67
## 89696	0	9.540918e-01	30
## 86965	0	6.260222e-01	29
## 59928	0	7.358845e-01	47
## 39104	0	4.344966e-02	69
## 121103	0	9.999999e-01	43
## 63423	0	0.000000e+00	30
## 114319	0	9.999999e-01	32
## 59536	0	2.045061e-01	45
## 119165	0	0.000000e+00	55
## 113614	0	9.520890e-03	62
## 68521	0	6.297923e-01	40
## 29138	0	6.161857e-01	42
## 41000	0	2.290574e-01	27
## 94395	0	1.739835e-01	64
## 66349	0	8.129636e-01	42
## 2167	0	7.149725e-01	41
## 109427	0	1.442556e-01	48
## 21380	0	8.473157e-01	57
## 16163	0	5.433003e-01	86
## 46278	0	6.538692e-01	45
## 60921	0	6.175896e-02	41
## 13632	0	5.703918e-02	46
## 56072	0	8.865635e-02	33
## 9266	0	9.295228e-01	36
## 101898	0	6.120172e-01	34
## 1440	0	2.329767e-02	30
## 55867	0	2.921647e-02	66
## 144910	0	4.430008e-02	66
## 111878	0	5.299574e-01	73
## 138660	0	2.339256e-02	73
## 18851	0	8.756028e-02	29
## 34079	0	1.607668e-02	43
## 100971	0	2.402441e-03	54
## 133922	0	5.328946e-02	48
## 59078	0	2.792959e-01	53
## 4549	0	4.585663e-02	47
## 82507	0	9.999999e-01	26
## 147568	0	3.094483e-01	84
## 137893	0	0.000000e+00	57
## 41832	0	1.803507e-02	56
## 3905	0	5.154992e-01	49
## 114591	0	0.000000e+00	86
## 81840	0	5.516434e-02	69
## 67826	0	3.804992e-03	53
## 141545	0	7.941723e-01	33
## 92404	0	3.172345e-02	35
## 144391	0	3.293671e-01	55

## 84929	0	7.107716e-02	58
## 119701	0	3.131045e-02	73
## 106570	0	6.375915e-01	48
## 91857	0	0.000000e+00	40
## 65141	0	2.655570e-02	39
## 133765	0	9.999999e-01	40
## 142458	0	4.531612e-02	34
## 120950	0	1.010598e+00	31
## 29187	0	1.088141e-01	52
## 4912	0	5.878412e-01	33
## 55167	0	5.058127e-01	58
## 42917	0	4.645647e-02	30
## 63349	0	5.263980e-02	41
## 71575	0	1.995049e-02	48
## 43283	0	5.955404e-01	33
## 8910	0	6.551540e-02	53
## 134880	0	3.779186e-01	31
## 126422	0	9.601594e-01	30
## 110320	0	0.000000e+00	34
## 77308	0	6.066517e-02	29
## 3228	0	9.999999e-01	57
## 128488	0	9.432704e-01	58
## 53638	0	9.999999e-01	47
## 42267	0	9.999999e-01	36
## 19515	0	2.166563e-02	47
## 20637	0	2.157476e-02	54
## 91507	0	3.241723e-01	62
## 101944	0	1.298310e-01	64
## 33720	0	2.669148e-01	47
## 65466	0	5.718856e-02	67
## 7997	0	9.883642e-01	40
## 93255	0	0.000000e+00	46
## 117744	0	9.999999e-01	52
## 97971	0	9.974264e-02	44
## 123404	0	2.102105e-01	35
## 94560	0	4.486677e-01	33
## 32090	0	1.187506e-01	41
## 54778	0	5.476701e-01	56
## 145601	0	2.881800e-01	37
## 14458	0	3.277715e-01	62
## 122412	0	5.041773e-03	49
## 113496	0	9.664570e-02	43
## 11393	0	5.064153e-01	60
## 135687	0	1.835096e-01	47
## 55407	0	2.466219e-02	61
## 57319	0	1.336496e-02	46
## 72073	0	5.079677e-01	46
## 70581	0	7.463630e-01	43
## 9563	0	6.291532e-01	67
## 35820	0	1.647830e-01	49
## 148832	0	7.777490e-04	86
## 55726	0	7.356487e-01	35
## 82258	0	9.167579e-01	77
## 21527	0	1.034644e+00	25

## 49303	0	4.237727e-01	55
## 113896	0	9.999999e-01	28
## 11872	0	2.169688e-01	44
## 18650	0	8.503107e-01	34
## 65803	0	4.182154e-01	46
## 11625	0	1.664246e-01	55
## 47567	0	5.795387e-02	52
## 120346	0	9.999999e-01	46
## 9359	0	3.471244e-02	60
## 55629	0	4.932311e-03	86
## 86043	0	3.543068e-03	65
## 122456	0	1.284525e-01	62
## 5308	0	2.710837e-02	72
## 93155	0	0.000000e+00	55
## 27202	0	0.000000e+00	66
## 119765	0	0.000000e+00	24
## 91144	0	7.191390e-01	29
## 113100	0	2.259910e-02	52
## 58313	0	5.076080e-01	28
## 93243	0	3.641674e-02	46
## 88998	0	9.444202e-01	60
## 138099	0	7.224639e-02	54
## 120354	0	3.723711e-02	80
## 100327	0	8.657614e-01	46
## 70513	0	2.499500e-01	66
## 66494	0	1.161765e-01	69
## 19564	0	5.945346e-02	63
## 73785	0	9.999999e-01	26
## 146191	0	5.006604e-01	41
## 74675	0	1.309211e-02	67
## 37351	0	9.807526e-01	50
## 98382	0	8.109189e-02	44
## 79429	0	2.763804e-01	68
## 136697	0	1.145257e-01	63
## 21196	0	3.647700e-01	51
## 134084	0	2.478573e-01	25
## 139861	0	4.128679e-01	60
## 75698	0	7.193540e-02	53
## 5261	0	8.948097e-01	53
## 147384	0	2.900387e-02	69
## 84556	0	2.910596e-02	78
## 99830	0	1.141572e+00	35
## 56685	0	2.214889e-02	62
## 18066	0	4.578612e-02	72
## 123072	0	1.015100e+04	35
## 69949	0	1.484552e-03	80
## 41169	0	7.774613e-01	47
## 43808	0	3.754498e-01	38
## 141100	0	9.151836e-01	54
## 80746	0	6.044322e-01	52
## 9566	0	7.763847e-01	28
## 143870	0	1.289850e-01	54
## 120085	0	8.409303e-01	33
## 20029	0	1.698097e-02	46

## 69356	0	3.402112e-02	46
## 49365	0	1.495754e-02	60
## 982	0	7.491336e-01	50
## 127793	0	0.000000e+00	69
## 125728	0	2.871500e-03	46
## 68947	0	6.172790e-01	49
## 95741	0	2.755364e-01	31
## 77253	0	8.985968e-01	43
## 133375	0	1.012899e-01	45
## 80930	0	7.527808e-03	64
## 111671	0	2.371246e-02	65
## 104733	0	4.027331e-02	44
## 7585	0	3.802862e-02	55
## 129636	0	1.745830e-02	36
## 136221	0	2.276406e-01	39
## 19338	0	4.539136e-03	86
## 6316	0	0.000000e+00	76
## 80651	0	0.000000e+00	40
## 92565	0	5.662553e-01	59
## 13870	0	4.399780e-02	82
## 135748	0	7.899624e-02	45
## 52342	0	1.933753e-02	60
## 36162	0	2.141956e-01	43
## 118128	0	4.100454e-02	50
## 149006	0	1.539909e-01	58
## 144504	0	8.064833e-02	60
## 148240	0	6.978440e-02	31
## 137523	0	7.929093e-03	51
## 31155	0	1.359572e-02	35
## 28314	0	1.936128e-01	35
## 144595	0	2.268358e-02	51
## 95660	0	9.208158e-01	26
## 19616	0	1.629938e-01	61
## 14435	0	1.839423e-02	52
## 102710	0	9.999999e-01	29
## 42424	0	5.403627e-01	61
## 113283	0	3.621576e-01	63
## 15831	0	1.601757e-02	64
## 123663	0	6.502702e-01	59
## 66522	0	1.204267e-01	78
## 5471	0	2.790301e-01	33
## 110176	0	1.317977e-02	40
## 106788	0	3.591012e-02	49
## 62374	0	5.999489e-01	57
## 15124	0	4.844243e-01	51
## 69062	0	6.749478e-01	46
## 139527	0	9.765152e-01	70
## 42967	0	4.885132e-02	47
## 126758	0	2.707859e-02	62
## 24184	0	6.829402e-01	38
## 11785	0	4.065371e-01	54
## 88117	0	4.993084e-03	75
## 139886	0	3.019758e-01	28
## 70696	0	3.020658e-01	51

## 94131	0	1.167243e-01	76
## 138527	0	8.755111e-01	26
## 65576	0	1.536607e-03	62
## 25561	0	1.927892e-01	39
## 69066	0	3.538732e-01	26
## 117879	0	4.046035e-01	45
## 88754	0	9.835017e-01	38
## 22908	0	4.341660e-02	51
## 88027	0	4.394686e-01	43
## 2483	0	6.779635e-01	65
## 75398	0	8.923516e-01	72
## 103580	0	3.453800e-01	46
## 129065	0	4.707416e-01	44
## 12318	0	9.932007e-01	40
## 38773	0	4.872654e-01	64
## 128153	0	9.999999e-01	47
## 9487	0	8.945132e-01	47
## 120722	0	4.879791e-02	61
## 82550	0	6.026838e-01	73
## 128008	0	5.014306e-02	60
## 118580	0	1.808926e-01	65
## 101905	0	2.213183e-01	36
## 124922	0	3.058265e-01	75
## 80219	0	0.000000e+00	53
## 95824	0	0.000000e+00	44
## 17216	0	9.846379e-01	43
## 12847	0	4.996693e-01	46
## 145962	0	4.303794e-02	62
## 42106	0	1.574961e-02	67
## 116724	0	9.999999e-01	80
## 123626	0	2.693154e-02	80
## 21114	0	2.091558e-03	79
## 32503	0	2.815075e-01	31
## 94660	0	3.446437e-02	40
## 20624	0	6.638234e-02	61
## 87047	0	6.108030e-01	48
## 72542	0	3.745714e-02	54
## 88607	0	1.112721e-01	43
## 33979	0	9.999999e-01	59
## 124037	0	4.269568e-01	70
## 130146	0	9.999999e-01	55
## 25215	0	9.999999e-01	39
## 126115	0	1.970487e-01	87
## 106452	0	8.195906e-03	75
## 147212	0	5.947127e-01	66
## 32338	0	9.999999e-01	54
## 10842	0	3.627904e-01	48
## 121233	0	4.684450e-04	41
## 35609	0	7.559622e-02	42
## 17328	0	2.539721e-01	43
## 53581	0	9.999999e-01	47
## 9461	0	4.868823e-01	36
## 14827	0	4.712477e-02	33
## 56097	0	0.000000e+00	73

## 101478	0	2.956747e-02	78
## 34015	0	2.278140e-02	62
## 119081	0	9.613407e-01	31
## 24602	0	6.757451e-01	33
## 21542	0	6.247578e-02	32
## 68423	0	6.982737e-02	69
## 110760	0	6.418232e-01	50
## 132053	0	6.587590e-02	35
## 145630	0	1.235890e-03	52
## 110125	0	1.518949e-03	49
## 93950	0	5.102685e-02	76
## 54179	0	0.000000e+00	41
## 41448	0	5.300399e-02	45
## 73758	0	3.702636e-01	45
## 84675	0	8.740630e-01	39
## 125266	0	9.623230e-03	53
## 89304	0	2.917427e-02	37
## 74658	0	2.148926e-01	30
## 41541	0	0.000000e+00	36
## 12030	0	9.542988e-01	71
## 95655	0	1.697742e-01	65
## 5515	0	1.867626e-01	44
## 62966	0	5.970149e-02	61
## 59828	0	9.688552e-02	51
## 67486	0	8.143983e-02	40
## 127995	0	6.466451e-02	78
## 115338	0	2.131837e-03	64
## 99548	0	0.000000e+00	55
## 119355	0	3.646882e-01	83
## 41098	0	3.356088e-03	49
## 100647	0	3.118812e-02	64
## 101883	0	5.235850e-01	38
## 149692	0	3.418730e-04	51
## 76946	0	2.466584e-03	48
## 79117	0	6.422640e-02	57
## 17417	0	5.749860e-04	49
## 32039	0	1.909588e-01	35
## 33703	0	7.390820e-02	45
## 73591	0	9.999999e-01	37
## 113613	0	7.091845e-01	57
## 88663	0	3.203004e-02	70
## 52158	0	9.999999e-01	47
## 90015	0	1.025858e-02	89
## 143379	0	1.196560e-04	51
## 48326	0	0.000000e+00	45
## 81175	0	1.139065e-02	67
## 131777	0	9.439200e-02	24
## 128891	0	1.007099e+00	38
## 140280	0	1.609037e-01	39
## 84144	0	6.435990e-03	67
## 38160	0	8.690127e-02	75
## 116406	0	3.048484e-01	53
## 52017	0	1.217782e+00	56
## 54999	0	3.531711e-02	44

## 52947	0	9.702959e-01	59
## 85255	0	0.000000e+00	44
## 137183	0	5.085289e-02	48
## 72244	0	8.963950e-01	30
## 145412	0	5.833577e-02	34
## 2489	0	4.098893e-01	38
## 10184	0	4.421246e-01	58
## 147455	0	2.915181e-01	65
## 14273	0	9.325105e-01	38
## 58392	0	1.944516e-02	75
## 37759	0	3.389618e-01	52
## 62261	0	9.221557e-01	22
## 125487	0	2.250192e-01	37
## 131192	0	1.335926e-01	33
## 138055	0	4.267195e-02	58
## 142384	0	2.415146e-02	80
## 135940	0	3.375877e-01	36
## 47488	0	1.537609e+00	42
## 43915	0	2.000874e-01	32
## 146651	0	4.042069e-01	67
## 49179	0	1.164418e-01	27
## 115347	0	8.103610e-01	42
## 109045	0	4.250650e-01	64
## 77977	0	2.063935e-02	49
## 79393	0	6.603510e-01	43
## 67220	0	3.338293e-01	66
## 130868	0	4.342626e-01	35
## 129222	0	9.999999e-01	68
## 124144	0	0.000000e+00	59
## 90027	0	3.653881e-02	69
## 53521	0	1.156485e-01	53
## 107534	0	8.219671e-02	59
## 122838	0	4.004235e-01	56
## 102517	0	8.469819e-01	40
## 17073	0	5.179774e-01	60
## 11494	0	2.233184e-02	38
## 110583	0	3.296688e-01	78
## 67522	0	6.235800e-01	64
## 142576	0	1.653760e-01	47
## 15221	0	1.965889e-02	66
## 90523	0	6.179908e-02	56
## 67044	0	8.820464e-01	45
## 100182	0	4.904510e-01	38
## 140550	0	5.317925e-03	56
## 139253	0	1.234310e-02	56
## 68139	0	1.529451e-01	37
## 117266	0	1.381346e-01	63
## 39789	0	1.406942e-01	33
## 109736	0	2.196768e-02	64
## 108901	0	6.088471e-01	65
## 51511	0	9.786735e-02	35
## 131551	0	8.127856e-02	77
## 14655	0	4.725153e-01	26
## 139534	0	5.659011e-01	63

## 33230	0	8.752669e-02	77
## 103671	0	9.999999e-01	28
## 98113	0	9.999999e-01	69
## 89753	0	3.535715e-02	75
## 43759	0	9.617806e-01	50
## 53590	0	5.289860e-02	80
## 121763	0	5.719192e-02	69
## 97252	0	9.999999e-01	63
## 120072	0	3.662782e-01	53
## 80695	0	2.572265e-03	40
## 71457	0	8.733127e-01	51
## 69787	0	9.999999e-01	24
## 30021	0	6.276966e-03	52
## 61780	0	2.072124e-01	50
## 134575	0	7.450850e-01	50
## 69416	0	3.341991e-01	51
## 108905	0	3.151324e-03	45
## 15851	0	0.000000e+00	78
## 62720	0	8.499660e-02	39
## 6869	0	2.242477e-01	56
## 78029	0	9.999999e-01	22
## 55464	0	9.999999e-01	71
## 109478	0	8.048630e-04	79
## 107252	0	1.792140e-01	30
## 131060	0	7.336055e-01	41
## 113256	0	2.487683e-02	74
## 39873	0	3.679504e-01	61
## 38702	0	1.619968e-02	38
## 69894	0	0.000000e+00	39
## 55440	0	5.657832e-01	46
## 10193	0	9.393691e-01	31
## 79147	0	1.754035e-01	50
## 55110	0	7.521300e-04	51
## 4727	0	9.999999e-01	47
## 148985	0	5.153249e-02	42
## 46201	0	7.003208e-02	67
## 55636	0	6.978073e-02	43
## 98195	0	4.061047e-02	26
## 47617	0	1.115349e-01	48
## 96196	0	4.444065e-03	30
## 52250	0	0.000000e+00	52
## 144704	0	2.520160e-01	46
## 139148	0	0.000000e+00	72
## 21861	0	2.598881e-01	48
## 115432	0	9.076186e-01	50
## 104033	0	7.347742e-02	61
## 17860	0	6.374681e-02	63
## 72388	0	0.000000e+00	32
## 18887	0	4.430847e-02	65
## 78980	0	7.032763e-03	62
## 125591	0	0.000000e+00	62
## 144770	0	0.000000e+00	26
## 19078	0	0.000000e+00	33
## 2499	0	8.666380e-04	83

## 100937	0	2.977107e-01	63
## 1552	0	3.130934e-01	57
## 79091	0	3.273115e-02	58
## 30878	0	9.999999e-01	31
## 74084	0	2.774406e-03	77
## 4829	0	0.000000e+00	69
## 38781	0	2.908091e-02	64
## 138533	0	4.557341e-01	50
## 106467	0	5.647621e-02	74
## 114813	0	9.999999e-01	30
## 6750	0	3.111805e-01	56
## 125435	0	5.715945e-02	91
## 130898	0	1.251025e-01	69
## 68111	0	1.125591e-01	52
## 91274	0	2.839166e-01	26
## 108179	0	0.000000e+00	39
## 19542	0	4.650156e-01	41
## 12564	0	5.003506e-01	70
## 76809	0	1.555289e-01	49
## 10058	0	9.866535e-03	53
## 76262	0	2.828302e-01	26
## 124354	0	1.822041e-01	71
## 132122	0	2.480730e-01	47
## 103078	0	3.103461e-02	80
## 148667	0	9.660057e-01	59
## 40353	0	6.492565e-03	86
## 37570	0	7.555035e-01	33
## 119499	0	7.509499e-01	38
## 138016	0	9.604386e-02	49
## 98116	0	6.489783e-02	61
## 11958	0	9.999999e-01	41
## 6374	0	0.000000e+00	36
## 115056	0	1.756727e-03	72
## 99567	0	0.000000e+00	54
## 92451	0	4.879805e-03	53
## 81013	0	7.862055e-02	76
## 61358	0	1.678626e-01	50
## 4276	0	6.957750e-01	50
## 79022	0	6.520518e-02	49
## 125547	0	0.000000e+00	41
## 20489	0	8.697984e-01	52
## 43186	0	6.134507e-01	46
## 52732	0	2.691892e-02	37
## 109230	0	3.231569e-01	60
## 135033	0	1.450579e-02	78
## 62749	0	2.062974e-01	63
## 122225	0	7.621450e-04	78
## 19209	0	7.395994e-02	57
## 53382	0	5.899607e-02	70
## 106272	0	2.299864e-01	63
## 79468	0	4.382983e-01	55
## 46444	0	1.152229e-02	34
## 64191	0	5.916056e-01	46
## 146049	0	0.000000e+00	30

## 82114	0	2.834111e-02	46
## 7796	0	0.000000e+00	49
## 39915	0	5.121840e-01	66
## 99359	0	9.736106e-01	33
## 83912	0	9.999999e-01	35
## 6056	0	0.000000e+00	24
## 134364	0	4.140175e-02	37
## 104825	0	1.837438e-01	58
## 72569	0	8.997800e-01	56
## 110041	0	4.087104e-02	46
## 117588	0	4.401451e-02	55
## 130078	0	3.305460e-01	45
## 3308	0	4.411387e-01	46
## 5881	0	9.346026e-01	41
## 101426	0	4.235888e-01	82
## 88810	0	0.000000e+00	36
## 120150	0	2.459508e-02	42
## 92694	0	0.000000e+00	35
## 86750	0	1.470474e-01	56
## 112330	0	1.344821e-01	59
## 49286	0	5.741703e-01	28
## 30295	0	0.000000e+00	47
## 67827	0	9.365236e-01	44
## 12424	0	9.999999e-01	28
## 30635	0	9.999999e-01	28
## 24988	0	1.389085e-01	27
## 89915	0	2.854898e-01	60
## 18234	0	4.406289e-02	59
## 78502	0	4.718114e-03	56
## 110480	0	5.205576e-02	37
## 73303	0	9.374531e-02	47
## 18715	0	0.000000e+00	42
## 120286	0	1.918621e-02	31
## 4270	0	5.994006e-02	23
## 90716	0	9.009199e-01	38
## 31277	0	1.975848e-01	48
## 131724	0	7.703368e-01	48
## 47622	0	1.538853e-01	35
## 7940	0	1.064565e-01	48
## 3779	0	5.796136e-02	23
## 87547	0	3.842521e-02	76
## 29971	0	0.000000e+00	61
## 109760	0	9.518096e-02	58
## 19350	0	2.095470e-02	60
## 134571	0	3.213154e-01	60
## 25991	0	5.033614e-03	88
## 37687	0	2.104287e-02	67
## 134951	0	6.927208e-01	56
## 22979	0	2.109720e-01	63
## 122583	0	7.153296e-03	64
## 25628	0	2.642710e-01	57
## 2259	0	3.260446e-02	66
## 140855	0	4.320242e-01	74
## 102182	0	4.892232e-03	55

## 9835	0	3.582102e-02	75
## 28460	0	1.312104e-01	79
## 64828	0	1.823974e-01	65
## 102836	0	2.301730e-02	63
## 83942	0	6.977616e-01	40
## 39893	0	3.977557e-02	45
## 145905	0	1.350509e-01	27
## 149047	0	0.000000e+00	30
## 59580	0	4.465738e-01	41
## 123210	0	4.776721e-01	31
## 22023	0	2.142817e-02	35
## 25241	0	5.460199e-01	48
## 27705	0	3.580026e-03	40
## 74857	0	5.011175e-02	58
## 45131	0	6.408030e-02	55
## 27185	0	9.028194e-01	29
## 46345	0	9.999999e-01	24
## 76294	0	1.517639e-01	45
## 40481	0	9.479192e-03	56
## 117333	0	1.389931e-02	53
## 147891	0	5.999747e-02	63
## 20878	0	7.702065e-01	49
## 119574	0	1.655323e-02	69
## 132906	0	5.896388e-02	81
## 144147	0	1.582086e-02	72
## 109238	0	1.384541e-01	42
## 88606	0	4.780725e-02	59
## 53640	0	4.080672e-03	56
## 20382	0	0.000000e+00	33
## 49200	0	7.098382e-01	45
## 19203	0	8.236576e-02	58
## 3697	0	2.026121e-01	43
## 115017	0	7.440250e-04	62
## 138718	0	5.500792e-01	48
## 19133	0	7.575470e-02	42
## 7050	0	5.293882e-01	33
## 109528	0	1.060646e+00	39
## 67678	0	3.209467e-01	59
## 57938	0	1.599360e-01	30
## 83126	0	9.445866e-02	49
## 35217	0	9.498607e-02	33
## 46638	0	6.917147e-01	41
## 116233	0	6.415586e-02	36
## 110549	0	0.000000e+00	27
## 52286	0	1.401568e-01	42
## 11580	0	7.786680e-01	56
## 105401	0	2.171589e-01	42
## 100401	0	9.307611e-02	36
## 63967	0	2.934366e-02	52
## 73603	0	2.853991e-02	76
## 138842	0	5.166526e-01	33
## 45505	0	2.902323e-01	75
## 111731	0	5.585055e-02	53
## 31373	0	9.482072e-01	44

## 13301	0	1.545742e-01	47
## 3219	0	1.584196e-02	85
## 39001	0	6.945894e-02	54
## 145576	0	9.999999e-01	30
## 126912	0	6.500265e-01	45
## 111136	0	1.867357e-02	47
## 40888	0	7.148228e-01	40
## 52103	0	7.248271e-01	23
## 9319	0	3.887827e-02	53
## 141075	0	8.716228e-02	52
## 80860	0	7.386033e-01	40
## 132264	0	4.745905e-02	78
## 73850	0	8.706911e-01	46
## 140439	0	7.503358e-01	47
## 143924	0	8.035581e-02	33
## 29827	0	2.880936e-02	88
## 40561	0	1.488415e-01	54
## 73167	0	0.000000e+00	46
## 102892	0	2.277302e-02	64
## 37610	0	0.000000e+00	71
## 122238	0	4.655379e-01	27
## 8836	0	3.670657e-02	48
## 18042	0	9.278144e-02	50
## 38810	0	2.417181e-02	46
## 110738	0	0.000000e+00	27
## 125818	0	2.590172e-01	62
## 146585	0	6.562485e-02	48
## 84456	0	1.076835e-01	23
## 20665	0	9.999999e-01	25
## 97755	0	6.254657e-02	55
## 63136	0	1.047973e-01	54
## 23843	0	2.851603e-02	70
## 136491	0	1.680871e-01	39
## 32176	0	1.977356e-02	49
## 83767	0	1.434023e-01	50
## 49119	0	3.980002e-01	59
## 45552	0	1.347015e-01	50
## 57166	0	0.000000e+00	42
## 60465	0	9.999999e-01	23
## 141213	0	1.025685e-02	92
## 145631	0	1.995594e-01	48
## 142511	0	8.673066e-01	73
## 11861	0	2.237620e-01	77
## 52209	0	3.294537e-01	62
## 147588	0	1.907406e-02	70
## 125921	0	2.867294e-01	47
## 133480	0	3.669714e-01	62
## 36557	0	2.413640e-01	58
## 61731	0	6.563437e-01	23
## 110678	0	3.857079e-01	57
## 82919	0	1.630157e-01	48
## 86587	0	6.420951e-02	57
## 100103	0	3.832235e-02	45
## 105662	0	9.684126e-01	28

## 25203	0	7.601067e-01	36
## 30	0	3.929946e-01	58
## 51679	0	0.000000e+00	29
## 19161	0	0.000000e+00	50
## 5823	0	1.382104e-01	26
## 134419	0	1.299590e-01	50
## 36095	0	9.999999e-01	68
## 104015	0	3.892592e-01	29
## 128011	0	9.999999e-01	74
## 65911	0	9.999999e-01	30
## 62726	0	2.543110e-01	39
## 1458	0	6.731895e-01	35
## 36320	0	7.357859e-02	58
## 87739	0	6.337104e-02	75
## 47328	0	2.901420e-01	61
## 9641	0	1.415818e-01	60
## 92625	0	2.842500e-01	43
## 91093	0	1.458755e-02	35
## 58609	0	3.888635e-02	26
## 34600	0	2.666630e-04	53
## 90354	0	3.577092e-02	61
## 64254	0	3.480273e-02	65
## 107474	0	2.045374e-01	46
## 137390	0	3.464357e-01	27
## 48646	0	6.508035e-02	61
## 26090	0	9.437492e-01	59
## 8226	0	8.427144e-01	27
## 23273	0	4.286132e-01	50
## 80140	0	9.999999e-01	56
## 52922	0	0.000000e+00	61
## 81278	0	4.091059e-01	34
## 132895	0	2.385043e-02	80
## 73898	0	6.835470e-02	64
## 46745	0	1.014663e+00	48
## 27756	0	1.037523e-01	53
## 80940	0	8.721277e-02	48
## 100868	0	3.610319e-01	38
## 13836	0	2.116319e-02	64
## 46930	0	5.345972e-01	78
## 16560	0	7.198691e-02	31
## 122308	0	1.175901e-01	53
## 140576	0	8.089048e-02	42
## 143935	0	8.280991e-03	51
## 141918	0	9.296836e-01	32
## 133766	0	9.849074e-03	37
## 88974	0	4.489551e-01	31
## 40730	0	6.831752e-01	61
## 123055	0	0.000000e+00	70
## 21021	0	8.805710e-02	43
## 25100	0	1.052705e-01	49
## 22872	0	7.875918e-01	71
## 96186	0	7.083065e-03	45
## 98415	0	9.762048e-01	37
## 90628	0	4.175608e-01	62

## 90955	0	2.336856e-01	53
## 95241	0	2.672300e-02	57
## 143869	0	8.146412e-01	61
## 82309	0	1.615033e-01	63
## 135332	0	9.999999e-01	34
## 135604	0	4.311914e-02	50
## 108025	0	1.812047e-01	67
## 59663	0	7.903359e-02	57
## 18515	0	4.349539e-02	34
## 105826	0	8.828394e-01	56
## 36951	0	1.824772e-01	58
## 109217	0	5.744106e-02	33
## 136086	0	8.834117e-01	29
## 67230	0	2.459629e-02	32
## 62333	0	7.752450e-01	49
## 116892	0	0.000000e+00	48
## 15338	0	8.762229e-01	39
## 83532	0	4.976121e-02	70
## 29163	0	4.883180e-01	29
## 46098	0	0.000000e+00	54
## 130025	0	4.614555e-01	52
## 99372	0	8.832965e-02	79
## 29495	0	4.173329e-03	64
## 109393	0	0.000000e+00	47
## 66566	0	1.078306e-01	36
## 46646	0	4.729572e-01	59
## 134901	0	6.552980e-01	48
## 2735	0	1.418918e-02	81
## 105575	0	2.460157e-02	61
## 47892	0	3.261338e-03	60
## 20319	0	1.060017e-01	47
## 137379	0	9.364028e-02	69
## 31844	0	7.668545e-02	66
## 97788	0	2.172891e-01	37
## 95220	0	6.307983e-01	33
## 107340	0	6.261748e-01	38
## 49243	0	3.832515e-01	27
## 140283	0	5.112928e-01	41
## 132347	0	1.173983e-01	45
## 42100	0	9.872188e-01	43
## 124542	0	9.999999e-01	27
## 142307	0	6.101921e-02	68
## 635	0	5.788785e-02	56
## 20979	0	1.334455e-01	50
## 57693	0	9.982250e-02	38
## 116691	0	7.044410e-02	54
## 18243	0	0.000000e+00	28
## 37733	0	7.441841e-01	53
## 104707	0	5.895711e-03	29
## 44576	0	1.660900e-02	66
## 402	0	2.556199e-03	58
## 129316	0	2.282723e-01	41
## 11196	0	0.000000e+00	30
## 23560	0	9.966674e-01	41

##	134411	0	6.826347e-01	36
##	2748	0	2.389662e-02	53
##	47204	0	1.224270e+00	57
##	100517	0	2.094453e+00	35
##	78135	0	3.169417e-01	38
##	76402	0	3.051626e-01	49
##	119579	0	2.112173e-02	36
##	40958	0	9.999999e-01	27
##	59428	0	2.423283e-01	62
##	45824	0	9.360800e-02	26
##	122220	0	1.562346e-01	51
##	48164	0	7.620890e-01	40
##	92733	0	9.999999e-01	64
##	30824	0	0.000000e+00	25
##	144809	0	6.150404e-01	39
##	57762	0	2.455698e-02	40
##	43015	0	5.689154e-01	66
##	134399	0	1.769495e-01	61
##	135324	0	4.278868e-01	58
##	106944	0	1.625147e-01	39
##	35877	0	2.633114e-02	43
##	79673	0	9.647111e-01	24
##	75068	0	4.321523e-01	35
##	96021	0	1.031802e-02	51
##	36087	0	9.999999e-01	32
##	20163	0	4.575556e-02	53
##	97068	0	9.999999e-01	63
##	78088	0	2.250059e-02	71
##	49928	0	2.688077e-02	72
##	140255	0	2.824629e-02	41
##	44922	0	0.000000e+00	37
##	110621	0	2.850636e-03	65
##	122490	0	4.484240e-01	33
##	31165	0	1.658574e-02	38
##	145684	0	9.865564e-01	27
##	113131	0	9.129789e-01	43
##	110014	0	2.133152e-01	30
##	147310	0	4.187906e-01	25
##	1848	0	5.193027e-01	40
##	144224	0	9.999999e-01	25
##	108903	0	1.994786e-01	71
##	45642	0	1.060743e+00	74
##	94594	0	2.551442e-01	58
##	81187	0	6.988264e-02	53
##	78075	0	0.000000e+00	50
##	107718	0	1.190419e-02	55
##	123180	0	1.247236e-01	64
##	91698	0	5.389446e-02	51
##	NumberOfTime30.59DaysPastDueNotWorse			DebtRatio MonthlyIncome
##	35580	0	4.228743e-01	7973
##	46953	0	6.090246e-01	3700
##	52453	0	2.183726e-01	5050
##	24027	0	1.187000e+03	0
##	1521	0	5.638525e-01	3280

## 61774	0 4.754493e-01	6231
## 57130	0 1.806534e-01	3121
## 80283	0 1.490232e-01	2200
## 145496	1 5.097047e-01	8500
## 46162	0 5.558667e-01	7499
## 19398	0 2.672475e-01	7000
## 88300	1 4.725877e-01	2735
## 7429	2 7.402568e-01	4438
## 42092	0 3.796664e-01	1258
## 105437	0 2.198534e-02	1500
## 15786	0 2.127220e-02	4841
## 146690	0 1.460927e-01	6666
## 140730	0 2.857662e-01	5500
## 46821	0 3.098340e-01	3914
## 58102	0 3.244189e-01	4000
## 137929	0 7.495001e-01	5500
## 64582	1 4.998750e-04	4000
## 42318	0 2.234628e-01	6000
## 52970	0 1.533731e-01	5365
## 12848	0 4.926241e-01	4812
## 47977	0 1.355521e-01	7000
## 76624	0 4.794082e-01	2500
## 68296	0 8.523182e-01	6750
## 59573	0 1.369090e-01	4250
## 25961	3 3.771679e-01	5246
## 67477	0 3.510794e-01	5465
## 120588	0 2.845994e-01	8200
## 14289	0 3.287343e-01	5000
## 131394	0 3.250000e+02	1
## 108140	0 1.277000e+03	0
## 45005	0 2.564846e-01	6900
## 21012	0 1.991260e-01	6864
## 149334	0 4.477995e-01	5066
## 48644	0 5.367976e-01	7812
## 18405	0 1.186459e+00	900
## 62018	0 1.326076e-01	4041
## 134377	1 2.946955e-02	7125
## 59971	0 2.396645e-03	1668
## 16834	0 4.895105e-02	1000
## 24349	0 2.885382e-01	6019
## 65634	0 3.665948e-02	5100
## 132439	0 3.912444e-02	5801
## 129102	2 1.404775e-01	1800
## 84842	0 5.371531e-03	2233
## 25367	1 4.681535e-01	4662
## 69526	0 1.669449e-02	4791
## 127629	0 7.836198e-02	3955
## 130867	0 1.028345e-01	4550
## 53803	0 6.764645e-01	4796
## 140520	0 1.025823e+00	2400
## 8598	0 4.361520e-01	5841
## 22097	0 1.764706e-01	900
## 41262	0 6.902899e-02	2172
## 128569	0 1.102696e+00	6416

## 65612	0 5.268414e-01	800
## 12510	0 3.567423e-01	4100
## 59602	0 3.489302e-01	5000
## 123838	0 0.000000e+00	1800
## 91758	0 3.548258e-01	7490
## 43316	0 3.002991e-01	7355
## 46064	0 1.333333e-01	3569
## 103290	0 1.265963e-01	1800
## 106964	0 8.198360e-01	5000
## 64264	0 1.881412e+00	1500
## 136198	0 2.896406e-01	2837
## 104056	0 9.260000e+02	0
## 82370	0 1.157691e-01	3100
## 100651	0 9.256085e-03	5833
## 100839	0 1.055276e-01	3780
## 22793	0 5.170615e-01	4600
## 146335	0 3.811309e-02	3200
## 58469	0 6.726050e-02	5500
## 63622	0 2.678937e-01	4400
## 50792	0 3.789365e-01	1936
## 20230	0 1.892702e-01	3000
## 35691	0 5.117704e-01	3100
## 145813	0 2.089615e-01	2387
## 60388	0 1.799486e-01	3500
## 38157	0 1.667474e+00	1650
## 83580	0 0.000000e+00	6816
## 81508	0 2.712572e-02	5750
## 14108	0 2.817385e-01	5820
## 86628	0 2.827051e-01	1803
## 60348	1 1.596665e-01	3237
## 13906	0 2.939922e-01	5625
## 30467	0 2.795899e-02	3218
## 135337	0 2.614897e-01	4416
## 90586	0 5.610234e-01	8168
## 15862	1 2.239468e-01	7666
## 145689	0 2.944000e+03	0
## 69899	0 1.997499e-01	5596
## 110190	0 6.498375e-03	4000
## 101006	1 4.097650e-01	6000
## 117549	0 1.202932e-01	3000
## 25395	0 1.909727e-01	7000
## 13715	0 6.080247e-01	5831
## 63920	0 7.483576e-02	3500
## 35383	0 6.922504e-01	1341
## 39419	0 1.841632e-01	5000
## 104925	0 0.000000e+00	1855
## 2005	0 3.935901e-01	6333
## 91013	0 2.436054e-03	820
## 106956	0 4.945055e-03	1819
## 116549	0 1.888539e-01	5400
## 136746	0 5.299352e-01	7866
## 96796	0 2.277904e-03	7462
## 30629	0 3.468844e-01	3000
## 73382	0 2.483261e-01	8512

## 90238	0 2.968700e-01	3098
## 125086	0 9.839213e-03	4166
## 1277	0 8.018730e-02	6833
## 26226	0 5.440212e-01	7166
## 20789	0 3.682461e-01	4811
## 6967	0 9.169909e-01	3083
## 3139	0 2.449772e-01	4379
## 136776	0 2.070935e-02	4200
## 77752	1 4.875025e-01	5000
## 95117	2 4.132081e-01	3300
## 3710	0 2.439187e-01	3000
## 83449	0 6.110740e-02	7494
## 97425	0 4.898844e-01	3459
## 148776	0 7.116056e-01	4583
## 99915	0 1.286570e-01	5844
## 36781	0 8.619148e-01	4250
## 10537	1 4.005538e-01	6500
## 67045	1 1.695804e-01	2859
## 71089	0 9.383590e-01	2400
## 54096	1 6.845878e-02	8369
## 99962	0 3.475637e-01	4473
## 61211	0 2.861322e-01	7520
## 30218	0 3.662207e-01	5381
## 52036	0 0.000000e+00	1950
## 10089	0 6.654539e-01	6046
## 39129	0 1.836340e-02	3103
## 11238	0 4.454770e-01	8500
## 140972	0 4.102120e-01	7500
## 146581	4 5.340838e-01	6395
## 128262	0 4.168659e-01	4600
## 149596	0 4.005999e-01	6000
## 5168	0 6.604420e-01	8460
## 142800	1 2.407075e-01	3900
## 109385	0 2.787709e+00	2326
## 11779	0 4.750000e-02	8399
## 4169	0 4.090673e-01	7697
## 87546	0 4.092145e-01	6250
## 105612	0 1.627674e-01	5000
## 40172	1 1.524390e-02	3279
## 97179	0 4.571086e-01	5000
## 72936	0 5.880252e-02	8400
## 140856	1 2.969314e-01	4431
## 95437	0 6.117059e-01	1400
## 59486	0 1.850147e-01	7166
## 90546	0 1.096548e-01	5416
## 41040	0 7.670708e-01	4700
## 102471	0 1.169026e+00	1200
## 68699	0 1.704320e-02	5045
## 99513	0 5.802708e-01	3618
## 124044	0 6.288571e-01	5800
## 31164	0 2.003783e-01	7400
## 53572	0 1.057692e-02	5199
## 127885	0 2.203709e-01	3720
## 124506	1 6.506492e-02	6700

## 79691	0 4.817645e-01	2878
## 81492	0 4.474708e-01	3083
## 103067	0 7.550645e-02	3800
## 42238	0 1.149713e-02	4000
## 64952	0 5.840258e-02	4331
## 44757	0 2.254790e-04	4434
## 104418	0 2.999760e-03	8333
## 81694	0 4.319280e-01	6000
## 79257	1 2.877102e-01	3864
## 82074	0 3.422205e-01	5250
## 49638	0 8.143642e-02	5095
## 80741	0 5.757104e-01	2568
## 115809	0 2.814120e-01	4050
## 96165	0 5.123147e+00	876
## 17253	0 2.106332e-01	5416
## 108834	0 3.288067e-01	6921
## 85185	0 2.567584e-02	8100
## 3310	1 4.028327e-01	4800
## 74657	0 2.876187e-01	6000
## 31402	0 1.047449e+00	4488
## 4124	0 2.199732e-01	8200
## 24356	0 6.314779e-01	4688
## 122869	1 2.719094e-01	3000
## 31798	0 2.913543e-01	2000
## 19618	0 5.359300e-01	4800
## 92874	0 4.017645e-01	7140
## 69078	0 7.008153e-01	6500
## 64331	0 1.207117e+00	2500
## 18632	0 5.276859e-01	7259
## 120866	0 2.531160e-01	8343
## 29466	0 4.416194e-01	4050
## 58537	0 6.156280e-01	3160
## 6639	1 2.641914e-01	2800
## 82040	0 3.026564e-01	5834
## 91052	0 0.000000e+00	2375
## 13759	0 1.917415e-01	8354
## 72625	0 1.120367e-01	2400
## 73541	0 2.788290e-01	2800
## 104924	0 8.083387e-02	4700
## 63784	0 3.437760e-01	6000
## 106701	0 2.595680e-01	7916
## 140150	0 4.663212e-02	7333
## 18796	0 3.519014e-01	5600
## 41852	0 6.625514e-01	1700
## 85465	0 8.524788e-02	4961
## 51519	0 2.978003e-01	6500
## 2879	0 4.665112e-03	3000
## 98506	0 7.831603e-01	2600
## 33754	0 2.597481e-01	5000
## 61219	0 1.354889e+00	3200
## 126327	3 4.109047e-01	5813
## 17503	0 7.515463e-02	8568
## 70778	0 9.425878e-02	3500
## 109741	0 5.071313e-01	6800

## 143027	3	2.097238e-01	8000
## 12497	5	2.713798e-01	8500
## 87836	0	4.671090e-01	7083
## 61532	1	4.226628e-01	5850
## 4278	1	3.803742e-01	7000
## 117571	0	0.000000e+00	1177
## 98762	0	3.029507e-01	8370
## 131682	0	3.298337e-01	7333
## 126181	0	2.202228e-01	3500
## 10778	0	3.918630e-01	1400
## 143293	0	6.074696e-01	6666
## 4666	0	2.857429e-01	5000
## 6631	0	9.713232e-01	8403
## 20940	0	3.013968e-01	5583
## 57355	0	9.764838e-01	6250
## 8380	1	6.963407e-01	8334
## 34667	0	1.475289e-03	4066
## 63550	0	7.111746e-01	2800
## 25058	0	5.884033e-02	3500
## 35869	0	3.229578e-01	6842
## 53291	0	0.000000e+00	4720
## 106189	0	1.917585e-01	2450
## 104325	0	1.345275e-01	5470
## 63167	0	1.403844e-01	7856
## 64112	0	2.193071e-01	2972
## 145282	0	2.456267e-01	6916
## 144139	0	6.627723e-01	3166
## 52631	0	3.447571e-01	4405
## 131645	0	4.559971e-01	5510
## 75053	0	5.388614e-01	4039
## 21321	0	5.004807e-01	5200
## 74091	0	8.928777e-01	5208
## 110825	0	4.035446e-01	4400
## 33270	0	3.264657e-01	6600
## 62172	1	4.472771e-01	7491
## 149500	0	2.900518e-01	5598
## 47860	0	6.408202e-03	3120
## 32217	0	4.033748e-01	8118
## 4594	0	3.986973e-01	2916
## 97023	0	9.358400e-01	3350
## 45501	0	5.118060e-01	4700
## 19970	0	2.601926e-01	7578
## 145012	0	3.488694e-01	6500
## 46570	0	2.692913e-01	1269
## 57788	0	2.682165e-01	8000
## 61960	0	1.322150e-01	3516
## 4370	0	2.436145e-01	4658
## 65064	0	7.721393e+00	200
## 22525	0	3.027179e-01	3200
## 16184	0	1.630761e-01	3666
## 20937	0	1.614081e-01	6845
## 122894	0	0.000000e+00	5000
## 9809	1	5.436820e-01	8000
## 121191	0	5.454294e-01	3620

## 64812	0	2.645868e-01	6666
## 91455	1	3.188406e-01	4001
## 40971	0	6.372292e-01	4200
## 116730	0	1.919651e-01	5500
## 50615	0	0.000000e+00	5172
## 114321	1	1.477704e-01	5000
## 27566	0	4.845989e-01	5583
## 109724	0	6.407606e-01	5416
## 5152	0	1.124297e-02	1600
## 27654	2	1.616541e-01	5053
## 116889	1	5.335933e-01	3333
## 134404	0	1.664584e-01	4000
## 4339	0	2.695698e-01	7600
## 101093	0	1.775290e-01	2500
## 54408	0	2.715457e-01	5000
## 11299	0	2.298851e-01	2000
## 129191	0	5.854163e-01	5800
## 143777	0	6.562111e-01	4016
## 92858	0	3.106098e-01	4033
## 77353	0	4.994858e-01	2916
## 74228	0	2.431307e-01	1200
## 98536	0	8.257279e-03	2300
## 104905	0	1.316447e-01	6000
## 138162	1	2.862039e-01	3500
## 68447	0	4.911015e-01	2078
## 51945	0	1.103041e+00	1775
## 45921	0	1.320755e-01	6200
## 23368	0	2.653414e-01	2313
## 138970	0	2.033554e-03	5900
## 92313	0	2.560976e-01	5083
## 112928	0	3.101572e-01	6615
## 84234	0	1.211515e-01	2500
## 120859	0	1.262275e+00	1669
## 93196	0	3.274510e-01	4079
## 117555	0	1.586916e-01	7000
## 66177	0	2.179431e-01	6854
## 84130	0	2.845403e-01	5840
## 100068	0	4.292614e-01	4968
## 104257	0	1.121146e-01	7750
## 134829	0	6.170886e-02	3791
## 28669	1	6.814936e-02	4900
## 148998	0	1.023973e-02	8300
## 135065	0	5.793991e-02	5125
## 89160	0	1.945213e-01	6862
## 8657	0	8.495752e-03	2000
## 72090	1	8.586850e-01	4075
## 106658	0	3.979534e-03	1758
## 44760	0	1.244689e-01	4000
## 60424	0	4.738410e-01	5370
## 11244	0	2.779754e-01	6183
## 95715	0	4.276402e-01	2300
## 76958	0	2.911023e-01	5832
## 51967	0	1.814583e-01	3030
## 104563	0	3.136247e-01	5834

## 78279	0 3.778311e-01	6666
## 78598	0 8.995048e-01	3432
## 69283	1 3.837694e-01	6000
## 74049	1 5.648870e-01	5000
## 39838	0 2.569679e-01	8000
## 97071	0 3.948839e-01	3400
## 83305	1 3.796931e-01	6125
## 144977	0 3.832822e-01	7500
## 92989	0 2.179728e-01	8000
## 99481	0 9.716759e-02	5083
## 74800	0 1.109350e-01	4416
## 134488	0 1.612407e-01	3900
## 126335	0 1.294709e-01	5367
## 136017	0 5.828852e-01	4276
## 20434	0 6.465409e-01	4769
## 10264	0 3.816645e-01	4613
## 59691	1 0.000000e+00	3003
## 63767	0 2.616270e-01	6084
## 113541	0 1.127910e-02	4166
## 125563	0 5.327738e-01	5003
## 106855	0 9.146083e-01	2833
## 24259	0 5.064978e-01	3000
## 90767	0 4.039983e-02	2400
## 36206	0 4.629945e-01	4701
## 90933	0 6.337104e-01	4419
## 104320	0 2.660885e-01	5764
## 25479	0 8.285857e-01	2000
## 87144	0 4.838710e-01	2200
## 38378	0 3.768344e-01	1907
## 10395	0 4.224472e-02	8000
## 64287	0 4.240667e-01	2758
## 136625	0 2.871287e-01	3433
## 79983	0 2.256281e-01	1989
## 108015	1 2.078091e-01	2304
## 71640	0 7.460414e-02	3283
## 85674	0 1.272342e-02	3300
## 94329	0 0.000000e+00	2283
## 35001	0 4.476777e-03	5360
## 121349	0 1.156435e-01	7427
## 9455	1 8.103837e-01	3100
## 13528	0 9.271137e-01	2400
## 104103	0 1.256248e-01	3000
## 104410	0 6.046653e-01	3300
## 50632	1 5.404472e-01	5500
## 74861	0 1.719312e-01	2500
## 127017	0 4.410632e-01	5454
## 146988	2 8.918334e-02	7848
## 124162	0 6.223594e-01	7289
## 133253	0 6.627786e-01	4800
## 65645	0 3.006000e+03	0
## 45709	0 2.173466e-01	5833
## 124132	0 6.755469e-01	5667
## 117188	0 3.422072e-01	8000
## 39089	0 2.002777e-01	2880

## 21045	1	2.887048e-01	6639
## 11665	0	6.940000e+02	0
## 9929	0	4.189748e-01	3140
## 52571	4	1.872606e+00	1200
## 109562	0	4.663558e-03	1500
## 99686	0	6.238088e-01	6400
## 111235	0	4.039151e-01	6691
## 28706	0	1.321356e-01	3450
## 11510	0	2.839037e-01	7100
## 96222	0	3.865808e-01	4500
## 62050	0	4.123437e-02	3758
## 137883	1	2.099029e-01	8441
## 72999	0	5.423874e-01	8150
## 22617	0	7.579129e-01	6381
## 7341	0	2.678675e-01	6883
## 7545	0	9.020784e-02	4666
## 12991	0	8.548581e-01	2500
## 27629	0	3.803696e-01	8333
## 112822	3	9.102724e-01	4000
## 25925	0	6.134838e-01	7000
## 47502	1	4.023991e-01	2750
## 131130	0	1.195607e-01	4825
## 134894	0	4.196057e-01	3600
## 35937	0	6.645376e-01	3600
## 27545	0	6.243775e-01	4216
## 119348	0	5.865209e-01	2195
## 131072	0	4.156053e-01	7458
## 59435	0	9.866196e-02	6800
## 9470	0	5.606170e-01	6936
## 110850	0	6.649169e-02	8000
## 68109	0	8.417784e-01	4025
## 33711	0	4.481977e-01	4410
## 99795	0	1.542467e-01	3072
## 60474	2	2.475007e-01	3700
## 21909	0	3.834466e-01	2500
## 10283	3	4.023845e-01	6038
## 98503	0	5.339690e-01	5872
## 106397	0	9.029345e-03	3100
## 62023	1	6.486718e-01	3500
## 148160	4	4.309054e-01	2937
## 73624	0	9.596162e-03	2500
## 21508	1	7.801418e-02	8600
## 88829	0	8.393945e-01	5416
## 29128	0	1.139241e-01	1500
## 47462	0	2.707835e-01	7529
## 2649	0	0.000000e+00	8500
## 5110	0	1.175433e-03	6805
## 12160	0	4.596351e-01	4000
## 80987	0	0.000000e+00	3366
## 66345	1	3.302478e-01	3348
## 94722	0	4.065528e-01	2166
## 56156	0	4.654046e-01	7500
## 38733	0	1.042708e+00	7000
## 89830	0	3.182527e-01	6409

## 2754	0 1.474264e-01	4720
## 124565	0 5.445688e-01	4823
## 89894	2 2.921747e-01	4510
## 36477	1 1.122195e-01	400
## 8118	0 1.071046e-01	2800
## 96294	0 8.781613e-01	5416
## 101364	0 4.893794e-01	2400
## 95705	0 6.641930e-01	4850
## 43697	1 7.048238e-02	4000
## 144045	0 2.964629e-01	8000
## 21457	0 3.281053e-01	7140
## 81097	0 4.250122e-02	2046
## 42269	0 4.603942e-01	2688
## 147214	0 2.448090e-01	3900
## 117393	0 3.500000e+01	0
## 22992	0 6.123469e-02	4000
## 16678	0 3.328999e-01	1537
## 59243	0 8.088033e-02	3634
## 53349	0 1.602239e-01	3750
## 112348	0 2.017497e-01	5600
## 11230	0 3.482496e-01	7083
## 144130	1 2.390544e-01	6006
## 28933	0 3.998001e-03	2000
## 97382	0 5.763257e-01	5600
## 128678	0 1.183285e-01	2416
## 112572	0 4.258510e-01	4200
## 89732	0 3.642126e-01	2050
## 53639	0 1.396002e+00	2600
## 59455	0 9.373236e-02	3541
## 53591	0 1.328240e-01	3402
## 132229	2 6.441779e-01	2000
## 31170	0 3.615040e-01	5584
## 119046	2 2.592712e-01	3100
## 138338	1 3.812204e-01	7816
## 115461	0 4.597327e-01	5835
## 103047	2 3.270486e-01	5515
## 143135	0 1.301944e-02	5606
## 71667	0 1.849076e-02	2000
## 63070	0 9.307135e-03	2900
## 88587	0 5.545431e-02	3840
## 119923	0 5.633803e-02	2200
## 63202	0 4.560811e-01	7103
## 81071	0 7.517842e-01	7005
## 89459	0 8.623853e-01	1852
## 20991	0 7.123887e-02	6400
## 139942	0 1.557086e+00	2250
## 85880	0 8.569898e-03	5600
## 132581	0 5.207207e-01	3329
## 49724	0 4.447538e-01	7900
## 80517	0 3.331113e-03	1500
## 122487	1 0.000000e+00	2900
## 67935	0 4.989788e-01	7833
## 50539	0 2.886859e-01	1970
## 67154	0 5.011015e-01	5900

## 54813	0 7.332356e-02	7500
## 52658	0 1.512487e-01	5685
## 134119	0 4.452941e-01	6799
## 9443	0 2.734906e-01	2500
## 3747	0 5.423897e-01	2016
## 61376	0 9.373814e-01	1580
## 116305	0 2.199560e-02	5000
## 53879	2 2.538071e-02	6500
## 70324	0 1.506483e-01	4858
## 148548	0 6.947579e-01	7000
## 5829	0 6.882635e-01	4583
## 86013	1 1.933317e-01	8187
## 30709	0 8.963862e-02	7083
## 98712	0 2.502629e-01	950
## 104601	0 1.762107e-01	5884
## 66969	0 2.091318e-01	6000
## 74474	0 2.401934e-01	5582
## 1997	0 1.170336e-01	862
## 24862	0 8.049738e-02	4583
## 145047	0 5.705109e-01	3424
## 86885	0 8.067197e-01	5535
## 101024	0 2.165341e-01	2890
## 107100	0 5.941873e-01	5573
## 143930	0 2.020681e-01	2320
## 54026	0 3.756561e-01	4000
## 138837	0 6.129032e-02	929
## 61407	0 9.120000e+02	0
## 18017	1 6.526807e-01	8150
## 83752	0 1.843625e-01	2250
## 62959	0 1.463089e-01	6000
## 126215	0 4.919900e-01	5180
## 119773	0 2.712000e+03	0
## 137805	0 6.949072e-02	2100
## 60430	0 1.228407e+00	520
## 64532	0 8.110332e-01	3280
## 71462	0 2.662446e-01	3000
## 96433	0 2.302298e-01	7700
## 1083	0 9.052409e-02	5666
## 71858	1 3.530650e-01	3800
## 22615	0 1.876372e-01	2733
## 118791	0 6.209282e-01	7950
## 148356	0 8.246965e-01	3376
## 134595	0 2.199511e-02	4500
## 109914	0 1.640369e-01	6400
## 53297	0 0.000000e+00	4166
## 26210	0 6.113412e-02	7000
## 129243	0 2.191116e-01	7000
## 61974	0 3.544702e-01	3500
## 136157	1 2.817541e-02	4400
## 47223	0 4.631355e-01	6116
## 115057	0 3.362773e-01	6000
## 147399	0 2.190970e-01	1350
## 40322	1 2.162548e-01	7000
## 148901	0 5.540811e-01	5500

## 15311	0 2.350081e-02	3701
## 92644	0 4.513727e-02	4297
## 137193	0 3.591042e-01	3750
## 3614	0 3.103358e-01	7623
## 70104	0 4.292453e-01	2331
## 129752	0 3.614604e-01	6600
## 36373	0 6.109541e-01	2829
## 15108	0 5.122799e-01	4600
## 66502	2 3.635107e-01	5787
## 46092	0 1.508492e+00	1000
## 1162	0 3.488868e-01	7500
## 121057	0 9.721311e-01	3049
## 112232	0 5.630652e-01	4201
## 101382	0 1.649588e-02	4000
## 53325	3 1.732392e-01	6516
## 19470	0 9.170380e-02	5833
## 28449	0 3.830123e-01	6333
## 12069	0 5.062446e-01	8086
## 51864	0 1.702030e-01	2167
## 60061	0 3.743353e-01	2820
## 127849	0 1.999334e-03	3000
## 130581	0 9.561060e-03	2300
## 14389	0 9.060612e-02	4800
## 124485	0 2.795699e-02	929
## 125356	0 5.624792e-01	3000
## 134836	0 4.635073e-01	5000
## 32032	0 1.762840e+00	2900
## 135103	1 2.667809e-01	3500
## 2654	0 1.343785e-02	6250
## 129169	0 5.366252e-01	4900
## 28646	1 1.762637e-01	5400
## 51121	0 2.500619e-01	4038
## 130969	0 4.199417e-01	7200
## 71191	0 4.249007e-01	4280
## 148889	0 2.099475e-01	4000
## 31930	0 3.837864e-01	8350
## 9679	0 3.431085e-01	3750
## 47351	0 0.000000e+00	1220
## 119258	0 3.008159e-01	2818
## 10683	0 4.339258e-01	5175
## 148633	0 2.351812e-01	8333
## 23072	1 4.836092e-01	6283
## 138920	0 1.011625e+00	4300
## 133244	0 1.063611e-01	7765
## 90248	0 1.492515e+00	1335
## 99620	0 6.800000e+02	0
## 88565	0 2.435513e-01	5000
## 54306	0 4.760771e-03	8401
## 120321	0 9.131262e-02	6307
## 24733	0 3.911218e-01	5000
## 134002	0 2.395000e+03	0
## 66083	0 4.105298e-01	3000
## 12413	0 5.329949e-02	4333
## 25802	0 3.809598e-01	6375

## 33546	0 1.932930e-01	6440
## 28084	0 7.813938e-01	6083
## 11425	0 1.279302e+00	400
## 56159	0 5.867014e-02	2300
## 10250	0 1.220107e-01	8613
## 8726	0 2.570694e-03	3500
## 149398	0 8.008766e-01	3193
## 2305	0 6.427653e-03	7000
## 48036	0 4.570950e-01	7166
## 36433	0 3.818654e-01	8083
## 105217	0 1.419830e-01	7190
## 40487	0 6.079027e-03	6250
## 51759	0 1.101000e+03	0
## 106561	0 2.621653e-01	6945
## 34316	0 2.750145e-01	5166
## 99196	0 1.155658e+00	1740
## 124613	0 6.943714e-02	1900
## 71396	0 1.806713e-01	4200
## 47301	1 3.809456e-01	7000
## 132907	0 2.668606e-01	5500
## 28898	0 3.972474e-01	8500
## 107190	0 3.200840e-01	6666
## 42663	0 3.875405e-01	7415
## 58025	0 5.091683e-01	6816
## 98801	0 2.365140e-01	8100
## 48214	0 2.221840e-01	5814
## 85159	0 6.907098e-01	3465
## 122621	0 1.676511e-01	2200
## 143330	0 4.664275e-02	1950
## 136471	0 4.340132e-01	3333
## 126926	0 1.858429e-01	8108
## 130491	0 1.116161e-01	5500
## 98197	0 2.563770e-04	7800
## 29565	0 4.444172e-01	4083
## 142061	0 4.954761e-01	2320
## 18642	0 1.739768e-01	7500
## 102208	0 6.825135e-03	4248
## 18078	1 4.554171e-01	2085
## 95355	0 2.938236e-01	6200
## 128497	0 9.757674e-02	3094
## 96235	0 3.048499e-01	3030
## 102318	0 7.461140e-02	2894
## 146073	0 4.765565e-01	1300
## 89951	0 3.911729e-01	6615
## 59543	0 2.281930e-01	4000
## 102306	0 5.210981e-01	5900
## 22828	0 1.979340e-01	3000
## 88184	0 7.041547e-01	5583
## 3617	0 4.232884e-01	2000
## 40065	0 3.683928e-01	5580
## 104871	0 2.931291e-01	4700
## 77171	0 3.715596e-01	4359
## 87436	0 8.650833e-01	4083
## 129978	0 1.799600e-02	4500

## 24209	1	3.151712e-01	4000
## 50823	0	6.547465e-01	8500
## 141028	1	4.856699e-01	4500
## 36376	0	9.419750e-01	4566
## 25913	0	9.947513e-02	4000
## 15016	0	9.030801e-03	6200
## 64762	0	1.039792e-01	5000
## 80558	0	1.010128e+00	1875
## 36251	0	2.896947e-01	7500
## 93315	0	3.712052e-01	5500
## 64837	0	3.149466e-01	2247
## 133294	0	2.190421e+00	855
## 62229	0	8.525307e-01	4800
## 145483	0	5.962914e-02	8250
## 16305	0	4.563943e-01	2900
## 66022	2	4.021708e-01	3500
## 8831	0	6.596708e-01	2429
## 123674	0	2.609661e-02	1800
## 46467	0	8.685462e-01	2943
## 133562	0	6.810302e-01	8075
## 123327	0	1.996800e-01	6875
## 113680	0	2.426343e-02	1730
## 14862	0	8.541011e-01	5400
## 145677	0	6.775162e-01	4331
## 77433	0	4.461756e-01	4941
## 68576	2	7.486503e-01	3333
## 74867	0	5.093214e-01	4022
## 70891	0	1.921010e-01	8000
## 118510	1	5.689682e-02	6502
## 45378	0	2.074925e+00	1000
## 27615	0	2.235472e-01	6624
## 149996	0	2.251309e-01	2100
## 70399	0	5.121774e-01	2750
## 82599	0	4.483402e-01	7500
## 31692	0	7.076132e-01	7000
## 120241	0	3.766602e-01	6700
## 7002	0	9.102548e-02	7810
## 100364	0	6.154689e-01	8209
## 66472	0	1.762516e-01	7250
## 111519	0	2.382584e-01	4960
## 15406	0	2.181425e-01	8333
## 114428	0	5.443371e-01	3416
## 36219	0	7.422492e-01	6579
## 55478	0	5.970441e-01	4600
## 141238	0	3.195783e-01	5500
## 128824	0	6.047198e-01	2033
## 15767	0	4.818379e-01	3220
## 113715	0	4.161115e-01	6454
## 141058	0	4.492636e-01	7400
## 140718	1	2.901224e-01	5800
## 142591	1	2.628184e-01	3100
## 32810	2	4.375000e-01	2095
## 8482	0	7.847663e-01	3465
## 108855	0	1.551363e-01	6200

## 99140	0 4.225537e-01	6100
## 64709	1 6.858017e-02	8500
## 26521	0 7.205640e-01	6666
## 138556	0 4.640059e-01	4083
## 145777	0 3.453958e-01	3094
## 117626	0 3.889092e-01	2740
## 124319	0 4.815565e-01	7400
## 70663	0 3.364424e-01	1500
## 124772	0 1.126516e-01	4038
## 25733	0 9.356650e-01	3916
## 135692	1 4.039174e-01	5666
## 63689	0 8.241892e-02	4100
## 98481	0 1.561985e-01	4250
## 120495	0 2.757155e-01	8000
## 83656	0 4.598101e-01	4316
## 87843	0 3.129964e-01	2769
## 31136	0 6.846577e-02	2000
## 3105	0 2.692016e-01	6600
## 129557	0 7.763898e-01	1600
## 80285	0 2.032285e-01	8300
## 41093	0 4.768846e-01	2400
## 73633	0 4.512121e-01	3299
## 57680	0 0.000000e+00	8125
## 60529	0 1.009352e-01	3100
## 74599	1 2.420929e-01	2560
## 70931	0 5.152475e-01	6000
## 148678	0 9.197940e-03	5435
## 102743	0 1.485536e-01	2557
## 106085	0 2.979062e-01	8166
## 134147	0 3.138338e-01	6700
## 149883	0 7.145000e+02	1
## 119225	0 1.399720e-03	5000
## 72035	0 3.767113e-01	6500
## 103802	1 2.924943e-01	7500
## 49154	0 1.090161e-01	2916
## 115590	1 2.986716e-01	7000
## 126658	0 9.953775e-01	3893
## 4667	0 2.324419e-01	4000
## 83153	0 7.737875e-02	2700
## 72373	0 5.269735e-01	4800
## 104336	0 0.000000e+00	3012
## 65716	0 3.421879e-01	3500
## 5805	0 1.067173e+00	2500
## 91472	0 4.767581e-02	7550
## 63232	0 1.056841e-01	3500
## 99238	0 2.961341e-01	5250
## 8414	0 4.568433e-01	5340
## 145609	0 2.955763e-01	5040
## 132799	0 2.215297e-01	7700
## 25430	1 2.326656e-01	1946
## 50790	0 4.028657e-01	3000
## 5916	0 4.216066e-01	8265
## 59943	0 5.104783e-01	6250
## 90137	0 2.053612e-01	2200

## 45421	0 5.717781e-01	1225
## 128728	2 3.361106e-01	6000
## 144431	0 1.197007e-01	400
## 28438	0 1.639344e-02	670
## 141497	0 2.701972e-03	3700
## 136380	0 1.212516e-01	2300
## 140340	0 1.263747e-01	5000
## 15224	0 9.991674e-03	1200
## 107443	0 8.380787e-01	4600
## 111575	0 2.417405e-02	2481
## 4734	0 5.389395e-02	6920
## 14704	1 8.168739e-01	4100
## 105703	0 2.737684e-01	5500
## 48506	0 3.599280e-03	3333
## 45606	0 2.267684e-01	2883
## 52687	0 1.030493e+00	3672
## 27763	0 8.971206e-01	3333
## 7483	0 5.522577e-01	3166
## 24887	0 2.694551e-01	6000
## 89774	1 3.247351e-01	5000
## 64394	1 5.091864e-01	2666
## 62608	0 3.459716e-01	8650
## 125587	2 2.089532e-01	7527
## 66125	0 2.140000e+02	0
## 6345	0 8.993817e-03	5336
## 80097	0 3.046376e-01	3600
## 85102	0 6.046743e-01	4021
## 85530	0 3.776938e-03	4500
## 103259	0 3.918611e-01	5700
## 107375	0 4.790025e-01	8500
## 91729	0 4.170205e-01	5416
## 138298	0 4.906778e-01	5738
## 38578	0 6.419450e-01	2035
## 17124	0 5.588003e-01	2533
## 97418	0 6.631212e-02	6016
## 68500	5 9.600069e-01	5800
## 100885	0 3.065531e-01	2700
## 53107	0 4.442706e-01	5750
## 37017	0 1.838868e-01	4877
## 84268	0 3.340918e-01	4833
## 137200	0 4.687316e-01	5100
## 142168	0 1.722356e-01	5416
## 67249	0 9.389014e-01	6644
## 15852	0 8.636545e-02	2500
## 93844	0 5.595615e-01	4104
## 28851	0 2.153515e-03	6500
## 108011	0 2.526105e-01	4500
## 79300	0 1.923077e+00	1000
## 96323	0 4.320877e-01	5565
## 84975	0 1.157981e+00	3050
## 77886	0 1.173547e+00	2615
## 33269	0 2.113821e-01	3443
## 43734	0 3.432189e-02	3000
## 90977	0 3.809456e-01	7000

## 86770	0 1.162946e-01	3000
## 6431	0 4.574398e-01	7600
## 12319	0 1.562719e+00	2000
## 9830	0 1.748531e-01	8000
## 115235	0 2.317321e-02	5911
## 145360	0 3.204555e-01	2458
## 133215	0 2.026216e-01	4500
## 66021	0 1.088341e-01	5025
## 24543	0 6.483365e-01	5800
## 87827	0 1.748907e-02	1600
## 67624	0 2.558703e-01	6600
## 25840	0 3.688824e-01	4106
## 33759	0 9.034891e-01	4900
## 32736	0 8.730025e-01	3566
## 110230	0 2.744193e-01	6500
## 20875	1 9.638554e-01	3900
## 87507	0 8.974359e-02	7955
## 142320	0 3.184804e-01	3500
## 67022	0 2.089535e-01	8666
## 71105	0 3.992501e-01	7200
## 61976	0 6.281614e-02	8500
## 72559	1 4.794082e-01	2500
## 105742	0 2.192963e-01	4518
## 31442	1 2.491686e+00	2946
## 60440	0 3.821236e-01	5000
## 57220	0 4.850874e-02	5833
## 1699	0 1.042791e+00	5000
## 90790	0 5.820035e-01	2255
## 129261	0 3.558886e-01	4270
## 97575	3 4.429446e-01	8000
## 89800	0 2.565657e-02	4949
## 147528	0 9.996002e-03	2500
## 145159	0 6.174811e-01	6200
## 79284	0 3.475363e-02	4200
## 27351	0 3.398058e-01	1750
## 97667	0 1.612751e-01	8500
## 95169	0 5.021991e-01	2500
## 145699	0 8.398320e-02	5000
## 131351	0 4.180895e-01	6500
## 2661	0 5.518528e-02	3750
## 126808	0 5.158351e-01	2304
## 131878	0 5.229885e-01	4175
## 141006	0 3.025994e-01	4500
## 89731	0 1.636546e-01	2987
## 91222	0 4.007577e-01	4750
## 36494	0 1.987329e-01	7733
## 9290	0 1.019758e-02	3137
## 4707	2 2.847758e-01	3500
## 57197	0 3.278307e-01	4300
## 21544	2 4.487892e-01	4500
## 111281	0 2.033781e-02	2900
## 94532	0 4.931169e-03	4866
## 11343	0 3.634339e-01	8083
## 145466	0 1.683696e-01	2250

## 139689	1	8.460454e-03	7800
## 83688	0	8.672959e-01	1800
## 117935	4	5.654380e-01	6700
## 33762	1	4.245651e-01	6667
## 99745	0	3.098451e-02	2000
## 88106	1	3.452518e-01	2600
## 106753	0	9.460654e-02	7916
## 83395	0	1.753782e+00	1916
## 75118	0	2.570929e-01	8000
## 62140	0	4.525862e-01	3943
## 102326	1	6.037216e-01	1450
## 116732	0	3.711559e-01	6600
## 31002	0	1.352378e-01	7630
## 45403	0	1.488834e-02	2417
## 50155	0	0.000000e+00	2217
## 125844	0	4.141953e-01	3000
## 49020	0	1.901719e-01	6572
## 44512	0	2.564672e-01	7653
## 8931	1	2.911828e-01	2324
## 140192	0	4.582196e-01	7694
## 59547	0	1.219255e+00	3032
## 148486	0	5.562958e-01	1500
## 43453	0	2.880000e+02	0
## 15256	0	7.294768e-01	2350
## 8306	0	1.368631e-01	1000
## 126501	0	3.481185e-01	5500
## 37929	0	6.368886e-02	5887
## 136210	0	4.857857e-01	3200
## 132639	0	4.236166e-03	3776
## 108994	1	8.013519e-01	2662
## 23144	0	1.738373e-01	5740
## 66648	0	2.379763e-01	1600
## 57702	0	3.489264e-01	2607
## 55170	0	1.841953e-01	5200
## 113197	0	2.558666e-01	3536
## 98352	1	3.173968e-01	5500
## 144532	3	2.616182e-01	5400
## 7210	0	1.871401e-01	2083
## 137681	0	5.182390e-01	1589
## 103729	0	9.773124e-02	4583
## 88963	0	1.224694e-02	4000
## 145980	3	8.485456e-02	4984
## 112236	0	5.137030e-01	6275
## 96292	0	8.432358e-02	4375
## 76561	0	9.460245e+00	2200
## 7880	0	1.127714e-03	7093
## 92058	0	8.133165e-02	4745
## 58949	0	5.741379e-01	1739
## 61491	0	1.935484e-01	6075
## 37459	0	1.366432e-01	6666
## 87817	0	2.223569e-01	3300
## 9308	0	7.636182e-01	2000
## 92277	0	2.379524e-02	5000
## 78085	0	9.316065e-02	4400

## 135903	1	6.607930e-03	907
## 119512	0	8.652822e-01	5633
## 33428	0	3.515297e-01	5000
## 5154	0	2.138390e-02	4956
## 34752	0	2.337211e-01	5758
## 63286	0	5.123577e-01	3600
## 93829	0	4.658311e-01	3350
## 131399	0	3.978863e-01	3500
## 102373	0	3.545095e-01	4800
## 139049	0	1.133000e+03	0
## 60035	0	0.000000e+00	820
## 15144	0	1.893018e-01	6000
## 70018	0	4.317774e-01	4455
## 68693	0	6.731090e-01	3000
## 16449	0	2.866912e-01	1900
## 77336	0	7.593210e-02	6597
## 91681	0	0.000000e+00	1600
## 58246	0	4.393902e-01	4000
## 78167	0	1.289265e-01	7926
## 99377	0	4.802852e-01	2383
## 548	0	5.341821e-01	3612
## 99933	0	1.199891e-02	3666
## 11915	0	1.398003e+00	700
## 91691	0	8.584488e-02	7000
## 115069	0	2.938085e-01	7800
## 148084	0	5.123619e-01	1900
## 68783	0	5.658606e-01	3514
## 21066	0	1.601993e-01	3813
## 101892	0	5.355184e-01	7840
## 131678	0	2.253869e-01	4458
## 65856	0	5.183727e-01	5333
## 45381	0	1.539560e-01	3500
## 1501	0	4.455554e-01	8200
## 103093	1	9.052023e-01	864
## 74131	0	1.437320e-02	8000
## 77022	0	3.563867e-02	2833
## 61187	0	5.446015e-01	7992
## 57607	0	3.799240e-03	5000
## 53014	0	3.163554e-01	1766
## 74293	0	4.246723e-01	6484
## 40721	1	3.476150e-01	3500
## 44731	1	1.688514e-01	4500
## 4984	0	2.708681e-01	6600
## 79293	0	3.232637e-01	7083
## 108410	0	3.310000e+02	0
## 45036	0	4.321602e-01	8239
## 22260	0	1.319001e-01	1720
## 106047	0	4.057971e-01	2000
## 93212	2	1.237976e+00	1600
## 42174	1	3.076394e-01	4358
## 94208	0	3.332920e-01	8073
## 93066	0	1.643162e-02	7728
## 73207	0	3.914021e-01	4000
## 105738	0	8.287293e-03	723

## 81454	0 2.403798e-01	2000
## 19449	0 2.815111e-01	5505
## 120152	0 3.981503e-01	4216
## 142165	0 6.473852e-02	5946
## 2245	0 3.559061e-01	5197
## 33126	0 1.307035e-01	5500
## 13223	2 1.110234e-01	3800
## 37463	0 4.121077e-01	3600
## 100352	0 3.336502e-01	7363
## 106764	0 3.801240e-01	5000
## 127747	0 5.958088e-02	7300
## 107282	0 5.031566e-01	1583
## 45116	0 1.688265e-01	8333
## 58848	0 2.899420e-01	5000
## 1861	0 0.000000e+00	4000
## 53696	0 0.000000e+00	6601
## 103922	2 4.992475e-01	7308
## 42006	0 4.746820e-01	8333
## 142013	0 4.069098e-01	2083
## 109810	0 7.070419e-02	7000
## 78720	0 6.547900e-01	5500
## 6275	0 9.317138e-02	6750
## 87211	1 5.560507e-01	2916
## 89705	0 3.309885e-01	2700
## 133148	0 1.173598e-01	7165
## 106374	0 1.875919e-01	3400
## 102069	0 4.380566e-01	6400
## 21296	0 3.551132e-01	5876
## 50327	0 1.791713e-01	6250
## 3834	2 3.250389e-01	4500
## 125798	0 1.130242e-01	3600
## 132429	0 7.489032e-01	7749
## 144312	0 4.101573e-01	3878
## 10356	0 6.028393e-01	5916
## 46423	0 2.995038e-01	6650
## 98094	0 8.568980e-03	3500
## 71426	0 2.781968e-01	5833
## 74180	0 6.679046e-01	7000
## 147927	0 4.204305e-01	5667
## 61883	0 4.620224e-01	8583
## 118717	0 2.874934e-01	5700
## 119239	0 5.616858e-01	3914
## 2903	0 3.711170e-01	3025
## 56682	0 7.156160e-01	4187
## 71737	0 6.245636e-01	3150
## 59986	0 7.109531e-03	4500
## 74015	0 3.112334e-01	7450
## 15395	0 1.206092e+00	2100
## 31837	1 3.476122e-01	8333
## 40536	0 7.012064e-01	4641
## 66396	0 4.873141e-01	8000
## 7040	0 7.255788e-01	7083
## 46137	0 5.579211e-01	4790
## 120428	0 4.376406e-01	4000

## 53812	0 5.392140e-01	5724
## 90431	0 1.522000e+03	0
## 96765	0 2.463768e-01	2000
## 146042	0 1.993068e-01	7500
## 1159	0 4.375000e-01	4079
## 36138	0 5.625828e-01	5280
## 106613	0 2.493766e-03	400
## 101788	0 3.113000e+03	0
## 111064	0 2.278549e-01	7416
## 38172	4 7.541780e-01	7000
## 96032	0 6.735219e-01	3500
## 134614	0 3.064478e-01	4202
## 121180	0 2.142758e-01	7200
## 118181	0 1.019052e-02	2256
## 140933	0 3.006960e-01	6321
## 35710	0 3.742331e-01	4400
## 10161	0 2.393780e-01	8166
## 129575	0 3.742737e-02	7400
## 21712	0 6.953262e-01	4000
## 5746	0 3.329584e-01	8000
## 16093	0 2.047612e-01	6846
## 38926	0 0.000000e+00	4000
## 45994	1 1.424644e-02	4000
## 131631	0 2.772031e-02	7250
## 137104	0 1.763316e-02	5500
## 50364	0 9.306139e-01	5000
## 115340	0 1.480777e-01	4733
## 143443	0 4.344079e-02	5800
## 138833	1 1.211758e-01	3333
## 64381	0 5.196850e-01	2666
## 140154	0 3.170394e-02	8673
## 33686	0 3.499125e-03	4000
## 145708	4 6.904762e-01	7307
## 67628	0 4.067748e-01	7025
## 82603	0 1.061313e+00	3000
## 30831	0 2.500000e+02	1
## 66307	0 2.980570e-02	5300
## 70932	0 2.980812e-01	2240
## 40564	0 9.793063e-02	3430
## 94371	1 4.845331e-01	6917
## 109720	0 7.732302e-02	7500
## 111309	0 1.804276e-01	5752
## 71414	0 1.830206e-01	3250
## 48068	0 2.810292e-01	7500
## 95309	0 7.709454e-01	1300
## 75926	0 9.950083e-01	600
## 136923	0 1.650568e-01	5900
## 95168	0 2.908033e-03	2750
## 77610	0 2.720957e-01	2590
## 84088	0 9.675859e-02	6200
## 100607	1 3.940493e-01	7998
## 41171	1 3.321336e-01	5000
## 36633	1 2.019327e-01	3000
## 106610	0 1.566145e-01	3000

## 132594	0 1.153626e-01	1750
## 85428	0 1.336265e+00	2500
## 51925	0 4.822362e-01	5741
## 27563	0 5.748563e-03	4000
## 22905	0 1.885623e+00	5000
## 14718	2 7.002193e-01	5016
## 121471	0 3.734378e-01	6000
## 148314	0 3.019391e-02	3609
## 89793	0 1.361800e+00	4800
## 143929	0 4.753788e-01	1583
## 73944	0 4.592874e-01	8166
## 62304	0 4.347086e-01	2350
## 5070	0 9.073634e-01	420
## 104396	1 2.342299e-01	4200
## 20987	0 3.052209e-01	2738
## 136350	0 1.827000e+03	0
## 131252	0 2.577789e-01	3952
## 129509	0 6.252546e-01	5400
## 50322	0 8.073695e-01	7625
## 90021	0 1.161105e-01	8000
## 16189	0 2.586236e-01	6000
## 99090	0 3.077955e-01	7452
## 106038	0 4.886195e-01	4041
## 146511	0 1.036753e-01	7291
## 102453	0 5.780711e-01	6666
## 1973	0 3.952016e-01	3000
## 74573	0 3.900000e+01	1
## 107452	0 5.645967e-01	1400
## 99904	0 3.219213e-02	5870
## 21249	0 8.916561e-01	5500
## 20367	0 2.114964e-01	3200
## 77914	0 1.153043e-01	5749
## 16607	0 6.121820e-04	3266
## 106708	0 4.253351e-01	8430
## 59208	0 3.771213e-03	1590
## 124568	0 1.528585e-03	3270
## 129501	0 3.421316e-01	5000
## 23524	0 7.131535e-01	7822
## 74397	0 7.721393e+00	200
## 65394	0 1.284947e-01	7260
## 96203	0 3.201700e-01	4000
## 65902	0 1.906940e-04	5243
## 6390	0 5.580076e-01	4757
## 144746	0 9.617252e-01	3500
## 74943	0 3.182185e-01	8666
## 106227	0 2.878096e-02	7226
## 5713	0 1.316703e-01	3166
## 46624	0 4.881462e-01	3500
## 75167	0 3.503401e-01	5291
## 96998	0 6.923736e-01	4667
## 63305	0 4.174528e-01	6783
## 42954	0 3.648860e-01	3200
## 136230	0 9.412078e-02	7500
## 58544	0 5.073236e-01	750

## 148734	0 1.888000e+03	0
## 98204	0 1.119917e+00	1450
## 61913	0 3.496933e-01	7986
## 132631	0 1.313934e-01	7800
## 31994	0 2.090076e-01	5128
## 72239	0 1.230000e+03	0
## 79656	0 9.912910e-02	3903
## 89786	0 1.530710e-01	2083
## 126981	0 1.068589e+00	4300
## 133368	1 5.168708e-01	4000
## 107201	1 4.638178e-01	8166
## 8517	0 1.648954e-01	2916
## 6714	0 2.837916e-01	5200
## 18362	0 1.322169e-01	4000
## 56355	0 2.275090e-01	2500
## 64944	0 2.311015e-01	8333
## 58519	0 1.742160e-03	3443
## 90649	0 1.242345e-01	8000
## 129184	0 2.548726e-02	2000
## 44979	0 9.905635e-01	3708
## 91608	0 4.908199e-02	5500
## 9118	0 1.699150e-02	2000
## 59282	0 4.372136e-01	3272
## 10823	9 1.483160e-01	6620
## 38432	0 2.333453e-01	5583
## 143407	0 4.685000e+03	0
## 43686	0 2.214464e+00	400
## 34794	0 3.146370e-01	7808
## 102854	0 3.626601e-01	2420
## 123267	0 3.890000e+02	1
## 52868	0 6.655978e-01	2182
## 31201	0 2.437513e-01	5000
## 100908	0 2.017611e-01	2611
## 64717	0 7.450980e-01	2600
## 129130	0 4.298567e-01	3000
## 110360	0 3.913198e-02	2810
## 106916	0 5.179426e-01	5015
## 57739	0 8.035982e-01	2000
## 65723	0 2.596006e-01	650
## 21185	0 3.031742e-01	4000
## 97641	0 3.703704e-03	4859
## 90673	0 5.619897e-01	6613
## 95610	0 2.819957e-01	1382
## 138961	0 6.163018e-01	5115
## 12214	0 7.233385e-01	1940
## 51843	0 2.115846e+00	750
## 104481	0 2.891016e-01	7000
## 11669	0 2.829780e-01	8300
## 66657	0 5.541604e-01	5335
## 136101	0 7.342407e-01	5583
## 123487	0 2.861451e-01	6300
## 54138	0 0.000000e+00	2700
## 96586	0 2.572703e+00	1120
## 35105	0 2.270382e-02	3875

## 56187	0 6.570088e-01	4900
## 140419	0 1.231841e+01	200
## 112585	0 2.772031e-01	4833
## 34732	0 5.597207e-01	2720
## 114582	0 1.847143e-01	6685
## 71321	0 1.297596e-02	4700
## 133887	0 1.587838e-01	1775
## 81587	0 2.158749e-01	4988
## 125886	0 2.370000e+02	0
## 90941	0 2.310030e-01	8224
## 58059	0 1.037068e+00	2400
## 101359	0 7.799237e-02	8128
## 73344	0 3.917957e-01	7166
## 88987	0 7.678464e-02	5000
## 54036	0 5.141388e-03	3500
## 58444	2 5.474439e-01	5300
## 12144	0 3.594015e-01	7083
## 53308	0 4.997870e-01	2346
## 84993	0 1.587682e-01	5000
## 131330	0 7.350449e-01	3894
## 41633	0 6.691278e-03	4333
## 43426	0 6.685237e-01	4666
## 85347	0 4.491939e-01	8000
## 64228	4 7.132090e-01	5306
## 38399	0 8.526188e-03	820
## 133348	0 4.773281e-01	2050
## 78514	0 6.136417e-02	4236
## 148613	0 4.208041e-01	7834
## 75665	0 1.207834e+00	1250
## 118329	0 3.916014e-02	6000
## 125279	0 2.418202e-01	4614
## 93640	0 3.801377e-01	4500
## 96173	0 2.285325e-01	2200
## 99230	0 1.188380e-02	2271
## 31961	0 1.305085e+00	2300
## 94096	0 3.264147e+00	5000
## 96420	0 1.329588e+00	800
## 19528	0 4.897541e-01	7807
## 5887	0 6.422645e-01	4097
## 6989	0 3.176665e-01	7850
## 138890	0 4.799040e-01	3333
## 50623	0 6.906547e-01	2000
## 22891	0 2.231196e-01	3961
## 86353	0 7.971557e-01	2671
## 8603	0 1.610695e+00	2000
## 78352	0 1.875750e-01	7500
## 111083	0 9.650000e+02	0
## 88467	0 2.469394e-01	6207
## 141372	0 3.680014e-01	5768
## 107906	0 3.835044e-01	7892
## 118491	0 2.409598e-01	6000
## 108311	1 4.896443e-01	7000
## 95191	0 9.252423e-02	4333
## 36783	0 1.928721e-01	3815

## 71645	1	1.906383e-01	8224
## 83452	0	1.189405e+00	2000
## 133859	0	1.195113e+00	2700
## 109260	0	3.127375e-01	5000
## 111303	0	4.909234e-01	3800
## 3162	0	5.132819e-01	3500
## 114375	0	3.678687e-01	5240
## 25649	2	2.203955e-01	4500
## 21181	0	2.000000e+00	0
## 70799	0	5.240793e-01	6000
## 28562	0	3.823123e-01	2170
## 83935	3	3.981204e-01	5000
## 19045	2	2.610531e-01	4500
## 126435	0	1.194101e-01	2101
## 141629	0	5.492113e-01	4500
## 126879	0	1.112720e-01	4834
## 78398	0	5.104542e-01	4160
## 141656	0	6.822175e-01	3300
## 9079	0	1.051790e-01	5000
## 138731	0	6.393054e-01	3800
## 44774	0	1.710214e-01	1262
## 53053	0	3.268516e-01	4576
## 3212	0	9.652790e-02	5500
## 135753	0	0.000000e+00	3673
## 37405	0	4.992804e-01	7642
## 125247	0	6.989341e-03	5722
## 55771	0	8.358328e-02	5000
## 135658	0	0.000000e+00	2184
## 48567	0	3.128644e-01	8060
## 103986	0	5.042493e-01	6000
## 128842	1	1.301301e-01	3995
## 127376	0	2.694481e-02	2300
## 36348	0	4.427939e-03	7000
## 142925	1	3.666548e-01	2800
## 71233	1	1.691657e-01	2600
## 10420	0	1.641497e-02	6091
## 10358	0	4.083032e-01	5250
## 40470	0	2.629124e-01	3000
## 85323	0	3.598972e-02	3500
## 56001	0	3.819842e-01	5583
## 67011	1	1.472515e+00	1800
## 137879	0	4.139217e-01	3217
## 37048	0	3.458755e-01	4145
## 68539	0	1.707622e-02	2400
## 148057	0	5.395201e-01	5667
## 123520	1	4.015796e-01	6583
## 31364	0	7.733638e-01	6569
## 10593	0	1.813535e-01	4890
## 58557	0	5.040617e-02	4800
## 10143	0	6.490877e-01	4000
## 30207	0	3.800000e+01	0
## 99823	1	6.859406e-01	2524
## 107125	0	5.937564e-02	4900
## 59572	0	4.341029e-01	5500

## 148008	0 2.738679e-01	5100
## 30694	0 6.188096e-01	2200
## 31352	3 2.989392e-02	3110
## 97946	0 1.377150e-01	7500
## 99371	0 6.663441e-01	6200
## 139759	0 7.377193e-01	4559
## 86179	0 1.792953e-01	7350
## 25443	0 1.682953e-01	2762
## 16245	0 7.902722e-01	2240
## 115931	2 4.608747e-01	3360
## 129572	1 5.816753e-01	7890
## 106868	0 6.156769e-01	5000
## 87793	0 7.691522e-01	4894
## 142532	2 2.514872e-01	7900
## 58864	0 1.881768e-01	6833
## 85562	1 4.313048e-01	8100
## 81301	4 2.785443e-01	5000
## 96811	0 3.845216e-01	1640
## 82853	1 3.086039e-03	8100
## 112543	0 6.381621e-03	1566
## 63621	0 4.094346e-01	6083
## 114931	0 6.136932e-01	2000
## 147181	0 2.887778e-01	7600
## 141839	0 3.440719e+00	834
## 112832	0 4.401362e-01	3816
## 20481	0 3.617843e-01	8540
## 131234	2 5.179464e-01	2200
## 26734	0 4.174738e-01	5058
## 67711	0 3.024244e-01	4000
## 58620	0 2.000400e+00	7500
## 101402	0 2.525048e-01	7884
## 142852	0 2.677515e-01	6083
## 26873	3 2.233766e+00	1000
## 70209	0 1.487881e-02	4166
## 96744	1 5.277489e-01	8666
## 63785	0 1.762985e-01	4100
## 58893	0 1.199520e-03	2500
## 55210	0 5.427021e-03	3500
## 133647	0 9.323479e-02	7035
## 21739	0 4.234534e-01	4800
## 45337	1 8.508627e-03	4230
## 6196	0 4.920927e-01	2718
## 111939	0 4.976051e-01	5636
## 92206	0 6.300569e-01	6500
## 73587	0 6.491754e-01	2000
## 127253	0 2.401427e+00	1541
## 36460	0 5.059982e-01	3250
## 93359	1 6.845604e-01	6016
## 98820	0 2.899034e-02	3000
## 102300	0 8.017328e-01	3000
## 98684	0 1.236688e-01	4600
## 92804	0 4.201859e-01	8500
## 46274	0 4.424700e-01	2250
## 1211	0 0.000000e+00	3000

## 62353	0 1.112347e-03	6292
## 58201	0 9.050224e-02	2010
## 128050	0 9.865471e-02	5574
## 122815	0 8.003941e-01	3551
## 102319	1 4.559635e-03	4166
## 56005	1 1.835429e-01	4532
## 35598	0 3.290380e-01	4500
## 68677	0 2.005351e-01	7100
## 91171	0 1.994302e-02	3509
## 108953	1 3.996004e-02	1000
## 74974	0 1.561406e-01	6000
## 84106	0 2.311487e-01	2837
## 124168	0 1.882598e+00	1200
## 26581	0 5.150231e-01	2595
## 65721	1 1.614596e-01	4000
## 129942	0 4.939102e-01	5500
## 68617	3 5.826835e-01	5000
## 9066	0 2.764007e-01	2944
## 116446	1 4.855857e-01	6000
## 115129	0 5.571554e-02	7986
## 109928	0 0.000000e+00	2557
## 14932	0 7.986502e-01	8000
## 83446	0 4.277861e-01	2000
## 140925	0 3.598800e-02	3000
## 79592	0 3.614854e-03	3042
## 24485	0 8.195584e-02	8650
## 148757	0 2.564812e+00	3000
## 132692	0 1.670832e-01	2800
## 116427	1 1.551625e-01	5200
## 103279	0 1.325812e+00	4830
## 77943	0 8.000000e+00	0
## 81526	0 1.909566e-01	5550
## 117642	0 2.893975e-01	3800
## 18754	0 2.947711e-01	6750
## 118053	0 2.524369e-02	4000
## 22545	0 3.463977e-01	1734
## 98452	0 5.674740e-01	2600
## 140308	1 1.225236e-01	5198
## 94039	1 4.091645e-01	6175
## 45179	0 1.999500e-03	4000
## 100040	2 2.889813e-01	4328
## 35730	0 6.976146e-01	7000
## 51515	0 1.348589e-01	4500
## 12327	0 3.102233e-01	5105
## 113889	0 6.366711e-01	6800
## 86119	0 7.083073e-01	1600
## 74249	0 1.167211e-01	3366
## 144455	0 4.097181e-01	5000
## 94190	0 2.309230e-01	3000
## 83719	0 9.224138e-01	2667
## 47187	0 5.717713e-02	2500
## 36706	0 5.717776e-01	8595
## 69637	0 2.998811e-01	5888
## 115320	0 6.390694e-01	4770

## 102595	0 2.851697e-01	8394
## 72787	0 1.389722e-01	5000
## 130783	0 1.826811e+00	1200
## 19847	1 3.517287e-01	3007
## 22822	0 3.920512e-01	7975
## 50418	0 6.697684e-01	4835
## 55720	1 4.211158e-01	3333
## 96895	0 4.671543e-01	7108
## 104598	1 2.022918e-01	2268
## 121789	0 3.103537e-01	3872
## 116606	1 4.491018e-03	8683
## 59426	0 3.583715e-01	6336
## 37715	0 3.104217e-01	5833
## 26766	0 4.206721e-01	2350
## 19005	0 1.238899e-01	2251
## 3670	1 3.191694e-02	5200
## 78694	0 5.309111e-01	7100
## 135318	2 4.028311e-01	4167
## 28485	0 9.775605e-03	4500
## 68162	0 3.739526e-01	4176
## 87580	0 4.581806e-01	3000
## 118479	0 5.464553e-02	7630
## 70950	0 5.925926e-02	2834
## 25137	0 4.034356e-01	7916
## 10908	1 9.542153e-01	3166
## 108488	0 9.082467e-02	5383
## 17977	0 4.692996e-01	3240
## 32200	0 1.033269e-01	3125
## 86831	1 7.136906e-02	3600
## 49039	0 2.860000e+02	0
## 27079	0 3.218281e-01	4200
## 93554	0 7.855520e-01	2200
## 139702	0 5.761259e-01	6416
## 68344	0 6.246418e-01	5583
## 99940	0 1.818909e-01	6250
## 90593	0 5.784184e-02	5272
## 89313	0 7.323180e-01	8666
## 110773	0 1.796886e-01	7000
## 32641	0 6.560731e-01	5474
## 35158	0 2.052872e-01	3063
## 39501	0 2.372663e-01	1550
## 133601	0 0.000000e+00	3600
## 88164	0 1.722875e-01	7916
## 148330	0 1.999385e-01	3250
## 17529	2 4.449938e-02	2426
## 51482	4 1.974682e+00	8333
## 67603	0 4.331654e-02	8333
## 132157	0 3.719954e-01	7862
## 121868	0 3.618785e+00	2533
## 93759	0 4.750167e-01	1500
## 81835	0 1.521881e-01	3061
## 136877	0 8.744465e-01	7000
## 15304	0 3.555086e-02	2840
## 32642	0 8.258355e-02	3111

## 94287	0 2.903453e-01	1418
## 140165	0 6.706192e-02	7589
## 81584	0 1.342378e-01	2800
## 19967	0 5.090766e-01	3800
## 115944	0 1.542393e-01	4304
## 89832	2 4.933013e-01	5000
## 7556	0 9.441265e-01	3668
## 47606	0 2.949473e-01	5600
## 120331	2 3.401007e-01	6550
## 120400	0 1.264320e-01	4800
## 145663	0 4.059993e-01	8100
## 64652	0 3.371929e-01	3540
## 138939	0 2.111680e-01	4100
## 104230	0 7.542536e-02	5700
## 16594	0 7.414071e-01	8058
## 18569	1 2.235421e-01	8333
## 50746	0 3.009860e+00	7200
## 62055	0 1.708703e-01	4400
## 54787	0 6.755345e-01	8231
## 69721	1 3.565976e-01	2750
## 122007	0 6.841817e-02	1826
## 18071	0 2.802399e-01	3000
## 62309	0 3.768893e-01	2050
## 29767	0 4.037292e-01	7400
## 124112	0 5.104167e-01	7871
## 64290	0 2.504200e-01	8333
## 78313	0 2.480940e-01	8000
## 144079	1 4.749836e-01	6115
## 42630	1 1.821173e-01	5166
## 100105	0 2.539978e-01	5377
## 135280	0 8.713703e-01	4166
## 126610	0 1.363091e-01	8333
## 27973	0 1.018144e-01	6668
## 82679	0 3.158201e-01	8583
## 117945	2 2.524996e-01	5900
## 81330	0 9.320892e-01	1928
## 82899	0 0.000000e+00	1262
## 77439	0 3.024060e-01	6940
## 109225	0 4.886278e-01	4000
## 8247	0 8.568935e-01	4583
## 33842	0 2.687468e-01	5800
## 33959	0 9.783121e-02	4241
## 109582	1 3.668682e-01	4134
## 53919	0 2.059992e-01	7800
## 39689	0 1.133196e-01	8250
## 105607	0 1.842105e-01	4673
## 76951	0 3.444180e-02	2525
## 39082	0 1.935070e-01	2340
## 79711	0 9.977827e-02	1352
## 132687	0 3.550794e-01	5226
## 10971	0 1.662445e-01	7500
## 60709	3 2.568982e-02	2101
## 104987	0 1.719481e-01	5774
## 81696	0 5.872825e-01	5000

## 10371	0 3.029176e-01	5106
## 26531	0 2.471726e-01	6100
## 125452	0 5.908073e-01	6700
## 65777	0 1.620952e+00	2500
## 79956	1 1.160736e+00	2500
## 129567	1 5.230805e-01	4245
## 77740	0 1.439640e-01	4000
## 26651	2 7.342928e-01	3612
## 12000	0 2.282362e-01	7500
## 77558	0 2.504912e-01	2035
## 10711	0 8.356808e-01	3833
## 10421	0 1.348001e+00	3226
## 4261	0 1.256983e-02	7875
## 62004	0 6.397441e-03	2500
## 101826	0 4.604944e-03	4125
## 36335	0 1.199747e-02	4750
## 70313	0 2.129870e+00	1000
## 46010	0 3.703837e+00	833
## 71962	0 1.894537e-03	3166
## 60345	1 4.391402e-01	4000
## 82753	0 3.435814e-01	7968
## 100729	0 1.239504e-02	2500
## 112472	0 9.264608e-02	4500
## 20107	2 2.941313e-01	8621
## 62062	0 5.890042e-01	2600
## 20981	0 3.085274e-01	7000
## 43521	0 3.704965e-01	3524
## 115456	0 2.623422e-01	8000
## 122154	0 3.718513e-02	2500
## 124082	4 6.417178e-01	4889
## 26983	0 1.763727e-01	1802
## 26046	1 2.313665e-01	7083
## 52737	0 3.455798e-01	5225
## 54396	1 8.085612e-03	4204
## 99387	0 6.738751e-01	5733
## 63777	0 1.184408e-01	3334
## 44133	0 5.305352e-02	4240
## 16794	0 4.842292e-01	2250
## 26300	0 3.494602e-01	2500
## 119014	0 3.792415e-02	500
## 98659	0 1.469609e+00	1200
## 117301	0 5.671545e-01	4645
## 146279	0 2.660766e-01	5535
## 114287	0 3.017085e-02	2750
## 122044	0 5.091171e-01	4167
## 97198	0 1.805639e-01	5000
## 37462	1 4.806745e-01	6700
## 91564	0 1.779522e-01	7900
## 75583	0 1.756641e-01	2333
## 125606	0 5.925350e-01	4500
## 73438	0 2.634989e-01	4166
## 11129	0 2.332667e+00	2500
## 461	0 2.294361e-01	7500
## 117064	2 7.006092e-01	2297

## 44583	0	5.200000e+01	0
## 140979	1	4.427673e-01	2384
## 44784	0	2.560000e+02	0
## 18312	0	6.923487e-01	3750
## 71832	1	3.356643e-01	1000
## 56775	1	5.417291e-01	2000
## 34169	0	6.392395e-03	6100
## 329	1	3.188908e-01	7500
## 134669	0	4.014394e-01	2500
## 122965	0	7.124167e+00	1650
## 74071	0	4.155169e-01	5000
## 130677	1	2.818157e-01	3700
## 49430	0	7.818606e-01	3428
## 147522	0	3.713188e-01	5466
## 27254	0	4.873025e-01	5000
## 129066	0	7.196873e-01	5500
## 3232	0	3.389328e-01	7083
## 67205	0	5.453794e-01	6048
## 76027	0	4.546627e-01	4653
## 109176	0	6.354117e-01	2100
## 111302	0	6.209895e-01	3334
## 101854	1	5.949883e-02	8100
## 132285	0	2.418226e-01	7000
## 41312	0	1.438094e-01	6000
## 149148	1	6.209516e-01	2500
## 48477	0	1.316855e-01	6917
## 36278	0	0.000000e+00	3100
## 76404	0	1.634465e-01	5744
## 27927	0	3.730644e-01	4907
## 140969	0	2.897039e-01	8342
## 135625	0	2.645740e-01	2452
## 61197	0	3.379978e-01	928
## 35455	0	8.197268e-02	3000
## 54576	0	2.702164e-01	6516
## 33554	0	7.130956e-01	3000
## 112698	0	3.249590e-01	7920
## 48675	0	1.023600e-02	7033
## 17438	0	2.155981e-01	2666
## 24174	0	1.909364e-01	3000
## 59892	1	1.064416e+00	2250
## 145824	2	1.595376e-01	3459
## 101931	0	1.129080e-01	3400
## 26259	3	9.286339e-02	8000
## 83051	0	3.587283e-01	5000
## 140578	0	6.907835e-02	5500
## 126413	0	5.487898e-01	3924
## 135468	0	7.570441e-01	1880
## 11661	0	9.473492e-03	5488
## 116595	0	2.836033e-01	3518
## 75932	1	3.244351e+00	5000
## 102539	0	1.527480e-01	1400
## 136649	1	4.364807e-01	2329
## 35661	0	2.147232e-01	8000
## 89982	0	3.425479e-01	8500

## 55738	0 2.816537e-01	1160
## 82445	0 4.352608e-01	6000
## 13899	0 1.156320e+00	2673
## 16826	0 6.568803e-01	7833
## 59907	0 9.417309e-01	3500
## 72997	0 3.511339e-01	4100
## 8771	0 1.152458e-01	3600
## 46855	0 3.999445e-02	7200
## 63113	0 6.542670e-01	2741
## 92538	0 2.043634e-01	3620
## 81451	0 3.358925e-01	4167
## 10441	0 2.151308e-01	6000
## 119163	0 9.553631e-01	1500
## 22518	1 4.098829e-01	3500
## 90117	0 4.719056e-01	5000
## 58873	0 6.094635e-01	3000
## 87072	0 2.766052e-01	4500
## 105549	0 1.921516e-02	3694
## 85655	0 2.110340e-01	8500
## 142523	0 5.243171e-01	1500
## 66457	0 8.424366e-02	5400
## 122565	0 3.493844e-01	6416
## 53477	1 2.050157e-01	4784
## 5184	0 4.622083e-01	6085
## 63062	0 1.029031e-01	6957
## 26887	1 9.486482e-02	6250
## 21105	0 4.818420e-01	2670
## 71390	1 1.137735e-01	5800
## 37901	0 5.271480e-04	7587
## 132897	0 4.190412e-01	7404
## 101170	0 1.394793e-01	4186
## 35135	1 4.810496e-01	6516
## 149699	0 3.813859e-01	3953
## 28963	0 1.021000e+03	0
## 111179	0 2.239440e-01	4000
## 23838	0 1.247750e-01	5000
## 4012	0 4.845661e-01	3433
## 74676	0 5.371809e-01	1801
## 47633	0 3.289589e-01	8000
## 54668	0 1.003030e-01	6270
## 48348	0 1.051910e+00	4083
## 80634	0 1.210479e-01	7748
## 48619	2 3.688024e-01	4416
## 109430	1 4.574846e-01	5350
## 3436	0 5.895439e-01	898
## 97578	1 3.979432e-01	7000
## 134220	0 2.630857e-01	5100
## 71870	0 9.915000e+02	1
## 16054	1 4.013569e-01	5600
## 83578	0 2.132675e-01	7295
## 101394	0 6.198760e-03	5000
## 96610	1 7.260173e-01	4054
## 87217	0 7.828412e-01	4300
## 104433	0 2.973362e-01	4166

## 18155	1	8.711615e-01	4493
## 69850	0	5.513493e-01	2667
## 125902	0	2.482858e-01	5541
## 113278	0	6.338785e-01	4279
## 59273	0	1.357642e+00	1000
## 16320	0	8.239737e-01	3044
## 134329	0	9.148569e-01	2900
## 53322	0	3.688770e-01	3000
## 143953	0	1.916000e+03	0
## 44443	0	3.112111e-01	8000
## 3498	0	1.101559e+00	2500
## 8356	0	1.047665e+00	2076
## 84142	0	3.836527e-01	2556
## 7294	0	3.503419e-01	1900
## 57771	0	3.597265e-01	4533
## 40039	0	1.291379e-01	2748
## 89025	1	6.332014e-01	4800
## 102495	0	7.918601e-01	2800
## 59231	0	3.415485e-01	4300
## 135139	0	1.399533e-02	3000
## 691	0	3.787103e-02	2930
## 109108	0	1.694159e+00	3115
## 139976	0	1.691323e-01	2500
## 55797	0	1.896369e-01	5673
## 7287	2	7.043725e-01	6700
## 104691	0	3.923547e-01	3766
## 101401	0	0.000000e+00	690
## 105448	0	7.761492e-02	3001
## 120903	0	5.333333e-01	1124
## 43772	0	5.646060e-01	3768
## 80784	0	4.411765e-02	2243
## 39390	0	2.142551e-03	7000
## 45888	0	2.599504e+00	2416
## 33859	0	3.001273e-01	5500
## 124513	0	1.574606e-02	4000
## 59903	0	5.811540e-01	2408
## 126731	0	3.917217e-01	3333
## 76841	0	1.039007e+00	7972
## 94462	1	3.576983e-01	4500
## 66020	0	2.645486e-01	3178
## 136459	0	5.017549e-01	7407
## 74211	0	3.884774e-01	3644
## 47995	0	1.108575e-01	6133
## 126549	0	0.000000e+00	530
## 98140	0	3.908046e-01	2000
## 39404	0	4.660103e-01	6398
## 116829	1	5.673450e-01	8500
## 78839	0	2.952936e-01	2400
## 148343	1	6.151724e-01	6524
## 97278	0	6.559020e-01	3591
## 3497	0	1.595000e+03	0
## 40275	0	3.386657e-01	5500
## 86779	0	1.715657e-01	5000
## 8013	0	1.039861e-02	7500

## 84086	5	3.752321e-01	7000
## 137165	0	3.542564e-01	7200
## 30380	0	9.689397e-01	2800
## 97133	0	3.479072e-01	3750
## 87133	0	2.767092e-01	6186
## 135175	0	4.798027e-01	7500
## 104594	0	1.499625e-03	4000
## 126233	0	1.782265e-01	6833
## 74502	0	2.537491e-01	4200
## 79170	0	2.812985e-01	6437
## 30475	0	3.624490e-01	6124
## 142537	0	2.852883e-01	3017
## 66501	0	3.879224e-02	5000
## 122642	0	4.270133e-01	5500
## 47529	0	9.488212e-03	3477
## 79502	0	6.294227e-01	2684
## 46281	0	5.571031e-03	4666
## 46373	0	3.627740e-01	7800
## 33487	0	8.603124e-03	4416
## 83600	0	2.981063e-01	1636
## 38852	2	3.255177e-01	3283
## 66744	0	4.443457e-02	4500
## 22613	1	3.473888e-01	7754
## 61505	0	1.030492e+00	4000
## 99488	0	5.183171e-01	6250
## 104663	0	2.868251e-01	4500
## 40201	0	1.780198e-01	5049
## 5852	0	4.887590e-04	2045
## 64496	0	6.507132e-01	7500
## 24048	0	3.945211e-01	5000
## 145850	0	1.498501e-03	2001
## 55953	0	3.394151e-01	4000
## 69200	0	3.000651e-01	6141
## 95933	0	6.000000e+00	0
## 111685	0	4.047074e-01	4800
## 141259	1	4.258065e-01	5579
## 28758	0	4.122646e-01	6000
## 105408	0	3.036420e-01	7083
## 40964	0	4.258471e-03	5400
## 99734	0	4.128801e-01	2794
## 90279	1	1.614124e-02	3964
## 66543	0	6.342438e-01	1500
## 46292	0	9.055236e-01	4000
## 78667	0	2.787728e-01	5638
## 112408	0	1.695661e-01	5000
## 97138	0	0.000000e+00	5352
## 117594	0	3.696099e-01	5843
## 102746	0	1.811240e-01	3273
## 97991	98	0.000000e+00	3000
## 129141	0	2.372479e+00	2230
## 114932	0	9.863211e-02	4166
## 24444	0	3.647271e-01	1666
## 56533	1	7.201399e-01	2000
## 130391	0	4.623074e-02	2400

## 47158	0 1.173929e-01	8100
## 123114	0 4.277044e-01	2800
## 9409	0 6.998600e-02	5000
## 39659	0 1.907551e-01	6316
## 13872	0 2.608242e-03	3833
## 137331	0 3.287063e-01	1800
## 131287	0 1.054398e+00	5900
## 5545	0 6.890030e-02	3700
## 88757	0 2.818140e-01	2160
## 134187	0 0.000000e+00	8000
## 11708	3 2.482190e-01	8000
## 15191	0 6.917114e-02	3353
## 86030	0 1.311251e+00	950
## 127164	0 1.526158e-01	3000
## 140441	0 2.228418e-01	5200
## 40618	0 4.398241e-03	2500
## 10066	0 3.887393e-01	8542
## 112846	0 3.704815e-01	6666
## 117575	0 2.507498e-01	5000
## 132438	0 0.000000e+00	2300
## 62832	0 2.740060e-01	3696
## 132753	0 2.498966e-01	7250
## 75336	1 3.456703e-01	7078
## 100649	0 1.431328e-01	5700
## 22523	1 1.768100e-01	7278
## 135359	1 1.318298e-01	4300
## 55777	0 4.243394e-01	7189
## 95984	0 6.934541e-01	5300
## 124213	0 5.831334e-01	5833
## 85983	1 9.034193e-01	1666
## 50303	0 7.095630e-03	6200
## 56045	0 1.671004e-02	7300
## 60619	0 1.023591e-01	2500
## 147227	0 8.651721e-02	3166
## 30503	0 9.242391e-02	4500
## 143020	0 2.492226e-01	2250
## 120720	0 3.398760e-01	2903
## 62848	0 1.290214e+00	3269
## 130312	0 1.579684e-01	5000
## 47930	0 4.145171e-01	5000
## 98226	0 1.894660e-01	4100
## 2256	0 5.506812e-01	6678
## 22517	0 5.802469e-03	8099
## 103788	0 4.871164e-01	6092
## 130763	0 4.269081e-01	3091
## 1087	0 1.480248e-01	2100
## 35351	0 1.273726e-02	4003
## 48046	0 4.500982e-01	5600
## 81276	0 2.778088e-01	7173
## 115010	0 5.956809e-01	5000
## 108160	0 6.072470e-01	2400
## 112302	0 2.035055e-02	8500
## 81168	0 2.533000e+03	0
## 44465	0 2.118753e-01	5422

## 4062	1	2.821941e-01	4666
## 133756	0	6.064352e-01	5500
## 119612	0	3.557777e-02	3400
## 89172	0	6.184923e-01	2400
## 133678	0	2.054795e-02	2043
## 63994	0	6.865870e-01	7529
## 59551	0	1.666390e-04	6000
## 6608	1	3.626251e-01	8090
## 138868	0	7.257970e-02	8500
## 77027	0	8.618123e-01	3089
## 56010	0	3.081187e-01	6133
## 38854	0	3.003180e-01	2200
## 67098	1	3.847595e-01	1600
## 1084	0	1.296235e-01	3000
## 30713	0	1.450546e-01	6500
## 50796	1	4.307030e-03	6500
## 121850	0	2.090720e-01	1917
## 32571	1	1.018512e+00	2700
## 19196	0	2.479857e-01	3350
## 37495	0	2.644393e-01	3860
## 62027	0	1.632789e-02	3000
## 105008	0	3.221782e-01	5049
## 28940	0	4.900000e+01	0
## 127877	0	5.115424e-01	6800
## 60218	0	1.209000e+03	0
## 139427	0	2.247216e-01	4489
## 6888	0	2.433822e-01	5250
## 83308	0	2.350319e-01	8300
## 143118	0	1.484399e-02	3300
## 63957	0	2.913821e-01	3074
## 63363	0	1.156474e-01	6000
## 97203	0	4.257624e-01	6000
## 149826	0	3.123123e-01	8324
## 401	0	9.265000e+02	1
## 112362	0	8.531058e-03	3750
## 71156	0	3.951890e-01	2036
## 35327	0	8.881853e-02	6000
## 59961	0	2.497598e-02	1040
## 121795	0	2.567748e-01	2250
## 133664	0	1.179764e-02	5000
## 146016	0	0.000000e+00	1200
## 123449	0	7.698324e-01	6264
## 139085	0	6.028680e-02	3416
## 133934	0	3.626747e-01	2646
## 41782	0	8.629412e-01	1699
## 35089	0	5.974199e-01	4495
## 40281	0	4.048988e-02	4000
## 65531	0	2.892817e-01	6166
## 102275	0	5.987006e-01	2000
## 68212	0	2.543057e-01	6444
## 83080	0	1.938633e-01	2150
## 78107	0	4.678395e-01	5456
## 23903	0	2.610357e+00	3166
## 67	2	3.164164e-01	7723

## 82600	0 4.179303e-01	6000
## 54199	0 2.366833e-01	5800
## 120465	2 7.400866e-01	3000
## 62973	0 2.725798e-01	5546
## 66710	0 2.540323e-01	6447
## 43557	0 1.169975e-01	6700
## 141722	0 1.231399e-01	7324
## 117025	0 1.444850e-01	2193
## 88533	1 7.200861e-01	6969
## 116973	0 1.186488e-02	7163
## 118367	0 1.600079e-01	5080
## 130293	0 1.955028e-01	1600
## 128346	0 1.618553e+00	2500
## 48837	2 3.855164e-01	7000
## 115962	0 5.149701e-01	500
## 134741	0 5.888785e-01	3200
## 83877	0 1.543210e-03	3239
## 56731	0 4.284824e-02	6417
## 83662	0 9.454442e-02	3500
## 54305	0 1.069310e+00	3000
## 76568	0 2.399360e-02	3750
## 108816	0 2.777500e-01	5990
## 92641	0 3.813155e-03	4195
## 101693	2 6.755053e-01	4600
## 94901	0 3.510874e-01	5425
## 119986	0 2.517185e-01	8000
## 147026	0 1.629708e-01	6583
## 64596	1 2.659557e-01	6000
## 99868	0 4.433714e-02	6833
## 2074	0 1.173129e-01	4048
## 62604	0 3.789242e-01	5000
## 116383	0 0.000000e+00	6208
## 19701	0 9.640562e-02	4200
## 91221	0 4.038990e-01	4000
## 143989	0 6.327643e-01	2752
## 28032	1 6.051613e-01	1549
## 28909	0 4.499250e-03	6000
## 12598	0 1.190193e-03	4200
## 55898	0 6.280716e-01	2400
## 2001	0 3.653144e-03	5200
## 53834	0 1.531852e-01	6749
## 66400	0 1.286825e-01	4242
## 147326	0 1.045969e+00	1500
## 138207	0 5.816067e-01	2750
## 31030	0 1.604438e-02	6668
## 79799	0 2.459272e-01	4480
## 138889	2 3.540769e-01	5800
## 137353	0 5.184004e-01	4075
## 117282	0 2.716214e-01	6000
## 144781	0 3.415922e-01	2461
## 38237	0 1.274000e+03	0
## 123729	0 1.561298e-01	6500
## 32829	0 5.619962e-01	5209
## 111146	0 6.919388e-02	4378

## 144761	0 7.880848e-01	2500
## 78895	0 3.373322e-01	3500
## 3847	0 4.536266e-01	5045
## 12770	0 9.585104e-01	4000
## 21780	0 4.432136e-01	7853
## 72862	0 4.296066e-01	5795
## 39664	0 4.776549e-01	6600
## 147648	0 2.006239e-01	8333
## 49911	0 2.195022e+00	2450
## 98525	0 7.376362e-02	1192
## 39734	0 0.000000e+00	3866
## 15293	0 0.000000e+00	6250
## 92603	0 2.266364e-03	7500
## 52390	0 8.163265e-02	3625
## 22332	0 3.014225e-01	2600
## 99790	0 7.260657e-01	1430
## 28505	0 2.396953e-01	6695
## 179	0 9.075385e-01	2400
## 141941	0 2.003536e-02	1696
## 143978	0 1.002515e+00	1192
## 28162	0 4.667852e-01	4500
## 36474	0 1.430158e-01	3600
## 130013	0 2.730924e-01	8216
## 77118	0 4.497265e-01	5300
## 59253	0 9.445111e-01	3333
## 105014	1 4.581597e-01	8400
## 25339	0 1.493859e-01	3500
## 17781	0 5.588061e-01	6733
## 97303	0 0.000000e+00	5333
## 51365	0 6.364722e-01	6700
## 142787	0 5.711136e-01	906
## 137285	0 6.653578e-01	4583
## 111844	0 8.655854e-01	4500
## 52411	0 6.873251e-01	2500
## 42918	0 1.852307e-01	5700
## 91856	0 2.111814e-01	4900
## 528	1 7.906137e-01	3600
## 138086	0 3.041849e-01	1600
## 39520	0 5.372140e-01	4500
## 68153	0 4.601812e-01	8500
## 13698	0 1.789097e-02	4750
## 20529	0 2.380952e-02	671
## 100779	0 3.057575e-01	8666
## 113654	0 6.481481e-03	2159
## 8253	0 2.439070e-01	5333
## 26905	0 3.929252e-01	4720
## 7884	2 1.131794e-01	6714
## 69832	1 3.367967e-01	5100
## 143426	0 1.705084e-01	3166
## 39870	0 2.999211e-02	3800
## 90034	0 1.163832e-02	5584
## 37550	0 2.787579e-02	2833
## 68694	0 3.337980e-01	5020
## 98548	0 5.347326e-02	2000

## 109321	0 5.204275e-01	5800
## 38408	1 4.356171e-01	4480
## 139790	0 3.856209e-01	2600
## 119542	0 2.100000e+01	0
## 5147	0 3.013855e-01	7000
## 79369	0 3.756848e-01	3832
## 50336	1 2.099533e-01	4500
## 104719	1 3.348264e-01	6250
## 85533	0 2.985403e-01	5000
## 47490	0 5.042399e-01	4834
## 103843	0 1.742752e-01	3000
## 93772	0 1.430067e-01	4775
## 74642	0 2.818749e-01	6250
## 106033	1 7.826087e-03	3449
## 89927	0 3.866667e-01	4049
## 5542	0 5.427619e-01	2700
## 32416	1 5.274434e-01	4900
## 74827	1 1.052838e+00	2800
## 129219	0 7.756636e-03	8250
## 106621	0 1.955671e-02	2300
## 100972	0 2.077457e-01	4750
## 60441	1 5.833667e-01	2500
## 122500	0 8.730931e-02	3080
## 119705	0 2.511192e-01	4690
## 34234	0 2.461503e-01	4350
## 135562	0 2.052863e-01	3404
## 5982	1 1.063218e+00	8620
## 136711	0 2.805590e-01	4793
## 107323	0 5.637681e-01	4139
## 19362	0 2.580100e+04	0
## 37705	0 2.942017e-02	3500
## 71538	0 3.597528e-01	5500
## 92993	0 6.748466e-01	4400
## 71160	0 2.695055e-03	7420
## 18869	0 5.296941e-01	5000
## 3133	0 6.405035e-01	2700
## 21808	2 5.217659e-01	6500
## 14648	0 4.833606e-01	1832
## 92840	0 2.959155e-01	3500
## 59874	0 1.057309e+00	8584
## 120243	0 0.000000e+00	1250
## 18106	0 1.620553e-01	505
## 127546	0 0.000000e+00	898
## 15626	0 1.555986e-01	4125
## 34050	1 3.372771e-01	6000
## 74390	0 4.010000e+02	0
## 50538	0 5.073021e-02	1300
## 117336	0 2.275531e-01	2917
## 142311	0 5.900000e+01	0
## 134565	0 3.713225e-03	3500
## 49941	0 5.885781e-02	5147
## 93258	0 2.504798e-01	2083
## 90032	0 7.277757e-01	5241
## 148426	0 3.769058e-01	4000

## 82333	0 3.482121e-01	4166
## 28138	2 4.618158e-01	3050
## 65061	0 2.435717e-01	7816
## 144080	0 1.034483e-01	2116
## 149191	0 1.358806e+00	7000
## 98535	0 1.913652e+00	3288
## 8815	1 4.546277e-01	3316
## 132242	1 2.385000e+02	1
## 17759	0 3.102283e-01	7400
## 12579	0 1.134573e+00	5000
## 89820	0 7.773459e-03	1800
## 120457	0 3.401320e-01	5000
## 66382	0 6.846315e-01	5250
## 79768	0 6.056130e-01	6092
## 11337	0 4.219297e-01	6000
## 25980	0 6.797312e-01	6250
## 29974	0 9.124090e-04	6575
## 107425	0 4.595695e-02	1718
## 81473	0 9.486508e-01	3816
## 137853	0 9.846918e-02	2416
## 24520	4 7.087126e-01	3844
## 64880	0 8.842157e-01	8083
## 19191	0 1.759281e-01	4228
## 86061	0 5.026285e-01	3423
## 100695	0 2.678928e-02	2500
## 6897	1 3.878134e-01	3150
## 107583	0 3.688505e-01	4166
## 50360	0 6.117961e-01	3000
## 29533	0 6.021350e-01	3465
## 139697	0 1.188664e+00	3651
## 11079	0 3.374157e-02	4000
## 102556	0 1.043668e+00	2289
## 65732	0 4.788956e-01	3150
## 31684	0 3.716599e-01	2469
## 57347	2 2.698014e-01	4380
## 13208	0 7.904023e-02	4250
## 5779	4 1.809095e+00	2110
## 29109	0 1.464883e-01	1494
## 1563	0 3.625458e-01	3000
## 65499	0 4.199440e-01	7500
## 117659	1 1.555452e-01	4300
## 34426	0 5.071643e-01	3000
## 146051	0 4.218104e-01	7500
## 22430	0 1.364513e+00	3110
## 10726	0 1.805853e-01	1400
## 56035	0 5.186160e-01	7600
## 66077	0 7.605711e-02	7283
## 98769	0 5.690653e-01	3626
## 78661	0 3.857442e-02	2384
## 117193	0 2.031883e-01	3700
## 140398	0 4.287690e-01	2168
## 146914	0 2.842202e-01	3250
## 112482	0 6.359864e-01	2650
## 131414	0 0.000000e+00	1400

## 121887	0 3.917186e-02	8500
## 20799	1 1.080609e+00	3150
## 5665	0 3.579197e-01	5056
## 59073	0 1.265916e-01	4083
## 26452	0 8.873239e-01	1916
## 45671	0 0.000000e+00	800
## 124779	0 5.227825e-01	7000
## 95152	0 2.115656e-02	4253
## 96688	0 9.895502e-01	2200
## 66818	0 7.764412e-02	6400
## 141721	0 2.774460e-01	2176
## 121338	0 1.117633e+00	8500
## 87049	0 2.747710e-01	1200
## 60609	0 1.615903e-01	4300
## 100591	0 3.246701e-01	2500
## 51411	0 7.767597e-01	2400
## 83990	0 6.018091e-01	5416
## 147078	0 1.936336e-02	6816
## 87174	1 2.030895e-01	2200
## 146716	0 1.345060e-01	5627
## 21109	1 2.264107e-01	4323
## 24992	0 1.544051e-02	1100
## 48930	0 7.880926e-01	4534
## 41425	0 5.291500e-01	4493
## 102881	0 3.234346e-01	7441
## 96329	1 2.599480e-02	5000
## 11057	0 2.085583e-01	5000
## 97429	0 3.797304e-01	7715
## 36570	1 4.065330e-01	3091
## 362	0 6.981208e-01	2500
## 133163	0 1.009249e-01	3675
## 91070	0 2.825294e-01	7400
## 57997	0 7.014816e-01	5466
## 95764	0 3.180873e-01	4809
## 30947	0 6.665432e-03	5400
## 120042	0 1.553223e+00	2000
## 121871	1 4.387224e-01	7106
## 114843	0 3.790912e-01	6293
## 3185	1 2.172641e-01	4100
## 57334	0 1.499737e-01	5700
## 125911	0 3.855995e-01	3360
## 83745	0 3.469306e-01	5000
## 28691	0 5.192308e-01	2183
## 29167	0 8.838232e-02	5000
## 6359	0 1.140671e-01	5750
## 83197	0 2.757794e-02	2501
## 48986	0 2.511590e-01	3666
## 18882	0 1.374828e-02	8000
## 20695	0 1.994288e-01	2100
## 101902	0 4.302207e-01	2944
## 69463	0 4.401642e-01	3166
## 66474	1 2.302081e-01	3700
## 86937	0 2.723782e-02	8333
## 75935	0 1.170055e+00	2557

## 914	0 1.949638e-01	2620
## 82770	0 1.555971e-01	3206
## 101995	0 1.121776e-01	5000
## 120144	0 1.056647e+00	864
## 36119	0 2.306813e-01	7000
## 34902	0 2.996118e-01	8500
## 25482	0 8.730423e-02	3000
## 23006	0 3.242507e-01	1100
## 22007	0 2.039592e-02	6667
## 25974	0 1.576519e-01	3900
## 110690	0 1.646502e-01	1900
## 95261	0 1.356658e-01	2800
## 20038	0 3.883058e-01	2000
## 71654	2 1.391193e-01	4700
## 39862	1 3.650375e-01	4930
## 26827	0 1.021996e+00	6000
## 145316	0 4.304250e-01	5317
## 121726	0 5.249063e-02	5600
## 149792	0 0.000000e+00	1000
## 50272	0 3.800640e-01	1875
## 66450	0 2.645000e+02	1
## 3979	0 4.139988e-01	5028
## 130912	0 3.647818e-01	6666
## 144934	0 1.655228e-02	2476
## 45454	0 4.416842e-01	4749
## 77136	0 3.886730e-03	1800
## 97111	0 6.786002e-01	2485
## 73136	0 3.646765e-01	7603
## 54351	0 1.450131e-01	1523
## 140700	0 5.880085e-02	5186
## 3773	0 4.954875e-03	5650
## 87222	0 4.705464e-01	7027
## 30920	1 1.833762e-01	3500
## 109295	0 8.370616e-01	3620
## 99890	0 3.746878e-02	1200
## 64868	0 3.621633e-01	4566
## 139869	0 3.985181e-01	3778
## 90244	0 5.176627e-01	4500
## 47414	0 1.541025e-02	2400
## 123146	0 2.302945e-01	5670
## 32492	1 1.035586e-01	2500
## 123568	0 8.033989e-01	3000
## 131005	0 8.812715e-01	2610
## 44595	0 1.523906e-01	4914
## 126169	0 7.461695e-01	5416
## 88977	0 5.352362e-01	3958
## 127410	0 1.664134e+00	2500
## 136279	0 2.068491e-01	8000
## 48668	1 2.075636e-01	4600
## 11318	0 3.172805e-01	6000
## 113286	0 1.859256e-01	2500
## 36192	0 5.505196e-01	6927
## 141082	0 1.269769e-01	4362
## 29930	0 4.999208e-01	6310

## 84916	0 2.114978e-02	5200
## 475	1 2.804945e-01	5500
## 71318	1 4.784406e-01	5078
## 39300	0 3.826237e-02	3475
## 38345	0 4.049325e-02	6000
## 141532	0 3.131913e-01	6056
## 51022	1 4.685363e-01	7166
## 118168	1 6.784314e-01	764
## 48823	0 1.261394e-01	3400
## 2759	1 1.363121e-01	4408
## 45120	0 6.876022e-01	6113
## 60646	0 4.127564e-01	3558
## 118943	0 1.591793e-01	4629
## 86042	0 0.000000e+00	2000
## 140755	0 3.655639e-03	5470
## 31869	0 2.185808e-01	7200
## 106282	0 2.569088e-01	7200
## 2722	0 1.106519e-02	7500
## 122274	0 2.913953e-03	5833
## 49010	0 4.380665e-01	6950
## 14407	0 4.998334e-03	3000
## 70081	2 5.647392e-01	6000
## 111954	0 1.055000e+03	0
## 33653	0 4.304466e-01	7008
## 64633	0 5.767004e-01	5527
## 666	0 3.675537e-01	6613
## 94231	0 3.007552e-01	2250
## 17841	0 8.942662e-03	1900
## 66514	3 1.385681e-03	2164
## 11963	1 1.896130e-01	6950
## 47390	0 7.199177e-03	5833
## 142246	0 8.524992e-02	3260
## 15569	1 6.103088e-01	4015
## 75162	0 2.044990e-01	4400
## 125754	0 3.833616e-01	7668
## 139846	0 1.943611e-01	1666
## 48937	0 1.068278e-01	3060
## 63382	2 8.669571e-01	2983
## 37073	0 2.312087e-01	7875
## 26123	1 2.990176e-01	7226
## 87702	0 2.793923e-01	3027
## 31461	0 3.481086e-01	6000
## 134941	0 4.546544e-01	7508
## 79392	0 5.617413e-01	7166
## 18193	3 4.839710e-01	2900
## 55262	0 3.461635e-01	4000
## 36756	1 5.218009e-01	4930
## 148258	0 0.000000e+00	864
## 48041	0 2.876185e-01	3375
## 139800	1 3.093268e-01	5317
## 119698	0 3.998585e-01	2825
## 86056	0 5.268704e-02	2846
## 42599	0 4.201161e-01	7754
## 101011	0 2.631946e-01	5740

## 37094	0 2.585201e-01	3256
## 4869	0 3.857099e-01	6465
## 9247	0 2.259786e-01	3933
## 6119	0 4.169080e-01	7250
## 91192	0 5.716401e-01	2700
## 17021	0 5.602923e-02	820
## 95865	0 9.600000e+01	0
## 89204	0 2.220000e+03	0
## 82825	0 2.714914e-01	2500
## 8221	0 4.748119e-01	7840
## 18337	0 4.495072e-01	7000
## 121333	0 2.060575e-01	3862
## 89223	2 5.285886e-01	2500
## 28030	0 1.274602e-01	3200
## 45756	0 5.999000e-02	6000
## 121176	2 1.468561e-01	7108
## 87772	0 8.647854e-01	1700
## 117902	0 5.018443e-01	5150
## 144930	0 2.692308e-01	4471
## 98161	0 3.198516e-01	2694
## 61745	0 3.059235e-01	4000
## 130409	0 3.493192e-01	8298
## 32709	0 3.898816e-01	4980
## 85201	0 4.147377e-01	4708
## 69018	0 6.665834e-01	4000
## 88897	3 3.775157e-01	7800
## 65387	0 1.038262e-02	5200
## 135665	0 1.518276e-01	3200
## 68154	0 6.227380e-01	5083
## 7875	0 4.012290e-02	5532
## 32201	0 4.442007e-01	7750
## 127718	0 2.494108e-01	4666
## 92963	0 2.194313e-01	2109
## 108110	0 2.744315e-01	5760
## 18790	1 4.221215e-01	6400
## 109243	2 6.996502e-03	2000
## 121638	0 1.395132e-01	8586
## 127289	0 3.340638e-01	7300
## 68991	0 5.085542e-01	5318
## 67992	0 5.051485e-01	5049
## 41170	0 3.060912e-01	3266
## 23422	0 1.495894e-01	2800
## 117714	0 3.058552e-01	7787
## 45376	0 3.993890e-01	7200
## 106865	0 7.672931e-01	5001
## 86319	0 6.034215e-01	4500
## 22293	0 2.209424e-01	3819
## 122311	3 2.051836e-01	4166
## 69961	0 4.190019e-01	6672
## 68	1 6.810458e-01	764
## 85670	0 5.731991e-01	1290
## 65641	0 4.181597e-01	3292
## 137471	0 2.842190e-01	1241
## 93330	2 3.257655e-01	4800

## 17362	0 2.623475e-01	5000
## 108538	0 1.300132e+00	2278
## 145749	0 3.650753e-02	3916
## 123387	0 1.664096e+00	3500
## 116921	0 4.655813e-02	3500
## 83218	0 2.697089e-01	6113
## 25655	0 8.824470e-01	2500
## 90193	2 1.121128e-01	6100
## 89851	0 2.336403e-01	4125
## 55832	0 3.635700e-04	5500
## 92547	0 7.479178e-01	1800
## 68420	1 1.622917e-01	4380
## 147977	0 5.254915e-01	3000
## 47222	0 0.000000e+00	3505
## 51070	0 2.304994e-02	5986
## 119980	0 1.820128e-01	1400
## 135320	1 2.320933e-01	1800
## 74452	0 1.108803e+00	1010
## 21263	0 3.700504e-01	4166
## 59695	0 4.139000e+03	0
## 141582	0 2.282953e-01	6000
## 11330	0 3.355144e-01	2750
## 35532	1 4.566358e-01	4000
## 119022	0 3.526805e-01	2256
## 97269	0 1.109139e-01	2253
## 12663	1 1.233987e+00	764
## 116551	0 2.356513e-01	6916
## 88489	0 1.793946e-01	3600
## 54519	0 2.255532e-01	1400
## 37838	0 6.032106e-01	6166
## 133115	1 7.936550e-01	3750
## 66231	0 2.829816e-01	6586
## 17198	0 7.748963e-01	5783
## 88368	0 8.063395e-03	7192
## 65430	0 5.399240e-01	5259
## 93417	0 6.872976e-02	2778
## 59411	0 3.897402e-02	3001
## 56505	0 4.940675e-01	7500
## 35914	0 2.166098e-01	7621
## 43484	0 3.834466e-01	2500
## 148036	0 9.125355e-02	3166
## 58522	0 2.808137e-01	5800
## 149331	0 1.415887e-02	4166
## 6798	0 3.897895e-01	5366
## 83601	0 6.284932e-01	1824
## 105817	0 5.376344e-02	929
## 144488	0 1.681015e+00	1300
## 11666	1 3.644689e-01	2183
## 96733	0 1.999000e-03	2000
## 117729	0 7.403729e-01	4933
## 127342	1 7.548301e-01	1500
## 78240	0 2.767198e-01	5145
## 54913	0 7.835221e-01	5473
## 65259	0 2.601184e-01	6250

## 47144	1	2.495358e-01	7000
## 90338	0	3.176528e-01	6100
## 66151	0	7.359477e-01	764
## 128909	0	5.021214e-01	5420
## 27604	0	4.698773e+00	2200
## 19342	0	1.403195e+00	2628
## 147323	0	0.000000e+00	4400
## 74238	0	1.867677e-01	1450
## 109769	0	4.938272e-02	1700
## 146545	0	1.689578e-01	4000
## 120210	0	5.066938e-01	5900
## 93146	0	8.493823e-01	5908
## 28928	0	4.844025e-01	6250
## 52705	0	1.607321e+00	600
## 47405	0	2.235772e-01	5165
## 93239	0	3.071161e+00	800
## 29016	0	1.195761e-01	5000
## 33936	0	1.683248e-01	3718
## 65093	0	5.282453e-02	6000
## 128700	0	9.371206e-01	2305
## 59138	1	1.114611e+00	8000
## 57807	0	1.050397e-01	5416
## 117108	0	4.598467e-02	3000
## 77318	0	7.875760e-01	2301
## 128531	0	2.930460e-01	4500
## 75516	0	6.996113e-02	1800
## 38930	0	1.637752e-01	1440
## 61026	0	2.945881e-01	3750
## 142614	0	4.769725e-01	2800
## 20836	0	2.865214e-01	2477
## 103415	0	1.028201e-01	7410
## 87857	2	4.829623e-01	2200
## 4981	0	3.837573e-01	7350
## 12	0	5.315288e-01	6501
## 66143	0	3.978563e-01	6250
## 72113	0	2.887351e-01	2600
## 113928	0	3.521364e-01	4750
## 140987	0	2.067989e-01	6000
## 25661	0	1.107223e-01	4000
## 127648	0	3.448773e-01	4850
## 132619	0	1.042753e-03	3835
## 139257	0	3.596884e-01	6032
## 91385	0	2.083625e-01	7150
## 91852	0	2.168897e-01	6500
## 134917	5	4.493412e-01	2200
## 102964	1	5.328275e-01	6853
## 142457	1	5.069991e-01	7500
## 43838	0	2.540703e-01	2333
## 1644	0	1.941581e-01	4073
## 129512	0	5.048907e-01	3475
## 100812	0	2.273658e-01	6350
## 112886	0	3.901742e-01	3500
## 88075	0	5.146925e-01	3300
## 132449	0	2.176626e-01	4166

## 35345	0 5.941583e-01	1300
## 48207	0 6.803082e-01	7916
## 60669	2 2.333646e-01	3200
## 148798	1 9.472551e-03	4644
## 42447	0 5.214957e-01	5000
## 142065	0 3.657932e-01	5647
## 93241	0 5.813856e-01	4791
## 114896	0 1.792807e-01	7200
## 55060	0 2.729864e-01	6666
## 81565	0 3.059049e-01	4690
## 144526	0 2.328264e-01	1906
## 19585	0 3.074906e+00	800
## 133941	0 6.131341e-01	4750
## 68484	0 1.989241e-02	7992
## 15046	0 4.765047e-01	5000
## 111201	0 3.422550e-01	6500
## 1578	0 5.341554e-01	4054
## 58669	0 7.700486e-02	6583
## 61175	0 0.000000e+00	4096
## 57363	0 4.139988e-01	5028
## 71519	0 5.361702e-01	2819
## 9242	0 1.802600e-01	7000
## 21116	0 3.941550e-02	5200
## 51488	0 8.639309e-03	4166
## 139151	0 2.577205e-01	4500
## 28979	0 3.396173e-01	3500
## 97856	1 2.154855e-01	6250
## 101530	0 2.854294e-01	6519
## 19976	0 5.813449e-01	3687
## 97330	0 4.061679e-01	5706
## 93205	0 1.717710e-01	6758
## 57932	0 1.177632e-01	8100
## 97328	0 6.111862e-01	3700
## 39911	0 6.696091e-01	792
## 59076	0 2.656497e-01	1900
## 42398	0 3.363114e-01	4700
## 95233	0 1.340198e+00	1310
## 142950	0 2.407000e+03	0
## 127535	0 1.371785e-01	2565
## 135231	0 1.520689e-01	4760
## 45554	0 5.749281e-03	8000
## 28642	0 1.006397e+00	2500
## 125461	0 6.589412e-02	4400
## 32223	0 1.538951e-01	7855
## 40209	1 1.996365e-01	3300
## 102136	0 5.094423e-01	4500
## 109566	0 2.269810e-01	6700
## 86852	0 1.913867e-01	5804
## 15797	0 2.474807e-01	4266
## 104507	0 1.769558e-01	4000
## 115158	0 1.799625e-01	4800
## 141503	1 2.907968e-01	3400
## 134225	2 5.618369e-01	6031
## 119694	1 9.850250e-01	600

## 49979	0 3.302225e-02	4178
## 133552	0 4.741641e-01	6250
## 5798	2 1.378841e-01	3676
## 13297	0 1.953111e-01	5416
## 63427	0 1.852050e-01	7488
## 11470	0 1.889110e-01	3011
## 58487	0 2.159270e-01	5700
## 49058	0 3.987463e-01	7816
## 87962	0 7.544152e-01	3000
## 70417	0 5.472724e-02	5700
## 107185	0 5.203102e-01	7606
## 76545	0 2.449184e-01	3000
## 111091	0 6.831436e-01	3600
## 106028	0 2.388806e-01	2000
## 11609	0 5.315080e-01	2300
## 39488	1 2.888465e-01	4195
## 50098	0 7.081722e-01	7500
## 147983	0 1.073119e-01	1900
## 90362	0 4.901085e-01	4700
## 3231	0 0.000000e+00	4501
## 1189	0 3.402001e-02	8494
## 33890	0 2.929590e-01	4416
## 60155	0 1.730904e-01	5707
## 88455	0 7.808750e-02	5416
## 48171	0 3.220147e-01	5300
## 68893	1 4.460721e-01	8464
## 23175	0 4.756191e-01	3916
## 19796	0 2.171016e-01	1800
## 15617	0 9.629045e-02	3800
## 85175	0 2.256051e-01	6568
## 52343	2 2.253862e-01	3300
## 117466	0 5.262585e-01	3674
## 118436	0 3.478261e-01	2000
## 145367	0 6.318273e-01	8476
## 35028	0 1.045791e-01	5000
## 2065	0 5.186836e-01	2916
## 22907	0 4.599078e-01	4339
## 135632	0 7.209275e-01	8667
## 129077	0 2.606939e-01	7176
## 117604	0 3.806101e-01	5146
## 116800	0 6.332733e-01	5000
## 79703	3 6.792936e-01	7813
## 56924	1 2.613438e-01	6875
## 127586	0 1.136926e-01	5250
## 33085	0 3.864657e-01	6900
## 77936	0 1.549110e-01	4550
## 87251	0 2.691858e-01	7700
## 65761	0 1.883263e-01	3100
## 131228	0 9.595870e-01	5616
## 129739	0 3.686052e-01	6000
## 91612	0 3.241081e-01	6250
## 60983	0 7.758544e-01	6700
## 9697	0 3.665267e-01	5000
## 70325	0 4.017288e-01	4395

## 124532	0 1.628940e-01	7200
## 94657	1 2.259138e+00	2133
## 76824	1 6.502016e-01	2975
## 146825	0 3.588934e-01	6650
## 112116	0 1.224545e-01	7414
## 95058	0 1.375626e-01	2994
## 77608	0 5.394094e-02	4300
## 136239	0 3.687540e-01	6323
## 112177	0 6.921953e-01	3420
## 53593	0 5.882368e+00	3816
## 4159	1 1.175294e-01	4500
## 143801	0 2.006100e-01	2950
## 7052	0 3.993073e-01	4041
## 72924	0 5.154799e-01	5167
## 6953	0 9.258148e-02	5000
## 70822	0 2.111141e-01	3760
## 26050	0 8.331418e-01	4350
## 57634	0 9.753231e-02	850
## 139590	2 6.153503e-01	4481
## 26927	0 7.755226e-02	3300
## 26454	0 6.620780e-02	6101
## 63872	0 0.000000e+00	5500
## 21624	0 1.932045e-02	1500
## 147134	0 2.424596e-01	6000
## 1193	0 2.242833e-01	3557
## 115554	0 2.554978e-01	2500
## 46066	0 9.790893e-02	5116
## 22173	0 2.189562e-01	5000
## 118992	0 3.713939e-01	3292
## 71312	0 1.076923e+00	1650
## 45415	1 5.100970e-01	3812
## 6641	0 8.958805e-02	7500
## 65844	0 2.719226e-01	6100
## 64989	1 2.284286e-01	4600
## 33178	1 5.402730e-01	6666
## 126749	0 2.727931e-01	8280
## 93571	0 4.428919e-01	7800
## 77960	0 6.919666e-01	5862
## 103102	0 3.123567e-01	4798
## 131660	1 6.569082e-01	2800
## 66110	1 2.725599e-01	3800
## 834	0 3.350367e-01	4500
## 95680	0 2.414879e-02	6666
## 14166	0 3.285421e-03	2434
## 29391	0 3.911599e-01	7827
## 132622	0 6.812933e-02	865
## 126311	0 3.589606e-01	3732
## 846	1 3.325271e-01	7854
## 11818	0 5.308938e-02	3333
## 93257	1 1.110420e+00	4500
## 105592	0 2.398910e-01	2200
## 83974	0 3.329009e-01	6166
## 56022	0 1.741176e-01	3399
## 35037	3 5.779037e-01	5647

## 141732	1	3.843817e-01	7900
## 112497	0	2.894265e-01	2231
## 125466	0	1.742608e-02	7000
## 107982	0	3.305339e-01	5000
## 119466	0	8.469849e-01	3979
## 33668	0	1.550000e+02	0
## 79940	0	9.330302e-01	2418
## 37973	0	1.192773e-02	5700
## 91621	0	3.935355e-01	3000
## 125984	0	4.508475e-01	5014
## 9022	1	2.689561e-01	5881
## 119003	0	1.708460e-01	8533
## 102285	0	3.518801e-01	3935
## 104498	0	2.450944e-01	2700
## 113695	1	1.995020e-01	6425
## 60874	0	0.000000e+00	4000
## 140196	0	0.000000e+00	7800
## 125353	0	1.819297e-01	6518
## 68487	0	3.684662e-01	3500
## 21502	0	2.742274e-01	3332
## 6791	0	3.518374e-02	2557
## 109299	0	7.810962e-02	6093
## 60088	0	0.000000e+00	1835
## 102542	0	5.108802e-01	5100
## 18240	3	2.124469e-02	4000
## 34310	0	4.370517e-01	4042
## 119604	0	6.496732e-01	764
## 7501	0	1.279488e-02	2500
## 64738	0	1.515388e-01	6400
## 91227	0	4.199067e-01	4500
## 124306	0	3.657674e-01	2260
## 148273	0	2.990887e-01	6034
## 22791	0	8.258087e-01	5625
## 65848	0	0.000000e+00	864
## 115704	0	2.542131e-01	3500
## 16883	0	2.063885e-01	7262
## 4049	1	1.192020e+00	400
## 131864	0	1.335476e-01	5600
## 26530	1	6.740918e-01	2917
## 60443	0	9.286436e-01	7917
## 47737	1	6.778510e-04	5900
## 23459	0	5.999000e-03	6000
## 24560	0	3.470703e-01	6672
## 21864	0	1.154711e-01	4000
## 33009	0	1.441066e-01	2400
## 95465	0	2.332945e-03	6000
## 20203	0	1.997639e-01	3388
## 83672	0	4.374432e-01	3300
## 131599	0	8.100712e-02	7307
## 62371	0	2.579570e-01	6000
## 30681	0	4.279822e-01	3151
## 101776	0	1.243262e-01	5750
## 50865	0	1.077844e-01	1669
## 32903	0	2.733896e-01	5215

## 48351	0 3.110844e-01	6666
## 18296	0 3.528242e-01	2513
## 45317	1 2.715054e-01	7439
## 3100	0 5.248688e-03	4000
## 70286	0 1.815528e-01	3425
## 23292	0 3.686669e-01	5565
## 135377	0 2.681464e-01	5000
## 97197	0 1.157768e-01	5000
## 38011	0 2.793678e-01	2340
## 69672	0 4.878827e-01	3135
## 41640	0 1.016337e-01	6916
## 82122	0 4.235604e-01	3420
## 111882	1 4.609232e-01	6000
## 116942	0 4.861767e-01	2965
## 92516	0 6.846725e-01	5923
## 136375	0 3.778032e-01	7000
## 130710	1 4.445216e-01	7200
## 7818	0 3.019700e-01	3400
## 67260	0 3.246320e-01	3600
## 65187	0 3.574959e-01	1820
## 29611	0 2.888247e-03	4500
## 7317	0 2.935440e-01	8100
## 76909	0 1.235955e-02	2669
## 138551	2 3.447650e-02	5510
## 136883	0 2.188403e-01	4500
## 110625	0 1.160669e-01	5918
## 37083	0 1.405811e-02	3200
## 44500	0 6.807765e-02	7417
## 113037	0 4.031830e-01	6785
## 115304	0 9.753941e-01	2600
## 47631	0 7.603814e-01	3250
## 129045	0 1.068644e+00	3000
## 130885	0 8.980255e-01	4000
## 80309	0 1.481704e-01	3333
## 8738	0 7.899042e-02	4278
## 4956	0 3.972740e-01	7996
## 37082	0 6.956886e-01	7166
## 130340	0 2.216946e-01	4000
## 84057	0 2.551584e-01	6881
## 143839	0 5.206945e-01	6450
## 5190	0 2.742480e-01	6216
## 77714	0 3.707471e-01	8258
## 104484	0 1.166235e-01	2700
## 4342	0 3.175434e-01	4200
## 17776	0 3.745834e-01	4500
## 148097	0 9.369144e-03	1600
## 18830	0 7.277051e-01	5045
## 137807	0 0.000000e+00	8000
## 144553	0 1.805686e-01	3200
## 17134	0 5.791367e-01	3613
## 6512	0 7.029927e-02	7083
## 132109	0 1.972007e-01	4000
## 4743	0 9.762648e-01	1600
## 134433	1 1.353028e+00	2030

## 64374	1 5.336885e-01	6945
## 60986	0 1.134715e+00	7333
## 53098	1 2.142347e-01	4200
## 128567	0 2.366141e-01	4500
## 105269	0 6.837368e-01	7888
## 84920	0 1.027321e+00	5416
## 115408	0 1.124765e-01	6916
## 60829	0 2.382936e-01	6000
## 49606	1 0.000000e+00	4500
## 69296	0 3.647733e-03	3837
## 77184	0 3.788809e-01	5700
## 39947	0 3.521327e-01	4219
## 145528	1 2.332667e+00	1000
## 85198	0 2.151878e+00	1250
## 141776	0 4.000000e+00	0
## 105711	0 3.046894e-02	4200
## 90582	1 6.936285e-01	4833
## 36327	0 2.724970e-01	5922
## 116673	4 3.724332e-01	7450
## 124420	0 5.070000e+02	0
## 39920	0 4.321187e-02	3100
## 86814	0 1.592802e-01	3000
## 21438	1 1.412392e-01	1500
## 127993	0 6.450000e+02	0
## 15914	0 1.050985e+00	2333
## 98861	0 2.144799e-01	6988
## 5755	3 3.141143e-01	6000
## 70925	0 2.681265e-01	2054
## 31220	0 2.509881e-01	3541
## 25290	0 2.504638e-02	1077
## 136172	0 2.963017e-01	6840
## 105053	0 1.372549e-01	2600
## 67496	1 2.202899e-01	7934
## 123827	0 3.722098e-01	7167
## 123331	0 1.154461e+00	750
## 116894	0 1.689727e-01	8166
## 143781	1 4.629714e-01	2200
## 148700	0 1.267099e-01	4166
## 9539	0 3.878642e-01	5800
## 15262	1 4.397121e-01	5000
## 126019	0 4.885871e-01	5300
## 81218	0 2.963000e+03	0
## 72453	0 3.118061e-01	8376
## 148082	0 1.391629e-01	3750
## 33173	0 3.788600e-01	7350
## 4042	1 6.111944e-01	2000
## 82548	0 4.081863e-01	7988
## 105800	0 1.299385e-01	3416
## 3321	0 8.937198e-02	5795
## 145674	3 3.247968e-01	4060
## 23764	0 4.209474e-01	8000
## 146122	0 8.314402e-02	2200
## 132066	0 3.677634e-01	2400
## 139291	0 4.020257e-01	5133

## 1310	0 4.967292e-01	7031
## 61369	0 1.666204e-03	3600
## 148578	0 6.136364e-01	5059
## 110001	0 1.756864e-01	6300
## 126753	0 2.711208e-01	6450
## 117679	2 4.244297e-01	6311
## 13460	1 4.315088e-01	6905
## 109458	0 1.354281e+00	2195
## 71053	0 2.269700e-01	1801
## 148828	0 4.756098e-01	6067
## 27276	0 7.398520e-03	5000
## 149607	0 0.000000e+00	4666
## 112667	0 2.540909e-01	4399
## 83470	0 5.456354e-01	8041
## 128353	1 1.643343e-01	2500
## 132913	0 2.999000e-03	3000
## 59379	0 6.076437e-02	3636
## 102304	0 2.866131e-01	2860
## 108155	0 2.750600e-01	5416
## 120609	0 3.978975e-01	6943
## 42028	0 8.013893e-01	3166
## 23350	0 7.323944e-01	2200
## 79266	0 1.732155e-01	4300
## 110614	0 2.441512e-01	3333
## 141404	0 4.830344e-01	7750
## 78436	0 3.610556e-01	2500
## 4675	0 0.000000e+00	2453
## 118006	0 1.927266e-01	5416
## 122460	1 3.889245e-01	7800
## 111718	0 3.730473e-01	4800
## 146460	0 3.499000e-01	3500
## 109892	0 2.165196e-01	2493
## 49807	0 2.962201e-01	3888
## 138374	0 3.139372e-01	5000
## 133689	0 2.783888e-01	7000
## 74004	0 2.409012e-01	7500
## 134406	0 4.865740e-01	7410
## 52891	0 2.895672e-01	8156
## 104289	0 1.235797e-01	7128
## 72307	1 7.344741e-02	5200
## 74634	0 2.388118e-01	5116
## 88579	0 3.028486e-01	2000
## 52927	0 5.656496e-03	5833
## 116556	0 4.376405e-01	5780
## 140907	0 3.230272e-03	4333
## 50239	1 1.322576e-01	7250
## 43280	0 2.572980e-01	7364
## 70179	0 4.657454e-01	3400
## 147256	0 1.128696e-01	2400
## 6969	0 3.421812e-01	5198
## 4969	0 4.464202e-01	6410
## 20633	2 3.041000e+03	0
## 97804	0 8.997001e-03	3000
## 54014	0 6.772645e-01	5000

## 103045	0 5.647302e-01	5800
## 98099	0 3.705768e-01	4125
## 68133	0 3.068860e-01	6200
## 28118	0 9.225561e-02	7088
## 89627	0 6.675258e-01	2715
## 12376	0 3.690896e-01	5667
## 119332	1 1.805277e-01	6480
## 120878	1 3.196347e+00	437
## 56617	0 1.915081e-01	3414
## 99410	0 7.924415e-01	5000
## 140461	0 4.904051e-01	3282
## 31688	0 4.538808e-01	5333
## 53363	0 7.993610e-04	1250
## 130630	0 6.042995e-01	8000
## 146435	0 8.598280e-02	5000
## 44908	1 5.458167e-01	6525
## 24256	0 1.479507e-01	3000
## 83079	0 5.867665e-02	800
## 106497	0 5.974905e-03	5020
## 37215	0 3.020089e-01	2936
## 141842	0 1.148091e-01	7150
## 100110	1 2.304137e-01	4543
## 29569	0 7.286282e-01	2011
## 147164	1 4.825480e-01	4583
## 79994	0 2.213274e-01	3600
## 82009	0 3.008866e-01	5300
## 3693	0 6.615564e-02	6000
## 75612	0 7.598001e-01	3800
## 85182	0 2.754311e-01	4000
## 141648	0 5.125786e-01	6041
## 35845	0 9.205703e-02	4909
## 26730	0 6.577139e-01	1600
## 36780	0 1.860524e-01	7900
## 146713	0 9.945028e-02	2000
## 110226	0 2.595328e-01	5008
## 39957	0 9.876050e-02	2500
## 133343	0 4.694041e-01	7500
## 24049	0 3.136716e-01	4000
## 74705	1 7.331260e-01	6429
## 22865	1 9.186352e-02	8000
## 142911	0 2.180805e-01	2333
## 30960	1 1.389397e-01	3828
## 98929	1 1.379655e-01	4000
## 59952	3 2.358702e-01	4900
## 33858	0 1.451085e-01	3362
## 55176	0 5.808881e-01	3850
## 71778	2 4.729970e-01	1684
## 136957	0 1.463814e+00	2500
## 102852	0 2.880586e-01	3960
## 4487	0 1.008884e+00	1800
## 104254	0 3.775311e-01	6666
## 144067	0 1.987663e-02	5835
## 95158	1 5.988001e-01	8000
## 94204	0 3.143747e-01	6100

## 128360	0 3.702189e-01	4888
## 143161	0 5.482811e-01	7300
## 140148	0 1.518080e-01	6000
## 16665	1 4.137248e-01	8072
## 80011	0 1.982019e-01	4893
## 103140	0 7.659428e-01	2900
## 100846	0 1.175877e+00	2080
## 59355	0 5.766004e-01	6435
## 21448	0 2.482425e-01	6400
## 106231	0 6.861372e-02	4998
## 4638	0 5.070883e-01	2750
## 22871	0 5.536258e-01	6563
## 29363	0 4.414932e-01	2785
## 44615	0 5.476221e-01	7800
## 91147	0 8.565310e-03	2334
## 94438	0 2.104709e-03	3800
## 23468	0 2.509180e-01	4084
## 34575	0 5.164879e-03	2516
## 28256	0 1.839503e-01	3538
## 11571	0 4.095840e-04	4882
## 68761	0 5.521896e-01	6370
## 4228	0 8.364019e-01	1900
## 33519	0 2.433976e-01	1400
## 36434	0 8.402043e-01	5481
## 109520	0 4.501815e-01	2478
## 113874	0 2.596064e-01	3200
## 31700	0 4.926077e-01	4666
## 109269	0 2.255029e-01	8500
## 24586	0 2.663675e-01	4902
## 46357	0 6.639229e-01	4251
## 54182	1 3.391764e-01	8328
## 96646	0 2.170904e-01	6646
## 88142	0 4.316029e-01	7916
## 131182	0 4.423576e-01	6548
## 4751	0 3.676317e-01	4800
## 134762	0 9.419250e-01	3064
## 96310	0 4.602552e-01	1018
## 49511	0 3.251429e-01	3499
## 75344	0 1.208099e-01	4444
## 34344	0 9.041096e-02	1824
## 128539	0 5.033501e-01	4775
## 139877	0 4.179162e-01	2600
## 105669	0 2.501071e-01	7000
## 89179	0 2.424601e-01	1690
## 97191	0 4.411710e-01	5396
## 67719	1 5.593423e-01	7540
## 84613	0 4.073320e-01	5400
## 8149	0 8.848525e-02	6000
## 98827	0 3.603789e-01	7283
## 66428	0 5.528618e-01	4000
## 65009	0 3.374578e-03	8000
## 13203	0 1.258577e-01	5100
## 145843	0 3.748438e-03	2400
## 21352	0 2.523268e-01	2900

## 123764	0 4.792596e-03	6050
## 64447	0 2.249719e-03	8000
## 58225	0 1.631560e-01	2800
## 143139	0 1.756037e+00	1200
## 137605	0 1.009569e+00	3970
## 45472	0 2.639848e-01	4200
## 49340	0 1.802040e-01	7940
## 123529	0 4.030582e-01	5100
## 39498	0 5.368371e-01	8333
## 102385	1 2.987761e-01	4166
## 70505	0 4.129741e+00	500
## 105778	0 4.458958e-01	6200
## 113885	0 3.669035e-01	7178
## 149846	0 4.120830e-01	4435
## 70529	0 0.000000e+00	2332
## 118675	0 0.000000e+00	3627
## 63538	0 6.274510e-01	2600
## 61932	0 0.000000e+00	2000
## 30402	0 3.796551e-01	4000
## 72203	0 2.315378e+00	2171
## 119109	0 1.732756e-01	3000
## 53034	0 3.447586e-01	3500
## 132212	0 5.699456e-01	4045
## 65409	0 2.227935e-01	2333
## 55880	0 1.754500e+03	1
## 62507	1 5.912247e-01	3600
## 34	0 3.138123e-01	7000
## 144475	0 1.777478e+00	6295
## 4206	0 7.912010e-01	8500
## 92536	0 1.581403e-01	6000
## 118907	0 1.882123e-01	3070
## 51131	1 1.614731e-01	6000
## 136640	0 1.042214e-01	4950
## 32419	1 1.156000e+03	0
## 35880	0 1.300986e-01	3750
## 25672	0 3.029822e-01	5666
## 72205	0 2.938000e+03	1
## 125889	0 2.556938e-01	8517
## 138165	0 5.168539e-01	800
## 30062	0 2.830974e-01	1200
## 52542	0 3.893053e-01	2000
## 147021	0 6.207962e-01	5500
## 128679	0 1.468052e-01	8466
## 103932	1 1.931009e-01	8000
## 69732	0 6.188486e-01	7416
## 135709	0 8.044280e-01	3251
## 119263	0 2.332945e-01	6000
## 42544	0 2.783505e-01	3200
## 98926	0 2.961564e-01	4500
## 29637	0 2.627895e-01	6000
## 149288	1 2.432793e-01	4500
## 125390	0 3.412654e-01	5420
## 109802	0 6.128468e-01	4000
## 94050	0 5.512178e-01	8375

## 25055	0 4.028871e-01	4571
## 46653	0 2.683879e-01	3330
## 58057	0 4.668859e-01	4257
## 23021	0 6.647327e-01	8100
## 32782	0 5.660644e-02	7083
## 120190	0 3.516618e-01	4091
## 4833	0 7.117627e-01	3000
## 147817	0 3.374578e-03	8000
## 5337	1 4.363706e-01	2600
## 4987	0 5.310393e-01	4300
## 32329	0 1.799775e-02	2666
## 137866	0 3.696576e-01	4000
## 70662	0 1.028717e-01	2750
## 124970	0 1.748543e-02	1200
## 91782	0 1.759718e-03	6250
## 101110	0 5.444377e-01	4916
## 42712	0 1.403582e-01	2400
## 32723	0 8.331197e-02	3900
## 54193	1 3.923215e-01	5000
## 23565	0 6.294155e-01	6227
## 109798	0 5.652653e-01	6350
## 57390	0 1.373505e-02	2256
## 118662	0 5.613006e-01	1875
## 38005	0 2.456686e-01	2250
## 18276	0 3.439691e-01	4136
## 92495	0 4.993910e-02	820
## 115742	0 7.584139e-01	3000
## 58702	0 1.172774e-01	8432
## 71052	0 2.339908e-01	3700
## 113878	0 8.751387e-01	3603
## 126754	0 7.807398e-01	3000
## 43124	1 2.712475e-01	8600
## 11547	0 6.000969e-01	4125
## 106784	0 2.294713e-01	8000
## 95928	1 3.431777e-01	6060
## 39049	0 1.140494e-01	8583
## 144540	0 4.808760e-01	6666
## 34807	0 4.777537e-01	6000
## 53893	0 7.999360e+00	6250
## 88068	0 1.538225e-03	6500
## 93163	0 1.080024e-01	6647
## 125049	1 1.806065e-01	3000
## 86182	0 4.555979e-01	7600
## 117777	0 1.045505e+00	900
## 124527	0 6.357856e-03	1100
## 136234	0 1.439424e-02	2500
## 8587	0 2.616846e-01	4000
## 25124	0 2.295901e-01	3000
## 26503	0 0.000000e+00	1000
## 61975	1 4.809198e-01	6000
## 6473	0 3.180256e-01	3200
## 89696	0 4.546211e-01	1200
## 86965	0 2.587964e-01	5200
## 59928	1 3.105603e-01	4800

## 39104	0 1.519578e-01	8350
## 121103	0 2.545818e-01	3000
## 63423	1 9.117083e-03	2083
## 114319	1 2.260024e-01	3291
## 59536	0 2.342580e-01	7209
## 119165	0 3.965869e-01	8320
## 113614	0 7.037748e-02	4688
## 68521	0 9.485459e-01	4916
## 29138	1 5.855173e-01	6600
## 41000	0 2.202599e-01	3000
## 94395	0 1.970484e-01	4810
## 66349	0 1.307970e-01	3600
## 2167	0 4.203108e-01	8300
## 109427	0 3.832493e-01	4166
## 21380	2 1.780917e+00	4600
## 16163	0 4.944578e-01	6224
## 46278	0 5.374925e-01	5000
## 60921	0 5.185963e-01	3333
## 13632	0 1.988333e-01	8227
## 56072	0 5.303674e-01	4000
## 9266	0 2.715105e-01	4183
## 101898	0 9.195201e-01	4000
## 1440	0 1.626298e-01	2600
## 55867	0 3.367772e-01	6000
## 144910	0 6.508970e-01	7524
## 111878	0 3.765682e-01	5180
## 138660	0 9.400309e-01	3234
## 18851	0 1.732067e-01	4000
## 34079	0 3.550477e-01	2931
## 100971	0 2.547013e-01	4200
## 133922	0 2.253554e-01	8652
## 59078	0 6.145949e-02	7207
## 4549	1 1.998979e-01	7833
## 82507	0 2.668412e-01	4200
## 147568	1 4.333133e-01	5000
## 137893	1 9.052083e-01	1919
## 41832	0 2.944345e-01	4455
## 3905	0 2.684480e-01	7222
## 114591	0 0.000000e+00	1113
## 81840	0 1.479704e-02	5000
## 67826	0 2.361603e-01	7333
## 141545	0 3.315561e-01	3000
## 92404	0 2.789206e-01	4520
## 144391	0 6.324846e-02	8600
## 84929	0 3.082921e-01	6668
## 119701	0 9.918715e-01	5166
## 106570	0 9.149787e-01	7750
## 91857	0 3.274000e+03	0
## 65141	0 5.800667e-01	6300
## 133765	0 4.932495e-01	6517
## 142458	0 3.775112e-01	3334
## 120950	0 6.777418e-01	3400
## 29187	1 3.192823e-01	7021
## 4912	0 3.048369e-01	2666

## 55167	0 8.355220e-01	3045
## 42917	0 1.069786e-01	5000
## 63349	1 1.797914e-02	5561
## 71575	0 2.401396e-01	5729
## 43283	0 1.160760e-01	3893
## 8910	0 6.529319e-01	4416
## 134880	0 3.260899e-01	7500
## 126422	0 1.303781e-02	2300
## 110320	0 0.000000e+00	1000
## 77308	0 4.328147e-02	3534
## 3228	0 8.336458e-02	8000
## 128488	2 3.513286e-01	4741
## 53638	4 4.006374e-01	5333
## 42267	0 5.003133e-01	3191
## 19515	0 3.407399e-01	8460
## 20637	0 7.045952e-01	2284
## 91507	0 4.284144e-01	3638
## 101944	0 1.701107e-01	7500
## 33720	0 9.741027e-01	2200
## 65466	0 3.077865e-01	4083
## 7997	0 4.753960e-01	4734
## 93255	0 3.487742e-01	7749
## 117744	1 7.170795e-01	2300
## 97971	0 3.507569e-01	7001
## 123404	0 7.403020e-02	3376
## 94560	0 1.807461e-01	7800
## 32090	0 3.316783e-01	5034
## 54778	0 3.550354e-01	5083
## 145601	0 1.866097e+00	701
## 14458	0 5.758232e-01	4615
## 122412	0 2.758621e-01	8467
## 113496	0 4.229295e-01	6000
## 11393	1 3.286242e-01	4600
## 135687	0 7.273763e-01	7900
## 55407	0 2.799300e-02	4000
## 57319	0 3.067456e-01	4224
## 72073	0 2.705405e-01	3200
## 70581	0 4.897841e-01	6900
## 9563	3 2.955829e-01	3010
## 35820	0 2.751284e-01	6814
## 148832	0 0.000000e+00	2298
## 55726	0 9.936224e-01	4703
## 82258	0 6.772660e-01	6100
## 21527	1 1.768551e-02	2600
## 49303	0 3.911457e-01	6030
## 113896	0 9.111361e-02	8000
## 11872	0 4.207037e-01	1960
## 18650	1 3.721142e-02	6583
## 65803	0 1.339617e-01	3500
## 11625	0 2.453814e-01	4600
## 47567	0 3.129851e-01	7600
## 120346	0 0.000000e+00	4600
## 9359	0 7.551846e-02	7666
## 55629	0 2.947544e-01	1200

## 86043	0 4.569234e-01	8333
## 122456	0 7.295947e-01	1800
## 5308	0 2.214631e-01	6000
## 93155	0 2.354030e-01	8100
## 27202	0 0.000000e+00	4000
## 119765	0 2.475012e-01	2100
## 91144	0 1.199760e-01	5000
## 113100	0 5.110357e-01	5300
## 58313	0 2.113302e-01	3600
## 93243	0 3.795776e-01	8000
## 88998	1 3.493246e-01	2146
## 138099	0 5.118438e-03	8400
## 120354	0 1.049825e-02	6000
## 100327	2 1.326511e+00	3077
## 70513	0 1.754612e-01	7750
## 66494	0 2.179790e-01	4660
## 19564	1 3.885080e-02	3062
## 73785	0 0.000000e+00	1700
## 146191	0 7.076503e-01	3293
## 74675	0 2.141113e-01	3684
## 37351	3 4.611954e-01	4483
## 98382	0 4.171740e-01	3120
## 79429	0 5.422929e-01	8050
## 136697	0 5.883322e-01	4250
## 21196	0 1.315732e+00	6400
## 134084	1 1.155611e-01	4793
## 139861	0 5.642718e-01	6666
## 75698	0 2.907731e-01	4009
## 5261	0 7.087002e-01	6700
## 147384	0 9.558088e-02	5000
## 84556	0 5.661821e-02	3920
## 99830	0 1.493067e-01	3100
## 56685	0 1.468401e-01	7531
## 18066	0 1.624541e-01	4905
## 123072	0 3.412345e-01	4260
## 69949	0 0.000000e+00	2358
## 41169	0 1.122247e+00	7083
## 43808	0 5.977148e-01	4200
## 141100	0 5.931019e-01	4580
## 80746	0 3.071720e-01	7835
## 9566	2 3.669957e-02	3950
## 143870	0 2.127193e-01	2735
## 120085	2 7.530494e-01	5000
## 20029	0 5.309666e-01	3858
## 69356	0 1.272438e-02	4400
## 49365	0 6.918616e-02	5000
## 982	2 4.321196e-01	4750
## 127793	0 4.062888e-01	4833
## 125728	2 7.907225e-01	3750
## 68947	0 6.007451e-01	3220
## 95741	0 9.698060e-02	5000
## 77253	0 2.458949e+00	2435
## 133375	0 1.099443e-01	6284
## 80930	0 2.362296e-01	6916

## 111671	0 3.459423e-01	6000
## 104733	0 2.704973e-01	7500
## 7585	1 5.001412e-01	7083
## 129636	0 1.301746e-01	4009
## 136221	0 6.030462e-01	2100
## 19338	0 6.432749e-03	3419
## 6316	0 1.146810e+00	1300
## 80651	0 2.442159e-01	3500
## 92565	2 3.517047e-01	3900
## 13870	0 4.569420e-03	5689
## 135748	0 3.139372e-02	5000
## 52342	0 5.009754e-01	5125
## 36162	0 9.843087e-01	5416
## 118128	0 6.446602e-01	7209
## 149006	0 1.294058e-01	7858
## 144504	0 4.692633e-01	4261
## 148240	0 3.115553e-01	2050
## 137523	0 2.925878e-03	3075
## 31155	0 5.557288e-01	1282
## 28314	0 1.364522e-01	4616
## 144595	0 2.643259e-01	3018
## 95660	0 2.771465e-01	1583
## 19616	0 1.739130e-01	6600
## 14435	2 1.007158e+00	2374
## 102710	0 0.000000e+00	2860
## 42424	0 4.625613e-01	6316
## 113283	0 8.617410e-01	4100
## 15831	1 3.294069e-01	7300
## 123663	0 8.059418e-01	4745
## 66522	0 5.730337e-01	2580
## 5471	0 5.965650e-01	2852
## 110176	0 7.173961e-01	4500
## 106788	0 1.353963e-01	8692
## 62374	4 3.781414e-01	7639
## 15124	1 5.504470e-01	2348
## 69062	1 4.431138e+00	1001
## 139527	0 2.791128e-01	2704
## 42967	0 3.398303e-01	4360
## 126758	0 3.384105e-01	6630
## 24184	1 5.824668e-01	6250
## 11785	0 2.872074e-01	4783
## 88117	0 1.681025e-03	4758
## 139886	0 5.698925e-01	650
## 70696	0 1.443542e+00	1230
## 94131	0 5.280742e-01	2154
## 138527	0 5.694306e-02	1000
## 65576	0 4.910000e+02	0
## 25561	0 4.100186e-01	4850
## 69066	0 2.409398e-01	4000
## 117879	0 8.194779e-01	5400
## 88754	0 6.397195e-01	2708
## 22908	0 1.787642e-01	5000
## 88027	0 5.134992e-01	5666
## 2483	1 9.389059e-01	3600

## 75398	1	4.159734e-01	600
## 103580	0	2.525000e+03	0
## 129065	0	1.648473e-01	6320
## 12318	0	8.560000e+02	0
## 38773	0	2.776749e-01	2700
## 128153	0	9.153521e-02	4500
## 9487	7	5.989620e-01	4238
## 120722	0	4.611837e-03	1300
## 82550	0	2.438205e-01	8333
## 128008	0	3.107657e-01	6882
## 118580	0	4.124501e-01	6264
## 101905	0	6.188279e-01	6500
## 124922	1	8.515997e-01	1468
## 80219	0	4.434958e-01	4450
## 95824	0	4.638215e-01	5154
## 17216	1	6.141543e-01	2500
## 12847	0	7.226084e-01	3020
## 145962	0	3.788482e-01	2760
## 42106	0	2.038117e-01	5141
## 116724	0	3.681818e-01	879
## 123626	0	3.185213e-01	2677
## 21114	0	6.079030e-04	6579
## 32503	0	2.470058e-01	8432
## 94660	0	7.795000e+02	1
## 20624	0	5.057191e-01	6556
## 87047	1	6.151975e-01	5342
## 72542	0	1.009863e+00	2331
## 88607	0	2.103000e+03	0
## 33979	0	1.865277e-01	6813
## 124037	0	2.116352e+00	6041
## 130146	0	9.271042e-01	5500
## 25215	0	4.430199e-01	2807
## 126115	0	4.024368e-02	5416
## 106452	0	7.156632e-02	4666
## 147212	0	8.689487e-01	2044
## 32338	1	8.944410e-01	1600
## 10842	1	6.271993e-01	4830
## 121233	0	2.075834e-01	8333
## 35609	1	5.688862e-01	5000
## 17328	0	4.255248e-01	3000
## 53581	0	1.200500e+03	1
## 9461	0	1.099264e+00	3666
## 14827	0	3.365471e-01	4459
## 56097	0	2.242783e-01	5403
## 101478	0	3.299818e-01	7160
## 34015	0	1.845787e-01	6717
## 119081	0	2.342578e-01	8400
## 24602	0	3.721533e-01	5400
## 21542	0	2.375654e-01	4583
## 68423	0	7.610937e-01	2230
## 110760	1	1.087367e+00	3284
## 132053	0	6.449532e-03	3100
## 145630	0	7.556988e-01	6360
## 110125	0	2.692977e-01	6891

## 93950	0 9.998438e-03	6400
## 54179	0 2.071464e+00	2000
## 41448	1 3.868187e-01	7191
## 73758	0 4.371126e-01	5000
## 84675	0 2.054208e-01	4205
## 125266	0 2.173098e-01	6400
## 89304	0 1.414868e+00	1250
## 74658	0 1.062849e+00	2147
## 41541	0 6.393688e-02	7350
## 12030	0 2.448580e-02	4083
## 95655	0 6.690827e-01	4000
## 5515	0 5.793857e-01	1920
## 62966	0 1.971077e-01	5600
## 59828	0 2.099580e-02	1666
## 67486	0 1.079094e-01	3400
## 127995	0 1.449638e-02	4000
## 115338	0 8.488960e-04	5889
## 99548	0 2.813675e-01	2924
## 119355	0 9.090323e-01	1549
## 41098	0 2.134788e-01	7700
## 100647	0 6.405301e-01	3621
## 101883	1 9.246324e-01	2175
## 149692	0 6.922012e-02	6500
## 76946	0 3.099577e-01	7571
## 79117	0 2.923614e-01	6296
## 17417	0 1.463707e-01	3333
## 32039	0 7.731029e-01	2661
## 33703	0 4.204023e-01	7606
## 73591	0 3.463751e-01	3475
## 113613	0 5.271705e-01	1600
## 88663	0 2.123971e-02	2306
## 52158	0 3.703704e-01	1754
## 90015	0 2.639789e-03	4166
## 143379	0 2.154154e-01	5500
## 48326	0 2.552993e-01	7500
## 81175	0 2.569633e-01	7000
## 131777	0 6.406179e-02	2200
## 128891	0 3.241352e-01	5000
## 140280	1 2.206963e-01	8300
## 84144	0 2.294713e-01	8000
## 38160	0 4.806117e-01	5492
## 116406	0 6.854139e-01	3804
## 52017	1 5.167834e-02	8281
## 54999	0 3.411614e-01	4683
## 52947	0 5.122729e-01	4073
## 85255	0 2.369661e-01	7000
## 137183	0 4.293927e-01	4000
## 72244	0 2.988022e-01	3088
## 145412	0 4.302477e-01	2300
## 2489	0 7.824268e-01	2150
## 10184	0 3.086692e-01	5905
## 147455	0 6.409978e-01	7375
## 14273	0 3.365985e-01	8166
## 58392	0 2.048581e-01	6833

## 37759	0 4.427245e-01	2260
## 62261	0 1.300000e+01	0
## 125487	0 4.535788e-01	6300
## 131192	0 8.937018e-02	4016
## 138055	0 5.881295e-01	1667
## 142384	0 9.881250e-01	4799
## 135940	0 3.444767e-01	5503
## 47488	3 1.292109e-01	6500
## 43915	0 5.764599e-01	4400
## 146651	0 1.006637e-01	3615
## 49179	0 1.430956e-03	4192
## 115347	0 5.445941e-01	7500
## 109045	1 5.191074e-01	7483
## 77977	0 2.734188e-01	4600
## 79393	0 5.597892e-01	7400
## 67220	0 3.048780e-01	5083
## 130868	0 3.777482e-01	1500
## 129222	0 1.200155e-02	2582
## 124144	0 4.002398e-01	6670
## 90027	1 2.105183e+00	1311
## 53521	0 1.618481e-01	3700
## 107534	1 3.356138e-01	5115
## 122838	1 3.160415e-01	2505
## 102517	0 2.840399e+00	400
## 17073	1 3.800291e-01	4125
## 11494	1 1.006818e+00	3666
## 110583	0 3.292836e-01	7983
## 67522	0 7.168805e-01	6000
## 142576	0 3.261333e-01	7499
## 15221	0 1.780230e-01	4167
## 90523	0 1.052034e-01	4400
## 67044	0 5.054588e-01	4304
## 100182	0 3.212291e-01	8233
## 140550	0 2.048916e-01	4333
## 139253	0 3.674862e-01	8500
## 68139	0 3.642537e-01	7804
## 117266	1 1.597739e-01	3360
## 39789	0 2.243551e-01	5000
## 109736	0 1.364792e-01	7077
## 108901	1 1.860836e-01	3132
## 51511	0 2.678189e-01	7463
## 131551	0 2.682563e-02	4025
## 14655	0 2.500000e+01	0
## 139534	0 8.305559e-01	7500
## 33230	0 6.866603e-01	2083
## 103671	0 0.000000e+00	1750
## 98113	0 5.710440e-02	5200
## 89753	0 1.628106e-02	3500
## 43759	0 4.394541e-01	6300
## 53590	0 3.428923e-01	5683
## 121763	0 8.259691e-02	8486
## 97252	0 9.250874e-01	5432
## 120072	0 2.240275e-01	6400
## 80695	0 5.334412e-01	3707

## 71457	0 7.182208e-02	4900
## 69787	0 0.000000e+00	1000
## 30021	0 7.915018e-03	4800
## 61780	0 1.226714e-01	2844
## 134575	0 4.364415e-01	4900
## 69416	0 1.585666e+00	3250
## 108905	0 4.114091e-01	5293
## 15851	0 1.412620e-01	3850
## 62720	0 2.905645e-01	4800
## 6869	0 8.004798e-01	2500
## 78029	0 0.000000e+00	1600
## 55464	0 0.000000e+00	2501
## 109478	0 1.792938e-01	2916
## 107252	0 1.359123e-01	4833
## 131060	1 3.163578e-01	7500
## 113256	0 3.749063e-03	4000
## 39873	0 5.910961e-01	5345
## 38702	0 1.989247e-01	7253
## 69894	1 6.520535e-01	6500
## 55440	0 9.337025e-02	6500
## 10193	0 8.246742e-01	5600
## 79147	0 4.934301e-01	7990
## 55110	0 1.743915e+00	2916
## 4727	0 5.126890e-04	3900
## 148985	0 6.584774e-02	7000
## 46201	0 3.251340e-01	4105
## 55636	0 1.446384e+00	400
## 98195	0 2.999539e-03	4333
## 47617	0 1.525822e-01	4685
## 96196	0 1.475800e-04	6775
## 52250	0 1.444246e-01	7290
## 144704	0 3.096258e-01	3500
## 139148	1 7.753062e-01	4000
## 21861	0 1.705659e-01	5000
## 115432	1 3.794197e-01	4100
## 104033	0 7.885443e-01	4416
## 17860	0 3.801771e-01	3500
## 72388	0 8.014099e-01	6666
## 18887	0 1.464065e-01	8250
## 78980	0 3.626336e-01	2900
## 125591	3 3.234105e-02	2720
## 144770	1 2.372663e-01	1550
## 19078	0 1.715629e-01	850
## 2499	0 0.000000e+00	0
## 100937	0 2.267093e-01	2500
## 1552	0 1.648470e+00	2417
## 79091	0 3.099000e-01	3100
## 30878	0 9.797551e-02	4000
## 74084	0 4.636070e-04	2156
## 4829	0 6.489007e-01	3001
## 38781	0 1.329734e-01	5000
## 138533	0 3.733057e-01	7229
## 106467	0 1.440530e-01	8600
## 114813	0 1.943365e-02	1800

## 6750	0 1.344596e-01	5800
## 125435	0 8.831861e-03	6000
## 130898	0 2.855893e-01	8000
## 68111	0 3.719428e-01	6500
## 91274	0 4.471711e-01	4400
## 108179	0 1.923500e+03	1
## 19542	1 3.529412e-01	6000
## 12564	0 6.445592e-01	6000
## 76809	0 4.493791e-01	4750
## 10058	1 2.488876e-01	6741
## 76262	0 9.804870e-02	6200
## 124354	0 3.891286e-01	3476
## 132122	0 2.012736e-01	4396
## 103078	0 1.247601e-02	2083
## 148667	0 6.346034e-01	1600
## 40353	0 9.230200e-04	5416
## 37570	0 4.899244e-01	2381
## 119499	0 1.351351e-01	5364
## 138016	0 5.086983e-01	5000
## 98116	0 3.485612e-01	6150
## 11958	0 7.636364e-02	6324
## 6374	0 4.684545e-01	6450
## 115056	0 4.665112e-03	3000
## 99567	0 0.000000e+00	6666
## 92451	0 1.043115e-03	2875
## 81013	0 1.375928e-01	3771
## 61358	0 3.137108e-02	8000
## 4276	0 6.258551e-01	8624
## 79022	0 3.013219e-02	5143
## 125547	0 4.492582e-01	3369
## 20489	0 5.296915e-01	8200
## 43186	1 1.808500e+03	1
## 52732	0 1.017536e+00	4333
## 109230	0 4.574942e-01	4716
## 135033	0 1.079730e-01	4000
## 62749	0 2.099078e+00	433
## 122225	0 1.934186e-01	6958
## 19209	1 6.924391e-02	6440
## 53382	0 9.430997e-03	3180
## 106272	0 2.981453e-01	7170
## 79468	0 5.658585e-01	4000
## 46444	0 2.605947e-01	6960
## 64191	0 1.944150e-01	2828
## 146049	0 7.045070e-02	6500
## 82114	1 5.087758e-02	4500
## 7796	0 2.641786e-01	8198
## 39915	1 7.742062e-01	7652
## 99359	1 1.529490e-01	3000
## 83912	0 1.242502e-01	3500
## 6056	0 0.000000e+00	820
## 134364	0 1.016455e-01	4800
## 104825	0 5.559170e-01	4917
## 72569	3 4.689626e-01	7200
## 110041	0 2.923120e-01	7166

## 117588	1	2.761609e-01	4500
## 130078	0	3.970158e-01	6500
## 3308	0	1.037187e-01	8416
## 5881	0	4.789882e-01	5020
## 101426	0	1.425657e+00	4411
## 88810	0	4.926543e-01	6125
## 120150	0	3.951034e-01	4737
## 92694	0	1.076509e-01	2600
## 86750	1	1.144011e-01	3714
## 112330	0	1.509102e-01	8514
## 49286	0	3.718513e-02	2500
## 30295	2	4.468584e-01	8100
## 67827	1	2.484233e-01	6500
## 12424	0	7.603262e-02	3800
## 30635	0	9.655747e-01	1800
## 24988	0	3.875620e-02	2218
## 89915	0	3.772028e-01	5333
## 18234	0	3.955796e-01	6650
## 78502	0	2.027072e+00	2400
## 110480	0	1.890268e-01	7654
## 73303	0	5.600000e+01	0
## 18715	0	1.661782e-01	5800
## 120286	0	4.361137e-01	3200
## 4270	0	1.218027e-03	820
## 90716	0	3.452318e-01	5714
## 31277	0	5.523186e-01	5800
## 131724	0	3.862017e-01	8000
## 47622	0	5.311986e-01	7900
## 7940	0	2.352000e+03	0
## 3779	0	7.283320e-04	2745
## 87547	0	1.580720e-02	3858
## 29971	0	1.348692e-01	8333
## 109760	0	6.989516e-03	2002
## 19350	0	1.224418e-03	5716
## 134571	0	3.343351e-01	2661
## 25991	0	2.765369e-03	4700
## 37687	0	2.832189e-01	8300
## 134951	5	3.153348e-01	8333
## 22979	1	3.639651e-01	4700
## 122583	1	1.129972e+00	4600
## 25628	0	2.997612e-01	4606
## 2259	0	6.419919e-01	5200
## 140855	0	7.325083e-01	2100
## 102182	0	7.300000e+01	0
## 9835	0	2.471828e-01	2750
## 28460	0	4.023994e-02	4000
## 64828	0	4.637646e-01	4111
## 102836	0	4.149870e-03	8433
## 83942	0	1.957608e-01	5000
## 39893	0	1.050000e+01	1
## 145905	0	3.917217e-01	3333
## 149047	0	1.702374e-01	1726
## 59580	0	5.692179e-01	8400
## 123210	0	1.144007e-01	7700

## 22023	1	6.629213e-01	800
## 25241	0	6.248645e-01	2766
## 27705	0	2.305210e-04	4337
## 74857	0	1.251285e-01	3891
## 45131	0	1.803496e-01	3775
## 27185	0	9.097181e-01	3333
## 46345	0	3.122120e-01	1735
## 76294	0	3.327844e-01	8500
## 40481	0	7.621103e-01	2084
## 117333	0	2.020967e-01	5150
## 147891	0	5.351366e-01	3770
## 20878	2	7.333154e-01	7416
## 119574	0	2.442540e-01	7700
## 132906	2	1.149770e-01	5000
## 144147	0	1.282599e-01	2338
## 109238	0	6.876401e-01	5800
## 88606	0	1.481407e+00	2500
## 53640	0	3.585876e-01	5833
## 20382	0	7.700971e-02	7102
## 49200	0	4.193780e-01	6976
## 19203	0	2.019192e-01	2500
## 3697	0	3.347351e-01	5944
## 115017	0	3.208244e-01	3250
## 138718	0	6.193421e-01	4042
## 19133	0	6.998600e-03	5000
## 7050	0	4.506456e-01	2400
## 109528	1	6.639785e-01	2975
## 67678	0	8.432602e-01	4146
## 57938	2	5.351006e-01	4073
## 83126	0	4.809107e-01	7202
## 35217	0	5.780184e-01	8497
## 46638	0	2.265443e-01	7300
## 116233	0	1.088075e-01	6800
## 110549	0	1.166013e+00	764
## 52286	0	3.763498e-01	7500
## 11580	0	4.101657e-01	5370
## 105401	0	5.788988e-01	3250
## 100401	0	3.781282e-01	5833
## 63967	2	1.689662e-01	5000
## 73603	0	1.942823e-01	6680
## 138842	0	2.031117e-01	3534
## 45505	3	2.578285e-01	7791
## 111731	0	8.845916e-03	4860
## 31373	0	8.090240e-01	6382
## 13301	0	2.013331e-01	5100
## 3219	0	2.666222e-03	6000
## 39001	0	8.644975e-01	7283
## 145576	0	1.739783e-01	8000
## 126912	0	5.515087e-01	5600
## 111136	0	6.431306e-01	2350
## 40888	0	3.277401e-01	2800
## 52103	0	1.306998e-01	4100
## 9319	0	1.317447e+00	6000
## 141075	0	3.581692e-01	6750

## 80860	0 2.686093e-01	3465
## 132264	0 1.832258e-02	3874
## 73850	2 3.235642e-01	6755
## 140439	0 8.161868e-01	4966
## 143924	0 1.591463e-01	3279
## 29827	0 4.531985e-03	5736
## 40561	0 6.502650e-01	2641
## 73167	0 6.515757e-01	6250
## 102892	0 1.981336e-01	6000
## 37610	0 0.000000e+00	1945
## 122238	0 1.906158e-01	3750
## 8836	0 9.552134e-01	1428
## 18042	0 2.189176e-01	2050
## 38810	1 5.767450e-01	5400
## 110738	0 2.944704e-01	1500
## 125818	0 2.644588e-01	4166
## 146585	0 4.364467e-01	3500
## 84456	0 1.100000e+01	0
## 20665	0 1.089918e-02	1100
## 97755	0 3.831234e-01	5000
## 63136	1 2.566691e-01	5547
## 23843	0 2.131393e-01	6666
## 136491	0 1.532135e-01	8510
## 32176	0 1.246485e-01	5334
## 83767	0 3.391922e-01	5916
## 49119	0 2.110642e-02	4500
## 45552	0 4.222427e-01	4333
## 57166	1 2.767781e-01	2333
## 60465	0 3.843198e-02	1300
## 141213	0 4.201681e-03	2379
## 145631	0 1.431071e-01	8000
## 142511	0 5.402299e-01	2000
## 11861	0 8.298723e-01	6500
## 52209	0 7.867777e-01	7925
## 147588	0 1.362884e-01	7850
## 125921	0 6.708061e-01	4750
## 133480	0 6.420376e-01	4357
## 36557	0 1.175944e-01	6700
## 61731	0 1.186758e-02	1600
## 110678	1 7.613254e-01	3862
## 82919	0 3.721541e-01	3425
## 86587	0 2.915611e-01	7500
## 100103	0 3.882590e-01	6438
## 105662	0 7.572897e-02	4766
## 25203	0 2.027077e-01	8050
## 30	2 4.361025e-01	5500
## 51679	0 6.659268e-02	900
## 19161	0 2.479417e-01	4250
## 5823	0 8.382437e-02	5260
## 134419	0 4.796041e-01	3333
## 36095	0 1.251094e-01	1142
## 104015	0 7.990013e-02	800
## 128011	0 5.352357e-01	4029
## 65911	0 1.101952e-01	8248

## 62726	0 4.511460e-01	7460
## 1458	0 4.240989e-01	3800
## 36320	1 4.142544e-01	4110
## 87739	0 7.141157e-03	4200
## 47328	1 2.489530e-01	2148
## 9641	0 6.537890e-01	5383
## 92625	0 6.437477e-01	8100
## 91093	0 4.544180e-02	7129
## 58609	0 4.856762e-01	1500
## 34600	0 3.964572e-01	4741
## 90354	1 6.797342e+00	300
## 64254	0 9.945460e-02	6233
## 107474	0 1.615624e-01	4505
## 137390	0 3.749063e-03	4000
## 48646	0 3.676605e-02	5466
## 26090	0 8.643815e-01	4025
## 8226	0 1.136543e-02	6334
## 23273	0 3.121322e-01	4417
## 80140	0 1.444374e-01	4700
## 52922	0 0.000000e+00	1800
## 81278	0 4.311139e-01	4775
## 132895	0 4.570776e-03	7000
## 73898	0 1.217127e-02	4600
## 46745	0 6.256757e-01	1479
## 27756	0 3.046743e-01	4128
## 80940	1 7.306287e-03	5200
## 100868	0 2.489438e-01	6390
## 13836	0 5.880960e-01	6333
## 46930	0 3.932425e-01	5652
## 16560	0 2.219451e-01	400
## 122308	0 5.224129e-01	6000
## 140576	0 3.440778e-02	7817
## 143935	0 8.038392e-01	5000
## 141918	0 8.992101e-01	3164
## 133766	0 6.397376e-01	6250
## 88974	0 1.320234e-01	2900
## 40730	0 3.992897e-01	7883
## 123055	0 4.345940e-04	2300
## 21021	0 4.216003e-02	5573
## 25100	0 4.134780e-01	1750
## 22872	0 3.711572e-01	4000
## 96186	0 5.951670e-04	8400
## 98415	0 1.361257e-01	4583
## 90628	0 3.151902e-01	3600
## 90955	0 1.329557e-01	3000
## 95241	0 2.999814e-01	5366
## 143869	0 7.431006e-01	8333
## 82309	0 2.068276e-01	7000
## 135332	1 5.357857e-02	2500
## 135604	0 3.055598e-01	6600
## 108025	0 1.105904e-01	3200
## 59663	0 3.171652e-01	3710
## 18515	0 2.852516e-01	4630
## 105826	0 5.031279e-02	7512

## 36951	0 4.456506e-02	7000
## 109217	0 4.288928e-01	4000
## 136086	0 5.235532e-01	5200
## 67230	0 2.739689e-01	7467
## 62333	1 4.469106e-01	5000
## 116892	0 5.617304e+00	600
## 15338	0 5.558964e-01	2933
## 83532	0 1.119094e+00	6666
## 29163	1 9.100360e-01	2500
## 46098	2 4.913570e-01	5032
## 130025	0 9.048869e-02	8000
## 99372	0 1.834061e-02	3434
## 29495	0 1.006112e-01	6380
## 109393	0 1.059697e+00	6800
## 66566	1 2.494376e-01	4000
## 46646	1 2.003589e-01	7800
## 134901	0 2.768208e-01	3308
## 2735	1 1.474631e-01	4000
## 105575	0 2.365694e-01	7333
## 47892	1 5.894702e-01	3000
## 20319	0 4.116928e-01	5729
## 137379	1 2.398506e-01	8300
## 31844	1 5.577151e-01	5916
## 97788	0 3.205849e-01	8000
## 95220	1 9.991460e-02	5854
## 107340	0 4.553991e-01	5750
## 49243	0 8.888889e-01	800
## 140283	0 2.776305e-01	7545
## 132347	0 4.319398e-01	5046
## 42100	0 2.818706e-01	4682
## 124542	0 4.941699e-02	1800
## 142307	0 4.251546e-01	4849
## 635	0 2.381277e-01	4400
## 20979	0 3.333333e-01	1463
## 57693	0 4.655767e-01	6666
## 116691	0 4.458931e-01	2300
## 18243	0 6.784314e-01	764
## 37733	0 4.597411e-01	3166
## 104707	0 2.360578e-03	3388
## 44576	0 1.129626e-01	5700
## 402	0 1.158261e-01	7752
## 129316	0 4.295427e-01	7500
## 11196	0 1.329529e+00	1401
## 23560	0 1.500412e-01	2425
## 134411	1 7.137759e-03	1400
## 2748	0 3.954054e-01	6572
## 47204	0 2.416264e-02	6000
## 100517	0 1.212684e-01	7000
## 78135	0 6.149672e-01	3500
## 76402	0 1.857036e-01	4000
## 119579	0 4.311063e-01	6480
## 40958	2 1.375450e-01	2500
## 59428	0 5.026751e-01	8223
## 45824	0 1.393407e-01	2274

## 122220	0 6.213447e-01	4000
## 48164	0 2.729000e+03	0
## 92733	0 2.657196e-02	3800
## 30824	0 6.333739e-01	820
## 144809	0 4.417117e-01	5000
## 57762	0 2.309670e-01	7000
## 43015	0 1.130217e+00	4000
## 134399	0 3.204420e-01	3800
## 135324	0 5.958307e-01	4700
## 106944	1 3.827143e-01	7080
## 35877	0 1.774592e-01	4045
## 79673	0 1.849159e-01	2200
## 75068	0 5.194669e-01	2850
## 96021	0 5.151470e-01	6667
## 36087	1 4.129334e-02	2566
## 20163	0 5.917462e-01	4506
## 97068	0 1.105378e+00	1375
## 78088	0 1.748804e+00	417
## 49928	0 5.459891e-03	2380
## 140255	0 3.732080e-01	8300
## 44922	0 1.365639e-01	1815
## 110621	0 8.331940e-04	6000
## 122490	0 7.173298e-01	5302
## 31165	0 2.171710e+00	1420
## 145684	0 2.088924e-01	3800
## 113131	3 9.501615e-01	4333
## 110014	0 1.721455e+00	796
## 147310	0 1.854525e-01	1800
## 1848	0 7.658963e-01	8004
## 144224	0 0.000000e+00	2640
## 108903	0 1.106693e-01	3017
## 45642	0 5.466133e-01	4000
## 94594	0 2.070944e-01	3833
## 81187	0 1.578670e-02	5700
## 78075	0 2.230453e-01	2429
## 107718	0 8.281430e-01	2600
## 123180	0 4.082810e-01	7800
## 91698	0 8.634734e-01	3903
##	NumberOfOpenCreditLinesAndLoans	NumberOfTimes90DaysLate
## 35580	10	0
## 46953	10	0
## 52453	5	0
## 24027	12	0
## 1521	18	0
## 61774	15	0
## 57130	12	0
## 80283	3	0
## 145496	9	0
## 46162	9	0
## 19398	7	0
## 88300	18	0
## 7429	12	0
## 42092	4	0
## 105437	3	0

## 15786	4	0
## 146690	5	0
## 140730	7	0
## 46821	13	0
## 58102	12	0
## 137929	11	0
## 64582	3	0
## 42318	3	0
## 52970	15	0
## 12848	7	0
## 47977	8	0
## 76624	11	0
## 68296	10	0
## 59573	6	0
## 25961	15	0
## 67477	8	0
## 120588	6	0
## 14289	4	0
## 131394	6	0
## 108140	5	0
## 45005	9	0
## 21012	6	0
## 149334	15	0
## 48644	7	0
## 18405	3	0
## 62018	10	0
## 134377	4	0
## 59971	2	0
## 16834	2	0
## 24349	13	0
## 65634	8	0
## 132439	12	0
## 129102	4	0
## 84842	6	0
## 25367	6	0
## 69526	6	0
## 127629	11	0
## 130867	15	0
## 53803	12	0
## 140520	6	0
## 8598	10	0
## 22097	4	0
## 41262	7	0
## 128569	12	0
## 65612	11	0
## 12510	9	1
## 59602	3	0
## 123838	1	0
## 91758	8	0
## 43316	8	0
## 46064	5	0
## 103290	4	0
## 106964	9	0
## 64264	6	0

## 136198	8	0
## 104056	7	0
## 82370	3	0
## 100651	10	0
## 100839	14	0
## 22793	11	0
## 146335	2	0
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## 109528	8	0
## 67678	15	0
## 57938	7	0
## 83126	16	0
## 35217	14	0
## 46638	10	0
## 116233	11	0
## 110549	4	0
## 52286	7	0
## 11580	6	0
## 105401	12	0
## 100401	5	0
## 63967	7	0
## 73603	8	0
## 138842	2	0
## 45505	17	0
## 111731	2	0
## 31373	7	0
## 13301	16	0
## 3219	5	0
## 39001	12	0
## 145576	6	0
## 126912	8	0
## 111136	12	0
## 40888	5	1
## 52103	5	0
## 9319	13	0
## 141075	20	0
## 80860	8	0
## 132264	2	0
## 73850	11	0
## 140439	10	0
## 143924	8	0
## 29827	2	0
## 40561	19	0
## 73167	7	0
## 102892	11	0
## 37610	3	0

## 122238	6	0
## 8836	6	0
## 18042	4	0
## 38810	8	0
## 110738	1	1
## 125818	12	0
## 146585	4	0
## 84456	2	0
## 20665	1	0
## 97755	7	0
## 63136	8	1
## 23843	20	0
## 136491	13	0
## 32176	5	0
## 83767	6	0
## 49119	4	0
## 45552	9	0
## 57166	6	0
## 60465	1	0
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## 145631	6	0
## 142511	5	0
## 11861	27	0
## 52209	21	0
## 147588	9	0
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## 133480	27	0
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## 61731	1	0
## 110678	12	0
## 82919	11	0
## 86587	12	0
## 100103	7	0
## 105662	3	0
## 25203	7	0
## 30	15	0
## 51679	4	0
## 19161	4	0
## 5823	5	0
## 134419	8	1
## 36095	3	0
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## 128011	6	0
## 65911	12	0
## 62726	6	0
## 1458	5	0
## 36320	6	0
## 87739	2	0
## 47328	7	0
## 9641	15	0
## 92625	17	0
## 91093	8	0
## 58609	5	0
## 34600	8	0

## 90354	11	0
## 64254	14	0
## 107474	5	0
## 137390	2	0
## 48646	30	1
## 26090	6	0
## 8226	4	0
## 23273	12	0
## 80140	3	0
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## 81278	17	0
## 132895	6	0
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## 27756	10	0
## 80940	8	0
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## 13836	13	0
## 46930	9	2
## 16560	7	0
## 122308	16	0
## 140576	2	0
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## 141918	8	0
## 133766	15	0
## 88974	4	0
## 40730	8	0
## 123055	7	0
## 21021	13	0
## 25100	4	0
## 22872	5	0
## 96186	6	0
## 98415	3	0
## 90628	9	0
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## 95241	9	0
## 143869	21	0
## 82309	11	0
## 135332	1	0
## 135604	10	0
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## 59663	9	0
## 18515	5	0
## 105826	6	0
## 36951	12	0
## 109217	6	0
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## 67230	7	0
## 62333	5	0
## 116892	8	0
## 15338	6	0
## 83532	20	0
## 29163	11	0
## 46098	7	0

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## 29495	5	0
## 109393	11	0
## 66566	5	0
## 46646	7	0
## 134901	10	0
## 2735	14	0
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## 20319	7	0
## 137379	6	0
## 31844	19	0
## 97788	5	0
## 95220	6	0
## 107340	6	0
## 49243	15	0
## 140283	12	0
## 132347	6	0
## 42100	12	0
## 124542	4	0
## 142307	22	0
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## 20979	7	0
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## 44576	7	0
## 402	17	0
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## 11196	5	0
## 23560	5	0
## 134411	1	0
## 2748	13	0
## 47204	5	3
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## 119579	9	0
## 40958	4	0
## 59428	22	0
## 45824	7	0
## 122220	12	0
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## 92733	1	0
## 30824	3	0
## 144809	10	0
## 57762	9	0
## 43015	11	0
## 134399	9	0
## 135324	20	0
## 106944	6	0

## 35877	2	0
## 79673	6	0
## 75068	9	0
## 96021	6	0
## 36087	3	0
## 20163	16	0
## 97068	1	0
## 78088	12	0
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## 140255	8	0
## 44922	3	0
## 110621	9	0
## 122490	20	0
## 31165	10	0
## 145684	6	0
## 113131	11	0
## 110014	6	0
## 147310	3	0
## 1848	12	0
## 144224	0	0
## 108903	8	0
## 45642	7	0
## 94594	6	0
## 81187	5	0
## 78075	4	0
## 107718	32	0
## 123180	22	0
## 91698	12	0
##	NumberRealEstateLoansOrLines	NumberOfTime60.89DaysPastDueNotWorse
## 35580	2	1
## 46953	1	0
## 52453	1	0
## 24027	1	0
## 1521	3	0
## 61774	3	0
## 57130	0	0
## 80283	0	0
## 145496	4	0
## 46162	2	0
## 19398	1	0
## 88300	2	0
## 7429	2	2
## 42092	0	1
## 105437	0	0
## 15786	0	0
## 146690	1	0
## 140730	2	0
## 46821	2	0
## 58102	2	0
## 137929	2	0
## 64582	0	0
## 42318	0	0
## 52970	1	0
## 12848	2	0

## 47977	0	0
## 76624	1	0
## 68296	3	0
## 59573	0	0
## 25961	2	0
## 67477	1	0
## 120588	1	0
## 14289	1	0
## 131394	1	0
## 108140	1	0
## 45005	2	0
## 21012	1	0
## 149334	1	0
## 48644	1	0
## 18405	1	0
## 62018	1	0
## 134377	0	0
## 59971	0	0
## 16834	0	0
## 24349	0	0
## 65634	0	0
## 132439	1	0
## 129102	0	0
## 84842	0	0
## 25367	1	0
## 69526	0	0
## 127629	0	0
## 130867	0	0
## 53803	2	0
## 140520	2	0
## 8598	1	0
## 22097	0	0
## 41262	0	0
## 128569	3	0
## 65612	0	0
## 12510	1	0
## 59602	1	0
## 123838	0	0
## 91758	1	0
## 43316	1	0
## 46064	0	0
## 103290	0	0
## 106964	3	0
## 64264	1	0
## 136198	0	0
## 104056	0	0
## 82370	0	0
## 100651	0	0
## 100839	1	0
## 22793	2	0
## 146335	0	0
## 58469	0	0
## 63622	2	0
## 50792	0	0

## 20230	0	0
## 35691	1	0
## 145813	0	0
## 60388	0	0
## 38157	2	0
## 83580	0	0
## 81508	0	0
## 14108	1	0
## 86628	0	0
## 60348	0	0
## 13906	1	0
## 30467	0	0
## 135337	1	0
## 90586	3	0
## 15862	2	0
## 145689	2	0
## 69899	0	0
## 110190	0	0
## 101006	1	0
## 117549	0	0
## 25395	0	0
## 13715	1	0
## 63920	0	0
## 35383	1	0
## 39419	0	0
## 104925	0	0
## 2005	1	0
## 91013	0	0
## 106956	0	0
## 116549	1	0
## 136746	3	0
## 96796	0	0
## 30629	1	0
## 73382	1	0
## 90238	1	0
## 125086	0	0
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## 26226	4	0
## 20789	2	1
## 6967	1	0
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## 136776	0	0
## 77752	1	0
## 95117	1	0
## 3710	2	0
## 83449	0	0
## 97425	1	0
## 148776	1	0
## 99915	0	0
## 36781	2	0
## 10537	1	0
## 67045	0	0
## 71089	1	0
## 54096	0	0

## 99962	1	0
## 61211	2	0
## 30218	2	0
## 52036	0	0
## 10089	2	0
## 39129	0	0
## 11238	2	0
## 140972	1	0
## 146581	1	1
## 128262	2	0
## 149596	0	1
## 5168	2	0
## 142800	0	0
## 109385	3	0
## 11779	1	0
## 4169	2	0
## 87546	2	0
## 105612	0	0
## 40172	0	2
## 97179	1	0
## 72936	1	0
## 140856	2	0
## 95437	0	0
## 59486	0	0
## 90546	0	0
## 41040	0	0
## 102471	1	0
## 68699	0	0
## 99513	0	0
## 124044	1	0
## 31164	1	0
## 53572	0	0
## 127885	0	0
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## 79691	1	0
## 81492	1	0
## 103067	0	0
## 42238	0	0
## 64952	0	0
## 44757	0	0
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## 82074	1	0
## 49638	2	0
## 80741	1	0
## 115809	1	0
## 96165	2	0
## 17253	1	0
## 108834	1	0
## 85185	0	0
## 3310	1	1
## 74657	0	0
## 31402	1	0

## 4124	1	0
## 24356	3	0
## 122869	0	1
## 31798	1	0
## 19618	1	0
## 92874	2	0
## 69078	2	0
## 64331	1	0
## 18632	3	0
## 120866	1	0
## 29466	1	0
## 58537	1	0
## 6639	0	2
## 82040	1	0
## 91052	0	0
## 13759	2	0
## 72625	0	0
## 73541	1	0
## 104924	0	0
## 63784	0	0
## 106701	2	0
## 140150	0	0
## 18796	1	0
## 41852	1	0
## 85465	1	0
## 51519	1	0
## 2879	0	0
## 98506	2	0
## 33754	0	0
## 61219	2	0
## 126327	1	1
## 17503	1	0
## 70778	0	0
## 109741	2	0
## 143027	1	0
## 12497	1	0
## 87836	2	0
## 61532	1	0
## 4278	1	0
## 117571	0	0
## 98762	1	0
## 131682	2	0
## 126181	0	0
## 10778	0	0
## 143293	1	0
## 4666	1	0
## 6631	3	0
## 20940	1	0
## 57355	1	0
## 8380	3	1
## 34667	0	0
## 63550	3	0
## 25058	0	0
## 35869	1	0

## 53291	0	0
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## 104325	0	0
## 63167	1	0
## 64112	0	0
## 145282	1	0
## 144139	2	0
## 52631	0	0
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## 21321	1	0
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## 33270	1	0
## 62172	3	0
## 149500	1	0
## 47860	0	0
## 32217	1	0
## 4594	1	0
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## 45501	1	0
## 19970	1	0
## 145012	1	0
## 46570	2	0
## 57788	1	0
## 61960	0	0
## 4370	2	0
## 65064	1	0
## 22525	0	0
## 16184	2	1
## 20937	0	0
## 122894	0	0
## 9809	1	0
## 121191	2	0
## 64812	1	0
## 91455	2	0
## 40971	2	0
## 116730	1	0
## 50615	0	0
## 114321	0	0
## 27566	2	0
## 109724	2	0
## 5152	0	0
## 27654	0	0
## 116889	1	1
## 134404	0	0
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## 101093	0	0
## 54408	0	0
## 11299	0	0
## 129191	1	0
## 143777	2	0
## 92858	2	0
## 77353	1	0

## 74228	0	1
## 98536	0	0
## 104905	0	3
## 138162	1	1
## 68447	2	0
## 51945	2	0
## 45921	0	0
## 23368	1	0
## 138970	0	0
## 92313	2	0
## 112928	1	0
## 84234	0	0
## 120859	2	0
## 93196	1	0
## 117555	1	0
## 66177	1	0
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## 148998	0	0
## 135065	0	0
## 89160	1	0
## 8657	0	0
## 72090	2	0
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## 44760	2	0
## 60424	1	0
## 11244	1	0
## 95715	1	0
## 76958	0	0
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## 104563	1	0
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## 78598	3	0
## 69283	1	0
## 74049	1	0
## 39838	1	0
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## 20434	1	0
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## 59691	0	0
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## 113541	0	0
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## 106855	2	0
## 24259	1	0
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## 90933	3	0
## 104320	1	0
## 25479	1	0
## 87144	1	0
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## 124162	1	0
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## 65645	1	0
## 45709	2	0
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## 117188	1	0
## 39089	0	0
## 21045	0	0
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## 109562	0	0
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## 11510	2	0
## 96222	1	0
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## 137883	3	0
## 72999	2	1
## 22617	2	0
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## 7545	0	0
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## 27629	1	0
## 112822	2	0
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## 134894	2	0
## 35937	1	0
## 27545	1	0
## 119348	0	0
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## 16678	0	0
## 59243	0	0
## 53349	0	0
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## 11230	2	0
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## 28933	0	0
## 97382	2	0
## 128678	0	0
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## 59455	0	0
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## 103047	1	0
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## 71667	0	0
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## 63202	2	0
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## 20991	0	0
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## 107100	2	0
## 143930	0	0
## 54026	1	0
## 138837	0	0
## 61407	0	0
## 18017	2	0
## 83752	0	0
## 62959	0	0
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## 92644	0	0
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## 112232	1	0
## 101382	0	0
## 53325	1	0
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## 124485	0	0
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## 134836	3	0
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## 135103	0	0
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## 106561	0	1
## 34316	0	0
## 99196	1	0
## 124613	0	0
## 71396	1	0
## 47301	2	0
## 132907	1	0

## 28898	1	0
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## 98801	1	0
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## 85159	1	0
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## 98197	0	0
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## 128497	0	0
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## 71052	0	3
## 113878	0	3

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## 43124	0	3
## 11547	0	3
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## 95928	2	3
## 39049	2	3
## 144540	2	3
## 34807	0	3
## 53893	0	3
## 88068	1	3
## 93163	0	3
## 125049	0	3
## 86182	0	3
## 117777	0	3
## 124527	0	3
## 136234	0	3
## 8587	0	3
## 25124	0	3
## 26503	1	3
## 61975	0	3
## 6473	0	3
## 89696	0	3
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## 42424	0	3
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## 15831	0	3
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## 66522	0	3

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## 12564	0	3
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## 30295	2	3
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## 120286	0	3
## 4270	0	3
## 90716	3	3
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## 131724	3	3
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## 7940	2	3
## 3779	0	3

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## 109760	0	3
## 19350	0	3
## 134571	2	3
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## 37687	0	3
## 134951	0	3
## 22979	0	3
## 122583	1	3
## 25628	0	3
## 2259	0	3
## 140855	0	3
## 102182	0	3
## 9835	0	3
## 28460	0	3
## 64828	1	3
## 102836	1	3
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## 39893	2	3
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## 149047	0	3
## 59580	1	3
## 123210	1	3
## 22023	0	3
## 25241	0	3
## 27705	0	3
## 74857	1	3
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## 27185	0	3
## 46345	0	3
## 76294	4	3
## 40481	0	3
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## 19203	2	3
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## 115017	0	3
## 138718	2	3
## 19133	2	3
## 7050	1	3
## 109528	0	3
## 67678	1	3
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## 83126	0	3

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## 116233	0	3
## 110549	0	3
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## 100401	2	3
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## 73603	1	3
## 138842	0	3
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## 9319	0	3
## 141075	0	3
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## 132264	1	3
## 73850	3	3
## 140439	1	3
## 143924	4	3
## 29827	0	3
## 40561	2	3
## 73167	3	3
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## 37610	0	3
## 122238	0	3
## 8836	0	3
## 18042	0	3
## 38810	2	3
## 110738	0	3
## 125818	0	3
## 146585	0	3
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## 20665	0	3
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## 136491	3	3
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## 83767	0	3
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## 62726	1	3
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## 36320	0	3
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## 47328	0	3
## 9641	0	3
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## 91093	0	3
## 58609	0	3
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## 90354	1	3
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## 48646	0	3
## 26090	0	3
## 8226	0	3
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## 46745	0	3
## 27756	0	3
## 80940	1	3
## 100868	1	3
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## 46930	1	3
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## 141918	0	3
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## 25100	3	3
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## 90628	1	3
## 90955	1	3
## 95241	0	3
## 143869	0	3
## 82309	0	3
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## 134901	3	3
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## 105575	2	3
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## 97788	0	3
## 95220	3	3
## 107340	1	3
## 49243	2	3
## 140283	5	3
## 132347	3	3
## 42100	0	3

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## 116691	0	3
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## 37733	0	3
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## 78088	0	3
## 49928	0	3
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## 44922	1	3
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## 110014	0	3
## 147310	0	3
## 1848	0	3
## 144224	1	3

```

## 108903          0          3
## 45642           0          3
## 94594           1          3
## 81187           1          3
## 78075           0          3
## 107718          1          3
## 123180          2          3
## 91698           1          3

nrow(Sample3)

## [1] 3823

Sample5 <- Cluster5[sample(nrow(Cluster5), nrow(Cluster5)/(nrow(Majority) - Special_Small_Clusters) * nrow(Sample5))

## [1] 1117

balanced_dataset.1 <- rbind(cs_train_min[-which(names(cs_train_min) == "X")], Cluster1[-which(names(Clus
head(balanced_dataset.1)

##          SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 17360                 1                           0.66672086 50
## 90565                 1                           0.94196675 59
## 146254                1                           0.99999990 28
## 102792                1                           1.02589064 30
## 49072                 1                           0.65871090 43
## 142766                1                           0.08758682 37
##          NumberOfTime30.59DaysPastDueNotWorse  DebtRatio MonthlyIncome
## 17360                      0 0.10303558           18381
## 90565                      1 0.16531402           8008
## 146254                     98 0.00000000           1664
## 102792                     1 0.23480463           2763
## 49072                      0 0.08972058           3900
## 142766                     0 0.37049259           16666
##          NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 17360                      10                      0
## 90565                       6                      5
## 146254                      0                     98
## 102792                      9                      0
## 49072                       4                      2
## 142766                     22                      0
##          NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 17360                      1                         1
## 90565                      0                         0
## 146254                      0                     98
## 102792                      0                         2
## 49072                      0                         1
## 142766                      3                         0
##          NumberOfDependents
## 17360                      1
## 90565                      0
## 146254                      0
## 102792                      3
## 49072                      2
## 142766                      0

```

```

nrow(balanced_dataset.1)

## [1] 10045

balanced_x <- data.matrix(balanced_dataset.1[,-1])
balanced_y <- data.matrix(balanced_dataset.1[,1])

Minority <- cs_train_min[,-which(names(cs_train_min) == "X")]
kmeans_model_train_minority <- kmeans(Minority, centers = 5)
kmeans_model_train_minority$centers

##   SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines      age
## 1                  1                               3.0460536 44.18669
## 2                  1                               3.9472824 48.66770
## 3                  1                               0.3757828 62.00000
## 4                  1                               0.5243205 45.52381
## 5                  1                               0.5747007 50.53819
##   NumberofTime30.59DaysPastDueNotWorse   DebtRatio MonthlyIncome
## 1                           2.2734194 45.78957515      3199.691
## 2                           1.3074534 0.44067173      7530.187
## 3                           0.0000000 0.02271191     250000.000
## 4                           0.8571429 0.16647645      55664.190
## 5                           1.0798611 0.50577270     15951.382
##   NumberofOpenCreditLinesAndLoans NumberofTimes90DaysLate
## 1                           6.88911      2.0648792
## 2                           10.10745      0.7211180
## 3                           15.00000      0.0000000
## 4                           14.61905      0.5238095
## 5                           13.15625      0.4027778
##   NumberRealEstateLoansOrLines NumberofTime60.89DaysPastDueNotWorse
## 1                           0.6765972      1.7457795
## 2                           1.4540373      0.6136646
## 3                           2.0000000      0.0000000
## 4                           4.6666667      0.0952381
## 5                           2.6319444      0.3472222
##   NumberofDependents
## 1                  0.9483615
## 2                  1.2012422
## 3                  0.0000000
## 4                  1.0476190
## 5                  1.3368056

kmeans_model_train_minority$size

## [1] 3021 1610     1    21   288

testing_data <- data.frame(test.x,test.y)
kmeans_model_test <- kmeans(testing_data, centers = 5) #testing to see if test data has similar clusters
kmeans_model_test$centers #Clusters are grouped as (1,2), (3,5) and (4) for Response Variables.

##   RevolvingUtilizationOfUnsecuredLines      age
## 1                               3.3340523 50.35998
## 2                               0.2950418 54.23077
## 3                               0.1501357 60.16667
## 4                               7.2909033 52.99487
## 5                              27.6093312 54.01161

```

```

##   NumberOfTime30.59DaysPastDueNotWorse   DebtRatio MonthlyIncome
## 1                               0.4511763 38.266839034      3910.045
## 2                               0.3974359  0.077906671      96138.115
## 3                               0.3333333  0.002840504     1103530.500
## 4                               0.2605648  0.309173812      9940.086
## 5                               0.2585139  0.234410533     25034.900
##   NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 1                               7.916175      0.29827306
## 2                              10.666667      0.08974359
## 3                              11.666667      0.00000000
## 4                              10.209088      0.06744563
## 5                              11.632353      0.03715170
##   NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 1                               0.8020238      0.26264883
## 2                               2.3333333      0.08974359
## 3                               1.3333333      0.00000000
## 4                               1.4717300      0.06452451
## 5                               2.0890093      0.05263158
##   NumberOfDependents      test.y
## 1                               0.718358  0.08213362
## 2                               1.243590  0.05128205
## 3                               0.500000  0.00000000
## 4                               1.074132  0.04985394
## 5                               1.330495  0.05495356

```

4. Applying Different Methods (with and without Balanced Data)

- Logistic regression (compare the different link functions)
- look maybe merge Lasso with logistic regression
- RF

Method 1: PCA

1-a) PCA with Unbalanced Data

PCA using all 22 variables

```

pca_including_dummy_variables <- prcomp(na.omit(Jimmys_Bad_Variables[, -c(which(names(Jimmys_Bad_Variables) %in% c("test.y", "NumberRealEstateLoansOrLines", "NumberOfTime60.89DaysPastDueNotWorse", "NumberOfTime30.59DaysPastDueNotWorse", "NumberOfOpenCreditLinesAndLoans", "NumberOfDependents", "test.y")))]))

summary(pca_including_dummy_variables) #First PC has like 99.66% of variance

## Importance of components:
##                               PC1      PC2      PC3      PC4      PC5      PC6      PC7
## Standard deviation    1.420e+04 426.3224 2.96e+02 14.49  5.925  5.059  1.586
## Proportion of Variance 9.987e-01  0.0009 4.30e-04  0.00  0.000  0.000  0.000
## Cumulative Proportion  9.987e-01  0.9996 1.00e+00  1.00  1.000  1.000  1.000
##                               PC8      PC9      PC10     PC11     PC12     PC13     PC14
## Standard deviation    1.027  0.565  0.346  0.007445 0.005265 0.003723 0.003722
## Proportion of Variance 0.000  0.000  0.000  0.000000 0.000000 0.000000 0.000000
## Cumulative Proportion  1.000  1.000  1.000  1.000000 1.000000 1.000000 1.000000
##                               PC15     PC16     PC17     PC18     PC19
## Standard deviation    3.59e-15 1.287e-17 9.127e-18 3.089e-20 3.354e-23
## Proportion of Variance 0.00e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
## Cumulative Proportion  1.00e+00 1.000e+00 1.000e+00 1.000e+00 1.000e+00

```

```

##                                PC20
## Standard deviation      2.404e-37
## Proportion of Variance 0.000e+00
## Cumulative Proportion  1.000e+00
pca_including_dummy_variables$rotation[,1] #I think it really likes Monthly Income as it's close to 1.

## RevolvingUtilizationOfUnsecuredLines                                age
##                                         1.663543e-04                         3.754805e-05
## Numberoftime30.59DaysPastDueNotWorse                         DebtRatio
##                                         -2.494353e-06                         -9.026497e-04
## MonthlyIncome                                         NumberOfOpenCreditLinesAndLoans
##                                         9.999996e-01                         3.387604e-05
## Numberoftimes90DaysLate                                         NumberRealEstateLoansOrLines
##                                         -2.982336e-06                         1.014049e-05
## Numberoftime60.89DaysPastDueNotWorse                         NumberOfDependents
##                                         -2.547678e-06                         5.400872e-06
## HighRevolving                                         Many_LessThan2MonthsLate
##                                         0.000000e+00                         3.594719e-10
## HighDebtRatio                                         Rich
##                                         -2.774522e-11                         -2.774522e-11
## Many_CurrentLoans                                         Many_AtLeastThreeMonthsLate
##                                         3.130335e-09                         -2.774522e-11
## Many_HouseLoans                                         Many_TwoToThreeMonthsLate
##                                         -3.198419e-10                         -2.774522e-11
## NA_Dependents_are_Mean                                         Many_Dependents
##                                         5.400872e-06                         -3.198419e-10

glm_pca_including_dummy_variables <- glm(train.y ~ pca_including_dummy_variables$x[,1], family = "binomial")

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(glm_pca_including_dummy_variables)

## Call:
## glm(formula = train.y ~ pca_including_dummy_variables$x[, 1],
##      family = "binomial")
##
## Deviance Residuals:
##      Min        1Q        Median        3Q        Max
## -0.4302   -0.3975   -0.3784   -0.3507   5.2302
##
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                -2.638e+00  1.522e-02 -173.29  <2e-16 ***
## pca_including_dummy_variables$x[, 1] -4.536e-05  3.798e-06  -11.94  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 36033  on 72160  degrees of freedom
## Residual deviance: 35857  on 72159  degrees of freedom
## AIC: 35861
##

```

```

## Number of Fisher Scoring iterations: 6

PCA using original 10 variables

pca_original_data <- prcomp(train.x)

summary(pca_original_data) #PC1 has 99.66% variance explained

## Importance of components:
##                               PC1        PC2        PC3        PC4        PC5        PC6        PC7
## Standard deviation     1.420e+04 426.3224 2.96e+02 14.49 5.925 5.058 1.144
## Proportion of Variance 9.987e-01  0.0009 4.30e-04 0.00 0.000 0.000 0.000
## Cumulative Proportion  9.987e-01  0.9996 1.00e+00 1.00 1.000 1.000 1.000
##                               PC8        PC9        PC10
## Standard deviation     1.007 0.565 0.346
## Proportion of Variance 0.000 0.000 0.000
## Cumulative Proportion 1.000 1.000 1.000

pca_original_data$rotation[,1] #It also really likes MonthlyIncome and not anything else

## RevolvingUtilizationOfUnsecuredLines                               age
##                               1.663543e-04                         3.754805e-05
## NumberOfTime30.59DaysPastDueNotWorse                         DebtRatio
##                               -2.494353e-06                         -9.026497e-04
## MonthlyIncome                                         NumberOfOpenCreditLinesAndLoans
##                               9.999996e-01                         3.387604e-05
## NumberOfTimes90DaysLate                                     NumberRealEstateLoansOrLines
##                               -2.982336e-06                         1.014049e-05
## NumberOfTime60.89DaysPastDueNotWorse                      NumberOfDependents
##                               -2.547678e-06                         5.400872e-06

glm_pca_original_data <- glm(train.y ~ pca_original_data$x[,1], family = "binomial")

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(glm_pca_original_data)

## 
## Call:
## glm(formula = train.y ~ pca_original_data$x[, 1], family = "binomial")
## 
## Deviance Residuals:
##      Min        1Q        Median        3Q        Max 
## -0.4302   -0.3975   -0.3784   -0.3507   5.2302 
## 
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)    
## (Intercept) -2.638e+00  1.522e-02 -173.29  <2e-16 ***
## pca_original_data$x[, 1] -4.536e-05  3.798e-06  -11.94  <2e-16 ***
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## (Dispersion parameter for binomial family taken to be 1)
## 
## Null deviance: 36033  on 72160  degrees of freedom
## Residual deviance: 35857  on 72159  degrees of freedom

```

```

## AIC: 35861
##
## Number of Fisher Scoring iterations: 6

PCA Using Dummy variables

pca_dummy <- prcomp(Just_Bad_Variables[,-c(which(names(Just_Bad_Variables) == "SeriousDlqin2yrs")), which(names(Just_Bad_Variables) == "Dlqin2yrs")])

summary(pca_dummy) #PC 1 is 100%?

## Importance of components:
##                               PC1        PC2        PC3        PC4        PC5        PC6
## Standard deviation     14.46 0.007445 0.005265 0.003723 0.003723 7.281e-16
## Proportion of Variance 1.00 0.000000 0.000000 0.000000 0.000000 0.000e+00
## Cumulative Proportion  1.00 1.000000 1.000000 1.000000 1.000000 1.000e+00
##                               PC7        PC8        PC9        PC10
## Standard deviation     6.661e-16 1.404e-19 8.404e-23 1.584e-35
## Proportion of Variance 0.000e+00 0.000e+00 0.000e+00 0.000e+00
## Cumulative Proportion  1.000e+00 1.000e+00 1.000e+00 1.000e+00

pca_dummy$rotation[,1] #Age is significant

##                               age          HighRevolving
## 1.000000e+00          0.000000e+00
## Many_LessThan2MonthsLate HighDebtRatio
## 1.108186e-06          -2.834080e-07
## Rich                   Many_CurrentLoans
## -2.834080e-07          5.117887e-07
## Many_AtLeastThreeMonthsLate Many_HouseLoans
## -2.834080e-07          -1.012338e-06
## Many_TwoToThreeMonthsLate Many_Dependents
## -2.834080e-07          -1.012338e-06

glm_pca_dummy <- glm(train.y ~ pca_dummy$x[,1], family = "binomial")
summary(glm_pca_dummy)

## Call:
## glm(formula = train.y ~ pca_dummy$x[, 1], family = "binomial")
##
## Deviance Residuals:
##      Min      1Q      Median      3Q      Max
## -0.7208 -0.4135 -0.3553 -0.3049  2.8707
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) -2.681737  0.015742 -170.36  <2e-16 ***
## pca_dummy$x[, 1] -0.028603  0.001092  -26.19  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 36033  on 72160  degrees of freedom
## Residual deviance: 35308  on 72159  degrees of freedom
## AIC: 35312

```

```

##  

## Number of Fisher Scoring iterations: 5

1 b) PCA with Balanced Data

pca_balanced <- prcomp(balanced_dataset.1[,-which(names(balanced_dataset.1) == "SeriousDlqin2yrs")])  

summary(pca_balanced) #99.98% Variance is explained by PC1

## Importance of components:  

##  

##          PC1       PC2       PC3       PC4       PC5       PC6       PC7  

## Standard deviation 3.625e+04 520.00821 435.91150 13.82 11.52 5.317 1.248  

## Proportion of Variance 9.997e-01 0.00021 0.00014 0.00 0.00 0.000 0.000  

## Cumulative Proportion 9.997e-01 0.99986 1.00000 1.00 1.00 1.000 1.000  

##  

##          PC8       PC9       PC10  

## Standard deviation 1.159 0.903 0.627  

## Proportion of Variance 0.000 0.000 0.000  

## Cumulative Proportion 1.000 1.000 1.000  

pca_balanced$rotation[,1]

## RevolvingUtilizationOfUnsecuredLines                      age  

## 1.070390e-04                                         1.358236e-05  

## Numberoftime30.59DaysPastDueNotWorse                 DebtRatio  

## -2.634321e-06                                         -1.573957e-04  

## MonthlyIncome                                         NumberofOpenCreditLinesAndLoans  

## 1.000000e+00                                         9.098638e-06  

## Numberoftimes90DaysLate                               NumberRealEstateLoansOrLines  

## -2.675902e-06                                         2.790161e-06  

## Numberoftime60.89DaysPastDueNotWorse                 NumberofDependents  

## -2.291266e-06                                         1.294679e-06  

glm_pca_balanced <- glm(balanced_dataset.1$SeriousDlqin2yrs ~ pca_balanced$x[,1], family = "binomial")  

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred  

summary(glm_pca_balanced)

##  

## Call:  

## glm(formula = balanced_dataset.1$SeriousDlqin2yrs ~ pca_balanced$x[,  

##   1], family = "binomial")  

##  

## Deviance Residuals:  

##   Min     1Q   Median     3Q    Max  

## -1.2896 -1.1847 -0.3043  1.1506  4.6412  

##  

## Coefficients:  

##             Estimate Std. Error z value Pr(>|z|)  

## (Intercept) -9.622e-02  2.158e-02 -4.459 8.22e-06 ***  

## pca_balanced$x[, 1] -4.412e-05  3.746e-06 -11.779 < 2e-16 ***  

## ---  

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

##  

## (Dispersion parameter for binomial family taken to be 1)  

##  

## Null deviance: 13923  on 10044  degrees of freedom

```

```

## Residual deviance: 13655 on 10043 degrees of freedom
## AIC: 13659
##
## Number of Fisher Scoring iterations: 6

```

Method 2: Using GLM Original Predictors vs Extreme Binned Predictors + MonthlyIncome

We compared GLM original Predictors with extreme binned predictors using unbalanced data and see better performance in original numeric predictors.

We now try to improve the model using balanced data.

2 a) GLM Original Predictors with Unbalanced Data

```

## Original Predictors

model <- glm(Jimmys_Bad_Variables$SeriousDlqin2yrs ~ ., family = "binomial", data = subset(Jimmys_Bad_Variables, select = RevolvingUtilizationOfUnsecuredLines:NumberofDependents))

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
#To Change family link use family = quasi(variance = "mu^3", link = "log") change quasi
summary(model)

## Call:
## glm(formula = Jimmys_Bad_Variables$SeriousDlqin2yrs ~ ., family = "binomial",
##      data = subset(Jimmys_Bad_Variables, select = RevolvingUtilizationOfUnsecuredLines:NumberofDependents))

## Deviance Residuals:
##      Min        1Q     Median        3Q       Max
## -2.9318  -0.3956  -0.3264  -0.2654   5.2661

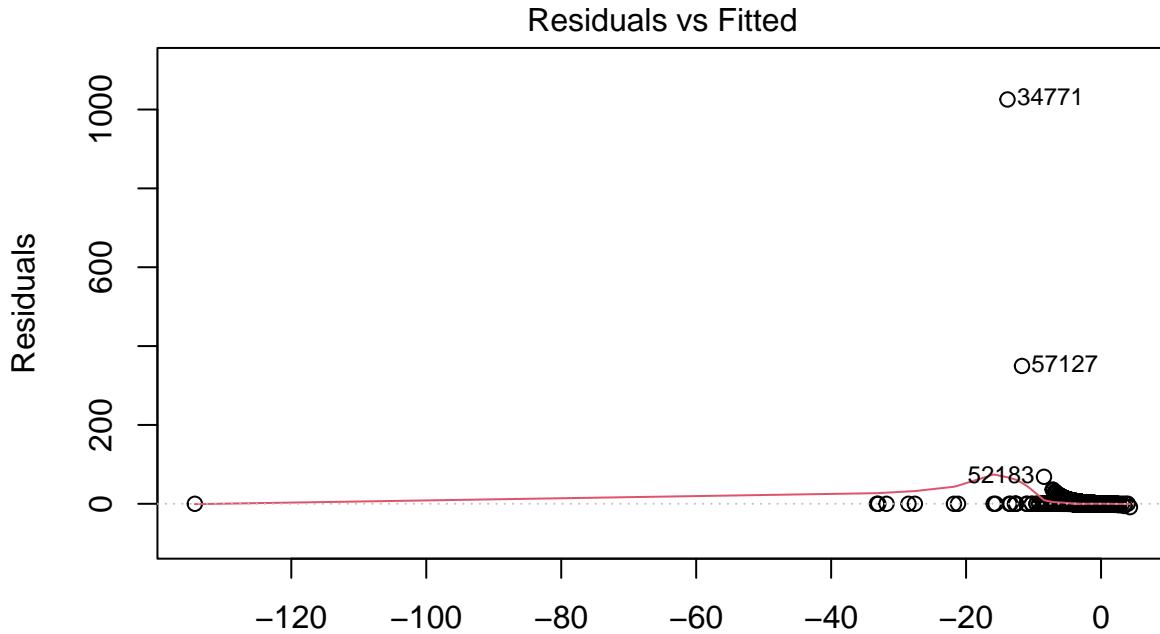
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                 -1.562e+00  6.016e-02 -25.957 < 2e-16 ***
## RevolvingUtilizationOfUnsecuredLines -8.778e-05  1.123e-04  -0.782  0.434
## age                         -2.411e-02  1.203e-03 -20.045 < 2e-16 ***
## NumberofTime30.59DaysPastDueNotWorse  4.991e-01  1.537e-02  32.464 < 2e-16 ***
## DebtRatio                   -7.277e-05  5.259e-05  -1.384  0.166
## MonthlyIncome                -4.383e-05  4.296e-06 -10.202 < 2e-16 ***
## NumberofOpenCreditLinesAndLoans -1.905e-03  3.508e-03  -0.543  0.587
## NumberofTimes90DaysLate      4.205e-01  2.195e-02  19.154 < 2e-16 ***
## NumberRealEstateLoansOrLines  8.801e-02  1.403e-02   6.272 3.57e-10 ***
## NumberofTime60.89DaysPastDueNotWorse -8.845e-01  2.524e-02 -35.043 < 2e-16 ***
## NumberofDependents           1.061e-01  1.250e-02   8.493 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## (Dispersion parameter for binomial family taken to be 1)

## Null deviance: 36033 on 72160 degrees of freedom
## Residual deviance: 33374 on 72150 degrees of freedom
## AIC: 33396
##
## Number of Fisher Scoring iterations: 6

```

```
plot(model, which = 1) #Outliers skew residuals plot
```



Predicted values
glm(Jimmys_Bad_Variables\$SeriousDlqin2yrs ~ .)

```
## Recode the model Original Predictors
model <- glm(cs_train$SeriousDlqin2yrs ~ ., family = "binomial", data = train.x)

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
# Run AIC on the model
model_AIC <- stepAIC(model)

## Start: AIC=33396.05
## cs_train$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsecuredLines +
##   age + NumberOfTime30.59DaysPastDueNotWorse + DebtRatio +
##   MonthlyIncome + NumberOfOpenCreditLinesAndLoans + NumberOfTimes90DaysLate +
##   NumberRealEstateLoansOrLines + NumberOfTime60.89DaysPastDueNotWorse +
##   NumberOfDependents

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

##                                     Df Deviance   AIC
## - NumberOfOpenCreditLinesAndLoans    1   33374 33394
## - RevolvingUtilizationOfUnsecuredLines 1   33375 33395
## <none>                                33374 33396
## - DebtRatio                            1   33376 33396
## - NumberRealEstateLoansOrLines        1   33412 33432
## - NumberOfDependents                  1   33444 33464
## - MonthlyIncome                        1   33504 33524
## - NumberOfTimes90DaysLate              1   33738 33758
## - age                                  1   33796 33816
## - NumberOfTime30.59DaysPastDueNotWorse 1   34316 34336
## - NumberOfTime60.89DaysPastDueNotWorse 1   34539 34559

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## 
## Step:  AIC=33394.35
## cs_train$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsecuredLines +
##     age + NumberOfTime30.59DaysPastDueNotWorse + DebtRatio +
##     MonthlyIncome + NumberOfTimes90DaysLate + NumberRealEstateLoansOrLines +
##     NumberOfTime60.89DaysPastDueNotWorse + NumberOfDependents

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

##                                     Df Deviance   AIC
## - RevolvingUtilizationOfUnsecuredLines 1   33375 33393
## <none>                                33374 33394
## - DebtRatio                            1   33377 33395
## - NumberRealEstateLoansOrLines        1   33415 33433
## - NumberOfDependents                  1   33444 33462
## - MonthlyIncome                        1   33508 33526
## - NumberOfTimes90DaysLate              1   33744 33762
## - age                                  1   33816 33834
## - NumberOfTime30.59DaysPastDueNotWorse 1   34323 34341
## - NumberOfTime60.89DaysPastDueNotWorse 1   34540 34558

```


2 b) GLM Extreme Binned Predictors with Unbalanced Data

```
model2 <- glm(Jimmys_Bad_Variables$SeriousDlqin2yrs ~ MonthlyIncome + Jimmysts_Bad_Variables[,13] + Jimmysts_Bad_Variables[,14] + Jimmysts_Bad_Variables[,15] + Jimmysts_Bad_Variables[,16] + Jimmysts_Bad_Variables[,17] + Jimmysts_Bad_Variables[,18] + Jimmysts_Bad_Variables[,19] + Jimmysts_Bad_Variables[,20] + Jimmysts_Bad_Variables[,22], family = "binomial", data = Jimmysts_Bad_Variables)

## Call: glm(formula = Jimmysts_Bad_Variables$SeriousDlqin2yrs ~ MonthlyIncome + Jimmysts_Bad_Variables[, 13] + Jimmysts_Bad_Variables[, 14] + Jimmysts_Bad_Variables[, 15] + Jimmysts_Bad_Variables[, 16] + Jimmysts_Bad_Variables[, 17] + Jimmysts_Bad_Variables[, 18] + Jimmysts_Bad_Variables[, 19] + Jimmysts_Bad_Variables[, 20] + Jimmysts_Bad_Variables[, 22], family = "binomial", data = Jimmysts_Bad_Variables)

## Coefficients:
## (Intercept) MonthlyIncome
## -2.336e+00 -4.536e-05
## Jimmysts_Bad_Variables[, 13] Jimmysts_Bad_Variables[, 14]
## NA -7.691e+00
## Jimmysts_Bad_Variables[, 15] Jimmysts_Bad_Variables[, 16]
## -7.946e+00 NA
## Jimmysts_Bad_Variables[, 17] Jimmysts_Bad_Variables[, 18]
## -5.862e+00 NA
## Jimmysts_Bad_Variables[, 19] Jimmysts_Bad_Variables[, 20]
## -8.139e+00 NA
## Jimmysts_Bad_Variables[, 22]
## NA
##
## Degrees of Freedom: 72160 Total (i.e. Null); 72155 Residual
## Null Deviance: 36030
## Residual Deviance: 35860 AIC: 35870

model2$rank # equals 7 which is how many variables are not NA

## [1] 6

#Certain Dummy Variables are a Singular Matrix Meaning that some of our variables can be constructed using
#Not Sure what to do, but I'll remove these variables in the meantime
```

2 c) GLM Original Predictors Using Balanced Data

```
model_balanced <- glm(balanced_dataset.1$SeriousDlqin2yrs ~ ., data = balanced_dataset.1)
summary(model_balanced)

## Call: glm(formula = balanced_dataset.1$SeriousDlqin2yrs ~ ., data = balanced_dataset.1)

## Deviance Residuals:
## Min 1Q Median 3Q Max
## -1.2672 -0.4510 -0.2253 0.4675 1.9283

## Coefficients:
## Estimate Std. Error t value Pr(>|t|)
```

```

## (Intercept) 7.414e-01 1.935e-02 38.322 < 2e-16 ***
## RevolvingUtilizationOfUnsecuredLines -6.955e-06 9.127e-06 -0.762 0.446
## age -6.129e-03 3.626e-04 -16.902 < 2e-16 ***
## NumberOfTime30.59DaysPastDueNotWorse 8.424e-02 4.481e-03 18.800 < 2e-16 ***
## DebtRatio 6.081e-06 1.090e-05 0.558 0.577
## MonthlyIncome -7.979e-07 1.315e-07 -6.068 1.34e-09 ***
## NumberOfOpenCreditLinesAndLoans -1.151e-03 1.010e-03 -1.140 0.254
## NumberOfTimes90DaysLate 4.436e-02 5.254e-03 8.443 < 2e-16 ***
## NumberRealEstateLoansOrLines 6.004e-03 3.859e-03 1.556 0.120
## NumberOfTime60.89DaysPastDueNotWorse -1.217e-01 6.108e-03 -19.917 < 2e-16 ***
## NumberOfDependents 1.844e-02 4.020e-03 4.588 4.53e-06 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.2261911)
##
## Null deviance: 2510.6 on 10044 degrees of freedom
## Residual deviance: 2269.6 on 10034 degrees of freedom
## AIC: 13589
##
## Number of Fisher Scoring iterations: 2
stepAIC(model_balanced) #remove Debt Ratio and NumberOfOpenCreditLinesAndLoans

## Start: AIC=13588.83
## balanced_dataset.1$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsecuredLines +
##   age + NumberOfTime30.59DaysPastDueNotWorse + DebtRatio +
##   MonthlyIncome + NumberOfOpenCreditLinesAndLoans + NumberOfTimes90DaysLate +
##   NumberRealEstateLoansOrLines + NumberOfTime60.89DaysPastDueNotWorse +
##   NumberOfDependents
##
##                               Df Deviance AIC
## - DebtRatio 1 2269.7 13587
## - RevolvingUtilizationOfUnsecuredLines 1 2269.7 13587
## - NumberOfOpenCreditLinesAndLoans 1 2269.9 13588
## <none> 2269.6 13589
## - NumberRealEstateLoansOrLines 1 2270.2 13589
## - NumberOfDependents 1 2274.4 13608
## - MonthlyIncome 1 2277.9 13624
## - NumberOfTimes90DaysLate 1 2285.7 13658
## - age 1 2334.2 13869
## - NumberOfTime30.59DaysPastDueNotWorse 1 2349.6 13935
## - NumberOfTime60.89DaysPastDueNotWorse 1 2359.3 13976
##
## Step: AIC=13587.14
## balanced_dataset.1$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsecuredLines +
##   age + NumberOfTime30.59DaysPastDueNotWorse + MonthlyIncome +
##   NumberOfOpenCreditLinesAndLoans + NumberOfTimes90DaysLate +
##   NumberRealEstateLoansOrLines + NumberOfTime60.89DaysPastDueNotWorse +
##   NumberOfDependents
##
##                               Df Deviance AIC
## - RevolvingUtilizationOfUnsecuredLines 1 2269.8 13586
## - NumberOfOpenCreditLinesAndLoans 1 2270.0 13586
## <none> 2269.7 13587

```

```

## - NumberRealEstateLoansOrLines      1  2270.2 13588
## - NumberOfDependents                1  2274.4 13606
## - MonthlyIncome                     1  2278.0 13622
## - NumberOfTimes90DaysLate          1  2285.8 13656
## - age                             1  2334.2 13867
## - NumberOfTime30.59DaysPastDueNotWorse 1  2349.6 13933
## - NumberOfTime60.89DaysPastDueNotWorse 1  2359.4 13975
##
## Step: AIC=13585.72
## balanced_dataset.1$SeriousDlqin2yrs ~ age + NumberOfTime30.59DaysPastDueNotWorse +
##   MonthlyIncome + NumberOfOpenCreditLinesAndLoans + NumberOfTimes90DaysLate +
##   NumberRealEstateLoansOrLines + NumberOfTime60.89DaysPastDueNotWorse +
##   NumberOfDependents
##
##                                     Df Deviance   AIC
## - NumberOfOpenCreditLinesAndLoans  1  2270.1 13585
## <none>                           2269.8 13586
## - NumberRealEstateLoansOrLines   1  2270.4 13586
## - NumberOfDependents            1  2274.6 13605
## - MonthlyIncome                 1  2278.2 13621
## - NumberOfTimes90DaysLate       1  2285.9 13655
## - age                           1  2334.4 13865
## - NumberOfTime30.59DaysPastDueNotWorse 1  2349.8 13932
## - NumberOfTime60.89DaysPastDueNotWorse 1  2359.6 13974
##
## Step: AIC=13585.02
## balanced_dataset.1$SeriousDlqin2yrs ~ age + NumberOfTime30.59DaysPastDueNotWorse +
##   MonthlyIncome + NumberOfTimes90DaysLate + NumberRealEstateLoansOrLines +
##   NumberOfTime60.89DaysPastDueNotWorse + NumberOfDependents
##
##                                     Df Deviance   AIC
## - NumberRealEstateLoansOrLines   1  2270.4 13584
## <none>                           2270.1 13585
## - NumberOfDependents            1  2274.9 13604
## - MonthlyIncome                 1  2278.6 13620
## - NumberOfTimes90DaysLate       1  2287.1 13658
## - age                           1  2338.7 13882
## - NumberOfTime30.59DaysPastDueNotWorse 1  2350.0 13930
## - NumberOfTime60.89DaysPastDueNotWorse 1  2360.1 13974
##
## Step: AIC=13584.44
## balanced_dataset.1$SeriousDlqin2yrs ~ age + NumberOfTime30.59DaysPastDueNotWorse +
##   MonthlyIncome + NumberOfTimes90DaysLate + NumberOfTime60.89DaysPastDueNotWorse +
##   NumberOfDependents
##
##                                     Df Deviance   AIC
## <none>                           2270.4 13584
## - NumberOfDependents            1  2275.4 13604
## - MonthlyIncome                 1  2278.7 13619
## - NumberOfTimes90DaysLate       1  2287.1 13656
## - age                           1  2338.9 13881
## - NumberOfTime30.59DaysPastDueNotWorse 1  2351.7 13936
## - NumberOfTime60.89DaysPastDueNotWorse 1  2360.3 13972

```

```

## 
## Call: glm(formula = balanced_dataset.1$SeriousDlqin2yrs ~ age + NumberOfTime30.59DaysPastDueNotWorse +
##           MonthlyIncome + NumberOfTimes90DaysLate + NumberOfTime60.89DaysPastDueNotWorse +
##           NumberOfDependents, data = balanced_dataset.1)
## 
## Coefficients:
## (Intercept)                               age
## 7.387e-01                                -6.150e-03
## NumberOfTime30.59DaysPastDueNotWorse      MonthlyIncome
## 8.414e-02                                -7.935e-07
## NumberOfTimes90DaysLate      NumberOfTime60.89DaysPastDueNotWorse
## 4.456e-02                                -1.217e-01
## NumberOfDependents
## 1.883e-02
## 
## Degrees of Freedom: 10044 Total (i.e. Null); 10038 Residual
## Null Deviance: 2511
## Residual Deviance: 2270 AIC: 13580
model_balanced_final <- glm(formula = balanced_dataset.1$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsec
age + NumberOfTime30.59DaysPastDueNotWorse + MonthlyIncome +
NumberOfTimes90DaysLate + NumberRealEstateLoansOrLines +
NumberOfTime60.89DaysPastDueNotWorse + NumberOfDependents,
data = balanced_dataset.1)
summary(model_balanced_final)

## 
## Call:
## glm(formula = balanced_dataset.1$SeriousDlqin2yrs ~ RevolvingUtilizationOfUnsecuredLines +
##       age + NumberOfTime30.59DaysPastDueNotWorse + MonthlyIncome +
##       NumberOfTimes90DaysLate + NumberRealEstateLoansOrLines +
##       NumberOfTime60.89DaysPastDueNotWorse + NumberOfDependents,
##       data = balanced_dataset.1)
## 
## Deviance Residuals:
##    Min      1Q      Median      3Q      Max
## -1.2685 -0.4509 -0.2253  0.4661  1.9416
## 
## Coefficients:
## (Intercept)                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)                               7.374e-01  1.904e-02 38.737 < 2e-16 ***
## RevolvingUtilizationOfUnsecuredLines -6.892e-06  9.126e-06 -0.755  0.450
## age                                     -6.203e-03  3.561e-04 -17.417 < 2e-16 ***
## NumberOfTime30.59DaysPastDueNotWorse  8.367e-02  4.453e-03 18.789 < 2e-16 ***
## MonthlyIncome                            -8.029e-07 1.314e-07 -6.109 1.04e-09 ***
## NumberOfTimes90DaysLate                 4.517e-02  5.210e-03  8.669 < 2e-16 ***
## NumberRealEstateLoansOrLines           4.168e-03  3.483e-03  1.197  0.231
## NumberOfTime60.89DaysPastDueNotWorse -1.218e-01  6.107e-03 -19.947 < 2e-16 ***
## NumberOfDependents                      1.842e-02  4.019e-03  4.582 4.66e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## (Dispersion parameter for gaussian family taken to be 0.2261825)
## 
## Null deviance: 2510.6 on 10044 degrees of freedom

```

```

## Residual deviance: 2270.0  on 10036  degrees of freedom
## AIC: 13586
##
## Number of Fisher Scoring iterations: 2
model3 <- glm(Jimmys_Bad_Variables$SeriousDlqin2yrs ~ MonthlyIncome + Jimmysts_Bad_Variables[,15] + Jimmysts_Bad_Variables[,16] + Jimmysts_Bad_Variables[,17] + Jimmysts_Bad_Variables[,18] + Jimmysts_Bad_Variables[,19], family = "binomial", data = Jimmysts_Bad_Variables)
##
## Coefficients:
## (Intercept) MonthlyIncome
## -2.336e+00 -4.536e-05
## Jimmysts_Bad_Variables[, 15] Jimmysts_Bad_Variables[, 16]
## -7.946e+00 NA
## Jimmysts_Bad_Variables[, 17] Jimmysts_Bad_Variables[, 18]
## -5.862e+00 NA
## Jimmysts_Bad_Variables[, 19]
## -8.139e+00
##
## Degrees of Freedom: 72160 Total (i.e. Null); 72156 Residual
## Null Deviance: 36030
## Residual Deviance: 35860 AIC: 35870
model4 <- glm(Jimmysts_Bad_Variables$SeriousDlqin2yrs ~ MonthlyIncome + Jimmysts_Bad_Variables[,15] + Jimmysts_Bad_Variables[,16] + Jimmysts_Bad_Variables[,17] + Jimmysts_Bad_Variables[,18] + Jimmysts_Bad_Variables[,19], family = binomial(link = "probit"),
## data = Jimmysts_Bad_Variables)
##
## Coefficients:
## (Intercept) MonthlyIncome
## -1.385e+00 -1.658e-05
## Jimmysts_Bad_Variables[, 15] Jimmysts_Bad_Variables[, 16]
## -2.677e+00 NA
## Jimmysts_Bad_Variables[, 17] Jimmysts_Bad_Variables[, 18]
## -1.915e+00 NA
## Jimmysts_Bad_Variables[, 19]
## -2.748e+00
##
## Degrees of Freedom: 72160 Total (i.e. Null); 72156 Residual
## Null Deviance: 36030
## Residual Deviance: 35890 AIC: 35900

```

```

model5 <- glm(Jimmys_Bad_Variables$SeriousDlqin2yrs ~ MonthlyIncome + Jimmys_Bad_Variables[, 15] + Jimmys_Bad_Variables[, 16] + Jimmys_Bad_Variables[, 17] + Jimmys_Bad_Variables[, 18] + Jimmys_Bad_Variables[, 19], family = binomial(link = "cloglog"),
data = Jimmys_Bad_Variables)

## Coefficients:
## (Intercept) MonthlyIncome
## -2.3775977 -0.0000445
## Jimmys_Bad_Variables[, 15] Jimmys_Bad_Variables[, 16]
## -7.8205053 NA
## Jimmys_Bad_Variables[, 17] Jimmys_Bad_Variables[, 18]
## -5.7758409 NA
## Jimmys_Bad_Variables[, 19]
## -8.0096201
##
## Degrees of Freedom: 72160 Total (i.e. Null); 72156 Residual
## Null Deviance: 36030
## Residual Deviance: 35850 AIC: 35860

anova(model, model2, model3, model4, model5) #model 2 is the one with NA values

## Warning in anova.glmList(c(list(object), dotargs), dispersion = dispersion, :
## c("models with response 'c(\"Jimmys_Bad_Variables$SeriousDlqin2yrs\",",
## \"Jimmys_Bad_Variables$SeriousDlqin2yrs\", ' removed because response differs
## from model 1", "models with response '\\"Jimmys_Bad_Variables$SeriousDlqin2yrs\\",
## \\"Jimmys_Bad_Variables$SeriousDlqin2yrs\\'" removed because response differs from
## model 1", "models with response '))' removed because response differs from model
## 1")

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

## Analysis of Deviance Table
##
## Model: binomial, link: logit
##
## Response: cs_train$SeriousDlqin2yrs
##
## Terms added sequentially (first to last)
##
##

```

```

##                                     Df Deviance Resid. Df Resid. Dev
##  NULL                               72160    36033
##  RevolvingUtilizationOfUnsecuredLines  1     0.98    72159    36032
##  age                                 1    725.52    72158    35306
##  NumberofTime30.59DaysPastDueNotWorse 1    338.11    72157    34968
##  DebtRatio                            1     0.06    72156    34968
##  MonthlyIncome                         1    75.45    72155    34892
##  NumberofOpenCreditLinesAndLoans       1    14.61    72154    34878
##  NumberofTimes90DaysLate               1   205.44    72153    34672
##  NumberRealEstateLoansOrLines          1    39.50    72152    34633
##  NumberofTime60.89DaysPastDueNotWorse 1   1189.20    72151    33444
##  NumberofDependents                   1    69.70    72150    33374
#model 1 is the best but we can check model 5 using our dummy variables

```

2 c) GLM Original Predictors with Balanced Data

Method 3: Ridge

3 a) Ridge with Unbalanced Data

```

x <- data.frame(Jimmys_Bad_Variables$SeriousDlqin2yrs, Jimmysts_Bad_Variables$MonthlyIncome, Jimmysts_Bad_Variables$Age)
x <- na.omit(x) #Remember Monthly Income contains NA values
x_for_ridge <- data.matrix(x[,-1]) #Everything but Response Variable
ridge_model5 <- cv.glmnet(x_for_ridge,x[,1], alpha = 0, standardize = TRUE, nfolds = length(x))
ridge_model5

##
## Call: cv.glmnet(x = x_for_ridge, y = x[, 1], nfolds = length(x), alpha = 0, standardize = TRUE)
##
## Measure: Mean-Squared Error
##
##      Lambda Index Measure      SE Nonzero
## min  0.928     19  0.06378  0.0006587     6
## 1se  4.951      1  0.06378  0.0006604     6

```

3 b) Ridge with Balanced Data

```

x_for_ridge_balanced <- data.matrix(balanced_dataset.1[,-1])
ridge_model_balanced <- cv.glmnet(x_for_ridge_balanced,balanced_dataset.1[,1], alpha = 0, standardize = TRUE)
ridge_model_balanced

##
## Call: cv.glmnet(x = x_for_ridge_balanced, y = balanced_dataset.1[, 1], nfolds = length(balanced_dataset.1))
##
## Measure: Mean-Squared Error
##
##      Lambda Index Measure      SE Nonzero
## min  0.00953    100  0.2339  0.003373     10
## 1se  0.03193     87  0.2371  0.003105     10

```

Method 4: Lasso

4 a) Lasso with Unbalanced Data

```
lasso_model15 <- cv.glmnet(x_for_ridge,x[,1], alpha = 1, standardize = TRUE, nfolds = length(x))
lasso_model15

##
## Call: cv.glmnet(x = x_for_ridge, y = x[, 1], nfolds = length(x), alpha = 1, standardize = TRUE)
##
## Measure: Mean-Squared Error
##
##      Lambda Index Measure      SE Nonzero
## min 0.004951      1 0.06379 0.0005906      0
## 1se 0.004951      1 0.06379 0.0005906      0
```

4 b) Lasso with Balanced Data

```
lasso_model_balanced <- cv.glmnet(x_for_ridge_balanced,balanced_dataset.1[,1], alpha = 1, standardize = TRUE)
lasso_model_balanced

##
## Call: cv.glmnet(x = x_for_ridge_balanced, y = balanced_dataset.1[, 1], nfolds = length(balanced_dataset.1))
##
## Measure: Mean-Squared Error
##
##      Lambda Index Measure      SE Nonzero
## min 0.000170      69 0.2294 0.003206      10
## 1se 0.003345      37 0.2324 0.002600      8
```

Method 4: Random Forest

4 a) Random Forest with Unbalanced Data

```
# Fits Random Forest
model.rf = randomForest(y = as.factor(train.y), x=train.x, xtest=test.x, ytest=as.factor(test.y), mtry = 3)

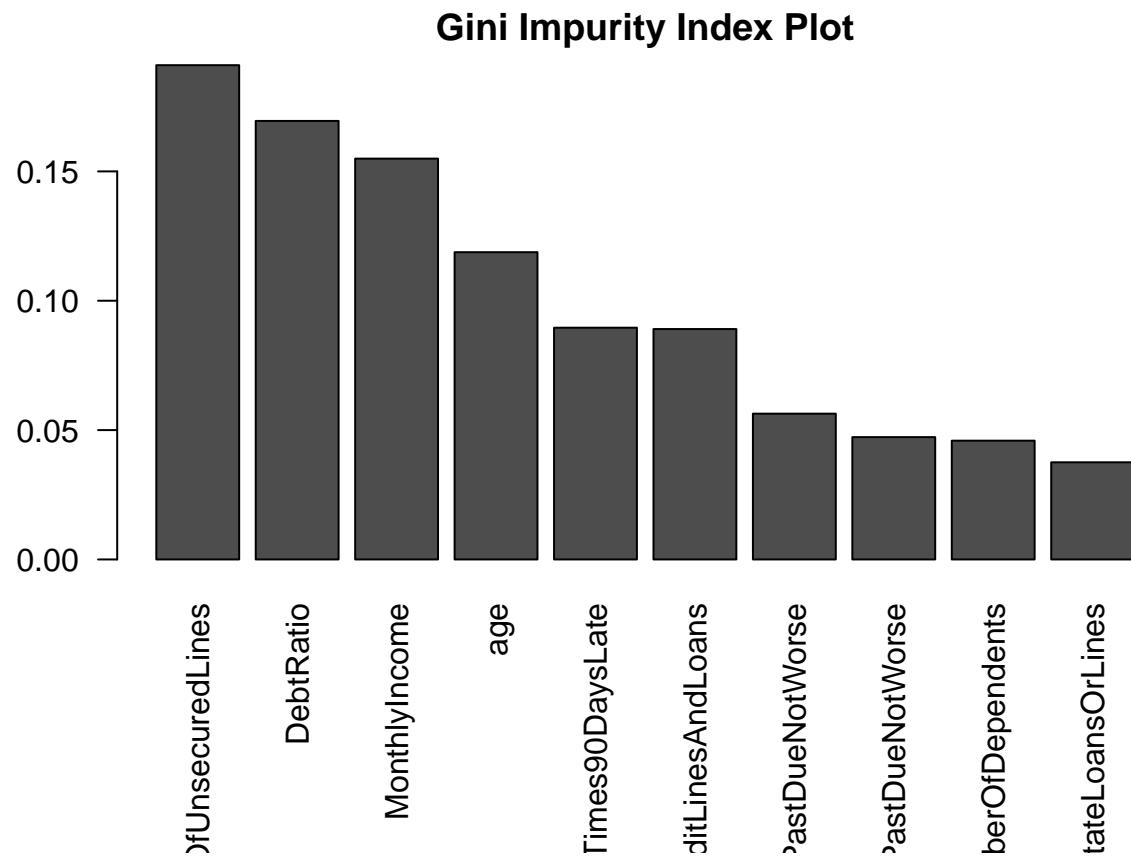
model.rf # Output shows confusion matrix for both train and test

##
## Call:
##  randomForest(x = train.x, y = as.factor(train.y), xtest = test.x, ytest = as.factor(test.y), mtry = 3)
##  Type of random forest: classification
##  Number of trees: 500
##  No. of variables tried at each split: 3
##
##      OOB estimate of  error rate: 6.61%
## Confusion matrix:
##      0  1 class.error
## 0 66601 619 0.009208569
## 1 4150 791 0.839910949
##      Test set error rate: 6.7%
## Confusion matrix:
##      0  1 class.error
## 0 44304 388 0.008681643
## 1 2837 579 0.830503513
```

```

# Random Forest Output
var.imp = data.frame(importance(model.rf, type=2))
var.imp$Variables = row.names(var.imp)
varimp = var.imp[order(var.imp$MeanDecreaseGini, decreasing = T),]
par(mar = c(7.5,3,2,2))
giniplot = barplot(t(varimp[-2]/sum(varimp[-2])), las=2, cex.names=1, main="Gini Impurity Index Plot")

```



4 b) Random Forest with Balanced Data

```

model_balanced.rf <- randomForest(y = as.factor(balanced_dataset.1$SeriousDlqin2yrs), x=balanced_x, xtest=test_x, ytest=test_y, ntree=500, importance=TRUE, na.action=na.omit)

model_balanced.rf # Output shows confusion matrix for both train and test

## 
## Call:
##   randomForest(x = balanced_x, y = as.factor(balanced_dataset.1$SeriousDlqin2yrs), xtest = test_x, ytest = test_y, ntree = 500, importance = TRUE, na.action = na.omit)
##   Type of random forest: classification
##   Number of trees: 500
##   No. of variables tried at each split: 3
## 
##   OOB estimate of  error rate: 22.95%
##   Confusion matrix:
##   0 1 class.error
## 0 4062 1042  0.2041536

```

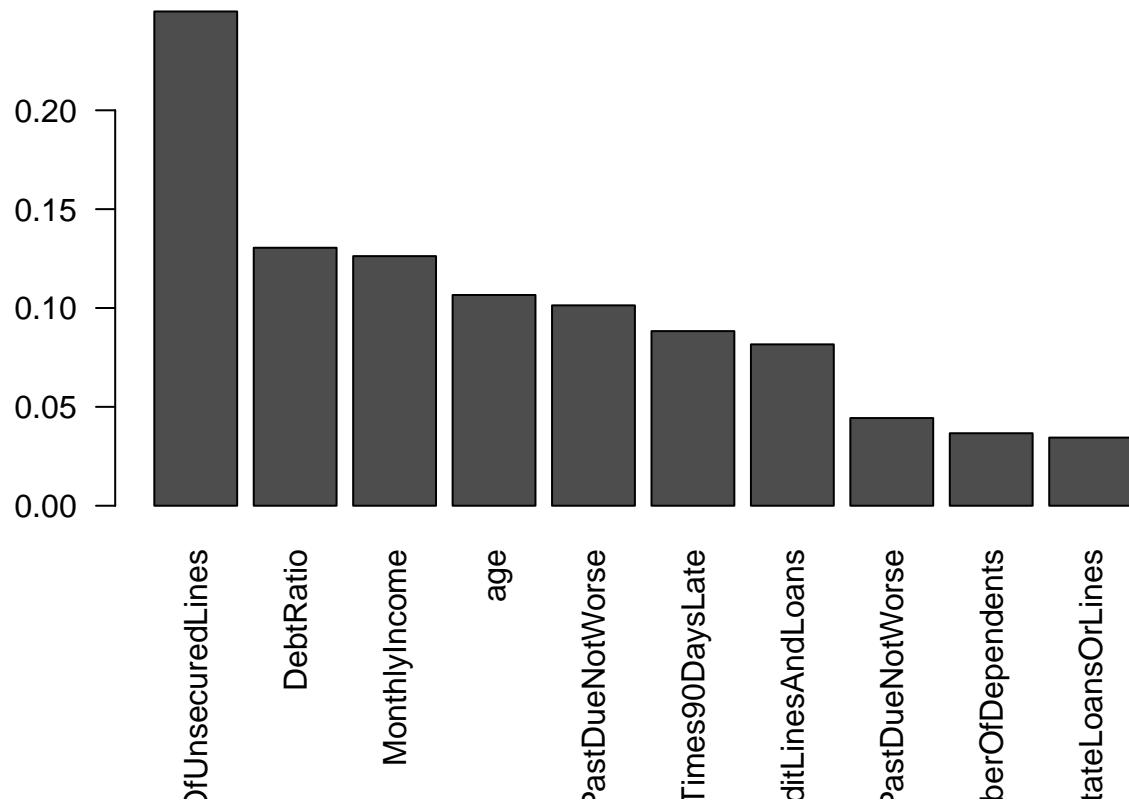
```

## 1 1263 3678 0.2556163
## Test set error rate: 21.46%
## Confusion matrix:
##      0   1 class.error
## 0 35223 9469 0.2118724
## 1  854 2562 0.2500000

# Random Forest Output
var_balanced.imp = data.frame(importance(model_balanced.rf, type=2))
var_balanced.imp$Variables = row.names(var_balanced.imp)
var_balancedimp = var_balanced.imp[order(var_balanced.imp$MeanDecreaseGini, decreasing = T),]
par(mar = c(7.5,3,2,2))
giniplot = barplot(t(var_balancedimp[-2]/sum(var_balancedimp[-2])), las=2, cex.names=1, main="Gini Impurity Index Plot")

```

Gini Impurity Index Plot



```

Tree <- (getTree(model_balanced.rf, k = 1, labelVar = TRUE))
head(Tree)

```

```

##   left daughter right daughter          split var split point
## 1      2          3 RevolvingUtilizationOfUnsecuredLines 0.4778472
## 2      4          5           NumberOfTimes90DaysLate 0.5000000
## 3      6          7 RevolvingUtilizationOfUnsecuredLines 0.9028845
## 4      8          9           DebtRatio 0.3846390
## 5     10          11      NumberOfOpenCreditLinesAndLoans 23.5000000
## 6     12          13 NumberOfTime30.59DaysPastDueNotWorse 0.5000000
##   status prediction
## 1      1      <NA>
## 2      1      <NA>

```

```
## 3      1      <NA>
## 4      1      <NA>
## 5      1      <NA>
## 6      1      <NA>
```

5. Evaluating Model/Comparing results

- mmp plots to see if model fits the data, as well as the pearson Chi-square test
- checking for outliers and influential points
- Some measure of pesudo R-square and accuracy of the model
- Use confusion matrix, ROC/AUC curve, AIC to evaluate the different models

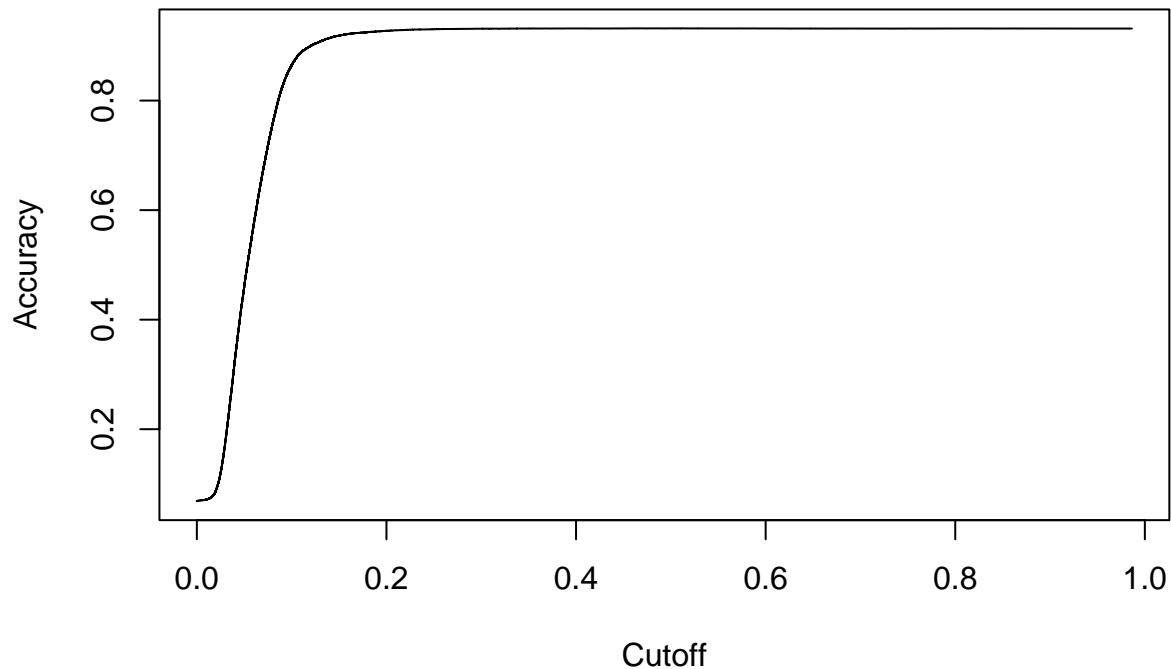
5-1 Evaluation on Final Model using Training Data

```
## Set model as final model
model.final <- model

## Evaluation on Final model using Training Data
train_preds = predict(model.final, newdata=train.x, type="response")
head(train_preds[is.na(train_preds)])

## named numeric(0)
#train.x[c(7,9),]
#train_preds[is.na(train_preds)]

pred_compare = prediction(train_preds, train.y)
plot(performance(pred_compare, "acc"))
```



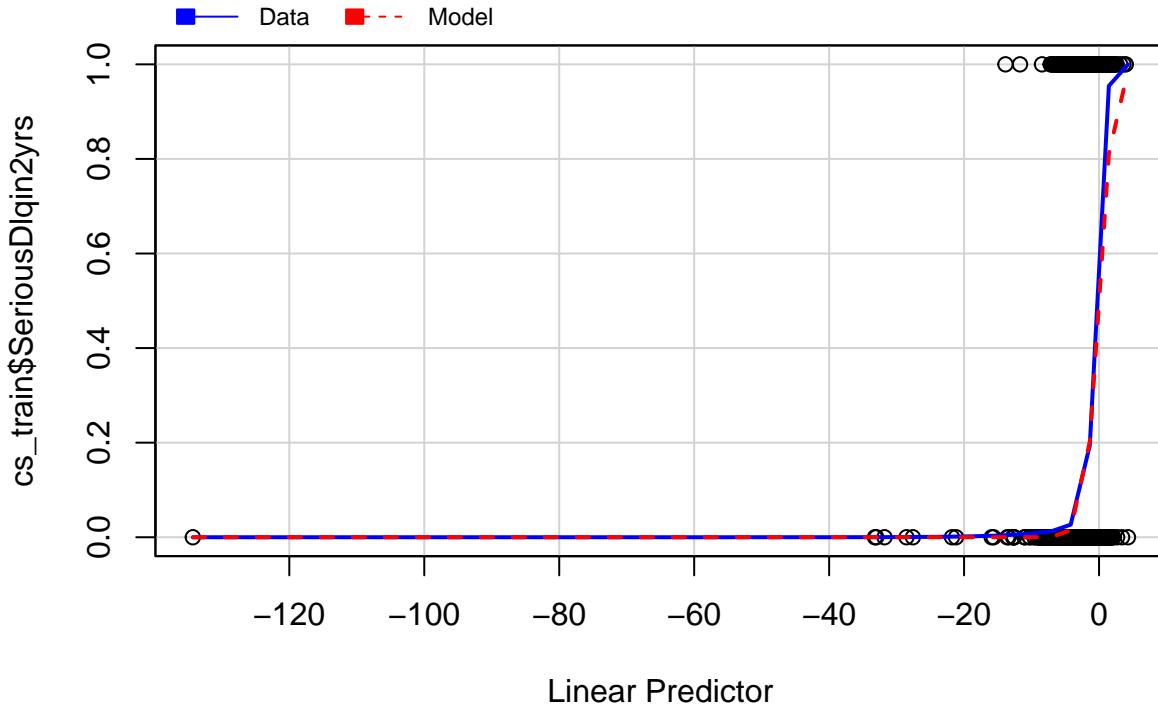
```
table(train.y, train_preds>0.2) # accuracy on train
```

```
##  
## train.y FALSE TRUE  
##      0 66148 1072  
##      1 4161  780
```

5-2 Marginal Model Plots

Need to Update!!

```
# residual plots  
#residualPlots(model.final)  
  
# Marginial Model Plots  
library(car)  
mmp(model.final)  
  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```



5-3 Goodness of Fit using Hosmer-Lemeshow Test

a)

The p-value is 0, meaning that we want to reject the null hypothesis that the model is adequate.

```
# Goodness of Fit using Hosmer-Lemeshow Test
linpred=predict(model.final)

cs_train_m <- mutate(cs_train, predprob=predict(model.final, type="response")) # cal p^i
gdf <- group_by(cs_train_m, ntile(linpred, 1000)) # group up the data by eta_x into 100 groups
hldf <- summarise(gdf, y=sum(SeriousDlqin2yrs==1), ppred=mean(predprob), count=n())
head(hldf)

## # A tibble: 6 x 4
##   `ntile(linpred, 1000)`    y    ppred count
##   <int> <int>    <dbl> <int>
## 1 1       8 0.000387    73
## 2 2      13 0.00251     73
## 3 3      22 0.00485     73
## 4 4      14 0.00717     73
## 5 5      12 0.00920     73
## 6 6      15 0.0105      73

# We adjust the size of the bins until there's only one group with less than 5
hldf[hldf$count<5,]

## # A tibble: 0 x 4
```

```

## # ... with 4 variables: ntile(linpred, 1000) <int>, y <int>, ppred <dbl>,
## #   count <int>
# Observed Proportion Confidence Interval vs Predicted Probability
hldf <- mutate(hldf, se.fit=sqrt(ppred*(1-ppred)/count))

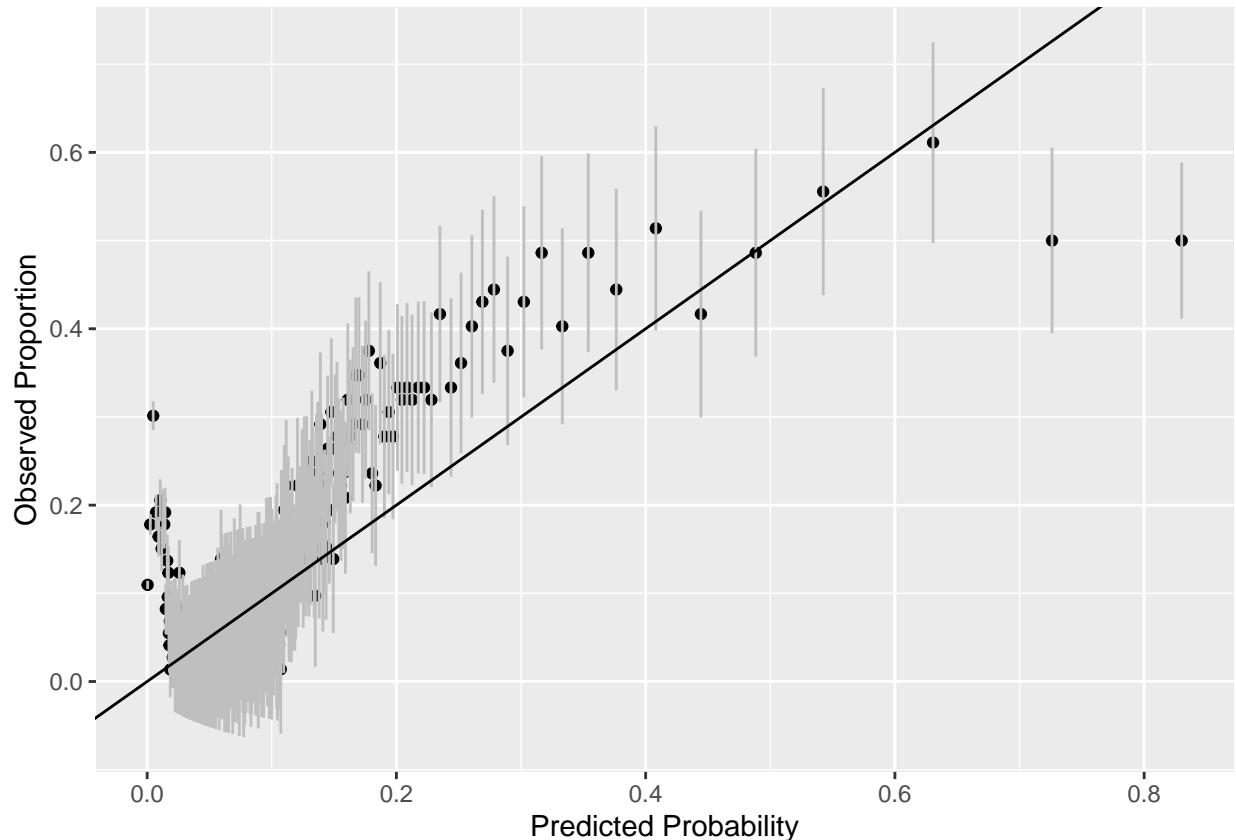
ggplot(hldf,aes(x=ppred,y=y/count,ymin=y/count-2*se.fit, ymax=y/count+2*se.fit))+  

  geom_point()+geom_linerange(color=grey(0.75))+  

  geom_abline(intercept = 0,slope = 1)+  

  xlab("Predicted Probability")+
  ylab("Observed Proportion")

```



```

# Hosmer-Lemeshow statistics
hlstat <- with(hldf, sum((y-count*ppred) ^2/(count * ppred * (1-ppred))))  

c(hlstat, nrow(hldf))

## [1] 7509.678 1000.000
# The p-value is given by:
1-pchisq(hlstat, nrow(hldf)-2)

## [1] 0

```

AUC

5-3 Model Performance with Test Data

```

#Final Model (w/ interaction term ReugularMedicine * PhysicallyActive)
result_m2 = predict(model.final, newdata=test.x, type="response")

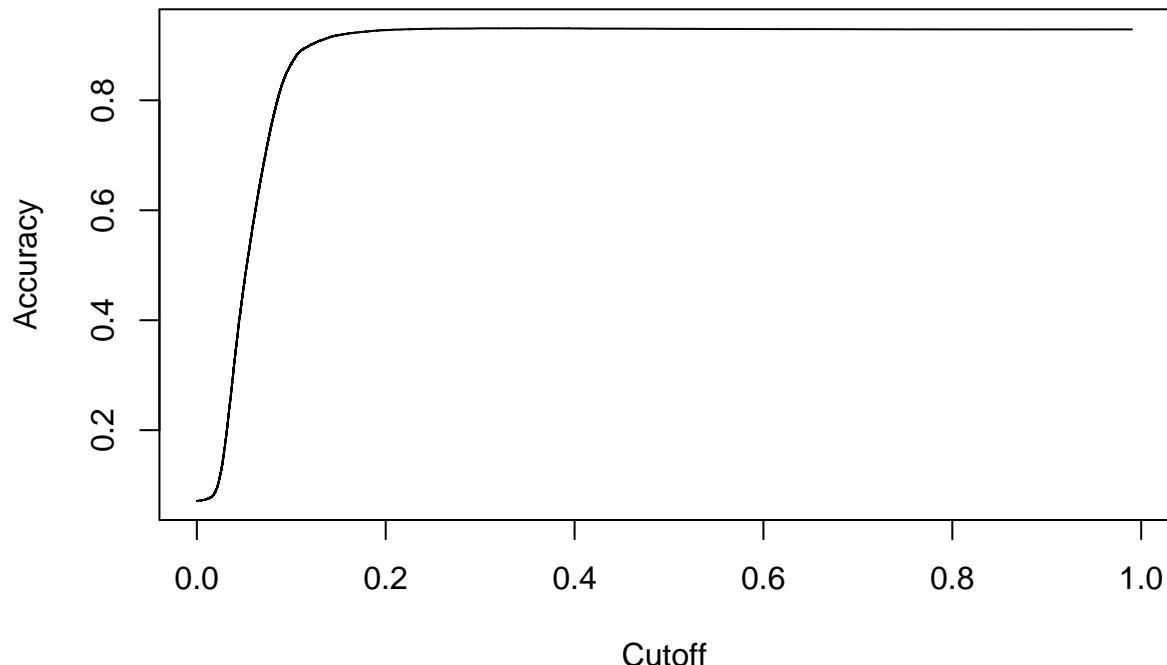
head(test.y)

## [1] 0 0 0 0 0 0

pred_m2 = prediction(result_m2, test.y)

plot(performance(pred_m2, "acc")) #It seems like 0.52 cutoff has the highest accuracy

```



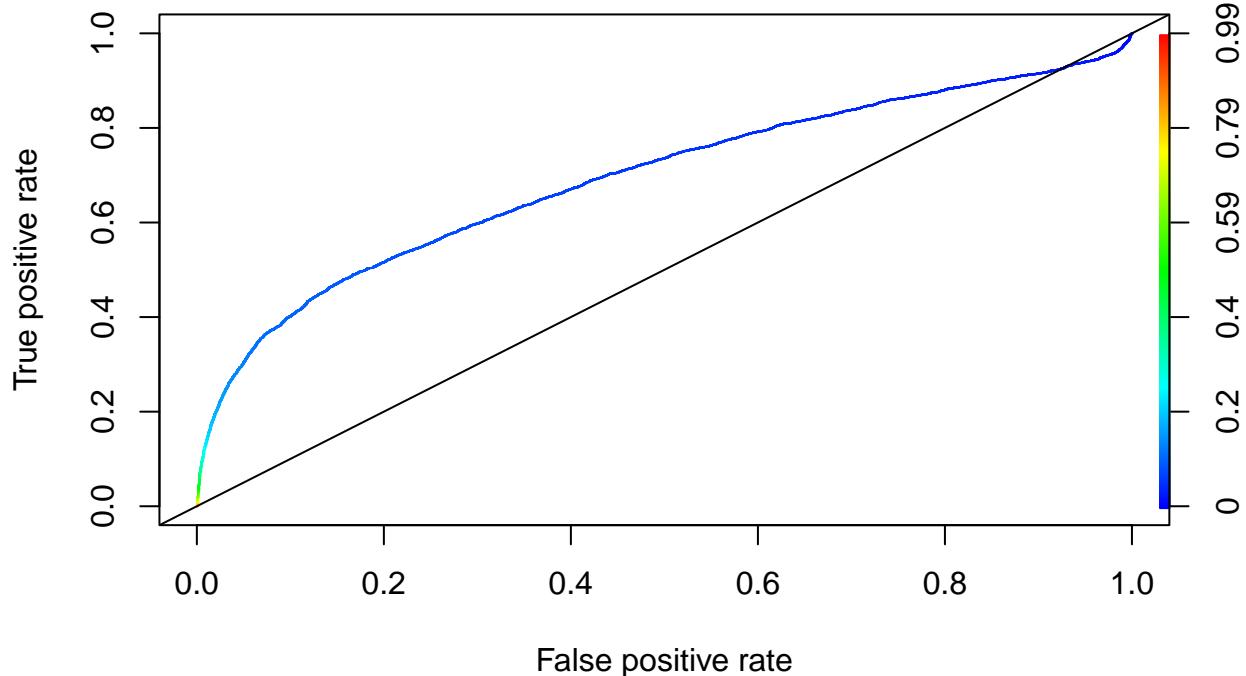
```

table(test.y, result_m2>0.2)

##
## test.y FALSE  TRUE
##      0 44063   629
##      1 2853   563

#Accuracy :
#Sensitivity :
#Specificity :
#The Specificity and accuracy improved a bit compared to the previous model without interaction term, s
plot(performance(pred_m2,"tpr","fpr"), colorize=T)
abline(0,1)

```



```
#Now we calculate the area under the curve (AUC) and accuracy of the model given above (glmModel2)
auc_ROCR2 <- performance(pred_m2, measure = "auc")
auc_ROCR2@y.values[[1]]
```

```
## [1] 0.6931242
```

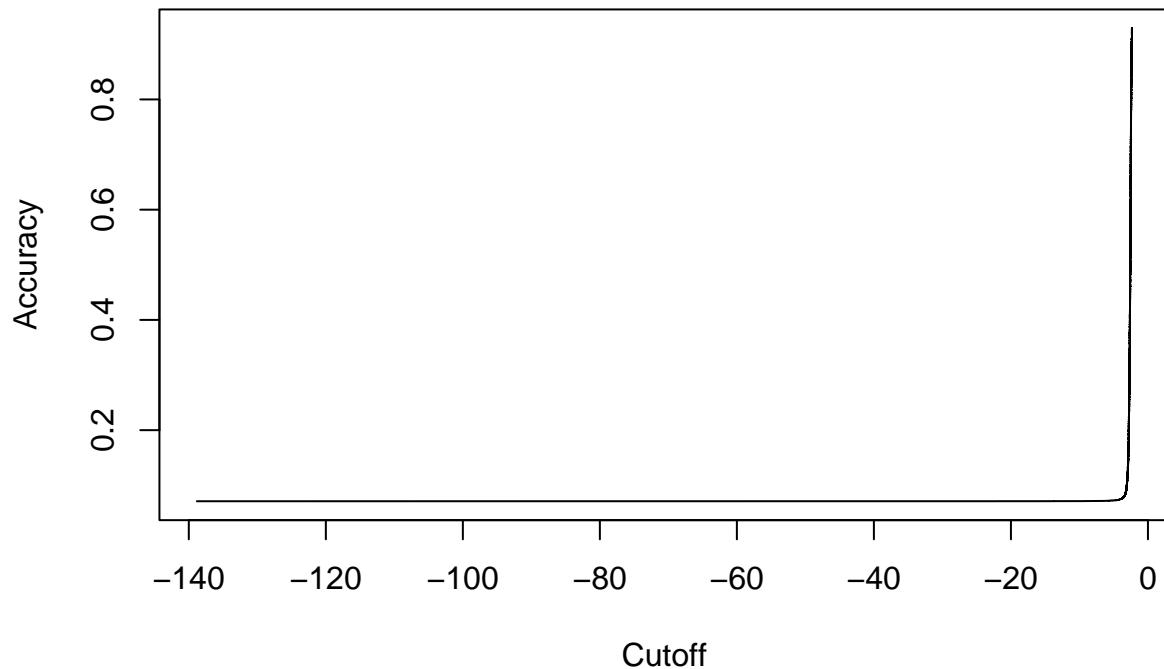
```
#predict(kmeans_model_train, newdata=test.x, type="response")
prediction_result <- predict.glm(glm_pca_original_data, newdata = testing_data)
```

```
## Warning: 'newdata' had 48108 rows but variables found have 72161 rows
```

```
prediction_result <- prediction_result[1:length(test.y)]
head(test.y)
```

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

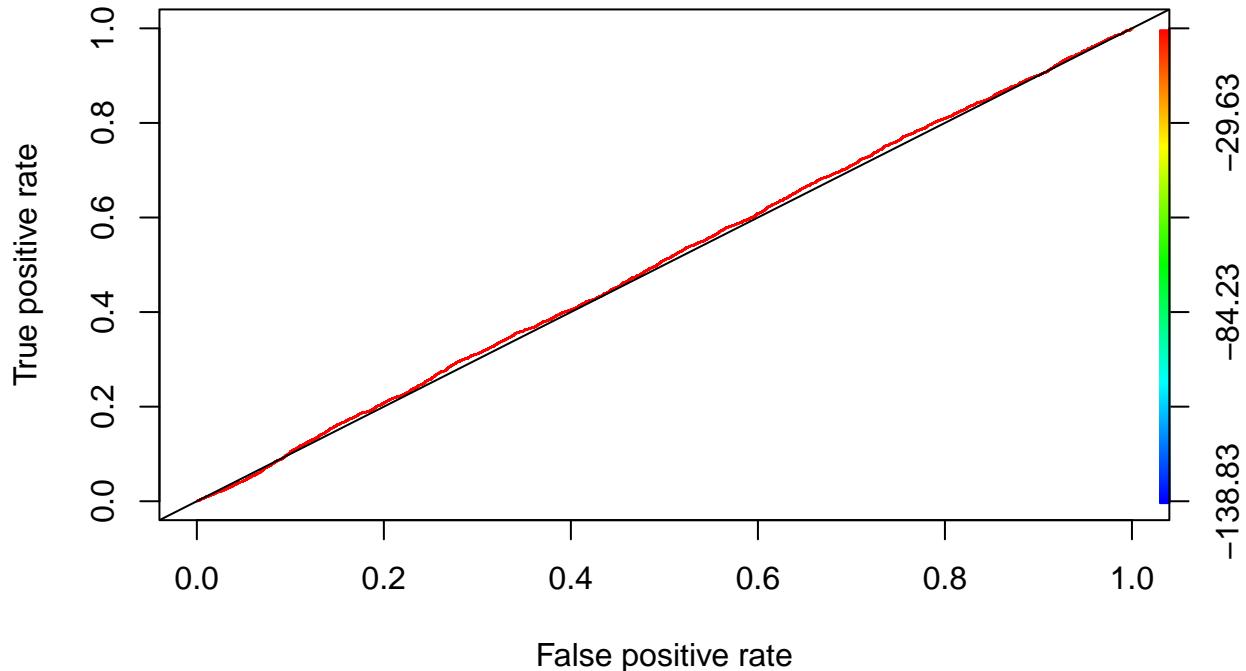
```
prediction_pca = prediction(prediction_result, test.y)
plot(performance(prediction_pca, "acc"))
```



```
table(test.y, result_m2>0.2)

##
##  test.y FALSE  TRUE
##      0 44063   629
##      1 2853   563

plot(performance(prediction_pca, "tpr", "fpr"), colorize=T)
abline(0,1)
```



```
pca_auc_ROCR2 <- performance(prediction_pca, measure = "auc")
pca_auc_ROCR2@y.values[[1]]
```

```
## [1] 0.5073262
```

Maybe don't need session

(0) Ensemble Learning Used by Paper

- Lasso Ensemble Algorithm
- Aggregating base learner: Weighted base=learner

Not Sure if we use this!!

```
# Check how the model fits the data
# From model.final, we can calculate the difference in the two deviances from the summary(model): 987.2
#Number of regressors in the model: 813-802=11
pchisq(473.75,12)

## [1] 1
#The area below 473.75 is one which means the area above it is almost zero. This means that our model h
print(paste("Pearson's X^2 =",round(sum(residuals(model.final,type="pearson")^2),3)))

## [1] "Pearson's X^2 = 1270781.333"
qchisq(0.95,802)
```

```

## [1] 868.9936
#781.61<868.99, so we fail to reject the null hypothesis and conclude that the logistic model fits the data well.

sum(cs_train[,2])

## [1] 4941
sum(cs_test[,2])

## [1] 3416

```

Cluster Attempt

```

# Cluster Grouping Majority Data (Try to cluster data by age/monthly income)
set.seed(1) # for reproducibility

head(cs_train_maj)

```

```

##          X SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 30484 30484          0                  0.09474044 47
## 74216 74216          0                  0.05277307 68
## 54077 54077          0                  0.73665267 36
## 86784 86784          0                  0.02365700 36
## 14388 14388          0                  0.00581900 44
## 31442 31442          0                  0.11523783 40
##          NumberOfTime30.59DaysPastDueNotWorse  DebtRatio MonthlyIncome
## 30484                               0 0.36842105      6250
## 74216                               0 0.22759781     11884
## 54077                               0 0.09445277      2000
## 86784                               0 0.21710409      5600
## 14388                               0 0.18525779      5100
## 31442                               1 2.49168646     2946
##          NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 30484                               8                      0
## 74216                               13                     0
## 54077                               6                      0
## 86784                               9                      0
## 14388                               24                     0
## 31442                               17                     0
##          NumberRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 30484                               1                      0
## 74216                               2                      0
## 54077                               0                      0
## 86784                               1                      0
## 14388                               1                      0
## 31442                               3                      0
##          NumberOfDependents
## 30484                      3
## 74216                      1
## 54077                      1
## 86784                      0
## 14388                      2
## 31442                      0

```

```

# Test with smaller group based on monthly income range
cs_train_maj_g1 <- cs_train_maj[cs_train_maj$NA_Indicator==0,] # Filter out NA monthly income first
cs_train_maj_g1 <- cs_train_maj_g1[cs_train_maj_g1$MonthlyIncome<20000,] #38035 obs
head(cs_train_maj_g1)

## [1] X                               SeriousDlqin2yrs
## [3] RevolvingUtilizationOfUnsecuredLines age
## [5] NumberOfTime30.59DaysPastDueNotWorse DebtRatio
## [7] MonthlyIncome                  NumberOfOpenCreditLinesAndLoans
## [9] NumberOfTimes90DaysLate       NumberOfRealEstateLoansOrLines
## [11] NumberOfTime60.89DaysPastDueNotWorse NumberOfDependents
## <0 rows> (or 0-length row.names)

# Create a dat with the two predictors of interest
dat <- cs_train_maj_g1[,c(4,7)] # Age and MonthlyIncome
head(dat)

## [1] age      MonthlyIncome
## <0 rows> (or 0-length row.names)

n_maj <- nrow(dat) # get number of rows

# Initial assignments to three groups that will need to update
assignments <- factor(sample(c(1,2,3), n_maj, replace = TRUE))
#plot(dat, col=assignments, xlim = c(0,110), asp=1)
#plot(dat, col=assignments)

```

a) REMOVE SECTION - NOT APPLICABLE —Boostrapping Minority Data (cs_train_min_add) (1000 obs)

- Currently created 1000 additional data, can add more

```

# Boostrapping Minority Data
set.seed(1) # for reproducibility
# set number of minority data to reproduce
n_add <- 1000

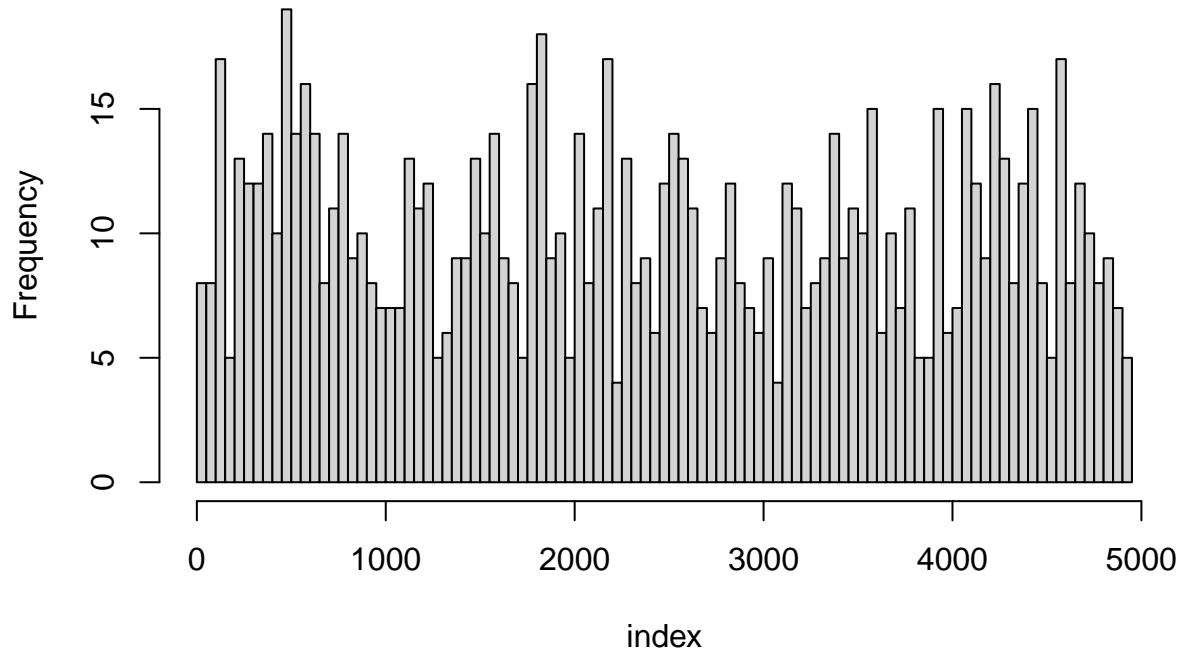
n_min <- nrow(cs_train_min)
n_min

## [1] 4941

n_maj <- nrow(cs_train_maj)
index <- sample(n_min, n_add, replace = TRUE)
index_maj <- sample(n_maj, n_add, replace = TRUE)
#plot(density(index), main="") # show density curve of the index we randomized
hist(index, breaks = 100)

```

Histogram of index



```
min(index)
## [1] 15
max(index)
## [1] 4939
length(index)
## [1] 1000
# We add the additional data for future analysis
cs_train_min_add <- cs_train_min[index,]
head(cs_train_min_add)

##          X SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 88154    88154             1                      0.03545848 33
## 64256    64256             1                      0.98335183 37
## 105760   105760            1                      1.46506986 37
## 137307   137307            1                      0.11727646 34
## 20062    20062             1                      0.67475736 53
## 47668    47668             1                      0.99989018 41
##          NumberofTime30.59DaysPastDueNotWorse  DebtRatio MonthlyIncome
## 88154                  3 0.29635182          2000
## 64256                  2 0.32223968          7000
## 105760                 0 0.21990439          2300
## 137307                 0 0.08461026          1500
## 20062                  0 2.16232772          3264
```

```

## 47668          0 0.07576094        4500
##           NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 88154            10                      0
## 64256             5                      0
## 105760            5                      3
## 137307            9                      0
## 20062            21                      0
## 47668             4                      0
##           NumberOfRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 88154              0                      1
## 64256              3                      0
## 105760             0                      2
## 137307             0                      0
## 20062              4                      0
## 47668              0                      0
##           NumberOfDependents
## 88154              0
## 64256              1
## 105760             2
## 137307             4
## 20062              0
## 47668              0

cs_train_maj_add <- cs_train_maj[index_maj,]
head(cs_train_maj_add)

##           X SeriousDlqin2yrs RevolvingUtilizationOfUnsecuredLines age
## 39095 39095            0                      0.4191770 40
## 53178 53178            0                      0.1770347 54
## 134752 134752           0                      1.1369727 60
## 7328   7328             0                      0.1300842 48
## 101807 101807           0                      0.0317618 28
## 110064 110064           0                      0.0000000 83
##           NumberOfTime30.59DaysPastDueNotWorse DebtRatio MonthlyIncome
## 39095                           0 0.8230508        1474
## 53178                           0 0.4121380        8666
## 134752                           0 1.0512030        6483
## 7328                            0 0.3726312        10500
## 101807                           1 262.5000000        1
## 110064                           0 0.0000000        5200
##           NumberOfOpenCreditLinesAndLoans NumberOfTimes90DaysLate
## 39095              6                      1
## 53178             11                      0
## 134752             16                      0
## 7328              10                      0
## 101807             12                      0
## 110064              1                      0
##           NumberOfRealEstateLoansOrLines NumberOfTime60.89DaysPastDueNotWorse
## 39095              1                      0
## 53178              1                      0
## 134752             2                      0
## 7328              1                      0
## 101807             0                      0
## 110064              0                      0
##           NumberOfDependents

```

```
## 39095          2
## 53178          2
## 134752         0
## 7328           1
## 101807         2
## 110064         0
nrow(cs_train_maj)

## [1] 67220
nrow(cs_train_maj_add)

## [1] 1000
```

Maybe don't need session (END)